Quarterly Performance Report As of December 31, 2023



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# Marquette Update



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# Marquette Update

10 2024



Our 2024 Market Preview launches January 25 with a live webinar at 1:00pm CT by our research team, featuring in-depth analysis of the final months of 2023 and a look ahead at risks and opportunities to monitor in 2024. Reach out to our team for registration information at <a href="mailto:clientservice@marquetteassociates.com">clientservice@marquetteassociates.com</a>. We'll post the recording to our YouTube channel afterward.

\$362B 99% 38th year in business

100% 25 partners 135+ employee-owned¹ partners

7

#### **2024 CLIENT TEAM PROMOTIONS:**

Eric Gaylord, CFA
Principal
Stephanie Osten
Principal
Sarah Wilson
Senior Vice President
Kevin Anderson, CFA
Vice President
Alberto Rivera
VP, Client Service
Matt Anderson, CFA
VP, Client Service
Adrian Pyk
AVP, Client Service

**Ben Wright, CFA, CAIA** AVP, Client Service AVP, Client Service

Jack Sannes, CFA, CAIA

AVP, Client Service

Jacob Schwister, CFA

AVP, Client Service

Olivia Parks, CAIA

AVP, Client Service

Junnor Shin

Senior Client Analyst

Hakeem Reed

Client Analyst

Andrea Blomquist

Client Analyst, OCIO

Eva Kasarova

Alejandro Mendez
Sr. Performance Analyst
Artem Rozenshteyn
Sr. Performance Analyst
Caroline O'Sullivan
Sr. Performance Analyst
Devon Waskiewicz
Sr. Performance Analyst
Grace Colson
Sr. Performance Analyst
Javier Palma
Sr. Performance Analyst
Michael Kleinman
Sr. Performance Analyst

#### **UPCOMING SPEAKING ENGAGEMENTS**

- ▶ Dave Smith speaking at CFNEIA Professional Advisor Education Series 1/17 (link)
- Lee Martin and Greg Leonberger speaking at KORIED Conference 1/16–1/19
- Amy Miller speaking at CFA Society Columbus and CAIA Association Event 2/20 (link)
- Frank Valle speaking at Ohio Institutional Forum 2/29 (link)
- Ryan P. Tracy speaking at Mountain States Institutional Forum 3/21 (link)

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To register for research and firm updates, please contact our team at <u>clientservice@marquetteassociates.com</u>.

Client data as of September 30, 2023; firm data as of January 2024. Client retention rate calculated 2013–2022. 'By current and former employees. Marquette is an independent investment adviser registered under the Investment Advisers Act of 1940, as amended. Registration does not imply a certain level of skill or training. More information about Marquette including our investment strategies, fees and objectives can be found in our ADV Part 2, which is available upon request and on our website.



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## **Market Environment**

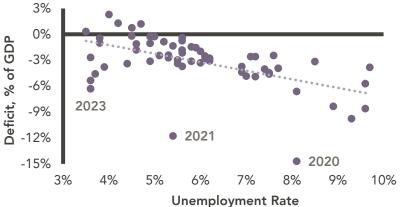


# **U.S. Economy**

- U.S. economic growth decelerated slightly in Q4, with real GDP increasing at an annual rate of 3.3%. The slowdown was largely driven by softer consumer spending and lower growth in private inventories compared to Q3.
- Despite the Q4 deceleration, 2023 defied economist expectations of a recession, with data coming in better-than-expected throughout the year. According to The Wall Street Journal's Economic Forecasting Survey from January 2023, the average probability of a recession in the next 12 months was 61% based on the 65 economists who participated.
- While the consumer was a large contributor to unexpected economic strength this year, government spending was abnormally large relative to the strength in the labor market. Based on data from the past 40 years, an unemployment rate below 4% is consistent with a government deficit of approximately 1%, compared to the actual deficit of more than 6%.







Source: Federal Reserve Bank of St. Louis, Refinitiv, The Wall Street Journal

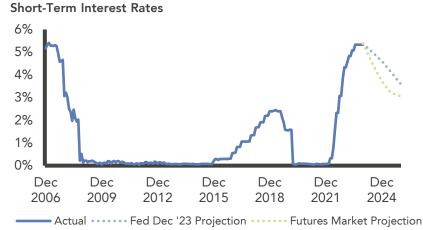
Striped bars reflect economist estimates from The Wall Street Journal Economic Forecasting Survey



# **U.S. Economy**

- Though economic growth was strong relative to expectations in 2023, disinflation was notable. Headline CPI and core CPI increased 3.4% and 3.9%, respectively for the year, marking a considerable deceleration from their respective peaks of 9.1% and 6.6% seen in 2022.
- It's an open question how much the historic rate hiking cycle by the Federal Reserve has contributed to the disinflation. In theory, tighter policy restrains spending, discourages investment and weakens the demand for labor. However, given strong economic growth in 2023, it seems that easing supply chain pressures, discounting of goods inventories, and a surge in labor supply likely played a role that was just as, if not more, important than monetary policy.
- Amid lower inflation, the Federal Reserve's base case shows a decrease of 75 basis points in the federal funds rate in 2024. Markets, on the other hand, are pricing in approximately 150 basis points of rate cuts, with the first cut likely to happen in March.

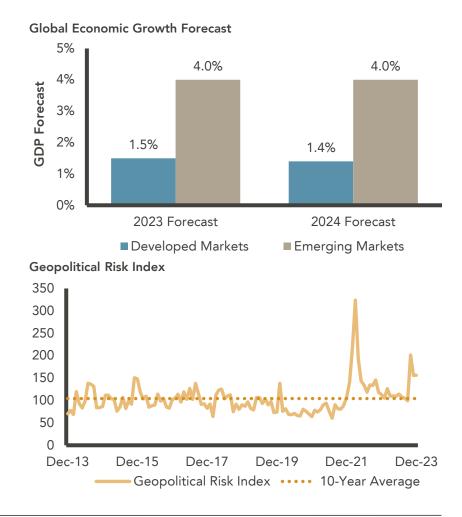






# **Global Economy**

- Looking ahead to 2024, the IMF sees relatively similar economic growth for both developed and emerging markets economies, respectively. Underneath the surface, however, there is notable dispersion.
- Economic growth in the U.S. is expected to slow amid the lagged effects of monetary policy. In the Eurozone, on the other hand, growth is forecast to accelerate largely due to a rebound in Germany, which has been mired in a manufacturing recession.
- In China, growth is expected to slow as the economy continues to grapple a weak post-COVID rebound amid ongoing deleveraging in the real estate sector.
- While the economic impact from geopolitics is difficult to model, geopolitical risk appears elevated relative to the past decade amid the ongoing Russian invasion of Ukraine and increasing tensions in the Middle East. Further, there are national elections anticipated in 64 countries this year across the world.

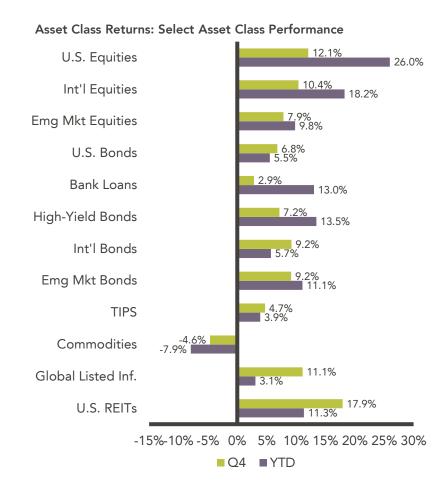


Source: Economic Policy Uncertainty and IMF



## **Global Asset Class Performance**

- Global equities ended 2023 on a strong note, posting robust gains amid falling interest rates and easing financial conditions. U.S equities outperformed their international counterparts despite U.S. dollar weakness. The greenback contributed approximately 5.5 and 2.3 percentage points, respectively, to international developed and emerging markets returns.
- Fixed income markets were also firmly in the black. Investment-grade bonds generated a return of nearly 7% in Q4 thanks to lower rates across the yield curve. Sub-investment grade debt also generated positive returns, though bank loans underperformed high-yield debt given their floating-rate characteristics.
- Inflation-sensitive assets were mixed in Q4. TIPS posted gains but underperformed their nominal government bond counterparts due to falling inflation expectations. Global listed infrastructure and REITs topped broad global and U.S. equity markets, respectively, as lower rates drove the outperformance. Commodities, on the other hand, were in the red thanks in large part to a 14% plunge in oil prices.

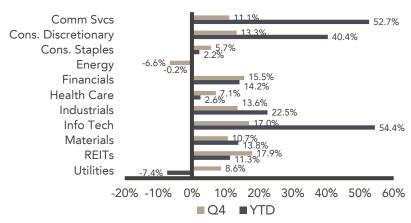




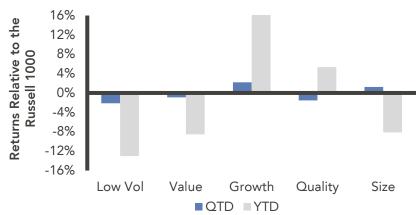
# **U.S. Equity Markets**

- Economic sector performance was mostly positive in Q4, with all sectors in the black, save Energy. More defensive sectors lagged the broad markets amid the strong gains. At the other end of the spectrum, REITs led the way given falling rates, followed by Information Technology and Financials.
- From a style perspective, growth stocks topped value stocks handily once again in Q4. Value suffered from the underperformance of Energy. For the year, growth outperformed value by nearly 30 percentage points (as measured by their respective Russell 3000 Indices) thanks in large part to outperformance by a handful of mega-cap growth stocks in the first half of the year.
- Lower-quality stocks generally outperformed in Q4, benefiting from falling rates and receding expectations for an economic recession. This led to an improvement in market breadth and strong relative returns for small-cap stocks. Still, all but two of the "Magnificent 7" stocks outperformed the S&P 500 Index in the quarter.

#### **Sector Returns**



#### Returns Relative to the Russell 1000

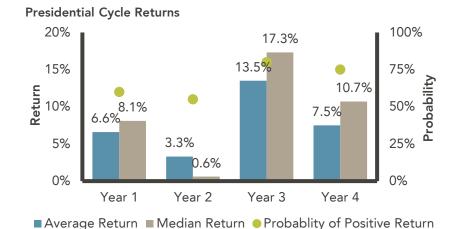


Source: Bloomberg, Refinitiv

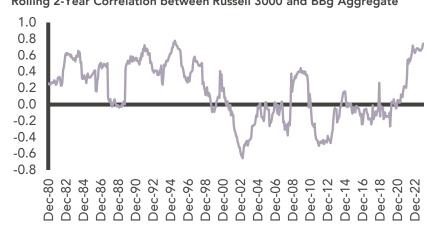


# **U.S. Equity Markets**

- While the strong 2023 return for U.S. equities masks some intra-year volatility, the U.S. market largely followed the historical script of the presidential cycle, posting double-digit gains.
- If the market continues to align with the historical pattern, history argues that equities will see further, albeit more muted, gains in 2024.
- From a portfolio construction perspective, however, investors should be mindful of the increasingly strong positive correlation between equities and fixed income, which has been a markedly different environment than that witnessed over the previous two decades.
- The relationship was helpful for portfolios in 2023 after hurting returns in 2022. Going forward, it's unclear whether this is a cyclical blip or structural change. With the latter being a material risk, it seems prudent for investors with the size, scale and ability to consider non-traditional asset classes for diversification to have those conversations, at a minimum.





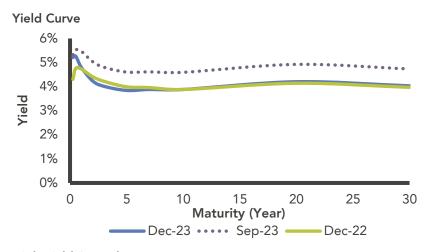


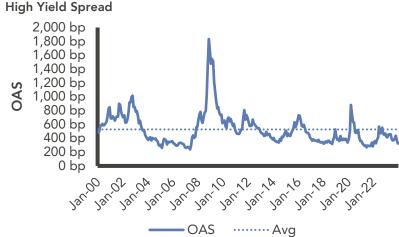
Source: KKR and Refinitiv



## **U.S. Fixed Income**

- After setting new cycle highs in October,
   Treasury yields declined notably by the end of
   the year amid the Federal Reserve's long awaited "pivot" appearing to have taken place
   at their December policy meeting.
- From a supply perspective, recent treasury issuance has been more heavily skewed to shorter-dated bills, as opposed to coupons, which has also put downward pressure on intermediate- and long-term maturities.
- Given lower rates, the broad investment-grade bond market generated a strong return in Q4, with the Bloomberg Aggregate Index returning 6.8% and bringing its 2023 return firmly in the black.
- Sub-investment grade debt also posted gains amid a strong environment for risk assets, though bank loans underperformed high-yield debt given their floating-rate characteristics. High-yield spreads ended Q4 at their tightest level since December 2021.







# **Global Index Returns**

DOMESTIC EQUITY	QTR	YTD	1 Year	3 Year	5 Year	10 Year
S&P 500 Index	11.7	26.3	26.3	10.0	15.7	12.0
Russell 3000 Index	12.1	26.0	26.0	8.5	15.2	11.5
Russell 3000 Growth Index	14.1	41.2	41.2	8.1	18.8	14.3
Russell 3000 Value Index	9.8	11.7	11.7	8.8	10.8	8.3
Russell TOP 200 Index	11.7	29.9	29.9	10.0	16.5	12.7
Russell TOP 200 Growth Index	14.1	46.6	46.6	10.6	20.8	16.1
Russell TOP 200 Value Index	8.0	10.6	10.6	9.0	10.7	8.5
Russell 1000 Index	12.0	26.5	26.5	9.0	15.5	11.8
Russell 1000 Growth Index	14.2	42.7	42.7	9.0	19.5	14.9
Russell 1000 Value Index	9.5	11.5	11.5	8.9	10.9	8.4
Russell Mid-Cap Index	12.8	17.2	17.2	5.9	12.7	9.4
Russell Mid-Cap Growth Index	14.5	25.9	25.9	1.3	13.8	10.6
Russell Mid-Cap Value Index	12.1	12.7	12.7	8.4	11.2	8.3
Russell 2000 Index	14.0	16.9	16.9	2.2	10.0	7.2
Russell 2000 Growth Index	12.7	18.7	18.7	(3.5)	9.2	7.2
Russell 2000 Value Index	15.3	14.6	14.6	7.9	10.0	6.8
DOMESTIC EQUITY BY SECTOR (MSCI)						
Communication Services	11.1	52.7	52.7	2.5	12.4	8.2
Consumer Discretionary	13.3	40.4	40.4	2.8	15.5	12.1
Consumer Staples	5.7	2.2	2.2	6.0	10.9	8.5
Energy	(6.6)	(0.2)	(0.2)	36.6	13.3	2.6
Financials	15.5	14.2	14.2	10.7	11.9	10.0
Health Care	7.1	2.6	2.6	5.4	11.0	11.1
Industrials	13.6	22.5	22.5	10.7	14.7	10.1
Information Technology	17.0	54.4	54.4	12.3	25.2	19.6
Materials	10.7	13.8	13.8	8.6	13.6	8.4
Real Estate	17.9	11.3	11.3	5.6	7.6	7.8
Utilities	8.6	(7.4)	(7.4)	3.3	6.5	8.6



# **Global Index Returns**

INTERNATIONAL/GLOBAL EQUITY	QTR	YTD	1 Year	3 Year	5 Year	10 Year
MSCI EAFE (Net)	10.4	18.2	18.2	4.0	8.2	4.3
MSCI EAFE Growth (Net)	12.7	17.6	17.6	0.3	8.8	5.1
MSCI EAFE Value (Net)	8.2	19.0	19.0	7.6	7.1	3.2
MSCI EAFE Small Cap (Net)	11.1	13.2	13.2	(0.7)	6.6	4.8
MSCI AC World Index (Net)	11.0	22.2	22.2	5.7	11.7	7.9
MSCI AC World Index Growth (Net)	12.7	33.2	33.2	3.7	14.6	10.1
MSCI AC World Index Value (Net)	9.2	11.8	11.8	7.3	8.2	5.5
MSCI Europe ex UK (Net)	12.3	21.7	21.7	4.9	9.8	4.7
MSCI United Kingdom (Net)	6.9	14.1	14.1	8.8	6.9	2.5
MSCI Pacific ex Japan (Net)	11.4	6.4	6.4	1.6	5.7	3.9
MSCI Japan (Net)	8.2	20.3	20.3	0.7	6.9	5.0
MSCI Emerging Markets (Net)	7.9	9.8	9.8	(5.1)	3.7	2.7



# **Global Index Returns**

FIXED INCOME	QTR	YTD	1 Year	3 Year	5 Year	10 Year
Merrill Lynch 3-month T-Bill	1.4	5.0	5.0	2.2	1.9	1.3
Barclays Intermediate Gov't./Credit	4.6	5.2	5.2	(1.6)	1.6	1.7
Barclays Aggregate Bond	6.8	5.5	5.5	(3.3)	1.1	1.8
Barclays Short Government	2.6	4.3	4.3	(0.1)	1.3	1.1
Barclays Intermediate Government	4.0	4.3	4.3	(1.8)	1.0	1.2
Barclays Long Government	12.7	3.1	3.1	(11.3)	(1.2)	2.3
Barclays Investment Grade Corp.	8.5	8.5	8.5	(3.3)	2.6	3.0
Barclays High Yield Corp. Bond	7.2	13.5	13.5	2.0	5.4	4.6
Credit Suisse Leveraged Loan	2.9	13.0	13.0	5.6	5.6	4.4
JPMorgan Global ex US Bond	9.2	5.7	5.7	(7.2)	(1.6)	(0.8)
JPMorgan Emerging Market Bond	9.2	11.1	11.1	(3.6)	1.7	3.2
INFLATION SENSITIVE						
Consumer Price Index	(0.3)	3.4	3.4	5.6	4.1	2.8
BC TIPS	4.7	3.9	3.9	(1.0)	3.2	2.4
Commodities	(4.6)	(7.9)	(7.9)	10.8	7.2	(1.1)
Gold	11.4	12.8	12.8	2.3	8.9	4.7
REITs	17.9	11.3	11.3	5.6	7.6	7.8
FTSE EPRA/NAREIT Global REITs	14.5	8.7	8.7	0.1	2.1	3.3
NCREIF ODCE*	(5.0)	(12.7)	(12.7)	4.0	3.3	6.3

<sup>\*</sup>Data are preliminary. Source: Refinitiv





#### PREPARED BY MARQUETTE ASSOCIATES

180 North LaSalle St. Ste 3500. Chicago. Illinois 60601 PHONE 312-527-5500

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## **Portfolio Overview**



### **Observations**

- Market Value as of December 31, 2023, was \$3.3 billion.
- 4<sup>th</sup> Qtr. '23 Return: Total Fund 7.5% (net) vs. Policy Index 7.7%; investment gain of \$230.4 million.
- Contributors to 4th Qtr. Performance:
  - Small and Large Cap Growth Equity
  - o International Large Cap Core Equity
- Detractors from 4<sup>th</sup> Qtr. Performance:
  - o International Growth Equity
  - o Timberland
  - o Opportunistic Credit
- Longer term performance has been strong:
  - o 5-Year Return: 8.6% (35<sup>th</sup> percentile) vs. Policy Index 8.6%; investment gain of \$1.19 billion
  - o 10-Year Return: 6.8% (27<sup>th</sup> percentile) vs. Policy Index 6.8%; investment gain of \$1.76 billion
- Low Investment Management Fees: 0.29%

#### **Looking Ahead**

- Transition Manager Search Pending
  - o Smith Graham Small Cap Value to Channing Small Cap Value
- International Value Equity discussion RFPs sent to six semi-finalists

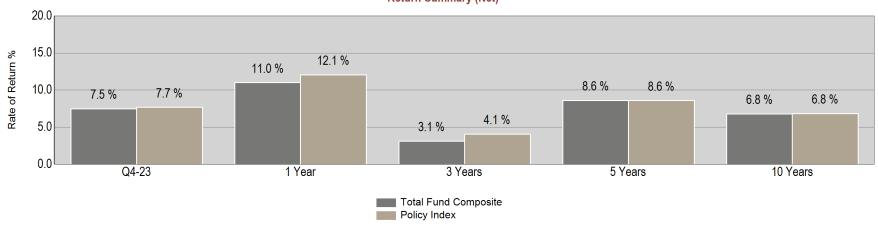
### Portfolio Summary

As of December 31, 2023

#### **Summary of Cash Flows**

	Fourth Quarter	One Year	Three Years	Five Years	Ten Years
Beginning Market Value	\$3,053,608,056	\$3,021,555,622	\$3,175,810,695	\$2,362,559,830	\$1,946,008,094
Net Cash Flow	\$11,303,231	-\$57,202,989	-\$179,408,090	-\$254,671,394	-\$406,757,105
Net Investment Change	\$230,413,892	\$330,972,546	\$298,922,574	\$1,187,436,743	\$1,756,074,190
Ending Market Value	\$3,295,325,179	\$3,295,325,179	\$3,295,325,179	\$3,295,325,179	\$3,295,325,179

#### Return Summary (Net)



#### **Asset Allocation vs. Target**

	Current	Policy	Difference*
U.S. Equity	33.4%	32.5%	\$31,156,439
Global Equity	4.8%	5.0%	-\$5,789,650
Non-U.S. Equity	15.5%	15.0%	\$17,874,252
Emerging Markets	2.2%	2.5%	-\$8,861,719
Real Assets	16.1%	15.0%	\$35,224,970
U.S. Fixed Income	26.8%	29.0%	-\$73,613,622
Cash Equivalent	1.1%	1.0%	\$4,009,330
Total	100.0%	100.0%	

### Market Value Summary

As of December 31, 2023

#### Cash Flow Summary by Manager From October 01, 2023 to December 31, 2023

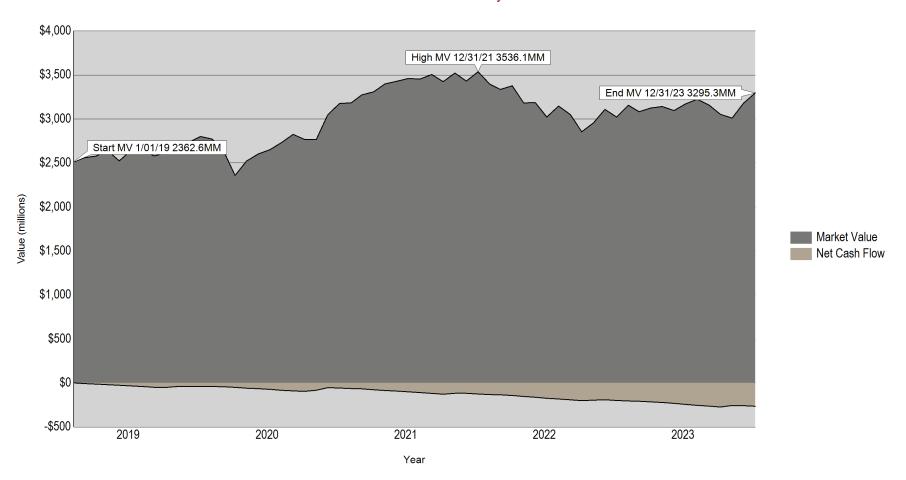
	Beginning Market Value	Net Cash Flow	Net Investment Change	Ending Market Value
MFS Large Cap Value	\$126,488,824	\$0	\$11,955,765	\$138,444,589
Xponance S&P 500	\$264,452,662	\$0	\$30,874,311	\$295,326,973
Northern Trust S&P 500	\$260,371,518	\$0	\$30,431,285	\$290,802,803
Polen Focus Growth	\$102,253,232	\$0	\$14,429,010	\$116,682,242
Northern Trust Dow Jones Completion Index	\$97,913,154	\$0	\$14,779,420	\$112,692,575
Copeland SMID Cap Dividend Growth	\$50,441,429	\$0	\$5,333,020	\$55,774,449
Smith, Graham & Co Small Cap Value	\$42,758,937	\$0	\$5,563,116	\$48,322,053
Emerald Small Cap Growth	\$38,428,136	\$0	\$5,663,305	\$44,091,440
Rhumbline Global Min. Volatility	\$149,341,088	\$0	\$9,635,521	\$158,976,609
SSGA MSCI World ex US	\$250,405,419	\$0	\$26,387,745	\$276,793,164
Hardman Johnston Int'l Equity	\$95,224,380	\$0	\$4,922,580	\$100,146,959
Hudson Edge Int'l Equity	\$119,631,293	\$0	\$15,464,071	\$135,095,364
Jarislowsky, Fraser Limited	\$172,976	\$0	-\$35,434	\$137,542
SSGA MSCI Emerging Markets Index	\$68,203,633	\$0	\$5,317,778	\$73,521,410
Forest Investment Associates	\$144,802,699	\$0	\$4,950,689	\$149,753,387
PRISA LP	\$61,456,369	\$0	-\$3,451,429	\$58,004,940
PRISA II	\$123,758,692	\$0	-\$7,456,404	\$116,302,288
PennMuni-Nuveen U.S. Real Estate Fund	\$203,999,647	\$0	\$0	\$203,999,647
N. Front Street (Nuveen)	\$1,491,859	\$0	-\$28,374	\$1,463,485
SSGA US Aggregate Bond Index	\$329,385,347	\$0	\$22,168,045	\$351,553,392
Federated Hermes Core Aggregate Strategy	\$331,202,909	\$0	\$23,322,915	\$354,525,824
Ares Global Multi-Asset Credit	\$168,032,126	\$0	\$7,919,338	\$175,951,464
Cash Management	\$23,391,729	\$11,303,231	\$2,267,621	\$36,962,582
Total	\$3,053,608,056	\$11,303,231	\$230,413,892	\$3,295,325,179

<sup>\*</sup>PennMuni-Nuveen RE and N. Front St. Values as of 9/30/2023, adjusted for cash flows where relevant.



As of December 31, 2023

#### **Market Value History**



#### **Asset Allocation Summary**

U.S. Equity Composite       1,102,137,123       33.4       32.5       31,156         MFS Large Cap Value       138,444,589       4.2         Xponance S&P 500       295,326,973       9.0         Northern Trust S&P 500       290,802,803       8.8         Polen Focus Growth       116,682,242       3.5         Northern Trust Dow Jones Completion Index       112,692,575       3.4         Copeland SMID Cap Dividend Growth       55,774,449       1.7         Smith, Graham & Co Small Cap Value       48,322,053       1.5         Emerald Small Cap Growth       44,091,440       1.3         Global Equity Composite       158,976,609       4.8       5.0       -5,785         Rhumbline Global Min. Volatility       158,976,609       4.8       5.0       -5,785         Non-U.S Equity Composite       585,694,439       17.8       17.5       9,012         SSGA MSCI World ex US       276,793,164       8.4       4.4         Hardman Johnston Int'l Equity       100,146,959       3.0       4.1         SSGA MSCI Emerging Markets Index       73,521,410       2.2         Real Assets Composite       59,693,747       16.1       15.0       35,224         Forest Investment Associates       14,63,485		Market Value	% of Portfolio	Policy %	Policy Difference
Total Equity Composite         1,846,808,171         56.0         55.0         34,375           U.S. Equity Composite         1,102,137,123         33.4         32.5         31,156           MFS Large Cap Value         138,445,899         4.2         4.2           Xponance S&P 500         295,326,973         9.0           Northern Trust S&P 500         290,802,803         8.8           Polen Focus Growth         116,682,242         3.5           Northern Trust Dow Jones Completion Index         112,692,575         3.4           Copeland SMID Cap Dividend Growth         55,774,449         1.7           Smith, Graham & Co Small Cap Value         48,322,053         1.5           Emerald Small Cap Growth         44,091,440         1.3           Global Equity Composite         158,976,609         4.8         5.0         -5,785           Rhumbline Global Min. Volatility         159,976,609         4.8         5.0         -5,785           Non-U.S Equity Composite         585,694,439         17.8         17.5         9,012           SSGA MSCI World ex US         276,793,164         8.4         4         4         4         4         4         4         4         4         5         9,012         5         3,012 <td>Total Fund Composite</td> <td>3,295,325,179</td> <td>100.0</td> <td>100.0</td> <td>0</td>	Total Fund Composite	3,295,325,179	100.0	100.0	0
U.S. Equity Composite     1,102,137,123     33.4     32.5     31,156       MFS Large Cap Value     138,444,589     4.2       Xponance S&P 500     295,326,973     9.0       Northern Trust S&P 500     290,802,803     8.8       Polen Focus Growth     116,682,242     3.5       Northern Trust Dow Jones Completion Index     112,692,575     3.4       Copeland SMID Cap Dividend Growth     55,774,449     1.7       Smith, Graham & Co Small Cap Value     48,322,053     1.5       Emerald Small Cap Growth     44,091,440     1.3       Global Equity Composite     158,976,609     4.8     5.0     -5,785       Rhumbline Global Min. Volatility     158,976,609     4.8     5.0     -5,785       Non-U.S Equity Composite     585,694,439     17.8     17.5     9,012       SSGA MSCI World ex US     276,793,164     8.4       Hardman Johnston Int'l Equity     100,146,959     3.0       Hudson Edge Int'l Equity     135,095,364     4.1       SSGA MSCI Emerging Markets Index     73,521,410     2.2       Real Assets Composite     58,004,940     1.8       Forest Investment Associates     149,753,387     4.5       FRISA II     16,302,288     3.5       PRISA II     16,302,288     3.5	·		56.0	55.0	34,379,322
Xponance S&P 500       295,326,973       9.0         Northern Trust S&P 500       290,802,803       8.8         Poler Focus Growth       116,682,242       3.5         Northern Trust Dow Jones Completion Index       112,692,575       3.4         Copeland SMID Cap Dividend Growth       55,774,449       1.7         Smith, Graham & Co Small Cap Value       48,322,053       1.5         Emerald Small Cap Growth       44,091,440       1.3         Global Equity Composite       158,976,609       4.8       5.0       -5,785         Rhumbline Global Min. Volatility       158,976,609       4.8       17.5       9,012         SSGA MSCI World ex US       276,793,164       8.4       4       17.5       9,012         SSGA MSCI World ex US       276,793,164       8.4       4       17.5       9,012         SSGA MSCI Emerging Markets Index       73,521,410       2.2       2       2         Real Assets Composite       529,523,747       16.1       15.0       35,224         Forest Investment Associates       149,753,387       4.5       7       7       7       7       7       15.0       35,224       1       1       1       1       1       1       1       1	· · ·	1,102,137,123	33.4	32.5	31,156,439
Northern Trust S&P 500         290,802,803         8.8           Polen Focus Growth         116,682,242         3.5           Northern Trust Dow Jones Completion Index         112,692,575         3.4           Copeland SMID Cap Dividend Growth         55,774,449         1.7           Smith, Graham & Co Small Cap Value         48,322,053         1.5           Emerald Small Cap Growth         44,091,440         1.3           Global Equity Composite         158,976,609         4.8         5.0         -5,789           Rhumbline Global Min. Volatility         158,976,609         4.8         1.5         -5,789           Rhumbline Global Min. Volatility         158,976,609         4.8         1.5         -5,789           Rhumbline Global Min. Volatility         158,976,609         4.8         17.5         9,012           SGA MSCI World ex US         276,793,164         8.4         4.4         4.4         4.4         4.4         4.4         4.4         4.4         4.5         4.5         4.4         4.4         4.5         4.5         4.4         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5         4.5	MFS Large Cap Value	138,444,589	4.2		
Polen Focus Growth	Xponance S&P 500	295,326,973	9.0		
Northern Trust Dow Jones Completion Index       112,692,575       3.4         Copeland SMID Cap Dividend Growth       55,774,449       1.7         Smith, Graham & Co Small Cap Value       48,322,053       1.5         Emerald Small Cap Growth       44,091,440       1.3         Global Equity Composite       158,976,609       4.8       5.0       -5,785         Rhumbline Global Min. Volatility       158,976,609       4.8       17.5       9,012         Non-U.S Equity Composite       585,694,439       17.8       17.5       9,012         SGA MSCI World ex US       276,793,164       8.4       4.4       4.4       4.4       4.4       4.4       4.4       4.4       4.4       4.5       4.1       4.5       4.1       4.5       4.1       4.5       4.1       4.5       4.1       4.5       4.1	Northern Trust S&P 500	290,802,803	8.8		
Copeland SMID Cap Dividend Growth       55,774,449       1.7         Smith, Graham & Co Small Cap Value       48,322,053       1.5         Emerald Small Cap Growth       44,091,440       1.3         Global Equity Composite       158,976,609       4.8       5.0       -5,785         Rhumbline Global Min. Volatility       158,976,609       4.8       17.5       9,012         Non-U.S Equity Composite       585,694,439       17.8       17.5       9,012         SSGA MSCI World ex US       276,793,164       8.4       4         Hardman Johnston Int'l Equity       100,146,959       3.0       4.1         SSGA MSCI Emerging Markets Index       73,521,410       2.2         Real Assets Composite       529,523,747       16.1       15.0       35,224         Forest Investment Associates       149,753,387       4.5       78,004,940       1.8         PRISA LP       58,004,940       1.8       78,004,940       1.8         PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2       78,004,945       6.2         N. Front Street (Nuveen)       1,463,485       0.0       0.0       73,613         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613 <td>Polen Focus Growth</td> <td>116,682,242</td> <td>3.5</td> <td></td> <td></td>	Polen Focus Growth	116,682,242	3.5		
Smith, Graham & Co Small Cap Value       48,322,053       1.5         Emerald Small Cap Growth       44,091,440       1.3         Global Equity Composite       158,976,609       4.8       5.0       -5,785         Rhumbline Global Min. Volatility       158,976,609       4.8	Northern Trust Dow Jones Completion Index	112,692,575	3.4		
Emerald Small Cap Growth       44,091,440       1.3         Global Equity Composite       158,976,609       4.8       5.0       -5,789         Rhumbline Global Min. Volatility       158,976,609       4.8         Non-U.S Equity Composite       585,694,439       17.8       17.5       9,012         SSGA MSCI World ex US       276,793,164       8.4       4.4         Hardman Johnston Int'l Equity       100,146,959       3.0         Hudson Edge Int'l Equity       135,095,364       4.1         SSGA MSCI Emerging Markets Index       73,521,410       2.2         Real Assets Composite       529,523,747       16.1       15.0       35,224         Forest Investment Associates       149,753,387       4.5       78,500       79,500       79,500       79,500       79,500       70,500 <td>Copeland SMID Cap Dividend Growth</td> <td>55,774,449</td> <td>1.7</td> <td></td> <td></td>	Copeland SMID Cap Dividend Growth	55,774,449	1.7		
Global Equity Composite         158,976,609         4.8         5.0         -5,785           Rhumbline Global Min. Volatility         158,976,609         4.8           Non-U.S Equity Composite         585,694,439         17.8         17.5         9,012           SSGA MSCI World ex US         276,793,164         8.4	Smith, Graham & Co Small Cap Value	48,322,053	1.5		
Rhumbline Global Min. Volatility       158,976,609       4.8         Non-U.S Equity Composite       585,694,439       17.8       17.5       9,012         SSGA MSCI World ex US       276,793,164       8.4         Hardman Johnston Int'l Equity       100,146,959       3.0         Hudson Edge Int'l Equity       135,095,364       4.1         SSGA MSCI Emerging Markets Index       73,521,410       2.2         Real Assets Composite       529,523,747       16.1       15.0       35,224         Forest Investment Associates       149,753,387       4.5         PRISA LP       58,004,940       1.8         PRISA II       116,302,288       3.5         PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2         N. Front Street (Nuveen)       1,463,485       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	Emerald Small Cap Growth	44,091,440	1.3		
Non-U.S Equity Composite       585,694,439       17.8       17.5       9,012         SSGA MSCI World ex US       276,793,164       8.4         Hardman Johnston Int'l Equity       100,146,959       3.0         Hudson Edge Int'l Equity       135,095,364       4.1         SSGA MSCI Emerging Markets Index       73,521,410       2.2         Real Assets Composite       529,523,747       16.1       15.0       35,224         Forest Investment Associates       149,753,387       4.5         PRISA LP       58,004,940       1.8         PRISA II       116,302,288       3.5         PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2         N. Front Street (Nuveen)       1,463,485       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	Global Equity Composite	158,976,609	4.8	5.0	-5,789,650
SSGA MSCI World ex US       276,793,164       8.4         Hardman Johnston Int'l Equity       100,146,959       3.0         Hudson Edge Int'l Equity       135,095,364       4.1         SSGA MSCI Emerging Markets Index       73,521,410       2.2         Real Assets Composite       529,523,747       16.1       15.0       35,224         Forest Investment Associates       149,753,387       4.5         PRISA LP       58,004,940       1.8         PRISA II       116,302,288       3.5         PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2         N. Front Street (Nuveen)       1,463,485       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	Rhumbline Global Min. Volatility	158,976,609	4.8		
Hardman Johnston Int'l Equity       100,146,959       3.0         Hudson Edge Int'l Equity       135,095,364       4.1         SSGA MSCI Emerging Markets Index       73,521,410       2.2         Real Assets Composite       529,523,747       16.1       15.0       35,224         Forest Investment Associates       149,753,387       4.5       4.5         PRISA LP       58,004,940       1.8       1.8         PRISA II       116,302,288       3.5       5.2         PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2       6.2         N. Front Street (Nuveen)       1,463,485       0.0       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	Non-U.S Equity Composite	585,694,439	17.8	17.5	9,012,533
Hudson Edge Int'l Equity       135,095,364       4.1         SSGA MSCI Emerging Markets Index       73,521,410       2.2         Real Assets Composite       529,523,747       16.1       15.0       35,224         Forest Investment Associates       149,753,387       4.5 </td <td>SSGA MSCI World ex US</td> <td>276,793,164</td> <td>8.4</td> <td></td> <td></td>	SSGA MSCI World ex US	276,793,164	8.4		
SSGA MSCI Emerging Markets Index       73,521,410       2.2         Real Assets Composite       529,523,747       16.1       15.0       35,224         Forest Investment Associates       149,753,387       4.5         PRISA LP       58,004,940       1.8         PRISA II       116,302,288       3.5         PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2         N. Front Street (Nuveen)       1,463,485       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	Hardman Johnston Int'l Equity	100,146,959	3.0		
Real Assets Composite       529,523,747       16.1       15.0       35,224         Forest Investment Associates       149,753,387       4.5         PRISA LP       58,004,940       1.8         PRISA II       116,302,288       3.5         PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2         N. Front Street (Nuveen)       1,463,485       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	Hudson Edge Int'l Equity	135,095,364	4.1		
Forest Investment Associates       149,753,387       4.5         PRISA LP       58,004,940       1.8         PRISA II       116,302,288       3.5         PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2         N. Front Street (Nuveen)       1,463,485       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	SSGA MSCI Emerging Markets Index	73,521,410	2.2		
PRISA LP       58,004,940       1.8         PRISA II       116,302,288       3.5         PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2         N. Front Street (Nuveen)       1,463,485       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	Real Assets Composite	529,523,747	16.1	15.0	35,224,970
PRISA II       116,302,288       3.5         PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2         N. Front Street (Nuveen)       1,463,485       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	Forest Investment Associates	149,753,387	4.5		
PennMuni-Nuveen U.S. Real Estate Fund       203,999,647       6.2         N. Front Street (Nuveen)       1,463,485       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	PRISA LP	58,004,940	1.8		
N. Front Street (Nuveen)       1,463,485       0.0         Total Fixed Income Composite       882,030,680       26.8       29.0       -73,613	PRISA II	116,302,288	3.5		
Total Fixed Income Composite 882,030,680 26.8 29.0 -73,613	PennMuni-Nuveen U.S. Real Estate Fund	203,999,647	6.2		
.,,,	N. Front Street (Nuveen)	1,463,485	0.0		
	Total Fixed Income Composite	882,030,680	26.8	29.0	-73,613,622
SSGA US Aggregate Bond Index 351,553,392 10.7	SSGA US Aggregate Bond Index	351,553,392	10.7		
Federated Hermes Core Aggregate Strategy 354,525,824 10.8	Federated Hermes Core Aggregate Strategy	354,525,824	10.8		
Ares Global Multi-Asset Credit 175,951,464 5.3	Ares Global Multi-Asset Credit	175,951,464	5.3		
Cash Composite 36,962,582 1.1 1.0 4,009	Cash Composite	36,962,582	1.1	1.0	4,009,330

<sup>\*</sup>Residual value for Jarislowsky (approx. \$138K) included in Non-US Equity and Total Fund Composite values.

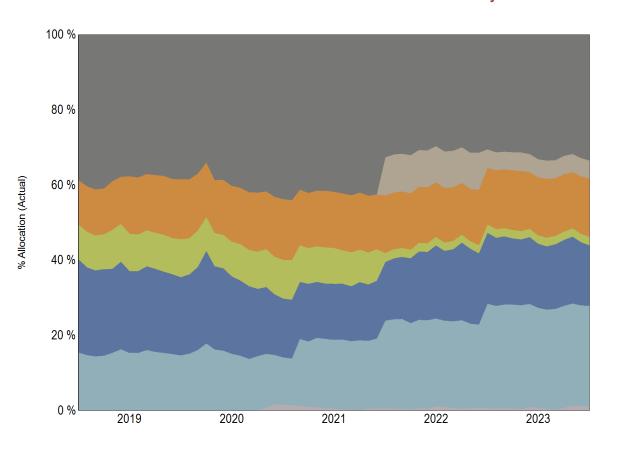


<sup>\*</sup>PennMuni-Nuveen RE and N. Front St. Values as of 9/30/2023, adjusted for cash flows where relevant.

### **Asset Allocation Summary**

As of December 31, 2023

#### **Asset Allocation History**

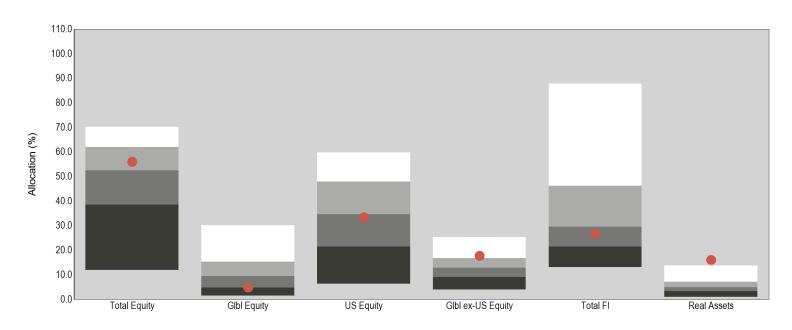




### **Asset Allocation Summary**

As of December 31, 2023

Total Plan Allocation vs. InvMetrics All DB Net As of December 31, 2023



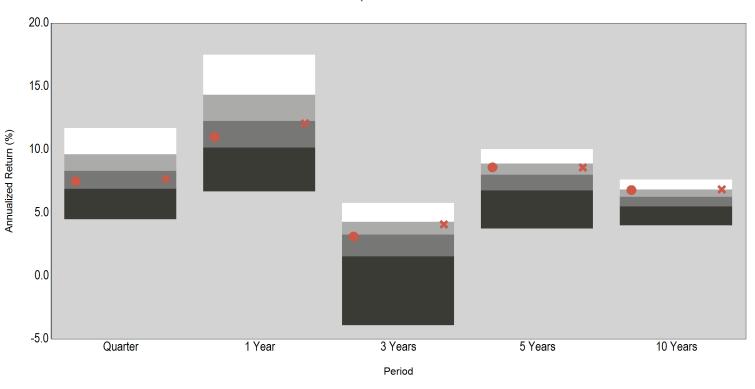
5th Percentile
25th Percentile
Median
75th Percentile
95th Percentile
# of Portfolios
Total Fund Compos

Allocation (Rai	nk)										
70.2	•	30.3		59.8		25.4		87.9		13.8	
62.1		15.3		48.0		16.8		46.2		7.1	
52.6		9.4		34.7		12.9		29.6		4.9	
38.6		4.8		21.4		9.1		21.5		3.3	
11.9		1.6		6.4		4.0		13.2		1.0	
1,326		313		1,236		1,149		1,374		303	
56.0	(43)	4.8	(75)	33.4	(53)	17.8	(23)	26.8	(58)	16.1	(4)

posite

As of December 31, 2023

#### InvMetrics All DB Net Return Comparison

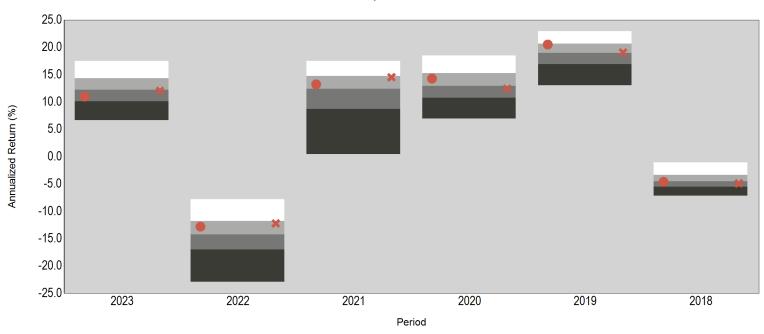


	Return (Rank)									
5th Percentile	11.7		17.5		5.8		10.0		7.6	
25th Percentile	9.6		14.3		4.3		8.9		6.8	
Median	8.3		12.2		3.2		8.0		6.2	
75th Percentile	6.9		10.1		1.5		6.7		5.5	
95th Percentile	4.5		6.7		-3.9		3.7		4.0	
# of Portfolios	1,467		1,452		1,399		1,362		1,142	
<ul><li>Total Fund Composite</li><li>Policy Index</li></ul>	7.5 7.7	(67) (63)	11.0 12.1	(66) (53)	3.1 4.1	(54) (31)	8.6 8.6	(35) (36)	6.8 6.8	(27) (25)



As of December 31, 2023

#### InvMetrics All DB Net Return Comparison



5th Percentile
25th Percentile
Median
75th Percentile
95th Percentile
# of Portfolios
<ul><li>Total Fund Composite</li><li>Policy Index</li></ul>

Return (Rank	<b>(</b> )										
17.5		-7.8		17.5		18.5		23.0		-1.1	
14.3		-11.8		14.7		15.3		20.7		-3.3	
12.2		-14.2		12.4		12.9		18.9		-4.5	
10.1		-17.0		8.7		10.8		16.9		-5.5	
6.7		-22.9		0.5		7.0		13.0		-7.2	
1,452		1,531		1,646		1,745		1,580		1,647	
11.0	(66)	-12.8	(35)	13.2	(42)	14.3	(36)	20.5	(27)	-4.6	(53)
12.1	(53)	-12.2	(30)	14.5	(27)	12.4	(56)	19.0	(49)	-4.9	(60)

#### Risk & Statistics Summary

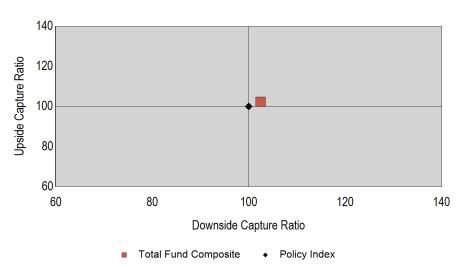
As of December 31, 2023

#### **RISK RETURN STATISTICS**

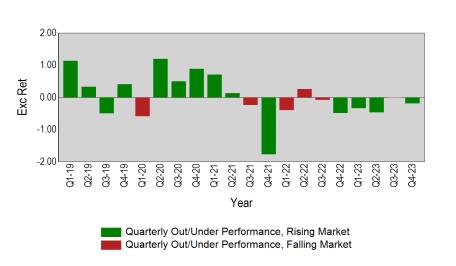
January 01, 2019 Through December 31, 2023

·	Total Fund Composite	Policy Index
RETURN SUMMARY STATISTICS		
Number of Periods	20	20
Maximum Return	13.40	12.26
Minimum Return	-15.48	-14.88
Annualized Return	8.58	8.57
Total Return	50.94	50.84
Annualized Excess Return Over Risk Free	6.79	6.78
Annualized Excess Return	0.01	0.00
RISK SUMMARY STATISTICS		
Beta	1.04	1.00
Upside Deviation	7.23	6.83
Downside Deviation	10.94	10.81
RISK/RETURN SUMMARY STATISTICS	5	
Annualized Standard Deviation	14.30	13.69
Alpha	-0.07	0.00
Sharpe Ratio	0.47	0.49
Excess Return Over Market / Risk	0.00	0.00
Tracking Error	1.39	0.00
Information Ratio	0.01	
CORRELATION STATISTICS		
R-Squared	0.99	1.00
Correlation	1.00	1.00

## Upside Capture Ratio vs. Downside Capture Ratio 5 Years Ending December 31, 2023



## Quarterly Excess Performance Total Fund Composite vs. Policy Index



## Performance Summary (Net)

	3 Мо	1 Yr	3 Yrs	5 Yrs	10 Yrs	Market Value	Inception	Inception Date
Total Fund Composite	7.5	11.0	3.1	8.6	6.8	3,295,325,179	8.4	Jan-86
Policy Index	7.7	12.1	4.1	8.6	6.8		8.9	Jan-86
InvMetrics All DB Net Rank	67	66	54	35	27		31	Jan-86
Total Equity Composite	10.8	19.0	4.9			1,846,808,171	10.3	Oct-20
MSCI ACWI IMI Net USD	11.1	21.6	5.5				9.8	Oct-20
U.S. Equity Composite	12.1	23.2	7.4	14.5	10.6	1,102,137,123	9.0	Jan-06
Russell 3000	12.1	26.0	8.5	15.2	11.5		9.7	Jan-06
InvMetrics Public DB US Eq Net Rank	32	58	79	47	45		44	Jan-06
MFS Large Cap Value	9.5	8.3				138,444,589	11.3	Jun-22
Russell 1000 Value	9.5	11.5					11.8	Jun-22
eV US Large Cap Value Equity Net Rank	60	78					63	Jun-22
Xponance S&P 500	11.7	26.2				295,326,973	1.7	Dec-21
S&P 500	11.7	26.3					1.7	Dec-21
eV US Large Cap Core Equity Net Rank	45	24					40	Dec-21
Northern Trust S&P 500	11.7	26.3				290,802,803	1.7	Dec-21
S&P 500	11.7	26.3					1.7	Dec-21
eV US Large Cap Core Equity Net Rank	45	24					40	Dec-21
Polen Focus Growth	14.1	37.5	2.4	14.9	14.2	116,682,242	14.8	Oct-10
Russell 1000 Growth	14.2	42.7	8.9	19.5	14.9		15.9	Oct-10
eV US Large Cap Growth Equity Net Rank	41	53	83	76	16		26	Oct-10
Northern Trust Dow Jones Completion Index	15.1	25.1				112,692,575	-4.0	Dec-21
Dow Jones U.S. Completion Total Stock Market	14.9	25.0					-4.2	Dec-21
eV US Small-Mid Cap Core Equity Net Rank	5	12					80	Dec-21
Copeland SMID Cap Dividend Growth	10.6	19.4	9.5	12.7		55,774,449	9.9	Sep-17
Russell 2500	13.4	17.4	2.4	10.1			6.5	Sep-17
Russell 2000	14.0	16.9	2.2	10.0			6.5	Sep-17
eV US Small Cap Core Equity Net Rank	81	28	25	36			19	Sep-17
Smith, Graham & Co Small Cap Value	12.9	13.3	4.2	11.3		48,322,053	6.1	Dec-16
Russell 2000 Value	15.3	14.6	7.9	10.0			6.6	Dec-16
Russell 2000	14.0	16.9	2.2	10.0			7.7	Dec-16
eV US Small Cap Value Equity Net Rank	46	72	95	56			81	Dec-16
Emerald Small Cap Growth	14.7	18.9	-2.3	11.1	8.9	44,091,440	10.2	Oct-98
Russell 2000 Growth	12.7	18.7	-3.5	9.2	7.2		7.6	Oct-98
eV US Small Cap Growth Equity Net Rank	8	34	49	55	43		57	Oct-98



## Performance Summary (Net)

	3 Mo	1 Yr	3 Yrs	5 Yrs	10 Yrs	Market Value	Inception	Inception Date
Global Equity Composite	6.4	7.4		-		158,976,609	-3.3	Dec-21
Global Equity Policy Index	6.5	7.7					-3.5	Dec-21
InvMetrics Public DB Glbl Eq Net Rank	98	99					94	Dec-21
Rhumbline Global Min. Volatility	6.4	7.4	-			158,976,609	-1.7	Dec-21
MSCI ACWI Minimum Volatility Index	6.5	7.7					-1.7	Dec-21
MSCI ACWI	11.0	22.2					-0.1	Dec-21
eV Global Low Volatility Equity Net Rank	74	73					74	Dec-21
Non-U.S Equity Composite	9.7	14.9	0.4	8.0	4.7	585,694,439	6.9	May-12
MSCI ACWI ex USA IMI	9.8	15.6	1.5	7.2	4.0		6.4	May-12
InvMetrics Public DB ex-US Eq Net Rank	54	72	59	31	18		25	May-12
SSGA MSCI World ex US	10.5	18.3	4.7	8.8	4.7	276,793,164	6.2	Apr-12
MSCI World ex USA	10.5	17.9	4.4	8.5	4.3		5.8	Apr-12
eV ACWI ex-US Core Equity Net Rank	39	31	16	35	47		39	Apr-12
Hardman Johnston Int'l Equity	5.2	5.7	-6.5	8.2	5.6	100,146,959	7.1	Apr-12
MSCI EAFE	10.4	18.2	4.0	8.2	4.3		6.0	Apr-12
MSCI ACWI ex USA Growth	11.1	14.0	-2.7	7.5	4.5		5.5	Apr-12
eV EAFE All Cap Equity Net Rank	99	99	96	40	16		22	Apr-12
Hudson Edge Int'l Equity	12.8	18.1	5.5	10.8	5.9	135,095,364	8.8	Feb-12
MSCI EAFE	10.4	18.2	4.0	8.2	4.3		6.3	Feb-12
MSCI ACWI ex USA Value	8.4	17.3	5.8	6.3	2.9		4.4	Feb-12
eV EAFE All Cap Equity Net Rank	10	46	25	11	13		9	Feb-12
SSGA MSCI Emerging Markets Index	7.8	9.6	-5.2	3.6	2.5	73,521,410	6.3	Nov-08
MSCI Emerging Markets	7.9	9.8	-5.1	3.7	2.7		6.5	Nov-08
eV Emg Mkts Equity Net Rank	54	64	61	80	78		76	Nov-08



### Performance Summary (Net)

	3 Мо	1 Yr	3 Yrs	5 Yrs	10 Yrs	Market Value	Inception	Inception Date
Real Assets Composite	-0.8	-4.9	4.3	3.7	5.9	529,523,747	7.2	Apr-93
Real Assets Policy Index	-1.9	-5.7	7.5	5.4	7.4		7.4	Apr-93
Forest Investment Associates	3.6	7.5	9.8	4.9	5.7	149,753,387	4.4	Mar-99
NCREIF Timberland Property Index	4.3	9.5	10.5	6.6	5.8		6.4	<i>Mar-</i> 99
PRISA LP	-4.8	-11.5	4.0	3.8	6.7	58,004,940	6.0	Jan-86
NFI-ODCE	-5.0	-12.7	4.0	3.3	6.3		5.9	Jan-86
InvMetrics Public DB Real Estate Priv Net Rank	62	38	55	41	37			Jan-86
PRISA II	-5.4	-13.3	3.8	3.5	7.1	116,302,288	3.6	Jul-07
NFI-ODCE	-5.0	-12.7	4.0	3.3	6.3		4.3	Jul-07
InvMetrics Public DB Real Estate Priv Net Rank	77	42	58	61	35		56	Jul-07
PennMuni-Nuveen U.S. Real Estate Fund	0.0	-5.9	1.3	3.4	6.1	203,999,647	5.2	Dec-08
NFI-ODCE	-5.0	-12.7	4.0	3.3	6.3		5.1	Dec-08
InvMetrics Public DB Real Estate Priv Net Rank	5	18	91	64	67		55	Dec-08
N. Front Street (Nuveen)	0.0	4.4	-7.8	-4.8		1,463,485	-7.2	Sep-16
Consumer Price Index	-0.3	3.4	5.6	4.1			3.4	Sep-16
Total Fixed Income Composite	6.4	7.0	-3.1	1.3	1.9	882,030,680	5.6	Jan-86
Bloomberg US Aggregate TR	6.8	5.5	-3.3	1.1	1.8		5.6	Jan-86
InvMetrics Public DB US Fix Inc Net Rank	50	23	80	84	56			Jan-86
SSGA US Aggregate Bond Index	6.7	5.7	-3.3	1.1	1.8	351,553,392	4.3	Apr-97
Bloomberg US Aggregate TR	6.8	5.5	-3.3	1.1	1.8		4.3	Apr-97
eV US Core Fixed Inc Net Rank	57	65	70	85	77		78	Apr-97
Federated Hermes Core Aggregate Strategy	7.0	5.2				354,525,824	1.4	Jul-22
Bloomberg US Aggregate TR	6.8	5.5					1.6	Jul-22
eV US Core Fixed Inc Net Rank	28	83					83	Jul-22
Ares Global Multi-Asset Credit	4.7	13.7				175,951,464	13.7	Dec-22
50% Bloomberg HY / 50% CSFB Lev Loans	5.0	13.3					13.3	Dec-22
eV US High Yield Fixed Inc Net Rank	84	14					14	Dec-22
Cash Composite						36,962,582		

<sup>\*</sup>NCREIF Timberland Property Index return not available at time of reporting.



<sup>\*</sup>PennMuni-Nuveen RE and N. Front St. Values as of 9/30/2023, adjusted for cash flows where relevant.

#### **Investment Manager Status**

As of December 31, 2023

Investment Manager	Asset Class	Status	Reason
MFS Large Cap Value	US Stock Large Cap Value	In Compliance	
Xponance S&P 500	US Stock Large Cap Core	In Compliance	
Northern Trust S&P 500	US Stock Large Cap Core	In Compliance	
Polen Focus Growth	US Stock Large Cap Growth	In Compliance	
Northern Trust Dow Jones Completion Index	US Stock SMID Cap Core	In Compliance	
Smith, Graham & Co Small Cap Value	US Stock Small Cap Value	Alert	Organizational Issues
Copeland Small Cap Dividend Growth	US Stock Small Cap Core	In Compliance	
Emerald Small Cap Growth	US Stock Small Cap Growth	In Compliance	
Rhumbline Global Min. Volatility	Global Stock Low Volatility	In Compliance	
SSGA MSCI World ex US	Non-US Stock All Cap Core	In Compliance	
Hardman Johnston Int'l Equity	Non-US Stock All Cap Core	In Compliance	
HGK Int'l Equity	Non-US Stock All Cap Core	In Compliance	
SSGA MSCI Emerging Markets Index	Non-US Stock Emerging	In Compliance	
Forest Investment Associates	Real Assets - Timberland	In Compliance	
PRISA LP	Real Estate	In Compliance	
PRISA II	Real Estate	In Compliance	
PennMuni-Nuveen U.S. Real Estate Fund	Real Estate	In Compliance	
N. Front Street (Nuveen)	Real Estate	In Compliance	
SSGA US Aggregate Bond Index	US Fixed Income Core	In Compliance	
Federated Hermes Core Aggregate Strategy	US Fixed Income Core	In Compliance	
Ares Global Multi-Asset Credit Fund	Opportunistic Credit	In Compliance	

#### **Investment Manager Evaluation Terminology**

The following terminology has been developed by Marquette Associates to facilitate efficient communication between the investment program's responsible parties.

Each term signifies a particular status with the investment program.

**In Compliance** – Marquette has not been notified of any issues or changes to the investment manager that would materially impede upon its ability to execute the investment strategy or adhere to any applicable investment guidelines.

Alert – The investment manager has experienced a problem in performance (usually relative to a benchmark), a change in investment characteristics, an alteration in management style, ownership, or key investment professionals, and/or any other irregularities that may impede upon its ability to execute the investment strategy or adhere to any applicable investment guidelines.

**On Notice** – The investment manager has experienced continued concern with one or more Alert issues. Failure to improve upon stated issues within a certain time frame may justify termination.

**Termination** – The investment manager has been terminated and transition plans are in place.



## Policy Index History

As of December 31, 2023

### **Policy Index History**

Total Fund Compo	osite	
12/1/2022	Present	32.5% Russell 3000 / 5% Global Equity Policy Index / 17.5% MSCI ACWI ex USA IMI / 15% Real Assets Policy Index / 29% Bloomberg US Aggregate TR / 1% 91 Day T-Bills
1/1/2022	11/30/2022	32.5% Russell 3000 / 10% Global Equity Policy Index / 17.5% MSCI ACWI ex USA IMI / 15% Real Assets Policy Index / 24% Bloomberg US Aggregate TR / 1% 91 Day T-Bills
10/1/2020	12/31/2021	25% S&P 500 / 15% Russell 2000 / 15% MSCI EAFE / 10% MSCI Emerging Markets / 20% NFI-ODCE / 15% Bloomberg US Aggregate TR
Total Equity Co	mposite	
10/1/2020	Present	MSCI ACWI IMI Net USD
U.S. Equity C	omposite	
1/1/2006	Present	Russell 3000
Large Cap	U.S. Equity Con	nposite
1/1/1986	Present	S&P 500
SMID Cap	U.S. Equity Con	nposite
1/1/1993	Present	Russell 2000
Global Equity	Composite	
12/1/2022	Present	100% MSCI ACWI Minimum Volatility Index
1/1/2022	11/30/2022	50% MSCI ACWI / 50% MSCI ACWI Minimum Volatility Index
Non-U.S Equ	ity Composite	
5/31/2012	Present	MSCI ACWI ex USA IMI
Developed	Non-U.S. Equity	y Composite
1/1/1993	Present	MSCI EAFE
Emerging I	Markets Compos	site
1/1/2009	Present	MSCI Emerging Markets
Real Assets Co	mposite	
1/1/2024	Present	0.00
1/1/2022	12/31/2023	66.67% NFI-ODCE / 33.33% NCREIF Timberland Property Index
4/1/1993	12/31/2021	100% NFI-ODCE
Total Fixed Inco	me Composite	
1/31/1986	Present	Bloomberg US Aggregate TR
Cash Composite	е	
	Present	91 Day T-Bills

### Fee Summary

Account	Fee Schedule	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
MFS Large Cap Value	0.35% of First 100.0 Mil, 0.33% Thereafter	4.2%	\$474,945	0.34%
Xponance S&P 500	0.02% of Assets	9.1%	\$59,065	0.02%
Northern Trust S&P 500	0.00% of Assets	8.9%	\$11,632	0.00%
Polen Focus Growth	0.50% of First 100.0 Mil, 0.40% Thereafter	3.6%	\$566,729	0.49%
Northern Trust Dow Jones Completion Index	0.02% of Assets	3.5%	\$16,904	0.02%
Copeland SMID Cap Dividend Growth	0.50% of Assets	1.7%	\$278,872	0.50%
Smith, Graham & Co Small Cap Value	0.75% of First 50.0 Mil, 0.60% Thereafter	1.5%	\$362,415	0.75%
Emerald Small Cap Growth	0.60% of First 10.0 Mil, 0.55% of Next 5.0 Mil, 0.50% Thereafter	1.4%	\$232,957	0.53%
Rhumbline Global Min. Volatility	0.07% of Assets	4.9%	\$103,335	0.06%
SSGA MSCI World ex US	0.04% of Assets	8.5%	\$110,717	0.04%
Hardman Johnston Int'l Equity	0.75% of First 25.0 Mil, 0.60% Thereafter	3.1%	\$638,382	0.64%
Hudson Edge Int'l Equity	0.65% of Assets	4.1%	\$878,120	0.65%
SSGA MSCI Emerging Markets Index	0.05% of Assets	2.3%	\$36,761	0.05%
Forest Investment Associates	0.75% of Assets	4.6%	\$1,123,150	0.75%
PRISA LP	1.00% of First 25.0 Mil, 0.95% of Next 25.0 Mil, 0.85% of Next 50.0 Mil, 0.75% of Next 100.0 Mil, 0.70% of Next 100.0 Mil, 0.65% Thereafter	1.8%	\$555,542	0.96%

# Fee Summary

Account	Fee Schedule	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
PRISA II	1.20% of First 25.0 Mil, 1.15% of Next 25.0 Mil, 1.05% of Next 50.0 Mil, 0.95% of Next 100.0 Mil, 0.90% of Next 100.0 Mil, 0.85% Thereafter	3.6%	\$1,267,372	1.09%
PennMuni-Nuveen U.S. Real Estate Fund	0.85% of Assets	6.3%	\$1,733,997	0.85%
N. Front Street (Nuveen)	0.85% of Assets	0.0%	\$12,440	0.85%
SSGA US Aggregate Bond Index	0.02% of First 100.0 Mil, 0.01% of Next 300.0 Mil, 0.01% Thereafter	10.8%	\$45,155	0.01%
Federated Hermes Core Aggregate Strategy	0.12% of First 100.0 Mil, 0.10% of Next 400.0 Mil, 0.07% Thereafter	10.9%	\$374,526	0.11%
Ares Global Multi-Asset Credit	0.35% of Assets	5.4%	\$615,830	0.35%
Investment Management Fee		100.0%	\$9,498,847	0.29%

#### **Total Equity Composite**

As of December 31, 2023

#### **Characteristics**

	Portfolio	MSCI ACWI IMI Net USD
Number of Holdings	6,255	9,034
Weighted Avg. Market Cap. (\$B)	319.6	421.9
Median Market Cap. (\$B)	5.7	2.1
Price To Earnings	19.4	19.0
Price To Book	3.0	3.3
Price To Sales	1.6	1.7
Return on Equity (%)	17.5	18.7
Yield (%)	1.9	2.1

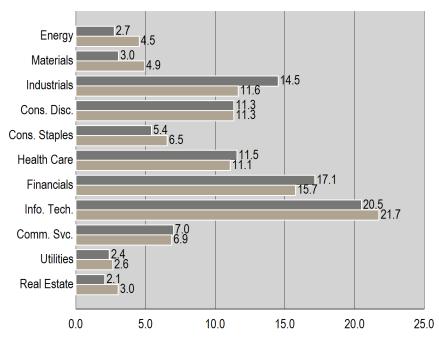
#### **Top Holdings**

MICROSOFT CORP	2.9%
APPLE INC	2.3%
AMAZON.COM INC	1.6%
DAIFUKU CO LTD	1.3%
DAI-ICHI LIFE HOLDINGS INC	1.2%
ISHARES MSCI EMERGING MARKETS MIN VOL FACTOR ETF	1.1%
SUZUKI MOTOR CORP	1.0%
T&D HOLDINGS INC	1.0%
NVIDIA CORPORATION	1.0%
ALPHABET INC	0.9%
Total	14.3%

#### **Market Capitalization**

market Suprameation								
	Small Cap	Mid Cap	Large Cap	Unclassified				
Total Equity Composite	16.0%	18.6%	61.9%	3.5%				
MSCI ACWI IMI Net USD	15.6%	15.4%	69.0%	0.0%				
Weight Over/Under	0.4%	3.2%	-7.1%	3.5%				

#### Sector Allocation (%) vs MSCI ACWI IMI Net USD



#### **Region Allocation Summary**

Region	% of Total	% of Bench	% Diff
North America ex U.S.	0.5%	2.9%	-2.4%
United States	63.3%	61.5%	1.8%
Europe Ex U.K.	6.7%	12.1%	-5.4%
United Kingdom	1.8%	3.7%	-1.9%
Pacific Basin Ex Japan	1.3%	2.9%	-1.6%
Japan	20.3%	6.0%	14.4%
Emerging Markets	5.8%	10.7%	-4.9%
Other	0.3%	0.3%	-0.1%
Total	100.0%	100.0%	0.0%

#### U.S. Equity Composite

As of December 31, 2023

#### **Characteristics**

	Portfolio	Russell 3000
Number of Holdings	3,736	2,967
Weighted Avg. Market Cap. (\$B)	484.6	631.9
Median Market Cap. (\$B)	2.5	2.7
Price To Earnings	22.9	23.5
Price To Book	3.9	4.1
Price To Sales	2.1	2.5
Return on Equity (%)	20.7	22.2
Yield (%)	1.5	1.5

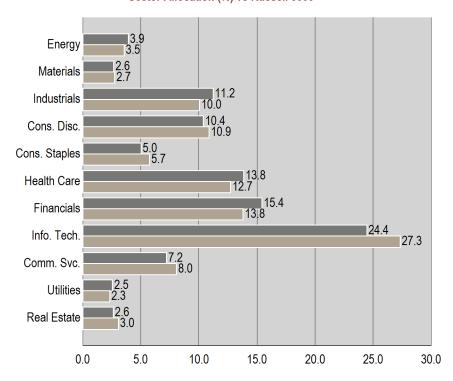
#### **Top Holdings**

9°	
MICROSOFT CORP	4.8%
APPLE INC	3.8%
AMAZON.COM INC	2.6%
NVIDIA CORPORATION	1.6%
ALPHABET INC	1.5%
ALPHABET INC	1.3%
JPMORGAN CHASE & CO	1.2%
VISA INC	1.1%
ADOBE INC	1.1%
META PLATFORMS INC	1.0%
Total	20.0%

#### **Market Capitalization**

	Small Cap	Mid Cap	Large Cap	Unclassified
U.S. Equity Composite	8.4%	21.7%	66.4%	3.5%
Russell 3000	5.8%	20.4%	73.8%	0.0%
Weight Over/Under	2.5%	1.3%	-7.3%	3.5%

#### Sector Allocation (%) vs Russell 3000





As of December 31, 2023

#### **Common Holdings Matrix**

	MEG	", s Large Cap Value	22	Yonance S&P 500	Moses	Junem Trust S&P 500	Pol	Jen Focus Growth	Moses	Trust Dow Jones	Co. Co.	Speland SMID Cap Divise	Smin	""In, Graham & Co Sma".	Emc.	"elaid Small Cap Growth
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
MFS Large Cap Value		-	66	17	66	17	2	8	1	1	0	0	0	0	0	0
Xponance S&P 500	66	94			502	100	22	94	5	0	10	14	0	0	0	0
Northern Trust S&P 500	66	94	502	100			22	94	9	0	10	14	1	1	0	0
Polen Focus Growth	2	3	22	23	22	23			1	1	0	0	0	0	0	0
Northern Trust Dow Jones Completion Index	1	1	5	1	9	1	1	3			55	80	66	98	111	95
Copeland SMID Cap Dividend Growth	0	0	10	0	10	0	0	0	55	5			1	2	6	5
Smith, Graham & Co Small Cap Value	0	0	0	0	1	0	0	0	66	3	1	2			2	1
Emerald Small Cap Growth	0	0	0	0	0	0	0	0	111	5	6	9	2	2		

#### **Global Equity Composite**

As of December 31, 2023

#### **Characteristics**

	Portfolio	MSCI ACWI IMI Net USD
Number of Holdings	282	9,034
Weighted Avg. Market Cap. (\$B)	103.7	421.9
Median Market Cap. (\$B)	20.8	2.1
Price To Earnings	17.7	19.0
Price To Book	3.2	3.3
Price To Sales	1.3	1.7
Return on Equity (%)	19.6	18.7
Yield (%)	2.6	2.1

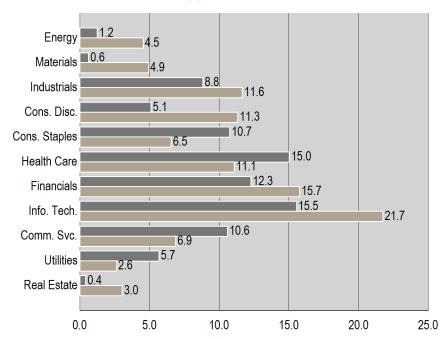
#### **Top Holdings**

i op Holdings	
ISHARES MSCI EMERGING MARKETS MIN VOL FACTOR ETF	12.4%
CISCO SYSTEMS INC	1.6%
ROPER TECHNOLOGIES INC	1.5%
MERCK & CO INC	1.4%
WASTE MANAGEMENT INC.	1.4%
MOTOROLA SOLUTIONS INC	1.4%
T-MOBILE US INC	1.3%
WALMART INC	1.3%
PEPSICO INC	1.2%
JOHNSON & JOHNSON	1.2%
Total	24.6%

#### **Market Capitalization**

	Small Cap	Mid Cap	Large Cap	Unclassified
Global Equity Composite	17.5%	24.2%	57.5%	0.8%
MSCI ACWI IMI Net USD	15.6%	15.4%	69.0%	0.0%
Weight Over/Under	1.9%	8.8%	-11.5%	0.8%

#### Sector Allocation (%) vs MSCI ACWI IMI Net USD



#### **Region Allocation Summary**

Dagion	% of	% of	
Region	Total	Bench	% Diff
North America ex U.S.	1.2%	2.9%	-1.7%
United States	68.8%	61.5%	7.4%
Europe Ex U.K.	6.1%	12.1%	-5.9%
United Kingdom	0.3%	3.7%	-3.4%
Pacific Basin Ex Japan	3.5%	2.9%	0.6%
Japan	10.6%	6.0%	4.6%
Emerging Markets	8.4%	10.7%	-2.3%
Other	1.0%	0.3%	0.7%
Total	100.0%	100.0%	0.0%

#### Non-U.S Equity Composite

As of December 31, 2023

#### **Characteristics**

	Portfolio	MSCI ACWI ex USA IMI
Number of Holdings	2,510	6,637
Weighted Avg. Market Cap. (\$B)	64.1	80.9
Median Market Cap. (\$B)	9.4	1.8
Price To Earnings	15.1	14.2
Price To Book	2.0	2.4
Price To Sales	1.1	1.1
Return on Equity (%)	11.7	14.1
Yield (%)	2.4	3.1

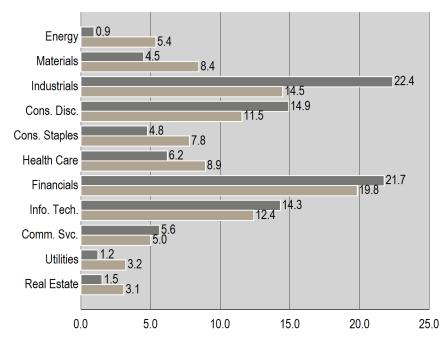
#### Top Holdings

l op Holdings	
DAIFUKU CO LTD	4.2%
DAI-ICHI LIFE HOLDINGS INC	3.9%
SUZUKI MOTOR CORP	3.3%
T&D HOLDINGS INC	3.3%
TOYOTA MOTOR CORP	2.4%
SAMSUNG ELECTRONICS CO LTD	2.3%
SONY GROUP CORPORATION	2.2%
PT BANK CENTRAL ASIA TBK	1.9%
TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	1.7%
PT BANK RAKYAT INDONESIA TBK	1.5%
Total	26.8%

#### **Market Capitalization**

	Small Cap	Mid Cap	Large Cap	Unclassified
Non-U.S Equity Composite	15.7%	34.4%	45.6%	4.3%
MSCI ACWI ex USA IMI	25.2%	22.4%	52.3%	0.0%
Weight Over/Under	-9.5%	11.9%	-6.7%	4.3%

#### Sector Allocation (%) vs MSCI ACWI ex USA IMI



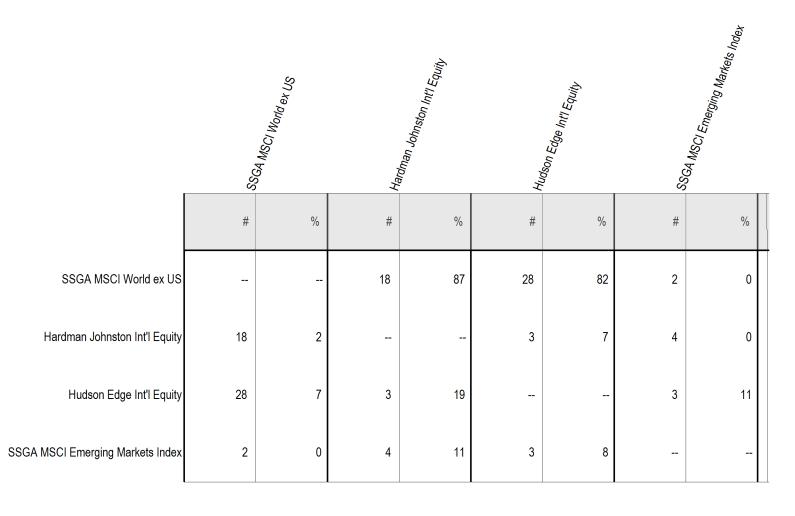
#### **Region Allocation Summary**

% of Total	% of Bench	% Diff
0.9%	7.5%	-6.6%
1.3%	0.0%	1.3%
13.4%	31.3%	-17.9%
3.4%	9.5%	-6.1%
2.8%	7.5%	-4.7%
61.9%	15.5%	46.5%
16.2%	27.8%	-11.6%
0.1%	0.9%	-0.8%
100.0%	100.0%	0.0%
	Total 0.9% 1.3% 13.4% 3.4% 2.8% 61.9% 16.2% 0.1%	Total         Bench           0.9%         7.5%           1.3%         0.0%           13.4%         31.3%           3.4%         9.5%           2.8%         7.5%           61.9%         15.5%           16.2%         27.8%           0.1%         0.9%

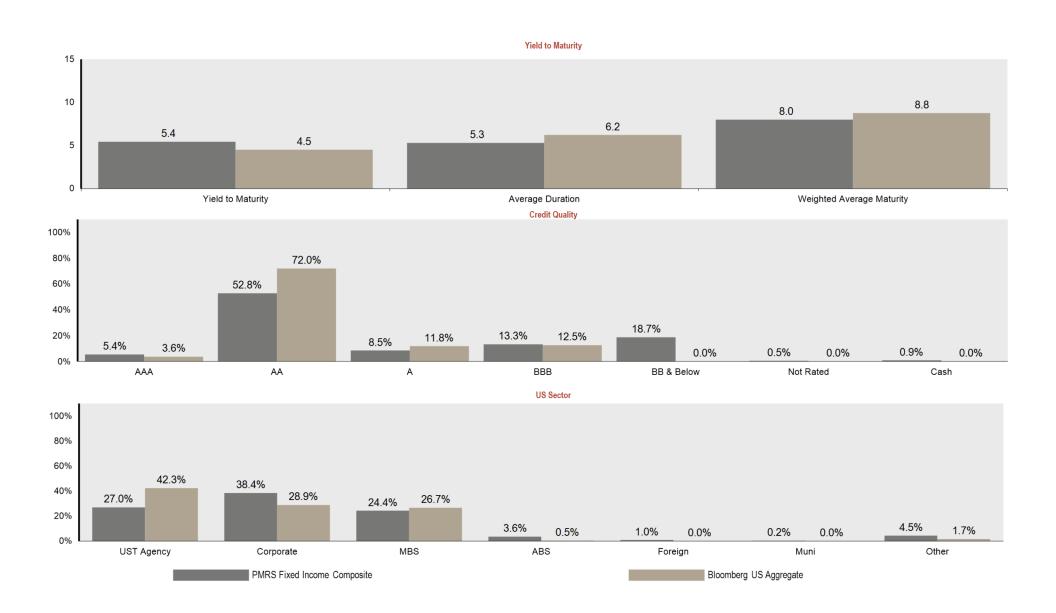


As of December 31, 2023

#### **Common Holdings Matrix**



#### Fixed Income Composite



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# **Investment Managers**



#### MFS Large Cap Value

As of December 31, 2023

**Manager Summary**: Active strategy holding diversified portfolio of 70-80 stocks. Stock selection focuses on bottom-up company analysis seeking to identify high quality undervalued stocks that have durable franchises, significant free cash flow, solid balance sheets and strong management teams.

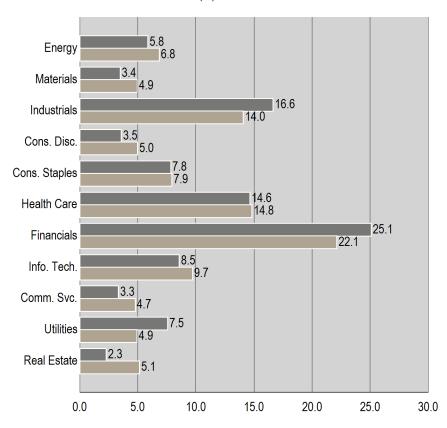
#### **Characteristics**

	Portfolio	Russell 1000 Value
Number of Holdings	73	845
Weighted Avg. Market Cap. (\$B)	130.7	142.0
Median Market Cap. (\$B)	79.4	13.6
Price To Earnings	19.5	17.3
Price To Book	3.0	2.4
Price To Sales	2.1	1.8
Return on Equity (%)	21.7	15.1
Yield (%)	2.4	2.3
Top Holdings		
JPMORGAN CHASE & CO		4.5%
THE CIGNA GROUP		2.9%
PROGRESSIVE CORP (THE)		2.9%
CONOCOPHILLIPS		2.8%
COMCAST CORP		2.6%
MARSH & MCLENNAN COMPANIES INC		2.4%
MCKESSON CORP		2.3%
JOHNSON & JOHNSON		2.3%
NORTHROP GRUMMAN CORP		2.3%
UNION PACIFIC CORP		2.2%
Total		27.0%

#### **Market Capitalization**

	Small Cap	Mid Cap	Large Cap
MFS Large Cap Value	0.0%	10.2%	89.8%
Russell 1000 Value	2.8%	31.8%	65.4%
Weight Over/Under	-2.8%	-21.6%	24.4%

#### Sector Allocation (%) vs Russell 1000 Value



As of December 31, 2023

**Manager Summary**: Passive strategy that seeks to replicate the return of the Standard & Poor's 500 index. This strategy is a low-cost option to gain diversified exposure to U.S. domiciled companies by owning the 500 largest companies by market capitalization in the U.S.

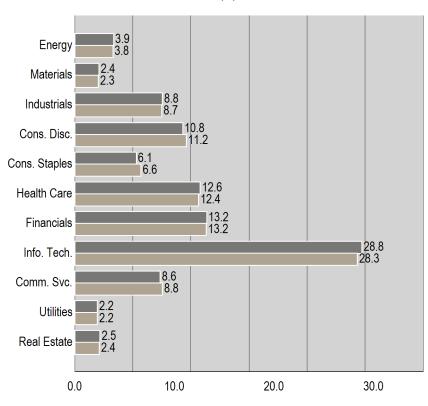
#### **Characteristics** Portfolio S&P 500 Number of Holdings 505 503 Weighted Avg. Market Cap. (\$B) 716.4 718.0 Median Market Cap. (\$B) 33.2 33.1 Price To Earnings 24.3 24.3 Price To Book 4.4 4.4 Price To Sales 2.9 2.9 Return on Equity (%) 28.3 28.4 Yield (%) 1.5 1.5

#### **Top Holdings** APPLE INC 7.0% MICROSOFT CORP 7.0% AMAZON.COM INC 3.4% **NVIDIA CORPORATION** 3.0% ALPHABET INC 2.1% META PLATFORMS INC 2.0% ALPHABET INC 1.7% **TESLA INC** 1.7% BERKSHIRE HATHAWAY INC 1.6% 1.2% JPMORGAN CHASE & CO Total 30.8%

#### **Market Capitalization**

	Small Cap	Mid Cap	Large Cap
Xponance S&P 500	0.0%	14.4%	85.6%
S&P 500	0.5%	14.2%	85.4%
Weight Over/Under	-0.5%	0.2%	0.3%

#### Sector Allocation (%) vs S&P 500



As of December 31, 2023

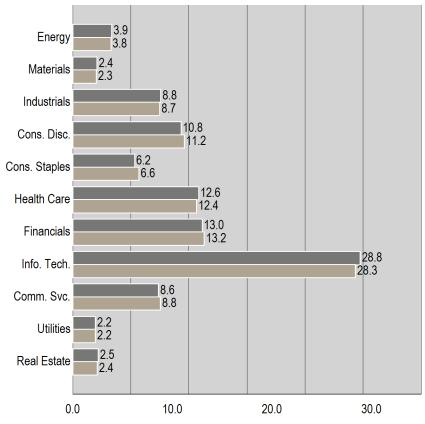
**Manager Summary**: Passive strategy that seeks to replicate the return of the Standard & Poor's 500 index. This strategy is a low-cost option to gain diversified exposure to U.S. domiciled companies by owning the 500 largest companies by market capitalization in the U.S.

#### **Characteristics** S&P 500 Portfolio Number of Holdings 505 503 Weighted Avg. Market Cap. (\$B) 716.8 718.0 33.0 Median Market Cap. (\$B) 33.1 Price To Earnings 24.3 24.3 4.4 4.4 Price To Book Price To Sales 2.9 2.9 28.5 Return on Equity (%) 28.4 Yield (%) 1.5 1.5

#### **Top Holdings** APPLE INC 7.0% MICROSOFT CORP 7.0% AMAZON.COM INC 3.4% **NVIDIA CORPORATION** 3.1% ALPHABET INC 2.1% 2.0% META PLATFORMS INC ALPHABET INC 1.8% TESLA INC 1.7% BERKSHIRE HATHAWAY INC 1.6% 1.2% JPMORGAN CHASE & CO 30.8% Total

Market Cap	oitalization		
	Small Cap	Mid Cap	Large Cap
Northern Trust S&P 500	0.0%	14.5%	85.5%
S&P 500	0.5%	14.2%	85.4%
Weight Over/Under	-0.5%	0.3%	0.2%

# Sector Allocation (%) vs S&P 500



#### Polen Focus Growth

As of December 31, 2023

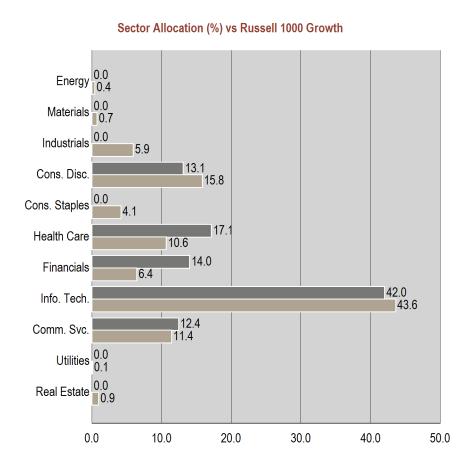
**Manager Summary**: Concentrated U.S. large cap growth portfolio with 20-30 names. Investment process begins with negative screening, only including names with robust financials, strong management and attractive earnings growth potential. Then team of generalists perform bottom-up fundamental analysis reviewing industry dynamics, competitive advantage, free cash flow modeling, meet with mgmt. and perform worst case scenarios. High active share. Position limit: 50% limit on sector exposure. Low portfolio turnover (30%).

#### **Characteristics** Russell 1000 Portfolio Growth Number of Holdings 25 441 Weighted Avg. Market Cap. (\$B) 705.8 1.105.8 220.0 Median Market Cap. (\$B) 19.6 Price To Earnings 41.3 34.7 Price To Book 9.5 11.4 Price To Sales 6.4 4.8 Return on Equity (%) 37.9 46.3 Yield (%) 8.0 0.5 **Top Holdings** MICROSOFT CORP 10.2% 7.4% SERVICENOW INC AMAZON.COM INC 7.2% 6.7% ADOBE INC SALESFORCE INC 5.6% **NETFLIX INC** 5.6% MASTERCARD INC 5.4% **VISA INC** 5.1% ALPHABET INC 5.1% 4.3% ACCENTURE PLC Total 62.4% **Market Capitalization** Small Mid Large Cap Cap Cap Polen Focus Growth 0.0% 3.6% 96.4% 9.9% Russell 1000 Growth 1.5% 88.7%

-1.5%

-6.2%

7.7%



Weight Over/Under

#### Northern Trust Dow Jones Completion Index

As of December 31, 2023

**Manager Summary**: The fund employs a replication technique in order to approximate the risk and return characteristics of the Dow Jones U.S. Completion Total Stock Market Index. This Index is commonly used to represent the small and mid cap segments of the U.S. equity market. The 'completion' index is a sub-set of the DJ US Total Stock Market Index that excludes components of the S&P500.

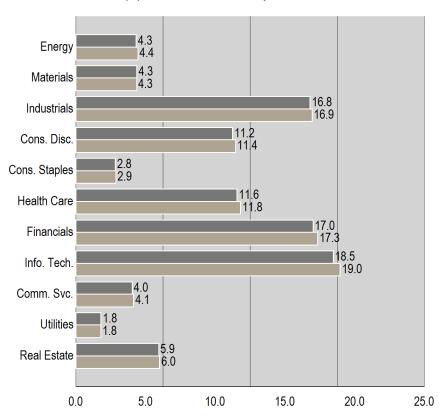
#### **Characteristics**

014140010000	D	ow Jones U.S.
	Portfolio	Completion Total Stock Market
Number of Holdings	3,216	3,583
Weighted Avg. Market Cap. (\$B)	11.0	11.0
Median Market Cap. (\$B)	0.8	0.7
Price To Earnings	17.7	17.7
Price To Book	2.8	2.8
Price To Sales	1.5	1.5
Return on Equity (%)	4.8	4.8
Yield (%)	1.4	1.4
Top Holdings		
SNOWFLAKE INC		1.0%
CROWDSTRIKE HOLDINGS INC		0.9%
WORKDAY INC		0.9%
KKR & CO INC		0.8%
MARVELL TECHNOLOGY INC		0.8%
BLOCK INC		0.7%
APOLLO GLOBAL MANAGEMENT INC		0.6%
CHENIERE ENERGY INC		0.6%
FERGUSON (OTC)		0.6%
ATLASSIAN CORP		0.6%
Total		7.5%

#### **Market Capitalization**

·	Small Cap	Mid Cap	Large Cap
Northern Trust Dow Jones Completion Index	29.4%	65.3%	5.3%
Dow Jones U.S. Completion Total Stock Market	38.1%	57.3%	4.7%
Weight Over/Under	-8.7%	8.0%	0.7%

#### Sector Allocation (%) vs Dow Jones U.S. Completion Total Stock Market



#### Smith, Graham & Co Small Cap Value

As of December 31, 2023

**Manager Summary**: Minority-owned investment management firm with fundamental bottom-up process. Stocks are first screened based on earnings, book value, and cash flow criteria with fundamental analysis performed on the top 20% within each respective sector. Sell candidates are companies that have dropped to the bottom 40% of their screen. The strategy holds 50-75 positions and is typically within plus/minus 5% of index sector weightings.

2.3%

2.3%

2.2%

2.2%

25.0%

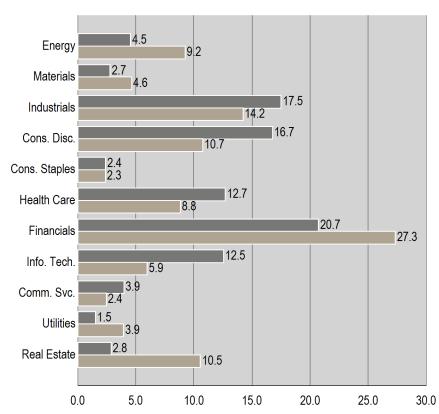
#### Characteristics

	Portfolio	Russell 2000 Value
Number of Holdings	69	1,428
Weighted Avg. Market Cap. (\$B)	3.1	2.7
Median Market Cap. (\$B)	1.6	0.9
Price To Earnings	13.0	12.4
Price To Book	1.8	1.6
Price To Sales	0.6	1.0
Return on Equity (%)	10.7	5.0
Yield (%)	1.5	2.3
Top Holdings		
KOPPERS HOLDINGS INC		2.8%
HIBBETT INC		2.8%
DYCOM INDUSTRIES INC.		2.7%
GRIFFON CORP.		2.7%
LITHIA MOTORS INC.		2.5%
GROUP 1 AUTOMOTIVE INC.		2.5%

#### **Market Capitalization**

•	Small Cap	Mid Cap	Large Cap
Smith, Graham & Co Small Cap Value	72.8%	27.2%	0.0%
Russell 2000 Value	79.1%	20.9%	0.0%
Weight Over/Under	-6.3%	6.3%	0.0%

#### Sector Allocation (%) vs Russell 2000 Value



SELECTIVE INSURANCE GROUP INC

M.D.C. HOLDINGS INC.

DECKERS OUTDOOR CORP

SCANSOURCE INC

Total

#### Copeland SMID Cap Dividend Growth

As of December 31, 2023

**Manager Summary**: A bottom-up fundamental manager who views dividend growth as a litmus test for earnings quality and focuses on attributes such as dividend coverage, cash flow strength, earnings growth, and return on capital. Fundamental research is focused on identifying companies with strong competitive positions that support steadily rising dividends. Strategy invests in larger, more established small cap firms while tending to underweight the lower market cap ranges. The strategy seeks sector diversification with 45-60 holdings.

#### Characteristics

	Portfolio	Russell 2500
Number of Holdings	69	2,460
Weighted Avg. Market Cap. (\$B)	8.0	7.1
Median Market Cap. (\$B)	6.5	1.6
Price To Earnings	20.5	17.0
Price To Book	3.5	2.6
Price To Sales	1.9	1.4
Return on Equity (%)	19.2	8.9
Yield (%)	1.8	1.6

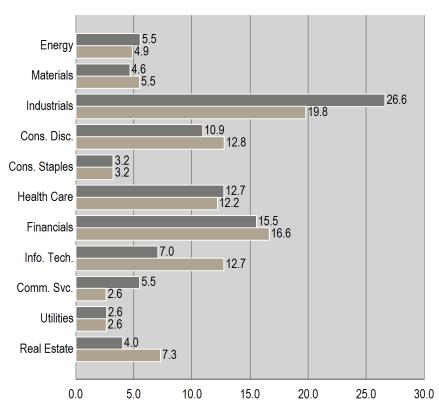
#### **Top Holdings**

HAMILTON LANE INC	2.2%
ENSIGN GROUP INC (THE)	2.2%
RELIANCE STEEL & ALUMINUM CO	2.0%
UNIVERSAL DISPLAY CORPORATION	1.9%
BOOZ ALLEN HAMILTON HOLDING CORPORATION	1.9%
BROADRIDGE FINANCIAL SOLUTIONS INC	1.9%
BANK OZK	1.9%
COHEN & STEERS INC	1.8%
BRUNSWICK CORP	1.8%
CASEY'S GENERAL STORES INC.	1.7%
Total	19.2%

#### **Market Capitalization**

·	Small Cap	Mid Cap	Large Cap
Copeland SMID Cap Dividend Growth	21.5%	78.5%	0.0%
Russell 2500	36.8%	63.2%	0.0%
Weight Over/Under	-15.3%	15.3%	0.0%

#### Sector Allocation (%) vs Russell 2500



#### **Emerald Small Cap Growth**

As of December 31, 2023

**Manager Summary**: Core growth strategy, fundamental, bottom-up process seeking companies with a competitive advantage, market leadership, growth rates exceeding peers, differentiated growth drivers, and low research coverage. Analysts work across the market cap spectrum supporting small, mid, and all-cap strategies with coverage of dynamic sectors. The strategy holds 110-125 companies and portfolio construction limits of no more than 15% in any one industry group.

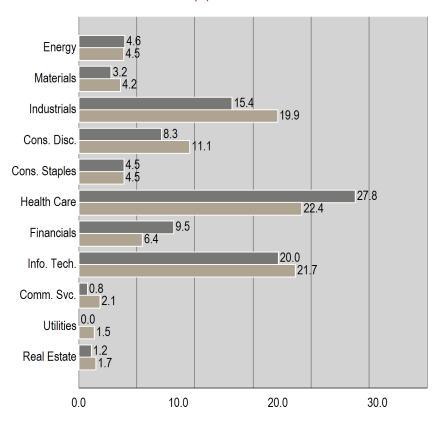
#### **Characteristics**

	Portfolio	Russell 2000 Growth
Number of Holdings	118	1,070
Weighted Avg. Market Cap. (\$B)	4.4	3.9
Median Market Cap. (\$B)	3.5	1.3
Price To Earnings	26.6	23.4
Price To Book	4.4	4.0
Price To Sales	2.9	1.9
Return on Equity (%)	-4.9	3.4
Yield (%)	0.5	0.7
Top Holdings		
IMMUNOGEN INC		2.4%
ACADIA PHARMACEUTICALS INC		2.2%
CARPENTER TECHNOLOGY CORP		2.1%
FRESHPET INC		2.1%
BLUEPRINT MEDICINES CORP		1.9%
VARONIS SYSTEMS INC		1.9%
SUPER MICRO COMPUTER INC		1.9%
CHURCHILL DOWNS INC		1.9%
TRANSMEDICS GROUP INC		1.8%
FTAI AVIATION LTD		1.8%
Total		20.1%
W 1 (0 % P )		

#### **Market Capitalization**

	Small Cap	Mid Cap	Large Cap
Emerald Small Cap Growth	49.1%	50.9%	0.0%
Russell 2000 Growth	62.8%	37.2%	0.0%
Weight Over/Under	-13.6%	13.6%	0.0%

#### Sector Allocation (%) vs Russell 2000 Growth



#### Rhumbline Global Min. Volatility

As of December 31, 2023

**Manager Summary**: The fund invests primarily in U.S. and foreign stocks that are expected to minimize volatility relative to the global equity market. To reduce volatility, the fund will consider stocks' risk and diversification characteristics and seek to hedge away most of the currency exposure resulting from its foreign stock holdings.

	Characteristi	CS			
			Port	folio	MSCI ACWI
Number of Holdings				282	2,914
Weighted Avg. Market Cap. (\$B)				03.7	471.3
Median Market Cap. (\$B)				20.8	13.4
Price To Earnings				17.7	19.4
Price To Book				3.2	3.5
Price To Sales				1.3	1.9
Return on Equity (%)				19.6	21.3
Yield (%)				2.6	2.1
	Top Holding	S			
ISHARES MSCI EMERGING MARKET	S MIN VOL FAC	TOR ETF			12.4%
CISCO SYSTEMS INC					1.6%
ROPER TECHNOLOGIES INC					1.5%
MERCK & CO INC					1.4%
WASTE MANAGEMENT INC.					1.4%
MOTOROLA SOLUTIONS INC					1.4%
T-MOBILE US INC					1.3%
WALMART INC					1.3%
PEPSICO INC					1.2%
JOHNSON & JOHNSON					1.2%
Total					24.6%
Ma	arket Capitaliz	ation			
	Small	Mid	Large		
	Сар	Сар	Cap		Unclassified
Rhumbline Global Min. Volatility	17.5%	24.2%	57.5%		0.8%
MSCI ACWI	5.7%	16.5%	77.7%		0.0%
Weight Over/Under	11.7%	7.7%	-20.3%		0.8%

#### Sector Allocation (%) vs MSCI ACWI Energy 1.2 Materials ■ 0.6 Industrials 10.7 5.1 Cons. Disc. 11.1 10.7 Cons. Staples 6.8 15.0 Health Care 11.2 **12.3** Financials 15.9 **15.5** Info. Tech. 22.9 10.6 Comm. Svc. 7.3 5.7 Utilities 2.6 Real Estate 0.4 2.4 5.0 10.0 15.0 20.0 25.0 0.0

#### % of % of Region % Diff Total Bench 2.9% -1.7% North America ex U.S. 1.2% **United States** 68.8% 62.6% 6.2% Europe Ex U.K. 6.1% 12.2% -6.1% United Kingdom 0.3% 3.5% -3.2% 3.5% 2.7% Pacific Basin Ex Japan 0.8% 10.6% 5.4% 5.2% Japan **Emerging Markets** 8.4% 10.4% -2.0% 1.0% 0.2% Other 0.8% 100.0% 100.0% Total 0.0%

**Region Allocation Summary** 

As of December 31, 2023

**Manager Summary**: Passive strategy that seeks to replicate the returns of the MSCI ACWI ex US index. This strategy is a low-cost option to gain diversified exposure to internationally based companies.

#### **Characteristics** Sector Allocation (%) vs MSCI World ex USA MSCI World ex Portfolio USA Energy 1.1 Number of Holdings 869 1.026 5.8 5.1 Weighted Avg. Market Cap. (\$B) 58.2 85.6 Materials 8.0 Median Market Cap. (\$B) 11.2 13.6 21.5 Industrials 16.1 Price To Earnings 13.9 14.7 17.9 Cons Disc 11.0 Price To Book 2.0 2.5 **5.8** Cons. Staples 8.8 1.0 Price To Sales 1.3 8.4 Health Care 11.2 15.1 11.4 Return on Equity (%) **126** Yield (%) 2.4 Financials 3.2 20.8 ■14.2 Info Tech **Top Holdings** 6.8 Comm. Svc. TOYOTA MOTOR CORP 5.1% 3.8 Utilities 1.2 3.1% SONY GROUP CORPORATION 3.4 MITSUBISHI UFJ FINANCIAL GROUP 2.6% Real Estate **KEYENCE CORP** 2.2% TOKYO ELECTRON LTD 2.2% 20.0 0.0 5.0 10.0 15.0 25.0 SHIN-ETSU CHEMICAL CO LTD 2.0% **Region Allocation Summary** HITACHI LTD 1.7% SUMITOMO MITSUI FINANCIAL GROUP INC 1.6% % of % of 1.6% Region RECRUIT HOLDINGS CO LTD Total Bench % Diff MITSUBISHI CORP 1.4% 10.7% -9.9% North America ex U.S. 0.8% 23.6% Total **United States** 2.0% 0.0% 2.0% 45.3% -42.2% **Market Capitalization** Europe Ex U.K. 3.0% United Kingdom 0.3% 13.2% -12.9% Small Mid Large Unclassified Pacific Basin Ex Japan 0.8% -9.3% Cap Cap Cap 10.2% SSGA MSCI World ex US 10.9% 32.7% 53.9% 2.4% 92.9% 72.9% 20.1% Japan MSCI World ex USA 8.1% 25.5% 66.4% 0.0% **Emerging Markets** 0.0% 0.0% 0.0% -12.5% Weight Over/Under 2.8% 7.2% 2.4% Other 0.1% 0.6% -0.6% Total 100.0% 100.0% 0.0%

#### Hardman Johnston Int'l Equity

As of December 31, 2023

**Manager Summary**: Concentrated portfolio (20-30 names). Utilizes fundamental research invests in quality companies with 10% EPS growth and market leaders, invest at attractive valuation. Turnover is between 20-30%. Maximum position is 5%. Given the concentrated nature of the portfolio, high idiosyncratic risk in the portfolio and sizable tracking error. High active share (around 90-95%). No currency hedge.

#### **Characteristics** Sector Allocation (%) vs MSCI EAFE Portfolio MSCI FAFE 30 Number of Holdings 781 Energy 10.3 43 89.2 Weighted Avg. Market Cap. (\$B) 67.6 Materials 0.0 Median Market Cap. (\$B) 78 48.0 13.5 24.6 Industrials 17.3 14.5 Price To Earnings 16.4 **19.5** Price To Book 1.6 2.6 Cons Disc 11.8 Price To Sales 0.9 1.2 Cons. Staples 0.0 9.3 Return on Equity (%) 11.1 15.6 Health Care 3.0 12.7 2.0 3.2 Yield (%) **41.2** Financials 19.0 8.6 11.0 Info Tech **Top Holdings** Comm. Svc. 10.3 DAIFUKU CO LTD 23.6% Utilities 0.0 20.9% DAI-ICHI LIFE HOLDINGS INC 3.5 **T&D HOLDINGS INC** 18.3% Real Estate 0.0 SUZUKI MOTOR CORP 17.5% TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD 9.3% 0.0 10.0 20.0 30.0 40.0 1.7% AIA GROUP LTD **GENMAB A/S** 1.6% **Region Allocation Summary** 1.3% NORDIC SEMICONDUCTOR % of % of **MEITUAN** 1.0% Region Total Bench 0.8% **NOVO NORDISK A/S** Total 96.1% North America ex U.S. 0.0% 0.0% **United States** 0.0% 0.0% **Market Capitalization** Europe Ex U.K. 6.0% 50.7% United Kingdom 0.8% 14.8% Small Mid Large Unclassified Pacific Basin Ex Japan 1.9% Cap 11.4% Cap Cap Hardman Johnston Int'l Equity 43.4% 40.9% 15.3% 0.4% 80.3% 22.5% Japan MSCI EAFE **Emerging Markets** 0.0% 8.0% 25.3% 66.6% 0.0% 10.7% Weight Over/Under 35.4% 15.5% -51.4% 0.4% Other 0.3% 0.7% 100.0% Total 100.0%

% Diff

0.0%

0.0%

-44.6%

-14.0%

-9.5%

57.8%

10.7%

-0.4%

0.0%

#### Hudson Edge Int'l Equity

As of December 31, 2023

**Manager Summary**: Bottom-up fundamental manager looking for businesses that are undergoing structural change. Analysts are generalists who are unconstrained in their candidates. Looking for upside over a time horizon of 2-3 years through assessing and predicting earnings estimates. Concentrated portfolio: 25-35 names equally weighted with a max of 5% initial allocation. Sector and countries limits of 30%. Turnover is roughly 30-40%.

#### **Characteristics** Portfolio MSCI FAFE 34 Number of Holdings 781 Weighted Avg. Market Cap. (\$B) 89.2 61.6 Median Market Cap. (\$B) 13.5 25.5 18.7 14.5 Price To Earnings Price To Book 2.5 2.6 Price To Sales 2.0 1.2 13.2 Return on Equity (%) 15.6 Yield (%) 2.2 3.2 **Top Holdings** 4.9% BAE SYSTEMS PLC 4.9% **VESTAS WIND SYSTEMS A/S** RHEINMETALL 4.6% SAMSUNG ELECTRONICS CO LTD 3.9% 3.9% **GETLINK SE** THALES SA 3.8% RYANAIR HOLDINGS PLC 3.7% DEUTSCHE BOERSE AG 3.6% UNIVERSAL MUSIC GROUP INC 3.5% STMICROELECTRONICS NV 3.4% 40.2% Total **Market Capitalization** Small Mid Large Unclassified Cap Cap Cap Hudson Edge Int'l Equity 3.1% 39.0% 47.1% 10.8% MSCI EAFE 8.0% 25.3% 66.6% 0.0%

-4.9%

13.7%

-19.6%

10.8%

#### Sector Allocation (%) vs MSCI EAFE Energy 0.0 4.3 5.3 Materials 7.8 30.4 Industrials 16.4 10.71.8 Cons Disc **5.7** Cons. Staples 9.3 **5.8** Health Care 12.7 ■15.7 Financials 19 0 15.2 Info. Tech. 8.6 4.0 5.7 Comm. Svc. Utilities Real Estate 0.0 0.0 10.0 20.0 30.0

# Region Allocation Summary % of

Region	% of Total	% of Bench	% Diff
North America ex U.S.	2.4%	0.0%	2.4%
United States	0.0%	0.0%	0.0%
Europe Ex U.K.	48.5%	50.7%	-2.1%
United Kingdom	14.1%	14.8%	-0.6%
Pacific Basin Ex Japan	9.1%	11.4%	-2.3%
Japan	17.5%	22.5%	-5.0%
Emerging Markets	8.4%	0.0%	8.4%
Other	0.0%	0.7%	-0.7%
Total	100.0%	100.0%	0.0%

Weight Over/Under

#### SSGA MSCI Emerging Markets Index

As of December 31, 2023

**Manager Summary**: Passive strategy that seeks to replicate the return of the MSCI Emerging Markets index. This strategy is a low-cost option to gain diversified exposure to emerging market based companies.

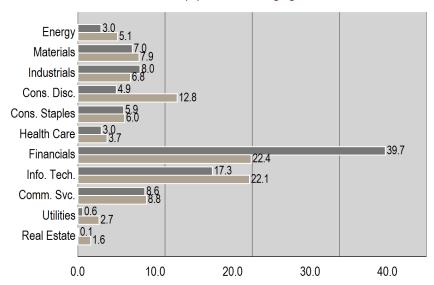
#### **Characteristics**

onal doterioros		
	Portfolio	MSCI Emerging Markets
Number of Holdings	1,479	1,436
Weighted Avg. Market Cap. (\$B)	85.9	113.9
Median Market Cap. (\$B)	7.4	7.5
Price To Earnings	14.2	13.0
Price To Book	2.2	2.5
Price To Sales	1.3	1.1
Return on Equity (%)	11.7	14.2
Yield (%)	3.3	2.9
Top Holdings		
PT BANK CENTRAL ASIA TBK		15.0%
PT BANK RAKYAT INDONESIA TBK		11.3%
SAMSUNG ELECTRONICS CO LTD		10.9%
PT BANK MANDIRI (PERSERO) TBK		6.6%
TELEKOMUNIKASI INDONESIA		5.7%
ASTRA INTERNATIONAL		3.4%
PT BANK NEGARA INDONESIA (PERSERO) TBK		2.4%
SK HYNIX INC		2.2%
PT GOTO GOJEK TOKOPEDIA TBK		1.5%
SUMBER ALFARIA TRIJAYA		1.5%
Total		60.6%

#### **Market Capitalization**

	Small Cap	Mid Cap	Large Cap	Unclassified
SSGA MSCI Emerging Markets Index	6.3%	19.6%	69.1%	5.0%
MSCI Emerging Markets	13.3%	26.6%	60.1%	0.0%
Weight Over/Under	-7.0%	-6.9%	9.0%	5.0%

#### Sector Allocation (%) vs MSCI Emerging Markets



#### **Region Allocation Summary**

Region	% of Total	% of Bench	% Diff
North America ex U.S.	0.0%	0.0%	0.0%
United States	2.4%	0.0%	2.4%
Europe Ex U.K.	0.0%	0.5%	-0.5%
United Kingdom	0.0%	0.0%	0.0%
Pacific Basin Ex Japan	0.1%	0.0%	0.1%
Japan	0.0%	0.0%	0.0%
Emerging Markets	97.5%	98.8%	-1.3%
Other	0.0%	0.8%	-0.7%
Total	100.0%	100.0%	0.0%

#### PRISA LP

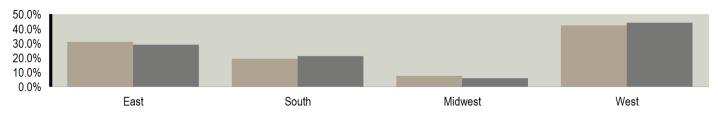
As of December 31, 2023

#### Characteristics

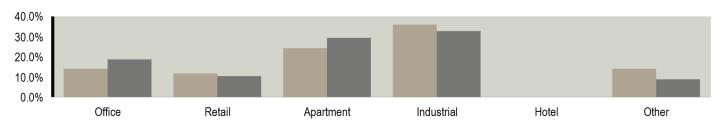
Fund GAV (\$MM)	\$29,800.0
Fund NAV (\$MM)	\$23,161.0
Cash (% of NAV)	2.1%
# of Investments	284
% in Top 10 by NAV	18.3%
Leverage %	24.1%
Occupancy	92.4%
# of MSAs	45
1-Year Dividend Yield	3.1%
As of Date	31-Dec-23

	% of Portfolio	Top Five Metro Areas %	% of NAV
Pre-Development	1.1%	Los Angeles-Long Beach, CA	22.9%
Development	2.1%	New York-Newark, NY-NJ-CT-F	13.0%
Initial Leasing	0.5%	Washington-Baltimore-Arlington	10.6%
Operating	96.4%	San Jose-San Francisco-Oaklaı	6.8%
Re-Development		Boston-Worcester-Providence,	4.6%
Other			
Queue In:		Queue Out:	
Contribution Queue (\$MM)	\$34.48	Redemption Queue (\$MM)	\$3,159.81
Anticipated Drawdown (Months)		Anticipated Payout (Months)	

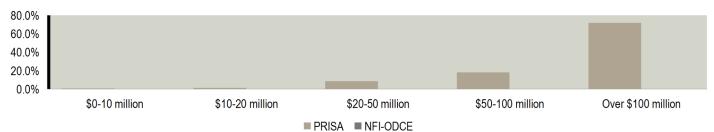
#### Regional Breakdown by NAV (Excluding Cash & Debt)



#### Property Type Breakdown by NAV (Excluding Cash & Debt)



#### Property Size Breakdown by NAV (Excluding Cash & Debt)



#### PRISA II

As of December 31, 2023

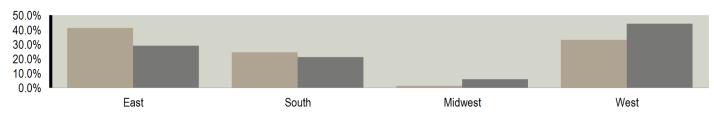
#### Characteristics

Fund GAV (\$MM)	\$15,726.0
Fund NAV (\$MM)	\$8,933.0
Cash (% of NAV)	0.8%
# of Investments	143
% in Top 10 by NAV	30.3%
Leverage %	39.4%
Occupancy	85.8%
# of MSAs	68
1-Year Dividend Yield	2.4%
As of Date	31-Dec-23

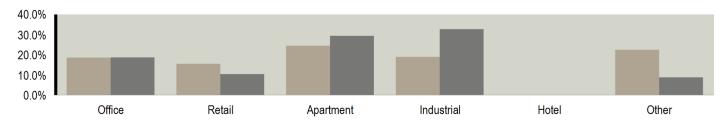
Strategy I	Breakdown
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	% of Portfolio	Top Five Metro Areas	% of NAV
Pre-Development	5.0%	Northern NJ	9.7%
Development	10.1%	San Francisco	7.6%
Initial Leasing	9.3%	Boston	7.3%
Operating	68.2%	Riverside	5.9%
Re-Development		Fort Lauderdale	5.3%
Other	7.4%		
Queue In:		Queue Out:	
Contribution Queue (\$MM)	\$750.00	Redemption Queue (\$MM)	\$1,358.80
Anticipated Drawdown (Months)		Anticipated Payout (Months)	

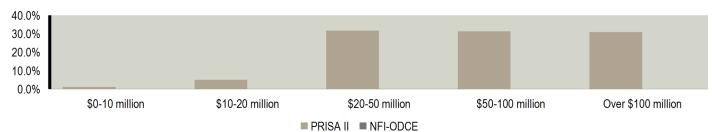
#### Regional Breakdown by NAV (Excluding Cash & Debt)



#### Property Type Breakdown by NAV (Excluding Cash & Debt)



#### Property Size Breakdown by NAV (Excluding Cash & Debt)



#### PennMuni-Nuveen U.S. Real Estate Fund

As of December 31, 2023

#### **Characteristics**

Fund NAV (\$MM)	\$255.0
Cash (% of NAV)	1.9%
# of Investments	8
Occupancy	90.4%
NOI	3.9%
Loan to Value	7.1%
As of Date	9/30/2023

#### **Asset Summary**

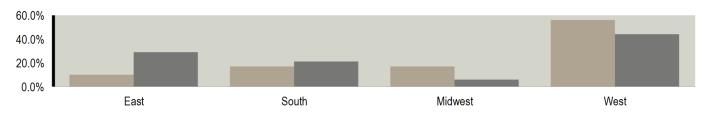
Property	Acquistion
Copley Corporate Center	2010
SR Ranch	201
Des Peres Corners	2010
708 Uptown	2014
Fairway Center II	2016
Republic Distribution Center	2013
526 Route 46	2014
Shoppes at Monarch Lakes	2010

#### Portfolio Allocation

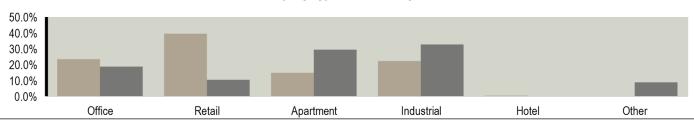
#	Property	Туре	Location	% of Fund NAV
1	Copley Corporate Center	Office	San Diego, CA	11.7%
2	SR Ranch	Retail	San Diego, CA	18.0%
3	Des Peres Corners	Retail	Des Peres, MO	16.3%
4	708 Uptown	Apartment	Seattle, WA	14.8%
5	Fairway Center II	Office	Brea, CA	11.7%
6	Republic Distribution Center	Industrial	Houston, TX	12.8%
7	526 Route 46	Industrial	Teterboro, NJ	9.5%
8	Shoppes at Monarch Lakes	Retail	Miramar, FL	5.3%

Total 100.0%

#### Regional Breakdown by NAV



#### Property Type Breakdown by NAV





#### **Forest Investment Associates**

As of December 31, 2023

Net Assets	(\$MM)	149.8
1401/100010	(ΨΙΝΙΙΝΙ <i>)</i>	170.0

#### Portfolio Allocation

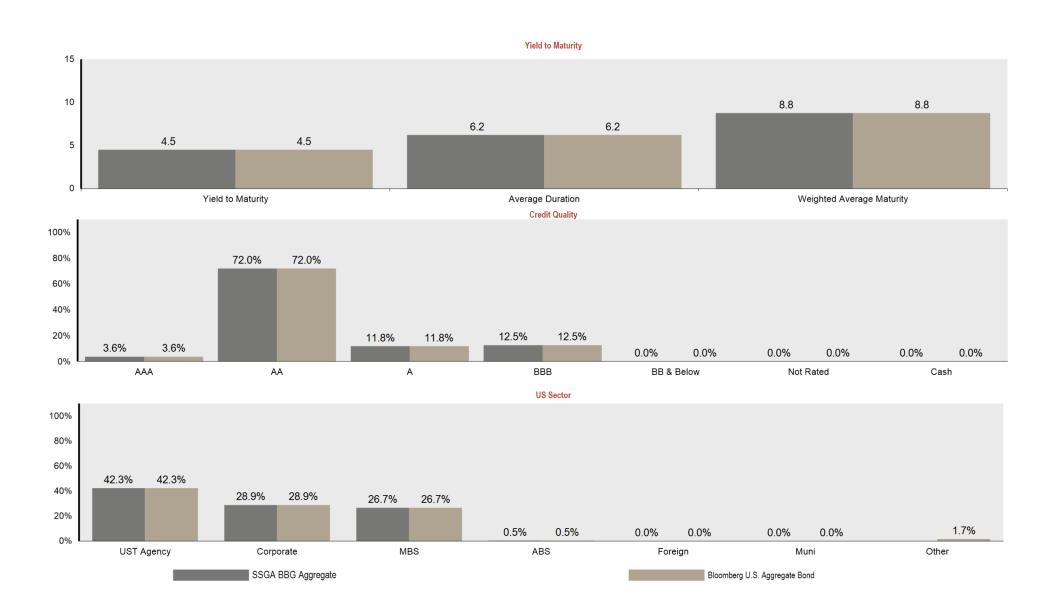
#	Property	Туре	Location	% of Fund NAV
1	Bear Island	Pine	Virginia	5.8%
2	Fitz-Weller	Pine	New York	3.7%
3	Carter Pasture	Douglas Fir/Cedar	Texas	8.6%
4	Dupont	Douglas Fir/Hemlock	Georgia	20.9%
5	Black River	Pine	South Carolina	16.9%
6	Coquille	Pine	Oregon	18.9%
7	Bucktails	Pine	Pennsylvania	8.5%
8	North River	Maple/Oak	Washington	16.7%

Total 100.0%

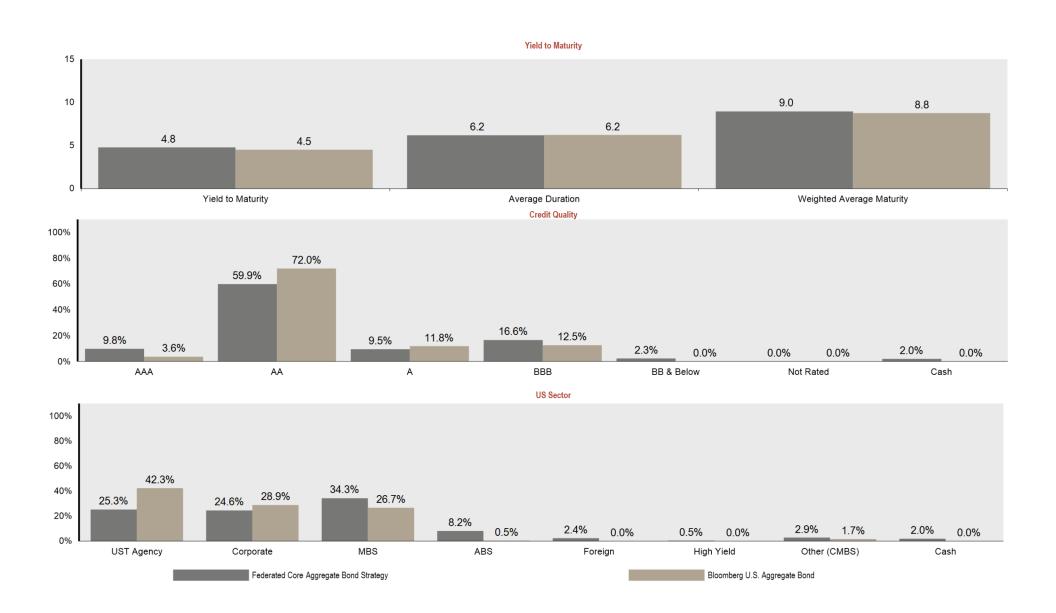
#### Regional Breakdown by NAV



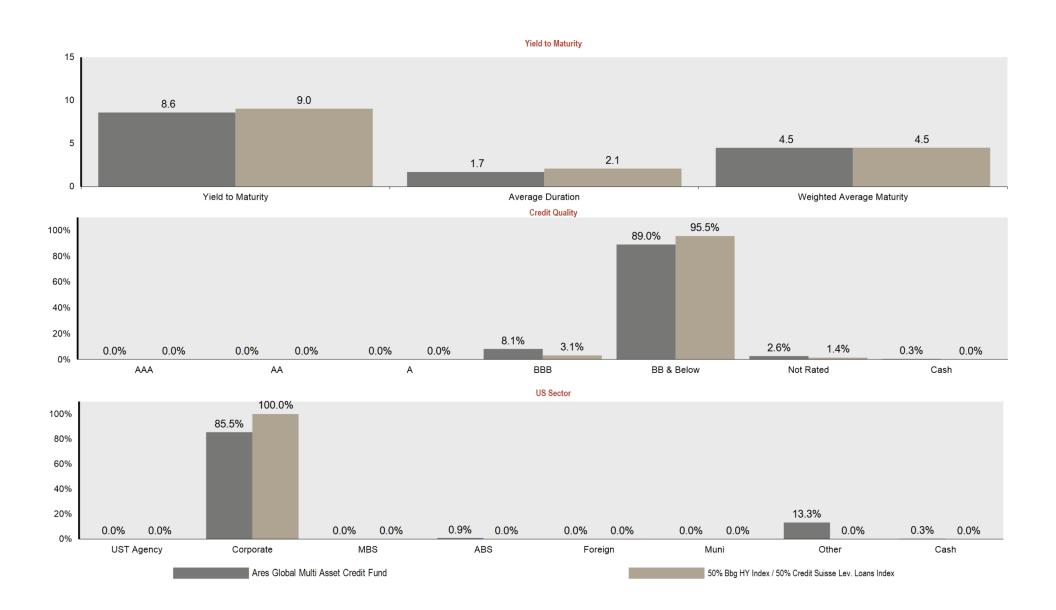
#### SSGA US Aggregate Bond Index



#### Federated Hermes Core Aggregate Strategy



#### Ares Global Multi-Asset Credit



# International Large Cap Value Equity Search Update

# **Characteristics**

#### **Portfolio Characteristics**

Firm	# of Holdings	% In Top Ten	Med. Cap (\$MM)	Avg. Cap (\$MM)	Trailing P/E	P/B Ratio	Dividend Yield
Barrow, Hanley	56	26.2%	\$18,694	\$28,474	10.2	1.3	4.2%
Boston Partners	90	22.4%	\$25,980	\$61,767	9.9	1.5	3.1%
Lazard	71	25.5%	\$29,995	\$56,948	16.1	2.1	3.0%
MFS Investment	64	25.4%	\$30,355	\$60,957	11.0	1.4	3.9%
Sprucegrove	79	22.2%	\$10,865	\$57,077	12.2	1.4	3.2%
Vanguard*	201	14.8%	\$19,553	\$70,762	12.6	1.7	3.1%
ARGA	65	35.4%	\$21,125	\$75,857	10.5	1.3	3.7%
Causeway	65	30.7%	\$48,290	\$72,654	10.5	1.7	3.1%
Dodge & Cox	69	30.6%	\$37,000	\$77,000	9.5	1.2	3.2%
Mondrian Investment	102	22.3%	\$26,228	\$62,356	11.3	1.2	4.1%
Schroders Investment	514	12.0%	\$6,276	\$56,972	9.3	1.4	4.0%
Silchester	134	23.9%	\$4,741	\$28,138	14.7	0.9	4.2%
MSCI EAFE Value	484	19.6%	\$6,887	\$15,686	10.5	1.2	4.4%

<sup>\*</sup>Vanguard strategy is sub-advised by ARGA (25%), Lazard (40%), and Sprucegrove (35%).

Data from Marquette ILCV search: 9-30-2023



# Transition Management Candidate Comparison



# **Transition Management**



Presented by

Lee H. Martin, Ph. D. Managing Director

Sam Frymier Sr. Client Analyst

# Firm Information

	Abel Noser	Loop Capital	Macquarie	Northern Trust
U.S. Headquarters	New York, NY	Chicago, IL	New York, NY	Chicago, IL
Year Founded	1975	1997	1969	1889
Employee Ownership (%)	25%	90%	-	-
MWBE Ownership	Yes	Yes	-	-
Total Employees	20	254	3,269	-

- Abel Noser is 25% employee owned and 75% owned by Estancia Partners, an MBE qualified private
  equity firm. Abel Noser is currently in a management buyout process to purchase Estancia Partners'
  stake. The firm offers global trade analytics and compliance solutions.
- Loop Capital is a privately held LLC, majority owned by James Reynolds, Jr., Founder and CEO. The firm offers investment banking, brokerage and advisory services.
- Macquarie's independent transition management team was formed in 2009. They are a publicly traded company on the Australian Stock Exchange (ticker: MGL) with global HQ in Sydney, Australia and US offices in NY and Philadelphia. The firm offers investment banking, brokerage and advisory services.
- Northern Trust is a publicly traded company (ticker: NTRS) that began providing transition management services in 1987. The firm offers investment banking, brokerage and advisory services.



# **Transition Team Breakdown**

	Abel Noser	Loop Capital	Macquarie	Northern Trust
Trading Analysis	2	4	17	4
Transition Strategists	2	2	17	5
Transition PM's	2	0	17	5
Trading and Execution	8	17	14	35
Transition Support	2	7	11	42
Compliance and Risk Mgmt	1	2	2	-
Total	20	39	54	99

- As smaller, private companies, Abel Noser and Loop have smaller transition team headcounts.
- All four firms have consistently larger Trading and Execution teams, while Macquarie has consistently large teams dedicated to each specialty.

# **Transition Activity: Past 3 Years**

	Abel Noser		Loop Capital		Macquarie		Northern Trust	
	#	\$(Mil)	#	\$(Mil)	#	\$(Mil)	#	\$(Mil)
< \$100 million	290	\$12,990	14	\$620	270	\$7,300	143	\$3,143
\$100-250 million	48	\$9,280	11	\$1,526	60	\$9,600	118	\$10,550
\$250-500 million	44	\$17,630	16	\$6,263	46	\$15,700	101	\$18,620
Over \$500 million	42	\$52,620	23	\$29,634	59	\$66,900	185	\$188,289

- A typical transition management project at PMRS will range from \$50 \$200 million.
- Abel Noser, Macquarie, and Northern Trust have performed considerably more transaction activity than Loop Capital over the past three years, particularly in the below \$250 million range.

# **Transition Activity: Yearly Totals**

	Abel Noser		Loop Capital		Macquarie		Northern Trust	
Year	#	\$(Mil)	#	\$(Mil)	#	\$(Mil)	#	\$(Mil)
2023	135	\$29,660	27	\$14,776	138	\$25,344	156	\$41,816
2022	147	\$30,440	14	\$8,799	174	\$37,409	195	\$65,592
2021	142	\$31,960	23	\$14,468	135	\$36,900	196	\$72,294
2020	175	\$32,540	18	\$9,822	123	\$32,732	226	\$96,760
2019	170	\$28,300	33	\$11,978	158	\$62,300	209	\$99,985

# **Liquidity Sources**

Liquidity Source	Abel Noser	Loop Capital	Macquarie	Northern Trust
In-Kind Transfer	14%	3%	18%	12%
Internal Crossing	0%	1%	14%	11%
External Crossing	11%	6%	15%	16%
Primary Exchanges	75%	90%	52%	61%
Principal Trades	0%	0%	1%	0%

- **In-Kind Transfer:** occurs when the legacy and target portfolio have the same holding, whereby the common holding is transferred directly to the target portfolio "in-kind."
- **Internal Crossing:** the ability of a transition manager to trade securities during a transition through their own internal funds, or other client portfolios.
- **External Crossing:** the ability of a transition manager to access and trade securities through external specialist networks built for transition purposes.
- **Primary Exchanges:** selling a security on the open exchange marketplace, at its current market value, and then buying whatever new security one needs in its place, again, in the market.
- **Principal Trades:** executing broker accepts the execution risk, by guaranteeing a total value to the client for all trades executed. Least common trade type that includes risk of conflicting interest if TM uses their own brokerage organizations to trade.



# **Fee Estimates**

Asset Class	Abel Noser	Loop Capital	Macquarie	Northern Trust
U.S. Equity	0.5 - 1.2 cps	0.4-0.7 cps	0.4-0.9 cps	0.5- 1 cps
Non-U.S. Dev Equity	3-5 bps	3-6 bps	3-5 bps	3-5 bps
EM Equity	5-15 bps	6-8 bps	5-8 bps	3-8 bps
US Fixed	2-8 bps	3-5 bps	-	3-5 bps
Govt./Agency	-	-	1-2 bps	-
Corp. Bond	-	-	4-10 bps	-

<sup>\*</sup>CPS = "Cents Per Share"

The above are estimates quoted for purposes of RFP completion. Transition mandates are typically priced on a case-by-case basis. Factors considered include the mandate size, liquidity profile of the underlying securities, and operational complexity.

<sup>\*</sup>BPS = "Basis Points"

# **Timeline**

- Determine who and contract with Transition Manager/s
- Receive executed Channing contract back from the Commonwealth
- Notify Dana (ex-Smith Graham) of contract termination
- Open Channing account at BNY
- Receive portfolio buy list from Channing and identify stocks that require transactions vs. in-kind transfers
- Provide current and target portfolios to Transition Manager/s for review and provide both anticipated execution costs and pre-trade analysis
- Transition Occurs
- Post-trade review

The sources of information used in this report are believed to be reliable. Marquette Associates, Inc. has not independently verified all of the information and its accuracy cannot be guaranteed. Opinions, estimates, projections and comments on financial market trends constitute our judgment and are subject to change without notice. References to specific securities are for illustrative purposes only and do not constitute recommendations. Past performance does not guarantee future results.

#### **About Marquette Associates**

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