

# OKLAHOMA MUNICIPAL RETIREMENT FUND COMMITTEE MEETING AGENDA

A Special Meeting of the Board of Trustees of the Oklahoma Municipal Retirement Fund and the Investment Committee of the Oklahoma Municipal Retirement Fund has been called for Thursday, February 27, 2025, at 2:00 p.m.

The meeting will be held at 1001 NW 63<sup>rd</sup> St., Suite 260, Oklahoma City, OK and the following items will be considered:

February 27, 2025

The Committee is a fact-finding body made up of three (3) Board of Trustee Members. The Committee's sole purpose is to conduct investigative research and gather information to develop recommendations for Board consideration and possible action. No official Board action can be taken at the Committee level.

- 1. Call to Order
- 2. Discussion, Education, and Review of the Private Equity Market Asset Class and Commitment Pacing Plan in the Defined Benefit Portfolio
- 3. Conduct Semi-Annual Investment Performance Review and Receive Quarterly Performance Report for December 31, 2024, as Presented by Asset Consulting Group
- 4. New Business
- 5. Adjourn

Posted by 2:00 p.m. February 25, 2025 1001 NW 63rd Street, 1st Floor Oklahoma City, OK 73116



# Oklahoma Municipal Retirement Fund

Investment Committee Meeting

Private Markets Review

February 27, 2025

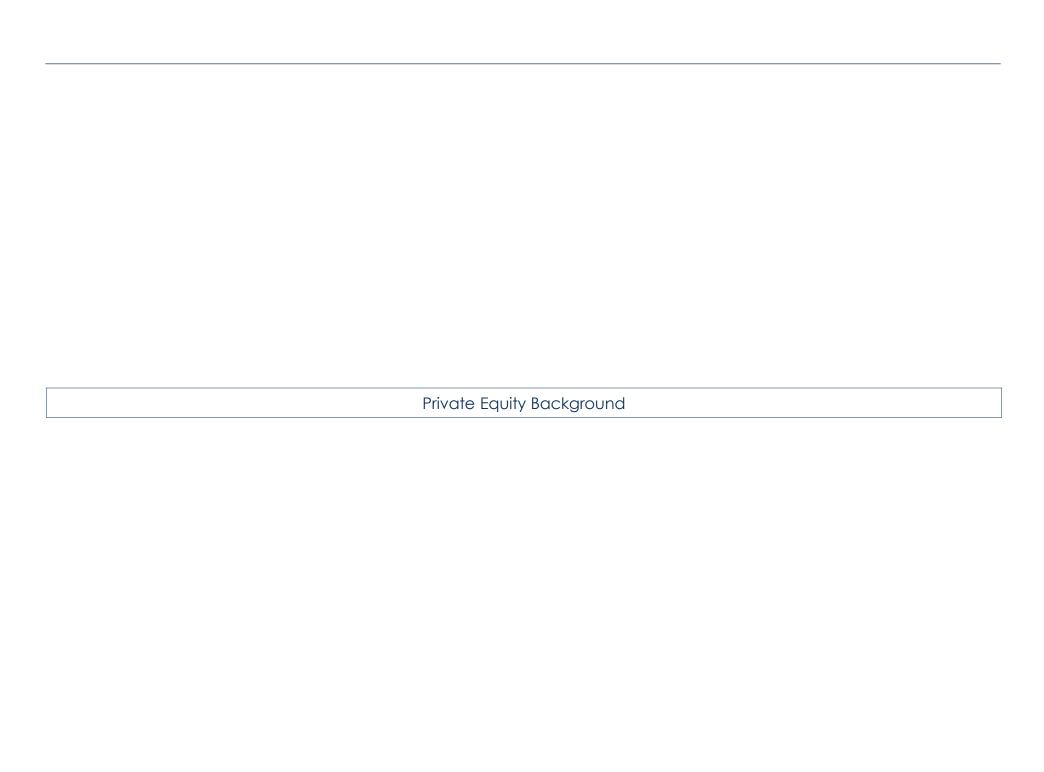


2018 2019 2020 2021 2022 **2023** 

We are proud to announce that ACG has again been named a Greenwich Quality Leader – recognized as one of the top consultants in the industry.

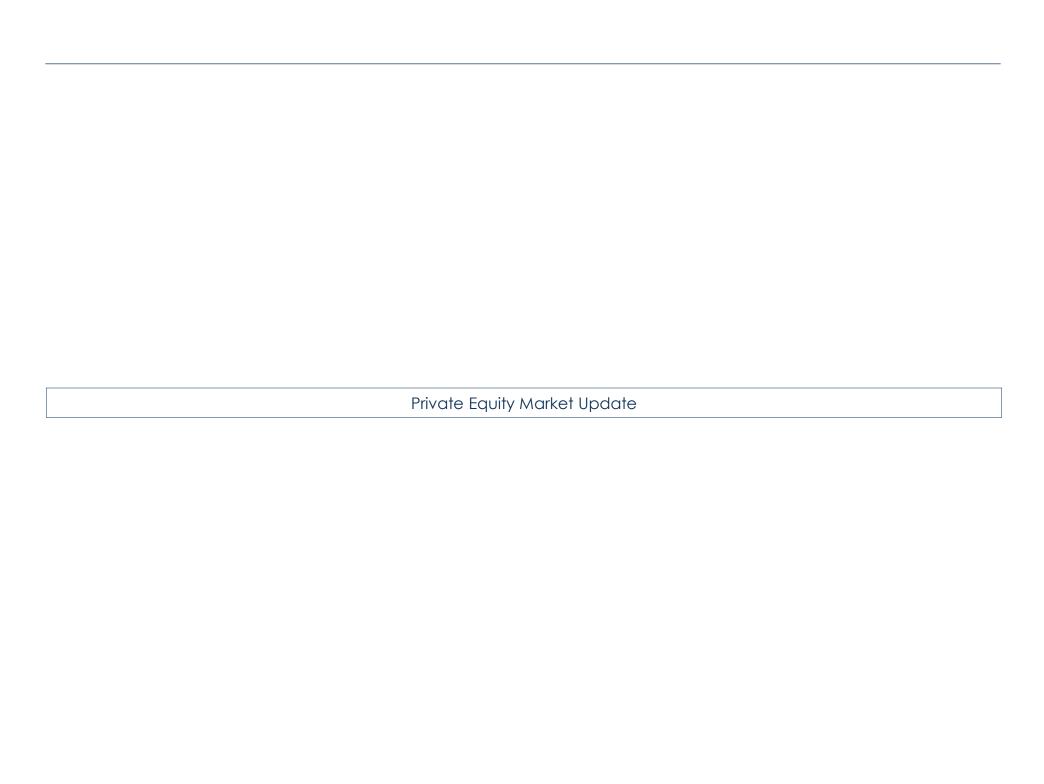
Methodology and Disclosure: Between February and November of 2023, Coalition Greenwich (previously known as Greenwich Associates), conducted in-person and phone interviews and online surveys with 727 professionals at 590 of the largest tax-exempt funds in the United States, including corporate and union funds, public funds, endowments and foundations, insurance general accounts, and healthcare organizations, with either pension or investment pool assets greater than \$150 million. Study participants were asked to provide quantitative and qualitative evaluations of their asset managers and investment consultants, including qualitative assessments of those firms soliciting their business and detailed information on important market trends. ACG is one of four firms recognized in the mid-size investment consultant category. The ratings may not be representative of any one client's experience with ACG; rather they are representative of those clients that chose to participate in the survey. The results are not indicative of ACG's future performance. ACG does not pay to have its clients participate in the study.





# Private Equity Background

- In August 2022, the Board selected a new target asset allocation mix that included a 5% target to Private Equity.
- Due to the drawdown/distribution structure of private equity investing and the prudence of vintage year diversification, it takes time to reach and maintain the target allocation. As of December 31, 2024, OkMRF's allocation to private equity was approximately 1.6% and two fund commitments have been made:
  - 2023: \$20 million commitment to **Warburg Pincus Global Growth 14**, a proven, diversified global growth strategy.
  - 2024: \$15 million commitment to **Berkshire Partners XI**, an upper-middle market US buyout strategy.
- Today's discussion will consist of a Private Equity market update, ACG's implementation approach to Private Equity, and a review of OkMRF's Private Equity commitment pacing plan to reach and maintain the target allocation of 5%.
- In a future I.C. meeting, ACG will plan to bring one or two private equity funds for the I.C.'s consideration.



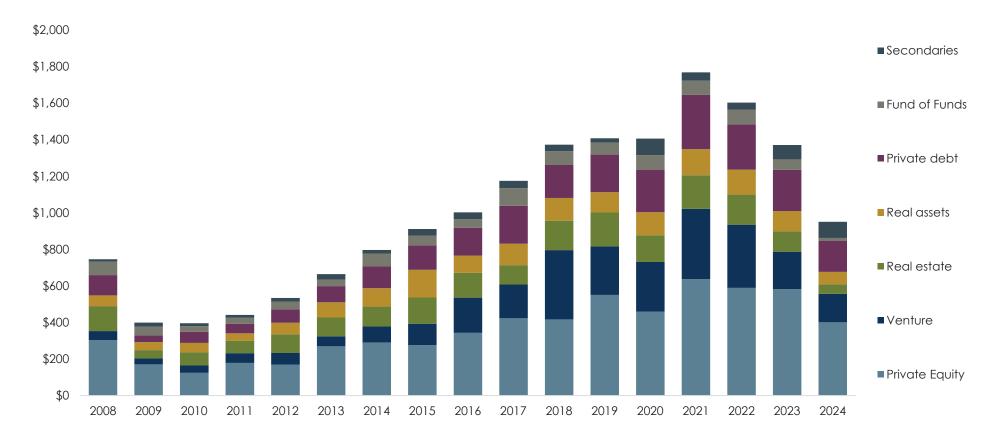
#### Private Equity Performance in Context

- 3Q 2024 performance across private markets landed squarely in positive territory across asset classes.
- Over the 1- and 3-year horizons, performance generally weakened compared with longer periods. Venture capital and real estate felt most deeply the impact of rapid interest rate increases, the expectation of a post-Covid economic recession and sectorspecific challenges.
- As base interest rates remained elevated, banks retrenched from corporate lending and a recession did not materialize, private credit outperformed all other asset classes on a 1-year basis.



#### Private Markets Fundraising

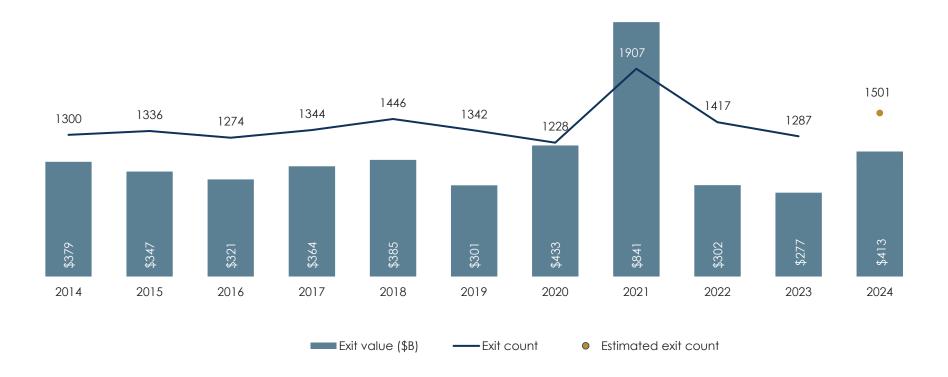
- In 2021, private equity (\$638B) and venture capital (\$384B) both raised all-time record amounts. YTD 3Q 2024 fundraising fell to \$400 billion for buyout and \$156 billion for venture capital.
- By contrast, private debt with its more consistent distribution profile consistently raised \$200-300 billion per year for the past five years.
- Implementing a private markets program diversified by vintage year, asset class and sector with a high-quality stable of manager relationships creates the best opportunity to outperform through cycles.



Source: Pitchbook, as of September 30, 2024

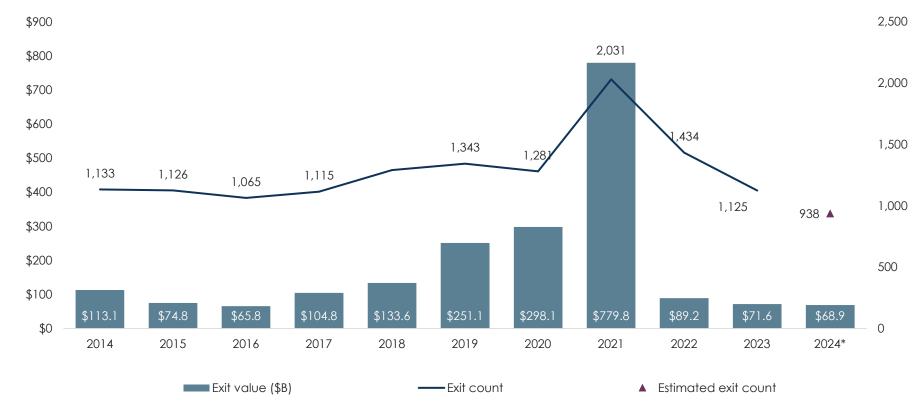
## Private Equity Exit Activity

- Compared to the 2021 record, private equity exits remained muted in 2024, though they approached the 2020 then-record dollar value.
- Private equity managers continued to exercise patience as they awaited a welcoming exit environment. Even as companies met their business plans, headwinds such as the persistently higher cost of capital persuaded private equity managers to hold their stake in expectation of a more favorable transaction landscape.
- As a result, distributions to limited partners fell and remain below trend, while the average private equity hold period extends.
- Lack of LP distributions makes fundraising more challenging for managers, making some more accessible to new investors.

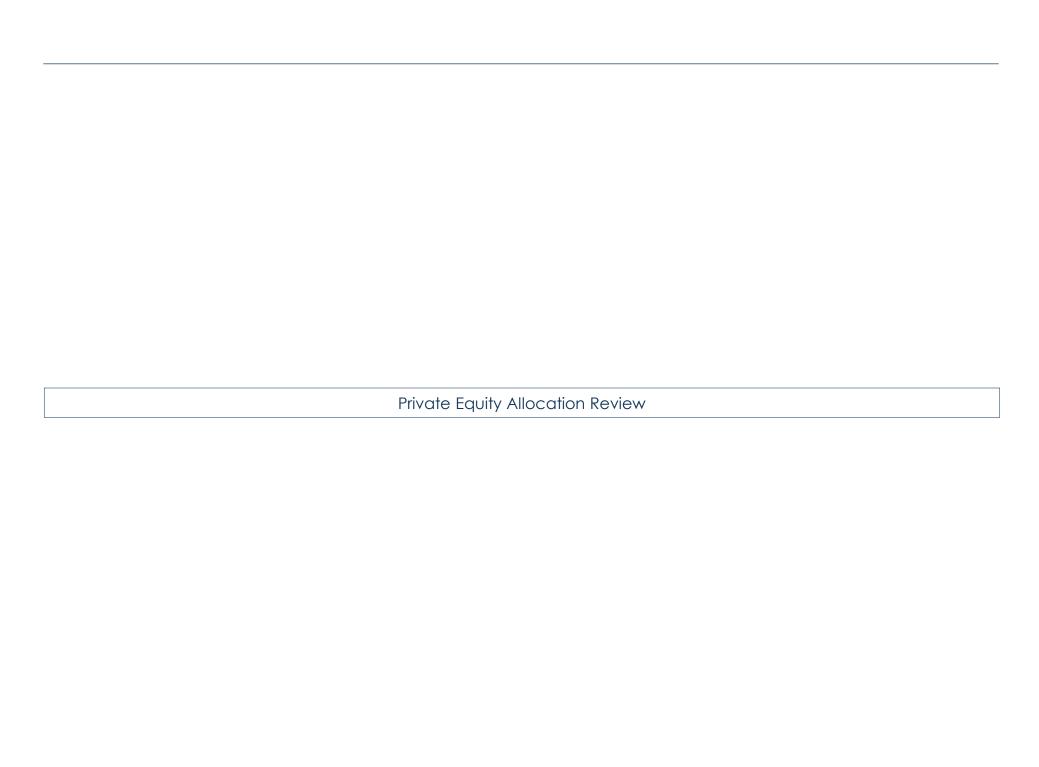


## **Venture Capital Exit Activity**

- 2021 venture capital exit volume exceeded all prior records by more than 2.5x.
- As mentioned earlier, persistently higher cost of capital dampened VC exit prospects, even for promising, fast-growing companies.
- In 2022, public market exits became inhospitable to growing but still-unprofitable firms. Continuing a growing trend, venture capital managers increasingly encouraged venture-backed firms to stay private, extending limited partner hold periods and reducing distributions.
- As venture capital fundraising and valuations fell overall, venture capital secondaries emerged as a target investment niche that took advantage of cyclical weakness amid secular tailwinds.



Source: Pitchbook, as of September 30, 2024

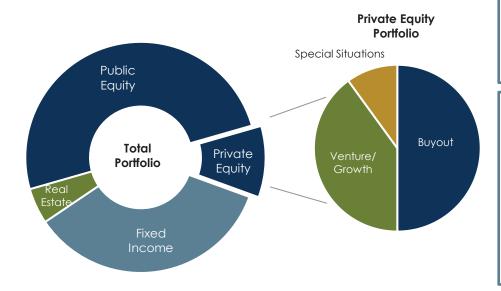


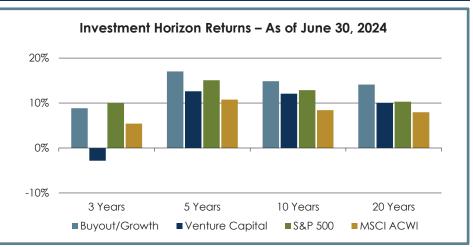
# Market inefficiencies and strategic decision control create return premium versus public equity

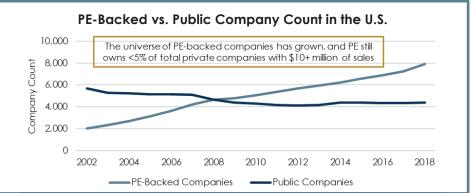
#### **Case for Private Equity**

- Consistent, long-term outperformance vs. public equity
- Large opportunity set with low penetration
- Return dispersion creates alpha opportunity via manager selection

Asset Allocation - Return-enhancing alternative to public equity







Opportunity Set	Buyout	Venture/Growth	Special Situations
Target Company Profile	Mature with steady cash flow	Earlier stage with rapid growth	Distressed
Target # of Active Managers	3 to 4	4 to 5	0 to 2
Target Net Return	12% to 15%	15%+	10% to 15%
Average Holding Period	4 to 6 years	5 to 8 years	<4 years
Target Private Equity Allocation	40% to 60%	30% to 50%	0% to 10%

Sources: PitchBook, World Bank, NAICS Association, ACG Research. Notes: Target Net Returns are based on PitchBook's historical median returns and ACG experience.

# Thesis: Target proven managers with specialized teams, and consistently diversify across strategy, fund size and time

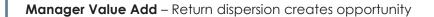
# **Key Considerations**

- Manager Selection Meaningful driver of long-term excess return
- Return Dispersion Venture/growth, small/concentrated funds offer higher risk/reward
- Specialization Emphasize specialized teams over sector focus
- Access Not a given; position yourself for success
- Geography No clear return benefit for investing ex-U.S.

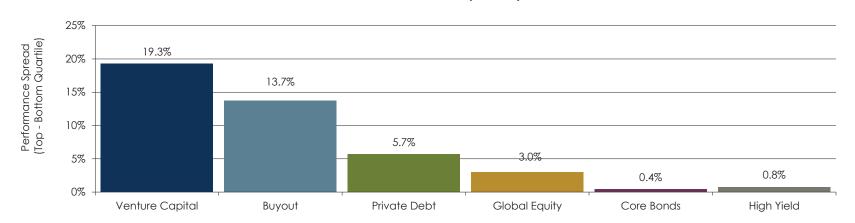
#### **Implementation Profile**

- Foundation Build exposure through consistent annual commitments; target specialized teams that can deliver repeatable value creation
- Enhanced Return Favor buyout for its stable risk/return; include proven venture/growth or small/concentrated strategies to capture additional alpha
- Construction Build portfolios with complementary strategies and a reasonable firm count; diversify risk without sacrificing the return seeking role of the asset class

# Thesis: Target proven managers with specialized teams, and consistently diversify across strategy, fund size and time



#### Performance Spread by Asset Class



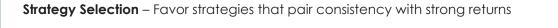
**Consistency** – Relative strategy returns vary over time, highlighting importance of diversification

Buyout	Grow	vth Ve	nture					
2001	2002	2003	2004	2005	2006	2007	2008	2009
16.1%	16.0%	21.9%	15.2%	8.2%	10.0%	14.4%	14.9%	13.3%
9.3%	6.1%	14.6%	9.7%	8.0%	8.9%	9.0%	10.3%	13.2%
-0.3%	0.8%	2.8%	0.3%	8.0%	8.3%	8.9%	8.9%	11.9%
2010	2011	2012	2013	2014	2015	2016	2017	2018
15.9%	22.0%	18.8%	19.5%	21.3%	20.1%	20.7%	25.6%	20.1%
11.3%	15.0%	15.0%	14.9%	19.4%	17.4%	19.8%	19.5%	18.1%
10.8%	14.4%	13.9%	11.9%	12.3%	17.1%	18.2%	18.8%	17.5%

Sources: PitchBook, eVestment, ACG Research

Note: Vintage year return data represents the median since inception return for each strategy in each vintage, as of the most recent date available. Strategy and Fund Size quartile data shown as of the most recent date available.

# Thesis: Target proven managers with specialized teams, and consistently diversify across strategy, fund size and time



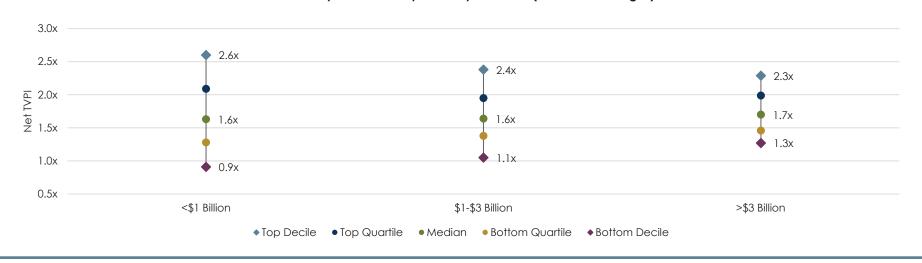
#### Return Dispersion by Strategy (1998-2018 Vintages)



◆Top Decile 
●Top Quartile 
●Median 
●Bottom Quartile 
◆Bottom Decile

Fund Size – Be flexible; do not sacrifice on manager quality

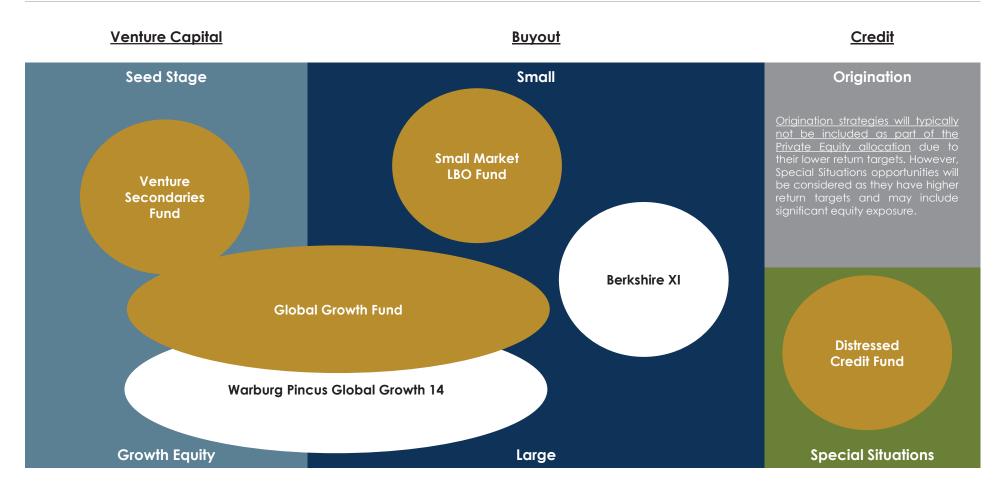
#### Buyout Return Dispersion by Fund Size (1998-2018 Vintages)



Sources: PitchBook, eVestment, ACG Research

Note: Vintage year return data represents the median since inception return for each strategy in each vintage, as of the most recent date available. Strategy and Fund Size quartile data shown as of the most recent date available.

# Private Equity Portfolio Diversification



- The institutional private equity investment opportunity set includes thousands of funds across hundreds of sub-strategies. This universe can be categorized into three broad sectors: **Venture Capital**, **Buyout**, **and Private Credit**.
- The goal is to **build a diversified portfolio** of private equity managers that address each of these sectors.
- Prudent diversification is a key risk mitigating factor.

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# OkMRF Private Equity Commitment Pacing Plan

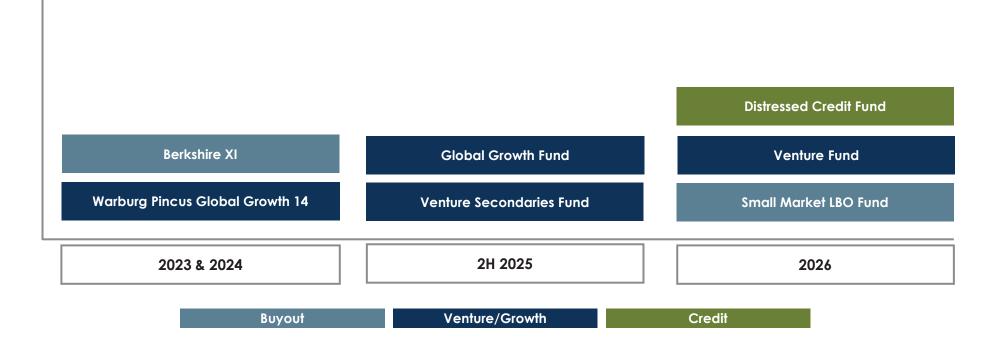
	<u>Present</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	2028	2029		
							Total	Average
Target Commitment Schedule		\$ 20,000,000	\$15,000,000	\$ 15,000,000	\$ 15,000,000	\$ 15,000,000	\$ 80,000,000	\$ 16,000,000
Projected Private Equity Cashflow with New Commitments								
Projected Contributions		-8,200,000	-10,900,000	-11,850,000	-13,450,000	-13,850,000		
Projected Distributions		139,769	745,031	2,849,448	6,944,877	11,841,364		
Projected Net Cash Flows		-8,060,231	-10,154,969	-9,000,552	-6,505,123	-2,008,636		
Projected Cumulative Net Cash Flows (Over Next 5 Years)		-8,060,231	-18,215,200	-27,215,752	-33,720,875	-35,729,512		
Projected Private Equity Market Value	12,042,451	17,521,181	29,422,400	41,154,452	50,984,325	59,611,712		
Projected Corporate Finance %		93%	86%	82%	78%	78%		
Projected Venture Capital and Growth Equity %		7%	14%	18%	22%	22%		
Current / Projected Total Portfolio Value	775,992,000	799,271,760	823,249,913	847,947,410	873,385,832	899,587,407		
Current / Projected Private Equity Portfolio Weight	1.6%	2.2%	3.6%	4.9%	5.8%	6.6%		

- As of December 31, 2024, private equity exposure is 1.6%. The private equity program is almost two years old, but it will still take multiple years from here to reach the 5% private equity target allocation.
- Time or **vintage year diversification is an important private equity portfolio risk control**. Spreading commitments over multiple years reduces the chance that a portfolio experiences a dramatic negative impact from an inopportune entry point.
- Two planned 2025 commitments totaling \$20 million will help build exposure.
- The **recommended commitment pace will be adjusted annually** to reflect the current value of the Total Portfolio, market conditions and any prior private equity commitments.

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## Private Equity Manager Pipeline

- With a commitment budget of \$20 million in 2025 and \$15 million in 2026, the **baseline plan includes four commitments of \$7.5 to \$10 million each** over the next two years.
- Future commitments will focus on building **strategy**, **time and manager diversification** and allow flexibility to take advantage of high quality investment opportunities when available.
- Highly successful fund managers most often open and close to investors quickly. It is important to remain nimble in order to take advantage of access dynamics.



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**Monthly ASAP Report** 

January 31, 2025



2018 2019 2020 2021 2022 **2023** 

We are proud to announce that ACG has again been named a Greenwich Associates

Quality Leader - recognized as one of the top consultants in the industry.

Methodology and Disclosure: Between February and November 2023, Coalition Greenwich conducted interviews with 708 individuals from 575 of the largest tax-exempt funds in the United States. These U.S.-based institutional investors are corporate, public, union, and endowment and foundation funds with either pension or investment pool assets greater than \$150 million. Study participants were asked to provide quantitative and qualitative evaluations of their asset management and investment consulting providers, including qualitative assessments of those firms soliciting their business and detailed information on important market trends. ACG is one of three firms recognized in the mid-size investment consultant category. The ratings may not be representative of any one client's experience with ACG; rather they are representative of those clients that chose to participate in the survey. The results are not indicative of ACG's future performance. ACG does not pay to have its clients participate in the study.



Market Snapshot January 31, 2025

#### **Economic Overview**

- US GDP grew at a healthy 2.3% annualized rate in the 4th guarter, slightly less than expected and a slowdown from the 3rd guarter's 3.1% rate
- The FOMC held its benchmark rate at 4.25% 4.50%, as expected, and market expectations are for another pause at the March meeting
- Economic news largely supported the Fed pause, as unemployment fell to 4.1% while core CPI cooled slightly but remains above target at 3.2%

#### **Market Returns**

- Tech stocks lagged as a new Chinese AI competitor emerged
- Non-US equity led on low tech exposure and weaker dollar



Source: Bloomberg, ACG Research (as of 1/31/2025)

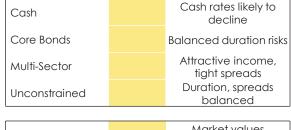
#### Fixed Income and Equity Valuation Metrics



#### Asset Class Valuations - Rebalancing Rationale

- Equities are discounting a soft landing and continued easing monetary policy
- Upside for duration limited with additional Fed cuts already discounted by markets
- Cash yields set to fall as Fed continues easing

Asset Class	Current Valuation	Rationale
US Large Cap		Expensive valuations
US Small Cap		Balanced upside/downside risks
Int'l Developed		Fair valuations, mixed growth across regions
Emerging Mkt		Balanced upside/downside risks



Core Real Estate	Market values stabilizing

Fairly Valued Overvalued Undervalued

#### Recent Articles (click on links below)

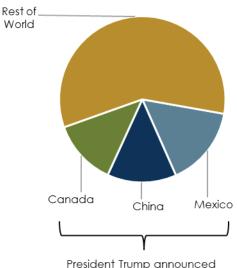
- 2025 Outlook (January)
- Has Real Estate Hit Bottom? (September)
- The Evolution of Private Wealth (April)

#### **Key Risk Factors We Are Watching**

- Stronger inflation and labor market data
- Rising headwinds for consumers (higher rates, student loan repayments, depleted savings...)
- Potential Fed policy error
- Headwinds to corporate earnings
- US policy uncertainty and rising geopolitical tensions
- Weaker than expected China recovery

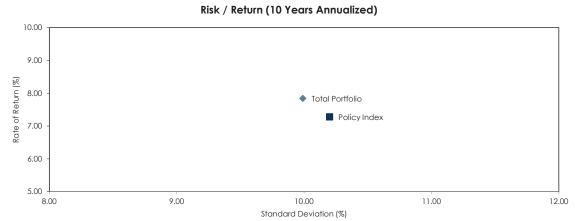
#### **Announced Tariffs Would Have Significant Impact**

#### Total Share of US Imports, Last 12 Months



25% tariffs on imports from Mexico and Canada and 10% tariffs on Chinese imports

Source: US Census Bureau(as of 1/31/2025)



Return Statistics (10 Years Annualized)							
	Total Portfolio	Policy Index					
Return (%)	7.84	7.28					
Standard Deviation (%)	9.99	10.20					
Sharpe Ratio	0.61	0.54					
Benchmark Rela	ative Statistics						
Beta		0.97					
Up Capture (%)		98.77					
Down Capture (%)		94.23					

Asset Class	Market Value	Actual Allocation	Target Allocation	Over/ Under	
	(\$000s)	(%)	(%)	(%)	
Total Portfolio	793,525	100.00	100.00		
Equity	520,364	65.58	65.00	0.58	
US Equity	297,729	37.52	35.00	2.52	
US Large Cap Equity	212,168	26.74	25.00	1.74	
US Small/Mid Cap Equity	85,561	10.78	10.00	0.78	
Non US Equity	209,594	26.41	25.00	1.41	
Int'l Developed Markets Equity	170,957	21.54	20.00	1.54	
Emerging Markets Equity	38,636	4.87	5.00	-0.13	
Global Long/Short Equity	199	0.03	0.00	0.03	
Private Equity	12,842	1.62	5.00	-3.38	
Fixed Income	152,571	19.23	20.00	-0.77	
Real Assets	106,407	13.41	15.00	-1.59	
Cash and Equivalents	14,184	1.79	0.00	1.79	

	Market Value (\$000s)	Actual Allocation (%)	1 Month (%)	FYTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
OMRF Total Portfolio	1,251,562								
Total Portfolio (04/91) Net of All Fees *	793,525	100.00	2.46 2.40	7.28 6.85	14.38 13.57	5.29 4.55	7.86 7.15	7.22 6.51	7.84 7.13
Policy Index <sup>1</sup>			2.29	6.55	13.23	4.64	7.32	6.55	7.28
Equity (10/10) Net of All Fees *	520,364	65.58	3.51 3.47	9.22 8.95	20.51 20.00	8.47 8.02	11.26 10.81	9.65 9.19	10.41 9.92
MSCI ACWI NetDiv			3.36	9.10	20.72	8.41	11.04	8.86	9.77
US Equity (06/00) Net of All Fees *	297,729	37.52	2.90 2.88	12.35 12.19	24.70 24.41	11.17 10.90	14.20 13.91	12.61 12.31	12.87 12.56
Russell 3000			3.16	12.47	26.32	11.36	14.60	12.83	13.21
US Large Cap Equity SSgA S&P 500 Non-Lending (02/10) Net of Manager Fees *	212,168	26.74	2.79 2.78 2.78	<b>11.46 11.45</b> <i>11.</i> 46	<b>26.37 26.36</b> 26.38	<b>11.92</b> <b>11.91</b>	15.16 15.15 15.17	<b>13.39 13.37</b> <i>13.38</i>	<b>13.79 13.76</b> 13.76
HC Con all /Atid Con Facility									
US Small/Mid Cap Equity River Road (V) (04/16) Net of Manager Fees *	43,095	5.43	2.88 2.81	16.48 15.88	21.44 20.35	11.44 10.45	11.86 10.85	10.56 9.58	
Russell 2000 Value William Blair (G) (11/22) Net of Manager Fees *	42,466	5.35	2.05 <b>3.49</b> <b>3.42</b>	11.22 <b>14.35</b> <b>13.78</b>	15.52 <b>18.55</b> <b>17.54</b>	4.71  	8.93  	6.25 	7.82 
Russell 2500 Growth			3.82	13.78	20.99	6.13	8.87	8.68	10.04

	Market Value (\$000s)	Actual Allocation (%)	1 Month (%)	FYTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
Non US Equity (06/00)	209,594	26.41	4.62	4.54	14.51	4.45	8.06	6.14	7.97
Net of All Fees *			4.56	4.11	13.71	3.71	7.27	5.35	7.14
MSCI ACWI ex US NetDiv			4.03	3.88	10.89	3.45	5.50	3.31	5.23
Artisan International Value (05/10)	58,637	7.39	4.04	5.20	12.34	9.59	11.81	8.42	9.36
Net of Manager Fees *			3.95	4.58	11.20	8.48	10.67	7.32	8.25
MSCI EAFE NetDiv			5.26	3.74	8.65	5.12	6.25	4.14	5.69
Ninety One International Dynamic Fund (03/15)	57,817	7.29	4.90	3.29	14.06	4.08	6.85	4.51	
Net of Manager Fees *			4.87	3.10	13.68	3.74	6.50	4.15	
MSCI ACWI ex US NetDiv			4.03	3.88	10.89	3.45	5.50	3.31	5.23
WCM Focused Int'l Growth (03/15)	54,504	6.87	7.50	5.32	13.88	4.28	9.58	9.63	
Net of Manager Fees *	- 1,00		7.44	4.90	13.09	3.55	8.83	8.88	
MSCI ACWI ex US NetDiv			4.03	3.88	10.89	3.45	5.50	3.31	5.23
Axiom Emerging Markets (02/23)	38,636	4.87	1.22	4.31	19.63				
Net of Manager Fees *			1.16	3.86	18.74				
MSCI EM NetDiv			1.79	1.80	14.75	-0.71	3.04	0.48	3.76
Global Long/Short Equity (09/11)	199	0.03							
Private Equity (05/23) *	12,842	1.62	-0.05	7.70	15.88				
Fixed Income (06/03)	152,571	19.23	0.85	4.21	5.22	1.42	2.03	2.97	2.93
Net of All Fees *			0.82	4.01	4.86	1.07	1.70	2.65	2.64
Bloomberg US Aggregate			0.53	2.52	2.07	-1.52	-0.60	1.21	1.19
JP Morgan Fixed Income (06/91)	47,221	5.95	0.59	2.90	2.88	-0.74	0.22	1.93	1.92
Net of Manager Fees *			0.58	2.81	2.73	-0.89	0.07	1.78	1.77
Bloomberg US Aggregate			0.53	2.52	2.07	-1.52	-0.60	1.21	1.19
Amundi Pioneer Core Plus Bond Fund (11/11)	49,960	6.30	0.94	4.78	5.83	1.13	2.25	3.05	3.21
Net of Manager Fees *			0.92	4.62	5.57	0.88	1.99	2.79	2.95
Bloomberg Universal			0.60	2.94	2.90	-1.03	-0.18	1.51	1.60
BlackRock Strategic Income Opps (07/17)	55,389	6.98	0.99	5.00	6.70	3.49	3.64	3.69	
Net of Manager Fees *	,		0.94	4.65	6.10	2.90	3.05	3.10	
Bloomberg US Aggregate			0.53	2.52	2.07	-1.52	-0.60	1.21	1.19

	Market Value (\$000s)	Actual Allocation (%)	1 Month (%)	FYTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
Real Assets									
Real Estate (09/11)	106,407	13.41	0.03	1.36	-3.36	-4.59	1.86	3.30	5.73
Net of All Fees *			-0.03	0.74	-4.47	-5.74	0.63	2.05	4.45
NFI ODCE N	et		0.00	0.98	-2.27	-3.14	1.99	3.08	4.94
JP Morgan Special Situation Property (02/07)	18,039	2.27	-0.32	-0.13	-10.09	-11.78	-2.22	0.72	4.47
Net of Manager Fees *			-0.47	-1.02	-11.45	-13.15	-3.74	-0.85	2.85
NFI ODCE N	et		0.00	0.98	-2.27	-3.14	1.99	3.08	4.94
JP Morgan Strategic Property (05/07)	30,114	3.80	0.28	2.89	-1.30	-4.43	1.54	2.80	4.97
Net of Manager Fees *			0.19	2.29	-2.28	-5.38	0.53	1.79	3.93
NFI ODCE N	et		0.00	0.98	-2.27	-3.14	1.99	3.08	4.94
Clarion Lion Industrial Trust (07/22)	28,254	3.56	0.00	1.26	-0.22				
Net of Manager Fees *			0.00	0.62	-1.48				
NFI ODCE N	et		0.00	0.98	-2.27	-3.14	1.99	3.08	4.94
Morgan Stanley Prime Property (01/25)	30,000	3.78	0.00						
Net of Manager Fees *			0.00						
NFI ODCE N	et		0.00	0.98	-2.27	-3.14	1.99	3.08	4.94
Cash and Equivalents									
Northern Trust Miscellaneous Assets (07/03)	11,936	1.50	0.35	2.80	4.99	3.86	2.35	2.21	1.64
Residual Manager Cash <sup>2</sup>	2,248	0.28							

<sup>\*</sup> The net of all fees includes administrative costs, custodial fees, transaction costs, and investment manager fees associated with the fund. The net of all fee calculation began January 1, 2011.

The net of manager fees includes the investment manager fees and transaction costs associated with each portfolio. The net of manager fee calculation began January 1, 2011.

<sup>1</sup> Policy Index: Effective March 2024, the index consists of 65.00% MSCI ACWI NetDiv, 20.00% Bloomberg US Aggregate, 15.00% NFI ODCE Net.

<sup>2</sup> Residual Manager Cash includes cash held in the Large Cap Equity, Small/Mid Cap Equity, Non US Equity, Global Long/Short, Fixed Income and Real Assets holding accounts. Fiscal year end is June.

# **Private Equity**

For the Period Ending January 31, 2025

#### Summary of Cash Flows for 1 Month

Cash Outflows	Cash Inflows	Net Cash Flows
-800,000		-800,000

Summary of Portfolio Inception to Date

	Inception		Drawn	Remaining	Distributions	Adjusted		Total Value to	Annualized
	Date	Committed	to Date	Commitment	to Date	Ending Value	Total Value	Paid-in	IRR (%)
Total	Apr-23	35,000,000	11,750,000	23,250,000	641,800	12,842,451	13,484,251	1.15x	12.04
Warburg Pincus Global Growth 14	Apr-23	20,000,000	11,750,000	8,250,000	641,800	12,842,451	13,484,251	1.15x	12.04
Berkshire XI		15,000,000	-	15,000,000	-	-	-	-	NM

#### Cash Flow Activity for 1 Month

Fund Name	Date	Transaction Type	Cash Outflows	Cash Inflows	Net Cash Flows
Total			-800,000		-800,000
Warbura Pincus Global Growth 14	1/22/2025	Capital Call	-800,000	-	

**Market Overview**For the Periods Ending January 31, 2025

US Equity Markets Value  Russell 1000 Value	(%)	Years	Years	Years	10 Years
Russell 1000 Value		(%)	(%)	(%)	(%)
S&P 500 Value   2.89   9.21     Russell 2000 Value   2.05   11.22     US Equity Markets Core					
Russell 2000 Value       2.05       11.22         US Equity Markets Core         \$\text{SP} 500       2.78       11.46         Russell 1000       3.18       12.46         Russell 2000       2.62       12.51         Russell 2500       3.54       13.30         US Equity Markets Growth         Russell 1000 Growth       1.98       12.67         \$\text{SP} 500 Growth       2.68       13.08         Russell 2000 Growth       3.16       13.74         NASDAQ Comp       1.64       10.69         Non US Equity Markets         MSCI EAFE NetDiv       5.26       3.74         MSCI EAFE NetDiv       4.03       3.88         MSCI ACWI ex US NetDiv       4.03       3.88         MSCI World NetDiv       3.53       9.94         S&P EPAC LargeMidCap       5.18       3.19         Fixed Income         Bloomberg Intermediate G/C       0.57       3.09         Bloomberg Govt/Credit       0.53       2.41         Bloomberg Us Aggregate       0.53       2	19.54	8.08	10.15	8.53	9.42
S&P 500   2.78   11.46     Russell 1000   3.18   12.46     Russell 2000   2.62   12.51     Russell 2500   3.54   13.30     US Equity Markets Growth   1.98   12.67     S&P 500 Growth   2.68   13.08     Russell 2000 Growth   3.16   13.74     NASDAQ Comp   1.64   10.69     Non US Equity Markets     MSCI EAFE NetDiv   5.26   3.74     MSCI ACWI ex US NetDiv   4.03   3.88     MSCI World NetDiv   3.53   9.94     S&P EPAC LargeMidCap   5.18   3.19     Fixed Income     Bloomberg Intermediate G/C   0.57   3.09     Bloomberg Govt/Credit   0.53   2.41     Bloomberg US Aggregate   0.53   2.52     Citigroup Broad Investment Grd   0.52   2.54     JPM Gov't ex US UnH   0.44   0.84     FTSE High-Yield Market   1.46   7.12	15.19	10.81	11.72	10.04	10.82
S&P 500   2.78   11.46     Russell 1000   3.18   12.46     Russell 2000   2.62   12.51     Russell 2500   3.54   13.30     US Equity Markets Growth     Russell 1000 Growth   1.98   12.67     S&P 500 Growth   2.68   13.08     Russell 2000 Growth   3.16   13.74     NASDAQ Comp   1.64   10.69     Non US Equity Markets     MSCI EAFE NetDiv   5.26   3.74     MSCI ACWI ex US NetDiv   4.03   3.88     MSCI World NetDiv   3.53   9.94     S&P EPAC LargeMidCap   5.18   3.19     Fixed Income     Bloomberg Intermediate G/C   0.57   3.09     Bloomberg Govt/Credit   0.53   2.41     Bloomberg US Aggregate   0.53   2.52     Citigroup Broad Investment Grd   0.52   2.54     JPM Gov't ex US UnH   0.44   0.84     FTSE High-Yield Market   1.46   7.12	15.52	4.71	8.93	6.25	7.82
S&P 500       2.78       11.46         Russell 1000       3.18       12.46         Russell 2000       2.62       12.51         Russell 2500       3.54       13.30         US Equity Markets Growth         Russell 1000 Growth       1.98       12.67         S&P 500 Growth       2.68       13.08         Russell 2000 Growth       3.16       13.74         NASDAQ Comp       1.64       10.69         Non US Equity Markets         MSCI EAFE NetDiv       5.26       3.74         MSCI ACWI ex US NetDiv       4.03       3.88         MSCI World NetDiv       3.53       9.94         S&P EPAC LargeMidCap       5.18       3.19         Fixed Income         Bloomberg Intermediate G/C       0.57       3.09         Bloomberg Govt/Credit       0.53       2.41         Bloomberg US Aggregate       0.53       2.52         Citigroup Broad Investment Grd       0.52       2.54         JPM Gov't ex US UnH       0.44       0.84         FTSE High-Yield Market       1.46       7.12					
Russell 2000       2.62       12.51         Russell 2500       3.54       13.30         US Equity Markets Growth         Russell 1000 Growth       1.98       12.67         \$&P 500 Growth       2.68       13.08         Russell 2000 Growth       3.16       13.74         NASDAQ Comp       1.64       10.69         Non US Equity Markets         MSCI EAFE NetDiv       5.26       3.74         MSCI ACWI ex US NetDiv       4.03       3.88         MSCI World NetDiv       3.53       9.94         \$&P EPAC LargeMidCap       5.18       3.19         Fixed Income         Bloomberg Intermediate G/C       0.57       3.09         Bloomberg Govt/Credit       0.53       2.41         Bloomberg US Aggregate       0.53       2.52         Citigroup Broad Investment Grd       0.52       2.54         JPM Gov't ex US UnH       0.44       0.84         FTSE High-Yield Market       1.46       7.12	26.38	11.91	15.17	13.38	13.76
Russell 2500       3.54       13.30         US Equity Markets Growth         Russell 1000 Growth       1.98       12.67         \$&P 500 Growth       2.68       13.08         Russell 2000 Growth       3.16       13.74         NASDAQ Comp       1.64       10.69         Non US Equity Markets         MSCI EAFE NetDiv       5.26       3.74         MSCI ACWI ex US NetDiv       4.03       3.88         MSCI World NetDiv       3.53       9.94         \$&P EPAC LargeMidCap       5.18       3.19         Fixed Income         Bloomberg Intermediate G/C       0.57       3.09         Bloomberg Govt/Credit       0.53       2.41         Bloomberg US Aggregate       0.53       2.52         Citigroup Broad Investment Grd       0.52       2.54         JPM Gov't ex US UnH       0.44       0.84         FTSE High-Yield Market       1.46       7.12	26.71	11.69	14.97	13.22	13.54
Russell 1000 Growth   1.98   12.67	19.09	5.62	8.67	6.91	8.45
Russell 1000 Growth 1.98 12.67	19.08	6.63	9.98	8.40	9.45
S&P 500 Growth       2.68       13.08         Russell 2000 Growth       3.16       13.74         NASDAQ Comp       1.64       10.69         Non US Equity Markets         MSCI EAFE NetDiv       5.26       3.74         MSCI ACWI ex US NetDiv       4.03       3.88         MSCI World NetDiv       3.53       9.94         S&P EPAC LargeMidCap       5.18       3.19         Fixed Income         Bloomberg Intermediate G/C       0.57       3.09         Bloomberg Govt/Credit       0.53       2.41         Bloomberg US Aggregate       0.53       2.52         Citigroup Broad Investment Grd       0.52       2.54         JPM Gov't ex US UnH       0.44       0.84         FTSE High-Yield Market       1.46       7.12					
Russell 2000 Growth NASDAQ Comp       3.16       13.74         NON US Equity Markets       MSCI EAFE NetDiv       5.26       3.74         MSCI ACWI ex US NetDiv       4.03       3.88         MSCI World NetDiv       3.53       9.94         S&P EPAC LargeMidCap       5.18       3.19         Fixed Income         Bloomberg Intermediate G/C Bloomberg Govt/Credit       0.57       3.09         Bloomberg Govt/Credit       0.53       2.41         Bloomberg US Aggregate       0.53       2.52         Citigroup Broad Investment Grd       0.52       2.54         JPM Gov't ex US UnH       0.44       0.84         FTSE High-Yield Market       1.46       7.12	32.68	14.57	18.90	17.26	17.18
Non US Equity Markets         MSCI EAFE NetDiv       5.26       3.74         MSCI ACWI ex US NetDiv       4.03       3.88         MSCI World NetDiv       3.53       9.94         S&P EPAC LargeMidCap       5.18       3.19         Fixed Income         Bloomberg Intermediate G/C       0.57       3.09         Bloomberg Govt/Credit       0.53       2.41         Bloomberg US Aggregate       0.53       2.52         Citigroup Broad Investment Grd       0.52       2.54         JPM Gov't ex US UnH       0.44       0.84         FTSE High-Yield Market       1.46       7.12	35.80	11.86	17.18	15.63	15.79
Non US Equity Markets   S.26   3.74     MSCI EAFE NetDiv   5.26   3.74     MSCI ACWI ex US NetDiv   4.03   3.88     MSCI World NetDiv   3.53   9.94     S&P EPAC LargeMidCap   5.18   3.19     Fixed Income   Sloomberg Intermediate G/C   0.57   3.09     Bloomberg Govt/Credit   0.53   2.41     Bloomberg US Aggregate   0.53   2.52     Citigroup Broad Investment Grd   0.52   2.54     JPM Gov't ex US UnH   0.44   0.84     FTSE High-Yield Market   1.46   7.12	22.73	6.23	7.76	7.06	8.68
MSCI EAFE NetDiv       5.26       3.74         MSCI ACWI ex US NetDiv       4.03       3.88         MSCI World NetDiv       3.53       9.94         S&P EPAC LargeMidCap       5.18       3.19         Fixed Income         Bloomberg Intermediate G/C       0.57       3.09         Bloomberg Govt/Credit       0.53       2.41         Bloomberg US Aggregate       0.53       2.52         Citigroup Broad Investment Grd       0.52       2.54         JPM Gov't ex US UnH       0.44       0.84         FTSE High-Yield Market       1.46       7.12	29.43	11.29	16.49	14.93	15.53
MSCI ACWI ex US NetDiv       4.03       3.88         MSCI World NetDiv       3.53       9.94         S&P EPAC LargeMidCap       5.18       3.19         Fixed Income         Bloomberg Intermediate G/C       0.57       3.09         Bloomberg Govt/Credit       0.53       2.41         Bloomberg US Aggregate       0.53       2.52         Citigroup Broad Investment Grd       0.52       2.54         JPM Gov't ex US UnH       0.44       0.84         FTSE High-Yield Market       1.46       7.12					
MSCI World NetDiv 3.53 9.94 \$\$&P EPAC LargeMidCap 5.18 3.19  Fixed Income  Bloomberg Intermediate G/C 0.57 3.09 Bloomberg Govt/Credit 0.53 2.41 Bloomberg US Aggregate 0.53 2.52 Citigroup Broad Investment Grd 0.52 2.54 JPM Gov't ex US UnH 0.44 0.84 FTSE High-Yield Market 1.46 7.12	8.65	5.12	6.25	4.14	5.69
S&P EPAC LargeMidCap 5.18 3.19  Fixed Income  Bloomberg Intermediate G/C 0.57 3.09 Bloomberg Govt/Credit 0.53 2.41 Bloomberg US Aggregate 0.53 2.52 Citigroup Broad Investment Grd 0.52 2.54 JPM Gov't ex US UnH 0.44 0.84 FTSE High-Yield Market 1.46 7.12	10.89	3.45	5.50	3.31	5.23
Fixed Income  Bloomberg Intermediate G/C 0.57 3.09 Bloomberg Govt/Credit 0.53 2.41 Bloomberg US Aggregate 0.53 2.52 Citigroup Broad Investment Grd 0.52 2.54 JPM Gov't ex US UnH 0.44 0.84 FTSE High-Yield Market 1.46 7.12	21.40	9.54	12.08	9.98	10.53
Bloomberg Intermediate G/C 0.57 3.09 Bloomberg Govt/Credit 0.53 2.41 Bloomberg US Aggregate 0.53 2.52 Citigroup Broad Investment Grd 0.52 2.54 JPM Gov't ex US UnH 0.44 0.84 FTSE High-Yield Market 1.46 7.12	8.75	5.04	6.53	4.38	6.08
Bloomberg Govt/Credit 0.53 2.41 Bloomberg US Aggregate 0.53 2.52 Citigroup Broad Investment Grd 0.52 2.54 JPM Gov't ex US UnH 0.44 0.84 FTSE High-Yield Market 1.46 7.12					
Bloomberg US Aggregate 0.53 2.52 Citigroup Broad Investment Grd 0.52 2.54  JPM Gov't ex US UnH 0.44 0.84  FTSE High-Yield Market 1.46 7.12	3.37	0.51	0.69	1.90	1.60
Citigroup Broad Investment Grd 0.52 2.54  JPM Gov't ex US UnH 0.44 0.84  FTSE High-Yield Market 1.46 7.12	1.95	-1.61	-0.58	1.36	1.29
JPM Gov't ex US UnH 0.44 0.84 FTSE High-Yield Market 1.46 7.12	2.07	-1.52	-0.60	1.21	1.19
FTSE High-Yield Market 1.46 7.12	2.07	-1.60	-0.63	1.22	1.20
· · · · · · · · · · · · · · · · · · ·	-4.54	-8.34	-5.74	-3.94	-1.72
	10.00	4.56	4.51	4.71	5.13
FTSE World Govt Bond 0.46 1.61	-0.88	-5.01	-3.30	-1.69	-0.48
US T-Bills 90 Day 0.37 2.93	5.19	4.02	2.51	2.39	1.80
FTSE 1 Yr T-Bill 0.33 3.17	4.80	3.10	2.11	2.22	1.70

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# Oklahoma Municipal Retirement Fund Defined Contribution Plan

**Monthly ASAP Report** 

January 31, 2025



2018 2019 2020 2021 2022 **2023** 

We are proud to announce that ACG has again been named a Greenwich Associates

Quality Leader - recognized as one of the top consultants in the industry.

Methodology and Disclosure: Between February and November 2023, Coalition Greenwich conducted interviews with 708 individuals from 575 of the largest tax-exempt funds in the United States. These U.S.-based institutional investors are corporate, public, union, and endowment and foundation funds with either pension or investment pool assets greater than \$150 million. Study participants were asked to provide quantitative and qualitative evaluations of their asset management and investment consulting providers, including qualitative assessments of those firms soliciting their business and detailed information on important market trends. ACG is one of three firms recognized in the mid-size investment consultant category. The ratings may not be representative of any one client's experience with ACG; rather they are representative of those clients that chose to participate in the survey. The results are not indicative of ACG's future performance. ACG does not pay to have its clients participate in the study.



Market Snapshot January 31, 2025

#### **Economic Overview**

- US GDP grew at a healthy 2.3% annualized rate in the 4th guarter, slightly less than expected and a slowdown from the 3rd guarter's 3.1% rate
- The FOMC held its benchmark rate at 4.25% 4.50%, as expected, and market expectations are for another pause at the March meeting
- Economic news largely supported the Fed pause, as unemployment fell to 4.1% while core CPI cooled slightly but remains above target at 3.2%

#### **Market Returns**

- Tech stocks lagged as a new Chinese AI competitor emerged
- Non-US equity led on low tech exposure and weaker dollar



Source: Bloomberg, ACG Research (as of 1/31/2025)

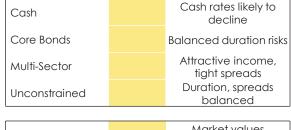
#### Fixed Income and Equity Valuation Metrics



#### Asset Class Valuations - Rebalancing Rationale

- Equities are discounting a soft landing and continued easing monetary policy
- Upside for duration limited with additional Fed cuts already discounted by markets
- Cash yields set to fall as Fed continues easing

Asset Class	Current Valuation	Rationale
US Large Cap		Expensive valuations
US Small Cap		Balanced upside/downside risks
Int'l Developed		Fair valuations, mixed growth across regions
Emerging Mkt		Balanced upside/downside risks



Core Real Estate	Market values stabilizing

Fairly Valued Overvalued Undervalued

#### Recent Articles (click on links below)

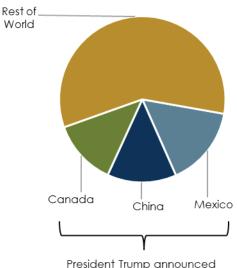
- 2025 Outlook (January)
- Has Real Estate Hit Bottom? (September)
- The Evolution of Private Wealth (April)

#### **Key Risk Factors We Are Watching**

- Stronger inflation and labor market data
- Rising headwinds for consumers (higher rates, student loan repayments, depleted savings...)
- Potential Fed policy error
- Headwinds to corporate earnings
- US policy uncertainty and rising geopolitical tensions
- Weaker than expected China recovery

#### **Announced Tariffs Would Have Significant Impact**

#### Total Share of US Imports, Last 12 Months



25% tariffs on imports from Mexico and Canada and 10% tariffs on Chinese imports

Source: US Census Bureau(as of 1/31/2025)

		Market Value (\$000s)	Actual Allocation (%)	1 Month (%)	FYTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
Total Investment Options (ex. other ass	ets)	195,387	42.66							
Growth and Value Option (06/00) Net of All Fees *	S&P 500	30,244	6.60	<b>3.38 3.36</b> 2.78	11.19 11.05 11.46	<b>25.35 25.07</b> 26.38	11.37 11.13 11.91	15.06 14.80 15.17	<b>13.30</b> <b>13.04</b> 13.38	<b>13.88 13.58</b> <i>13.76</i>
Vanguard Windsor II (V) (06/03) Net of Manager Fees *	Russell 1000 Value	7,675	1.68	<b>4.56 4.53</b> 4.63	<b>8.78</b> <b>8.61</b> 12.23	18.66 18.36 19.54	<b>9.23</b> <b>8.95</b> 8.08	13.84 13.54 10.15	11.38 11.09 8.53	11.69 11.39 9.42
Vanguard Total Stock (C) (02/08) Net of Manager Fees *	S&P 500	15,085	3.29	<b>3.09 3.09</b> 2.78	<b>12.34</b> <b>12.32</b> 11.46	<b>26.20 26.16</b> 26.38	<b>11.28</b> <b>11.25</b>	14.58 14.54 15.17	<b>12.81</b> <b>12.78</b> 13.38	<b>13.22 13.18</b> <i>13.76</i>
T. Rowe Price (G) (07/21)  Net of Manager Fees *  Ru	ussell 1000 Growth	7,484	1.63	<b>2.75</b> <b>2.70</b> 1.98	11.10 10.74 12.67	<b>30.21 29.48</b> 32.68	<b>13.16</b> <b>12.53</b> <i>14.57</i>	  18.90	  17.26	  17.18
S&P 500 Option										
SSgA S&P 500 Option Non-Lending (02/10 Net of Manager Fees *	S&P 500	48,789	10.65	<b>2.78 2.78</b> 2.78	<b>11.46</b> <b>11.45</b> 11.46	<b>26.38 26.35</b> 26.38	<b>11.91</b> <b>11.88</b> 11.91	<b>15.16 15.13</b> <i>15.17</i>	<b>13.35 13.32</b> <i>13.38</i>	<b>13.76 13.71</b> <i>13.76</i>
Aggressive Equity Option (06/00) Net of All Fees *	Russell 2000 Russell 2500	20,096	4.39	3.93 3.89 2.62 3.54	14.59 14.28 12.51 13.30	<b>20.36 19.79</b> 19.09 19.08	<b>8.17 7.64</b> 5.62 6.63	11.48 10.91 8.67 9.98	<b>9.54</b> <b>8.98</b> 6.91 8.40	10.34 9.71 8.45 9.45
Integrity Small Cap Value (V) (09/15) Net of Manager Fees *	Russell 2000 Value	4,946	1.08	1.89 1.81 2.05	<b>6.90</b> <b>6.31</b> 11.22	11.07 10.01 15.52	<b>7.48</b> <b>6.45</b> 4.71	<b>11.83</b> <b>10.77</b> 8.93	<b>7.63 6.61</b> 6.25	  7.82
SSgA Russell Small Cap Completeness For Net of Manager Fees * Russell Small C	ap Completeness	10,146	2.22	<b>5.16 5.16</b> 5.16	<b>18.67</b> <b>18.64</b> <i>18.70</i>	<b>26.11 26.04</b> 26.12	<b>8.34</b> <b>8.27</b> 8.26	<b>11.56</b> <b>11.48</b> 11.52	<b>9.86</b> <b>9.78</b> 9.85	<b>10.46 10.38</b> <i>10.47</i>
William Blair (G) (11/22) Net of Manager Fees *	ussell 2500 Growth	5,004	1.09	<b>3.49</b> <b>3.42</b> 3.82	<b>14.35</b> <b>13.79</b> 13.78	<b>18.55 17.55</b> 20.99	  6.13	  8.87	  8.68	  10.04

	Market Value (\$000s)	Actual Allocation (%)	1 Month (%)	FYTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
International Investment Equity Option (06/00) Net of All Fees *  MSCI ACWI ex	<b>9,263</b> US NetDiv	2.02	<b>3.09 3.03</b> 4.03	<b>4.09 3.68</b> 3.88	<b>13.00 12.25</b> 10.89	3.05 2.33 3.45	<b>6.32 5.55</b> 5.50	<b>4.17 3.39</b> 3.31	<b>6.74 5.92</b> 5.23
Artisan International Value (05/10)  Net of Manager Fees *  MSCI EA	<b>2,351</b> AFE NetDiv	0.51	<b>4.04 3.95</b> 5.26	<b>5.20 4.58</b> 3.74	12.34 11.20 8.65	<b>9.59</b> <b>8.47</b> 5.12	11.80 10.67 6.25	8.40 7.31 4.14	<b>9.36</b> <b>8.24</b> 5.69
SSgA Global Equity ex US (11/14) Net of Manager Fees *  MSCI ACWI ex	<b>2,336</b> US NetDiv	0.51	<b>3.92 3.91</b> 4.03	<b>3.60 3.54</b> 3.88	11.15 11.05 10.89	3.33 3.23 3.45	<b>5.90 5.80</b> 5.50	<b>3.54 3.42</b> 3.31	<b>5.54 5.40</b> 5.23
Harding Loevner International Equity (07/16)  Net of Manager Fees *  MSCI ACWI ex	<b>2,309</b> US NetDiv	0.50	<b>3.14 3.07</b> 4.03	2.93 2.44 3.88	<b>8.71 7.83</b> 10.89	1.43 0.60 3.45	<b>6.08 5.22</b> 5.50	<b>4.57 3.72</b> 3.31	  5.23
Axiom Emerging Markets (02/23) Net of Manager Fees *	2,267 EM NetDiv	0.49	1.22 1.16	<b>4.30</b> <b>3.84</b> 1.80	19.62 18.72 14.75	  -0.71	3.04	  0.48	  3.76
Global Equity Option									
SSgA Global Equity NL (11/15)  Net of Manager Fees *  MSCI AC	<b>13,395</b> WI NetDiv	2.92	<b>3.38 3.37</b> 3.36	<b>9.20 9.13</b> 9.10	<b>21.19 21.07</b> 20.72	<b>8.68</b> <b>8.58</b> 8.41	11.58 11.46 11.04	<b>9.34</b> <b>9.20</b> 8.86	  9.77
ESG U.S. Stock Fund Option									
Calvert Equity Fund (04/20) Net of Manager Fees * Reference	<b>1,757</b> ussell 1000	0.38	<b>4.59</b> <b>4.53</b> 3.18	<b>8.08</b> <b>7.66</b> 12.46	<b>14.14 13.38</b> 26.71	<b>7.36</b> <b>6.64</b> 11.69	  14.97	  13.22	  13.54

	Market Value (\$000s)	Actual Allocation (%)	1 Month (%)	FYTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
Total Yield Option (02/12) Net of All Fees *	7,709	1.68	0.82 0.78	3.94 3.71	4.67 4.27	0.90 0.51	1.80 1.41	2.83 2.44	2.86 2.46
Bloomberg US Aggregate			0.53	2.52	2.07	-1.52	-0.60	1.21	1.19
JP Morgan Core Bond Fund (02/12) Net of Manager Fees *	3,843	0.84	0.66 0.64	2.99 2.81	3.07 2.76	-0.52 -0.82	0.45 0.15	2.11 1.81	2.04 1.74
Bloomberg US Aggregate Amundi Pioneer Core Plus Bond Fund (02/12) Net of Manager Fees *	1,928	0.42	0.53 <b>0.94</b> <b>0.91</b>	2.52 <b>4.78</b> <b>4.56</b>	2.07 <b>5.85</b> <b>5.48</b>	-1.52 <b>1.15</b> <b>0.79</b>	-0.60 <b>2.52</b> <b>2.16</b>	1.21 <b>3.26</b> <b>2.89</b>	1.19 <b>3.38</b> <b>3.02</b>
Bloomberg Universal BlackRock Strategic Income Opps (07/17)	1,939	0.42	0.60 <b>1.00</b>	2.94 <b>4.99</b>	2.90 <b>6.69</b>	-1.03 <b>3.48</b>	-0.18 <b>3.63</b>	1.51 <b>3.69</b>	1.60
Net of Manager Fees *  Bloomberg US Aggregate			<b>0.95</b> 0.53	<b>4.64</b> 2.52	<b>6.08</b> 2.07	<b>2.89</b> -1.52	<b>3.04</b> -0.60	<b>3.10</b> 1.21	1.19
Bond Index Option (11/11)  Net of All Fees *  Bloomberg US Aggregate	15,350	3.35	<b>0.52 0.51</b> <i>0.53</i>	2.54 2.50 2.52	<b>2.13 2.07</b> 2.07	-1.50 -1.56 -1.52	-0.55 -0.61 -0.60	<b>1.27</b> <b>1.21</b> 1.21	<b>1.23</b> <b>1.15</b> 1.19
SSgA US Aggregate Bond Fund (11/11) Net of Manager Fees *	15,350	3.35	0.52 0.51	2.54 2.50	2.13 2.07	-1.50 -1.56	-0.55 -0.61	1.27 1.21	1.23 1.17
Real Assets Option (01/17) Net of Fees *	780	0.17	1.74 1.70	5.30 5.05	7.75 7.31	0.96 0.55	5.48 5.05	5.22 4.79	
Real Assets Blended Benchmark			1.93	5.68	8.61	0.43	4.79	4.62	3.11
PIMCO Diversified Real Assets (01/17) Net of Manager Fees *	780	0.17	1.74 1.70	5.30 5.05	7.75 7.31	0.96 0.55	5.48 5.05	5.22 4.79	 
Fixed Fund Option									
Voya Fixed Plus III (10/15) *	48,005	10.48	0.19	1.33	2.25	2.03	2.00	1.97	

Real Assets Blended Benchmark: Effective August 2016, the index consists of 40.00% Bloomberg US TIPS, 25.00% Bloomberg Commodity, 35.00% DJ US Select REIT.

For the Periods Ending January 31, 2025

	Market Value (\$000s)	Actual Allocation (%)	1 Month (%)	FYTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
SSgA Target Retirement Options	254,022	55.46							
SSgA Target Retirement Income (11/15) Net of Manager Fees *	18,314		1.60 1.59	5.18 5.10	8.78 8.65	2.85 2.73	4.73 4.61	4.68 4.55	
SSgA Target Retirement 2020 (11/15) Net of Manager Fees *	19,016		1.60 1.59	5.22 5.15	9.04 8.91	2.80 2.68	5.28 5.15	5.10 4.98	
SSgA Target Retirement 2025 (11/15) Net of Manager Fees *	43,534		1.97 1.96	5.93 5.86	10.99 10.86	3.39 3.27	6.43 6.30	5.96 5.83	
SSgA Target Retirement 2030 (11/15) Net of Manager Fees *	40,733		2.30 2.29	6.53 6.45	12.90 12.76	4.15 4.02	7.36 7.23	6.6 <b>4</b> 6.51	
SSgA Target Retirement 2035 (11/15) Net of Manager Fees *	34,448		2.56 2.55	6.83 6.75	13.96 13.83	4.53 4.41	7.91 7.78	6.97 6.84	
SSgA Target Retirement 2040 (11/15) Net of Manager Fees *	28,013		2.77 2.76	7.25 7.18	15.05 14.91	4.98 4.86	8.45 8.32	7.33 7.20	
SSgA Target Retirement 2045 (11/15) Net of Manager Fees *	23,812		2.96 2.95	7.65 7.58	15.95 15.81	5.38 5.26	8.93 8.80	7.60 7.47	
SSgA Target Retirement 2050 (11/15) Net of Manager Fees *	18,893		3.14 3.13	8.09 8.01	16.84 16.70	5.79 5.66	9.32 9.19	7.88 7.75	
SSgA Target Retirement 2055 (11/15) Net of Manager Fees *	12,790		3.22 3.21	8.26 8.18	17.11 16.97	5.88 5.75	9.38 9.24	7.92 7.79	
SSgA Target Retirement 2060 (11/15) Net of Manager Fees *	14,154		3.22 3.21	8.26 8.18	17.11 16.97	5.88 5.75	9.38 9.25	7.91 7.78	
SSgA Target Retirement 2065 (05/20) Net of Manager Fees *	315		3.22 3.21	8.25 8.18	17.11 16.97	5.88 5.75			
Loan Fund	8,628	1.88							

<sup>\*</sup> The net of all fees includes administrative costs, custodial fees, transaction costs, and investment manager fees associated with the fund. The net of all fee calculation began January 1, 2011.

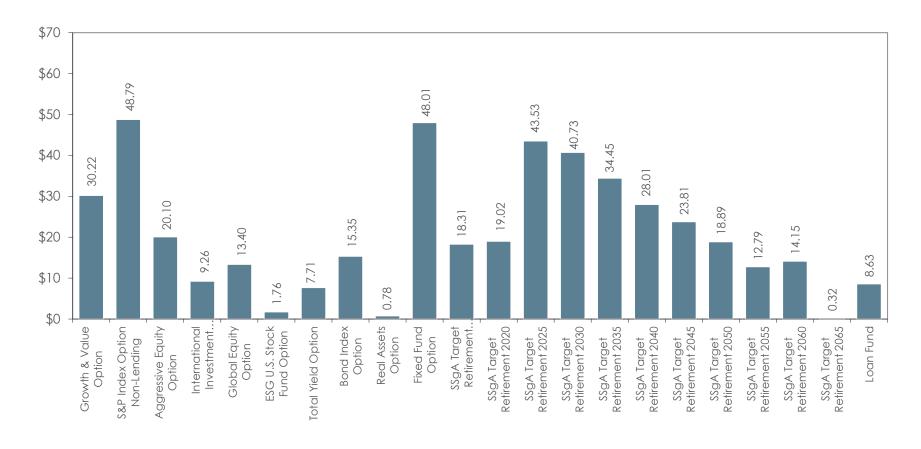
Fiscal year end is June

All index returns are gross of dividends.

<sup>\*</sup> The net of manager fees includes the investment manager fees and transaction costs associated with each portfolio. The net of manager fee calculation began January 1, 2011.

# Oklahoma Municipal Retirement Fund - Defined Contribution

For the Periods Ending January 31, 2025 (In \$ Millions)



Market Overview

For the Periods Ending	January 31, 2025
------------------------	------------------

	1		1	3	5	7	10
	Month	FYTD	Year	Years	Years	Years	Years
	(%)	(%)	(%)	(%)	(%)	(%)	(%)
US Equity Markets Value							
Russell 1000 Value	4.63	12.23	19.54	8.08	10.15	8.53	9.42
S&P 500 Value	2.89	9.21	15.19	10.81	11.72	10.04	10.82
Russell 2000 Value	2.05	11.22	15.52	4.71	8.93	6.25	7.82
US Equity Markets Core							
S&P 500	2.78	11.46	26.38	11.91	15.17	13.38	13.76
Russell 1000	3.18	12.46	26.71	11.69	14.97	13.22	13.54
Russell 2000	2.62	12.51	19.09	5.62	8.67	6.91	8.45
Russell 2500	3.54	13.30	19.08	6.63	9.98	8.40	9.45
US Equity Markets Growth							
Russell 1000 Growth	1.98	12.67	32.68	14.57	18.90	17.26	17.18
S&P 500 Growth	2.68	13.08	35.80	11.86	17.18	15.63	15.79
Russell 2000 Growth	3.16	13.74	22.73	6.23	7.76	7.06	8.68
NASDAQ Comp	1.64	10.69	29.43	11.29	16.49	14.93	15.53
Non US Equity Markets							
MSCI EAFE NetDiv	5.26	3.74	8.65	5.12	6.25	4.14	5.69
MSCI ACWI ex US NetDiv	4.03	3.88	10.89	3.45	5.50	3.31	5.23
MSCI World NetDiv	3.53	9.94	21.40	9.54	12.08	9.98	10.53
S&P EPAC LargeMidCap	5.18	3.19	8.75	5.04	6.53	4.38	6.08
Fixed Income							
Bloomberg Intermediate G/C	0.57	3.09	3.37	0.51	0.69	1.90	1.60
Bloomberg Govt/Credit	0.53	2.41	1.95	-1.61	-0.58	1.36	1.29
Bloomberg US Aggregate	0.53	2.52	2.07	-1.52	-0.60	1.21	1.19
Citigroup Broad Investment Grd	0.52	2.54	2.07	-1.60	-0.63	1.22	1.20
JPM Gov't ex US UnH	0.44	0.84	-4.54	-8.34	-5.74	-3.94	-1.72
FTSE High-Yield Market	1.46	7.12	10.00	4.56	4.51	4.71	5.13
FTSE World Govt Bond	0.46	1.61	-0.88	-5.01	-3.30	-1.69	-0.48
US T-Bills 90 Day	0.37	2.93	5.19	4.02	2.51	2.39	1.80
FTSE 1 Yr T-Bill	0.33	3.17	4.80	3.10	2.11	2.22	1.70

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# Oklahoma Municipal Retirement Fund

**Investment Performance Review** 

December 31, 2024



2018 2019 2020 2021 2022 **2023** 

We are proud to announce that ACG has again been named a Greenwich Associates

Quality Leader - recognized as one of the top consultants in the industry.

Methodology and Disclosure: Between February and November 2023, Coalition Greenwich conducted interviews with 708 individuals from 575 of the largest tax-exempt funds in the United States. These U.S.-based institutional investors are corporate, public, union, and endowment and foundation funds with either pension or investment pool assets greater than \$150 million. Study participants were asked to provide quantitative and qualitative evaluations of their asset management and investment consulting providers, including qualitative assessments of those firms soliciting their business and detailed information on important market trends. ACG is one of three firms recognized in the mid-size investment consultant category. The ratings may not be representative of any one client's experience with ACG; rather they are representative of those clients that chose to participate in the survey. The results are not indicative of ACG's future performance. ACG does not pay to have its clients participate in the study.



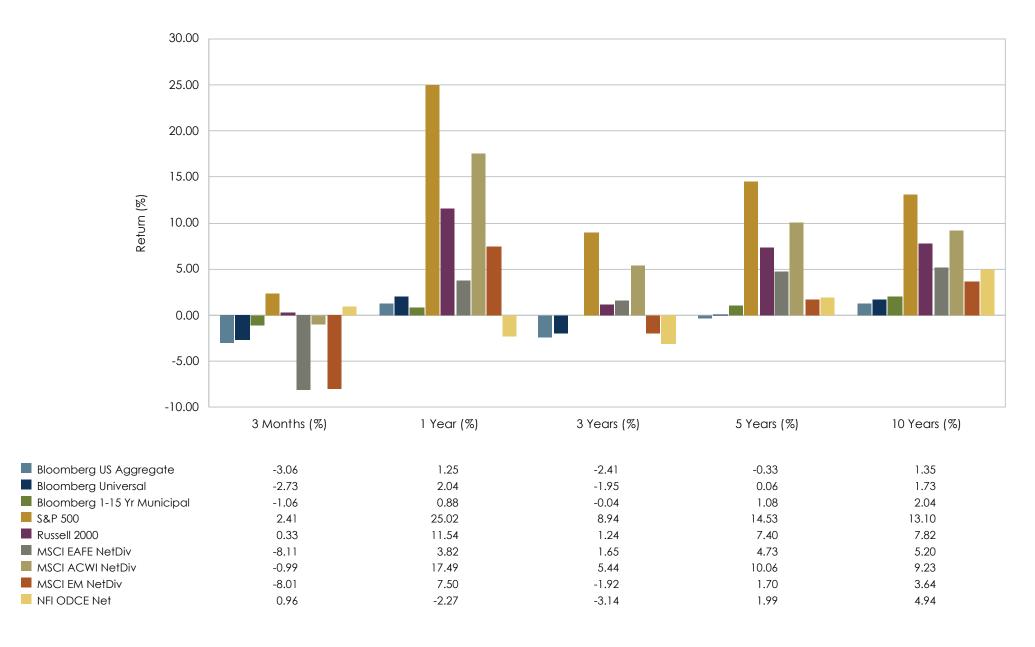
# **Table of Contents**

Tab 1	Market Overview
Tab 2	Defined Benefit Plan Performance
Tab 3	Balanced Fund Managers
Tab 4	Defined Contribution Plan Performance
Appendix	Policy Index History
	Definitions of Statistical Measures
	Quality Rating Scale

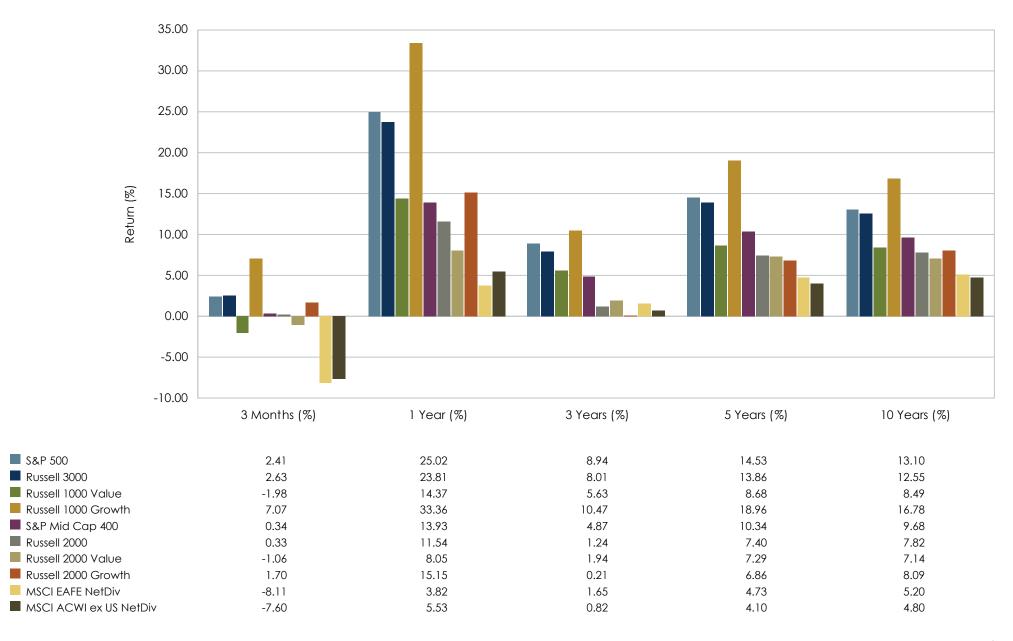
Oklahoma Municipal Retirement Fund - Defined Benefit Plan

**Market Overview** 

**Market Environment** 

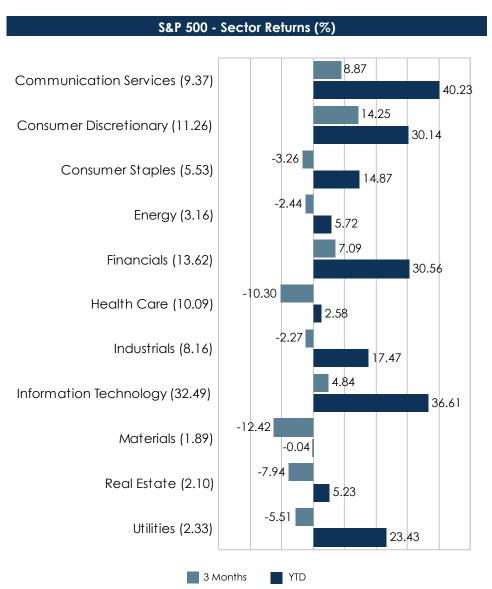


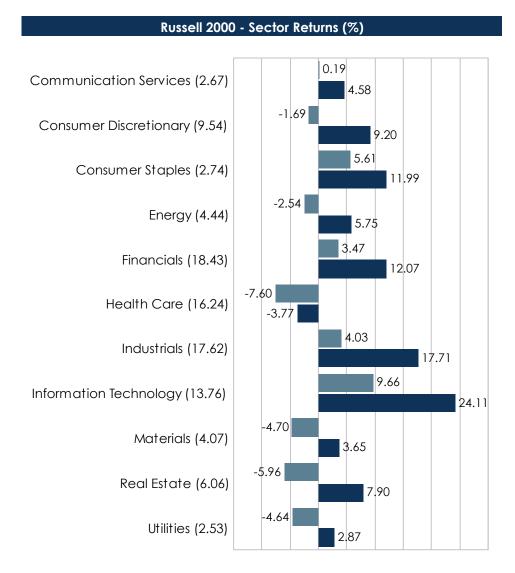
# **Equity Index Returns**



#### US Markets - Performance Breakdown

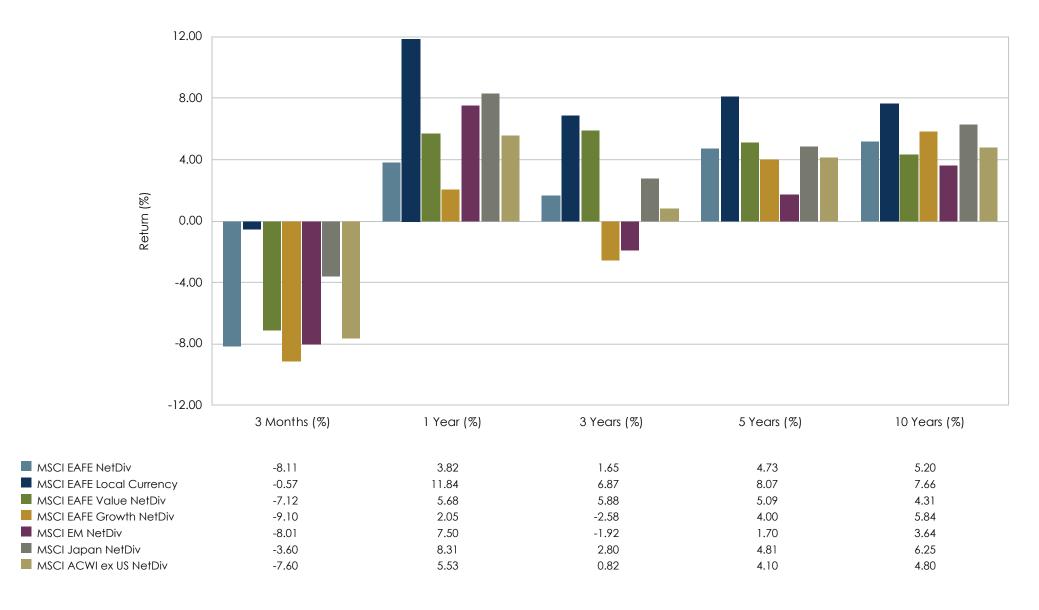
For the Periods Ending December 31, 2024





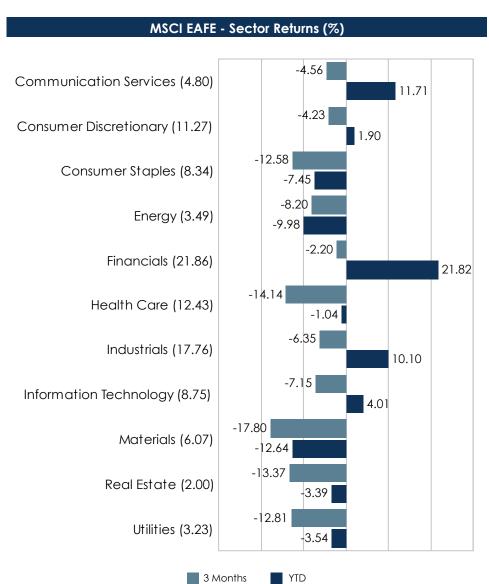
Numbers in parenthesis represent sector weightings of the index. Sector weights may not add to 100% due to rounding or securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

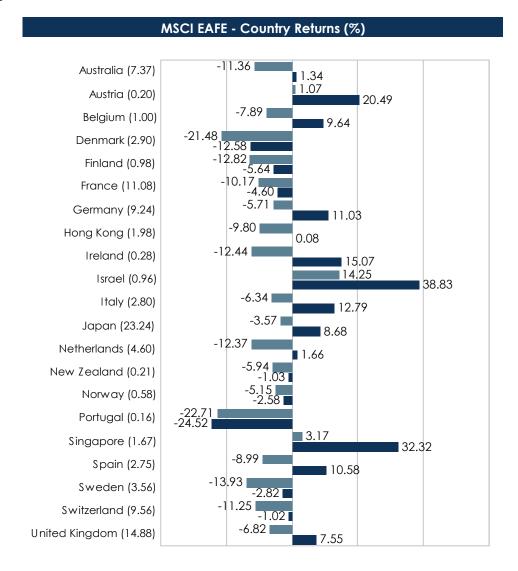
# **Non-US Equity Index Returns**



# Non-US Equity - Performance Breakdown

For the Periods Ending December 31, 2024



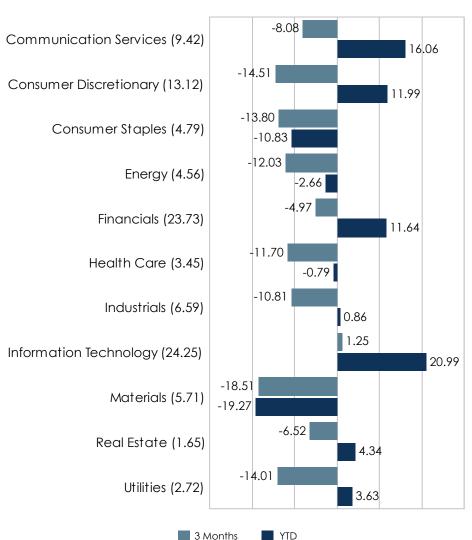


Numbers in parenthesis represent sector or country weights of the index. Sector or country weights may not add to 100% due to rounding.

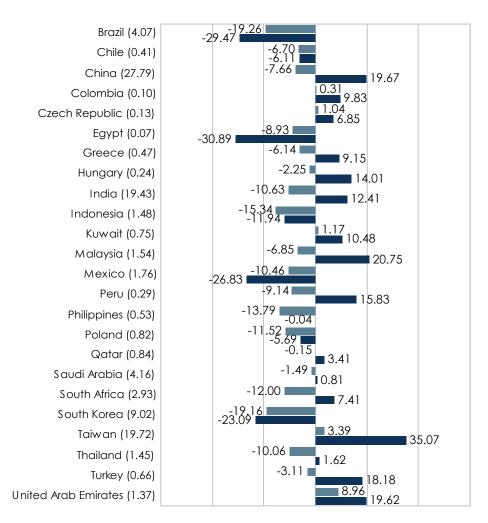
# **Emerging Markets - Performance Breakdown**

For the Periods Ending December 31, 2024





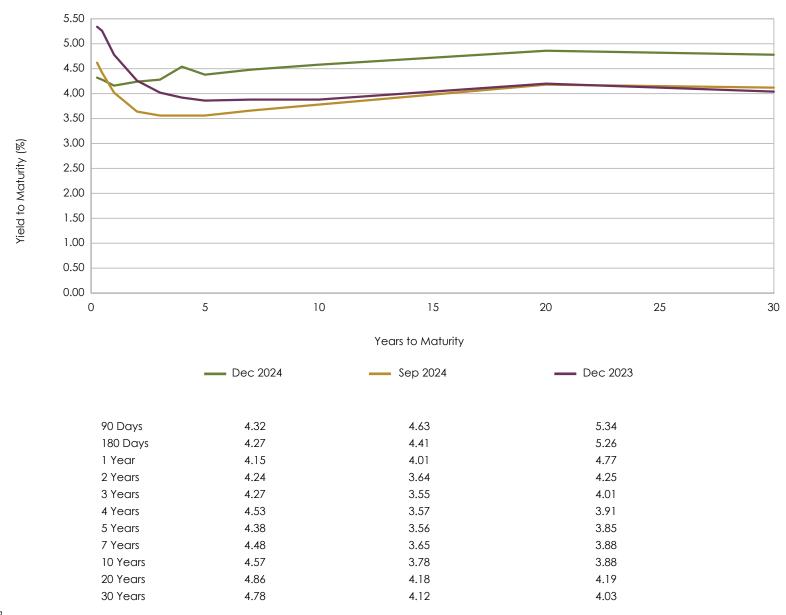
# MSCI Emerging Markets - Country Returns (%)



Sumbers in p: renthesis represent sector or countra B eights on the indeywfector or countra B eights m: anot: dd to 100x due to roundingw

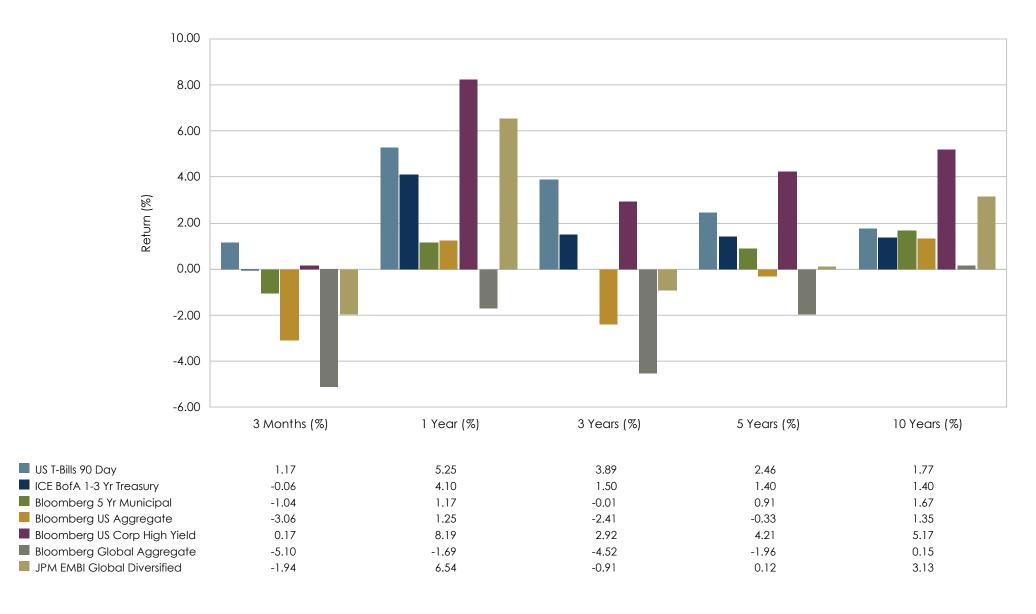
# Interest Rate Term Structure

Government Issues - 3 Months to 30 Years Maturity



Source: Bloomberg

# **Fixed Income Index Returns**



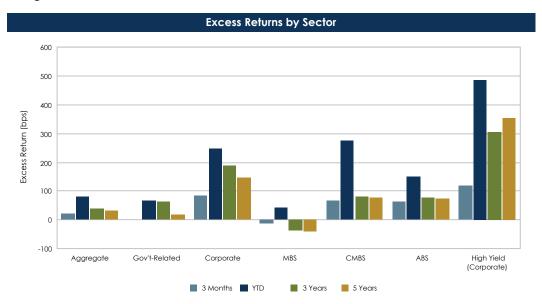
# **US Fixed Income Market Environment**

For the Periods Ending December 31, 2024

	Nominal Returns B	By Sector (%	)	
	3 Months	YTD	3 Years	<u>5 Years</u>
US Aggregate	-3.06	1.27	-2.41	-0.33
US Treasury	-3.13	0.58	-2.87	-0.68
US Agg: Gov't-Related	-2.74	1.70	-1.45	0.02
US Corporate IG	-3.04	2.12	-2.27	0.30
MBS	-3.16	1.20	-2.13	-0.73
CMBS	-1.48	4.67	-0.57	0.98
ABS	-0.05	5.02	2.00	2.02
US Corp High Yield	0.17	8.18	2.92	4.22

	Nominal Returns by (	Quality (%)		
	3 Months	YTD	3 Years	<u> 5 Years</u>
AAA	-1.80	3.07	-1.82	-0.21
AA	-3.13	0.83	-3.17	-0.55
A	-3.28	1.68	-2.42	0.07
BAA	-2.79	2.70	-1.89	0.58
BA	-0.48	6.30	1.91	4.06
В	0.31	7.39	3.11	3.75
CAA	2.27	15.10	4.91	5.10

	Nominal Returns by A	Maturity (%)		
	3 Months	YTD	3 Years	<u> 5 Years</u>
1-3 Yr.	-0.01	4.40	1.70	1.53
3-5 Yr.	-1.54	3.10	0.00	0.75
5-7 Yr.	-2.85	1.83	-1.41	0.21
7-10 Yr.	-4.05	0.30	-3.45	-0.67
10+ Yr.	-7.38	-4.11	-9.41	-3.39





Source: Bloomberg

# **Monthly Index Returns**

Index Name	3 Months (%)	YTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
Equity							
S&P 500	2.41	25.02	25.02	8.94	14.53	13.83	13.10
Russell 1000	2.75	24.51	24.51	8.41	14.28	13.58	12.87
Russell 1000 Growth	7.07	33.36	33.36	10.47	18.96	18.08	16.78
Russell 1000 Value	-1.98	14.37	14.37	5.63	8.68	8.41	8.49
Russell 2500	0.62	12.00	12.00	2.39	8.77	8.33	8.85
Russell 2000	0.33	11.54	11.54	1.24	7.40	6.91	7.82
Russell 2000 Growth	1.70	15.15	15.15	0.21	6.86	7.17	8.09
Russell 2000 Value	-1.06	8.05	8.05	1.94	7.29	6.13	7.14
Wilshire 5000 Cap Wtd	2.63	23.76	23.76	9.44	14.94	13.92	13.15
MSCI ACWI NetDiv	-0.99	17.49	17.49	5.44	10.06	9.21	9.23
MSCI ACWI ex US NetDiv	-7.60	5.53	5.53	0.82	4.10	3.53	4.80
MSCI EAFE NetDiv	-8.11	3.82	3.82	1.65	4.73	4.10	5.20
MSCI EAFE Local Currency	-0.57	11.84	11.84	6.87	8.07	7.07	7.66
MSCI EAFE Growth NetDiv	-9.10	2.05	2.05	-2.58	4.00	4.45	5.84
MSCI EAFE Value NetDiv	-7.12	5.68	5.68	5.88	5.09	3.45	4.31
MSCI EM NetDiv	-8.01	7.50	7.50	-1.92	1.70	1.38	3.64
Fixed Income							
ICE BofA 1-3 Yr Treasury	-0.06	4.10	4.10	1.50	1.40	1.73	1.40
Bloomberg 5 Yr Municipal	-1.04	1.17	1.17	-0.01	0.91	1.66	1.67
Bloomberg US Aggregate	-3.06	1.25	1.25	-2.41	-0.33	0.97	1.35
Bloomberg Gov't Bond	-3.10	0.62	0.62	-2.80	-0.63	0.62	0.85
Bloomberg US Credit	-3.04	2.03	2.03	-2.20	0.23	1.72	2.29
Bloomberg 10 Yr Municipal	-1.34	-0.33	-0.33	-0.50	0.99	1.98	2.32
Bloomberg US Corp High Yield	0.17	8.19	8.19	2.92	4.21	4.67	5.17
FTSE World Govt Bond	-5.44	-2.87	-2.87	-5.83	-3.08	-1.52	-0.55
Bloomberg Global Aggregate	-5.10	-1.69	-1.69	-4.52	-1.96	-0.64	0.15
Bloomberg Multiverse	-4.96	-1.34	-1.34	-4.22	-1.77	-0.48	0.35
JPM EMBI Global Diversified	-1.94	6.54	6.54	-0.91	0.12	1.47	3.13
Real Assets							
NCREIF Property	0.94	0.56	0.56	-0.78	3.16	4.12	5.68
NFI ODCE Net	0.96	-2.27	-2.27	-3.14	1.99	3.08	4.94
FTSE NAREIT Equity REITs	-6.21	8.73	8.73	-2.20	4.27	5.77	5.73
Bloomberg Commodity	-0.45	5.38	5.38	4.05	6.77	4.11	1.28
Cash and Equivalents							
US T-Bills 90 Day	1.17	5.25	5.25	3.89	2.46	2.35	1.77

# **Monthly Index Returns**

For the Periods Ending January 31, 2025

Index Name	1 Month (%)	3 Months (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
Equity							
S&P 500	2.78	6.22	26.38	11.91	15.17	13.38	13.76
Russell 1000	3.18	6.76	26.71	26.71 11.69		13.22	13.54
Russell 1000 Growth	1.98	9.55	32.68	14.57	18.90	17.26	17.18
Russell 1000 Value	4.63	3.70	19.54	8.08	10.15	8.53	9.42
Russell 2500	3.54	5.16	19.08	6.63	9.98	8.40	9.45
Russell 2000	2.62	4.47	19.09	5.62	8.67	6.91	8.45
Russell 2000 Growth	3.16	6.33	22.73	6.23	7.76	7.06	8.68
Russell 2000 Value	2.05	2.57	15.52	4.71	8.93	6.25	7.82
Wilshire 5000 Cap Wtd	3.14	6.63	26.30	12.77	15.65	13.59	13.82
MSCI ACWI NetDiv	3.36	4.68	20.72	8.41	11.04	8.86	9.77
MSCI ACWI ex US NetDiv	4.03	1.08	10.89	3.45	5.50	3.31	5.23
MSCI EAFE NetDiv	5.26	2.28	8.65	5.12	6.25	4.14	5.69
MSCI EAFE Local Currency	4.83	5.91	14.25	9.92	9.37	7.61	7.85
MSCI EAFE Growth NetDiv	5.41	2.13	6.31	2.88	5.22	4.56	6.27
MSCI EAFE Value NetDiv	5.10	2.43	11.15	7.28	6.92	3.41	4.86
MSCI EM NetDiv	1.79	-2.00	14.75	-0.71	3.04	0.48	3.76
Fixed Income							
ICE BofA 1-3 Yr Treasury	0.43	0.96	4.13	1.86	1.38	1.84	1.39
Bloomberg Municipal	0.50	0.75	2.08	0.54	0.73	2.19	2.12
Bloomberg US Aggregate	0.53	-0.07	2.07	-1.52	-0.60	1.21	1.19
Bloomberg Gov't Bond	0.52	-0.25	1.42	-2.02	-1.00	0.88	0.65
Bloomberg US Credit	0.56	-0.08	2.79	-0.95	-0.12	1.94	2.06
Bloomberg 10 Yr Municipal	0.82	1.15	0.99	0.75	0.77	2.33	2.20
Bloomberg US Corp High Yield	1.37	2.10	9.68	4.34	4.49	4.78	5.24
FTSE World Govt Bond	0.46	-1.59	-0.88	-5.01	-3.30	-1.69	-0.48
Bloomberg Global Aggregate	0.57	-1.25	0.25	-3.68	-2.10	-0.73	0.22
Bloomberg Multiverse	0.62	-1.14	0.62	-3.36	-1.88	-0.57	0.43
Real Assets							
Bloomberg Commodity	3.95	5.44	9.11	2.49	9.25	4.40	2.02
Cash and Equivalents							
US T-Bills 90 Day	0.37	1.16	5.19	4.02	2.51	2.39	1.80

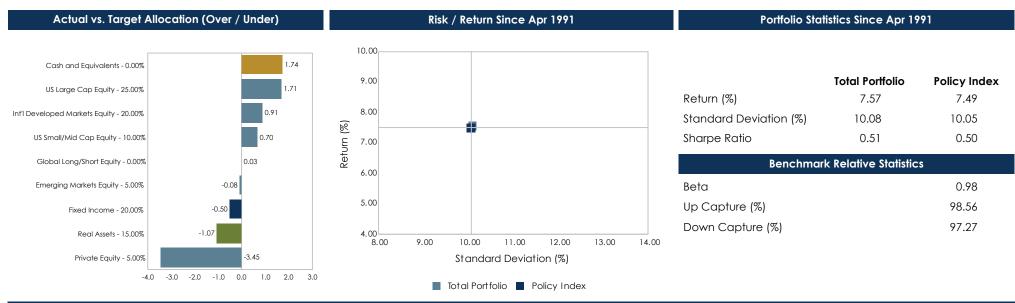
Oklahoma Municipal Retirement Fund - Defined Benefit Plan

**Defined Benefit Plan Performance** 

# Performance vs. Objectives

	Benchmark (%)	Rank	Total Portfolio (%)	Rank	Objective Met?	Benchmark (%)	Rank	Total Portfolio (%)	Rank	Objective Met?
			5 Years					10 Years		
The Pension Plan gross annualized total return should equal or exceed the Plan's actuarial interest rate assumption.	7.25		7.29		Yes	7.25		7.54		Yes
The Pension Plan gross annualized total return should equal or exceed the annualized total return of the policy index.	6.80		7.29		Yes	7.00		7.54		Yes
The Pension Plan gross annualized total return should rank at median or above when compared to a universe of total fund portfolios with a similar allocation to equities (55%-70%).	7.11	50th	7.29	44th	Yes	7.12	50th	7.54	29th	Yes
<ul> <li>Gross volatility or standard deviation should be in line with that of the Policy Index.</li> </ul>	12.97		12.23		Yes	10.70		9.98		Yes

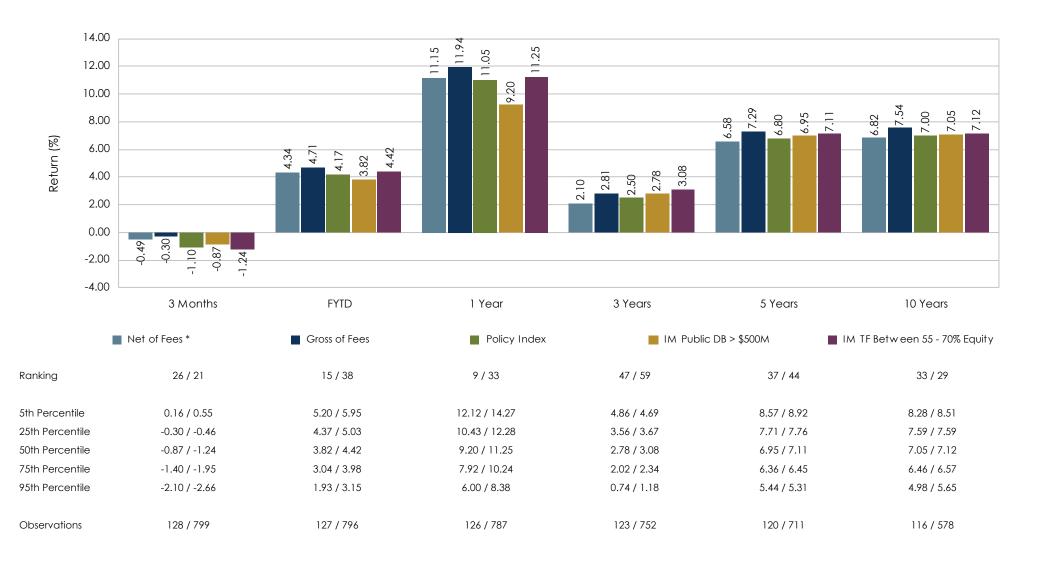
#### **Total Portfolio**



Performance by Broad Asset Class	Market Value (\$000s)	Actual Allocation (%)	Target Allocation (%)	3 Months (%)	FYTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	10 Years (%)	Since Incp. (%)
Total Portfolio (04/91)	775,992	100.00	100.00	-0.30	4.71	11.94	2.81	7.29	7.54	7.57
Policy Index				-1.10	4.17	11.05	2.50	6.80	7.00	7.49
Equity (10/10)	503,027	64.82	65.00	-0.26	5.52	16.83	5.01	10.26	9.86	10.81
MSCI ACWI NetDiv				-0.99	5.56	17.49	5.44	10.06	9.23	9.45
Fixed Income (06/03)	151,351	19.50	20.00	-1.90	3.33	4.51	0.62	2.18	3.00	4.35
Bloomberg US Aggregate				-3.06	1.98	1.25	-2.41	-0.33	1.35	2.99
Real Assets (09/11)	108,115	13.93	15.00	1.31	1.33	-3.42	-4.26	1.90	5.78	7.88
NFI ODCE Net				0.96	0.98	-2.27	-3.14	1.99	4.94	6.70
Cash and Equivalents (09/11)	13,499	1.74	0.00	1.14	2.44	5.10	3.74	2.30	1.62	1.22

#### **Total Portfolio**

For the Periods Ending December 31, 2024



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

<sup>\*</sup> Performance is calculated using net of fee returns.
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# Rates of Return Summary & Universe Rankings

	Market Value (\$000s)	Actual Allocation (%)	3 Months (%)	Rank	FYTD (%)	Rank	1 Year (%)	Rank	3 Years (%)	Rank	5 Years (%)	Rank	10 Years (%)
Total Portfolio (04/91)	775,992	100.00	-0.30	26 / 21	4.71	15 / 38	11.94	9 / 33	2.81	47 / 59	7.29	37 / 44	7.54
Policy Index <sup>1</sup>			-1.10		4.17		11.05		2.50		6.80		7.00
IM Public DB > \$500M			-0.87		3.82		9.20		2.78		6.95		7.05
IM TF Between 55 - 70% Equity			-1.24		4.42		11.25		3.08		7.11		7.12
Equity (10/10)	503,027	64.82	-0.26		5.52		16.83		5.01		10.26		9.86
MSCI ACWI NetDiv			-0.99		5.56		17.49		5.44		10.06		9.23
US Equity (06/00)	290,313	37.41	2.90		9.18		22.02		7.91		13.44		12.26
Russell 3000			2.63		9.03		23.81		8.01		13.86		12.55
US Large Cap Equity (09/04)	207,296	26.71	2.41		8.44		25.02		8.96		14.60		13.11
S&P 500			2.41		8.44		25.02		8.94		14.53		13.10
SSgA S&P 500 Non-Lending (02/10)	207,296	26.71	2.41	33	8.44	32	25.02	34	8.96	39	14.52	34	13.13
S&P 500			2.41		8.44		25.02		8.94		14.53		13.10
eA US Large Cap Core Equity			1.61		7.46		22.47		8.01		13.61		12.48
US Small/Mid Cap Equity	83,017	10.70											
River Road Small Cap Value (04/16)	41,925	5.40	7.80	2	13.21	12	15.90	17	8.66	16	10.14	46	
Russell 2000 Value			-1.06		8.98		8.05		1.94		7.29		7.14
eA US Small Cap Value Equity			-0.05		8.67		11.37		4.73		9.87		8.86
William Blair SMid Growth (11/22)	41,092	5.30	1.30	64	10.49	45	12.49	59					
Russell 2500 Growth			2.43		9.59		13.90		-0.02		8.08		9.45
eA US Small-Mid Cap Growth Equity			2.55		9.43		13.85		-0.19		10.66		10.75
Non-US Equity (06/00)	200,474	25.83	-5.00		-0.08		9.31		0.75		6.52		7.46
MSCI ACWI ex US NetDiv			-7.60		-0.15		5.53		0.82		4.10		4.80
International Developed Market	162,280	20.91											
Artisan International Value (05/10)	56,436	7.27	-6.73	38	1.12	34	7.73	24	8.01	4	10.36	4	8.87
MSCI EAFE NetDiv			-8.11		-1.44		3.82		1.65		4.73		5.20
eA EAFE All Cap Equity			-7.21		0.12		5.15		2.12		5.39		5.93

# Rates of Return Summary & Universe Rankings

	Market Value (\$000s)	Actual Allocation (%)	3 Months (%)	Rank	FYTD (%)	Rank	1 Year (%)	Rank	3 Years (%)	Rank	5 Years (%)	Rank	10 Years (%)
Ninety One International Dynamic Fund (03/15)	55,116	7.10	-4.66	13	-1.53	77	7.47	45	0.09	66	5.10	56	
MSCI ACWI ex US NetDiv			-7.60		-0.15		5.53		0.82		4.10		4.80
eA ACWI ex-US Core Equity			-6.77		0.28		6.89		1.12		5.48		6.31
WCM Focused Int'l Growth (03/15)	50,728	6.54	-6.82	50	-2.03	68	8.70	27	-2.77	50	7.85	18	
MSCI ACWI ex US NetDiv			-7.60		-0.15		5.53		0.82		4.10		4.80
eA ACWI ex-US Growth Equity			-6.82		-0.13		4.47		-2.79		5.31		7.22
Emerging Markets Equity (03/15)	38,194	4.92	-0.17		3.05		15.48		-4.54		-0.39		
MSCI EM NetDiv			-8.01		0.02		7.50		-1.92		1.70		3.64
Axiom Emerging Markets (02/23)	38,194	4.92	-0.17	2	3.05	18	15.48	8					
MSCI EM NetDiv			-8.01		0.02		7.50		-1.92		1.70		3.64
eA Global Emerging Mkts Equity			-6.94		0.09		7.84		-0.53		3.40		5.03
Global Long/Short Equity	199	0.03											
Private Equity (05/23)	12,042	1.55	0.00		8.17		16.90						
Fixed Income (06/03)	151,351	19.50	-1.90		3.33		4.51		0.62		2.18		3.00
Bloomberg US Aggregate			-3.06		1.98		1.25		-2.41		-0.33		1.35
JP Morgan Fixed Income (06/91)	46,943	6.05	-2.98	64	2.30	33	2.38	34	-1.55	27	0.57	33	2.07
Bloomberg US Aggregate			-3.06		1.98		1.25		-2.41		-0.33		1.35
eA US Core Fixed Income			-2.89		2.18		2.04		-1.88		0.35		1.91
Amundi Pioneer Core Plus Bond Fund (11/11)	49,496	6.38	-2.49	25	3.80	3	4.91	9	0.24	7	2.27	10	3.21
Bloomberg Universal			-2.73		2.32		2.04		-1.95		0.06		1.73
eA US Core Plus Fixed Income			-2.72		2.50		2.77		-1.51		0.87		2.43
BlackRock Strategic Income Opportunities (07/17)	54,912	7.08	-0.42	42	3.97	34	5.99	49	2.82	35	3.57	31	
Bloomberg US Aggregate			-3.06		1.98		1.25		-2.41		-0.33		1.35
eA Global Unconstrained Fixed Income			-0.91		3.70		5.91		2.01		2.43		3.18

# Rates of Return Summary & Universe Rankings

For the Periods Ending December 31, 2024

	Market Value (\$000s)	Actual Allocation (%)	3 Months (%)	 FYTD (%)	Rank	1 Year (%)	Rank	3 Years (%)	Rank	5 Years (%)	Rank	10 Years (%)
Real Assets (09/11)	108,115	13.93	1.31	1.33		-3.42		-4.26		1.90		5.78
NFI ODCE Net			0.96	0.98		-2.27		-3.14		1.99		4.94
JP Morgan Special Situation Property (02/07)	18,290	2.36	0.20	0.20		-9.69		-11.41		-2.17		4.53
NFI ODCE Net			0.96	0.98		-2.27		-3.14		1.99		4.94
JP Morgan Strategic Property (05/07)	31,571	4.07	1.77	2.60		-1.72		-4.14		1.57		5.02
NFI ODCE Net			0.96	0.98		-2.27		-3.14		1.99		4.94
Clarion Lion Industrial Trust (07/22)	28,254	3.64	2.17	1.26		-0.22						
NFI ODCE Net			0.96	0.98		-2.27		-3.14		1.99		4.94
Morgan Stanley Prime Property (01/25)	30,000	3.87										
NFI ODCE			1.16	1.41		-1.44		-2.33		2.87		5.87
Cash and Equivalents (09/11)	13,499	1.74	1.14	2.44		5.10		3.74		2.30		1.62

#### Notes:

<sup>1</sup> Policy Index: Effective March 2024, the index consists of 65.00% MSCI ACWI NetDiv, 20.00% Bloomberg US Aggregate, 15.00% NFI ODCE Net.

Oklahoma Municipal Retirement Fund - Defined Benefit Plan

**Balanced Fund Managers** 

# SSgA S&P 500 Non-Lending

For the Periods Ending December 31, 2024

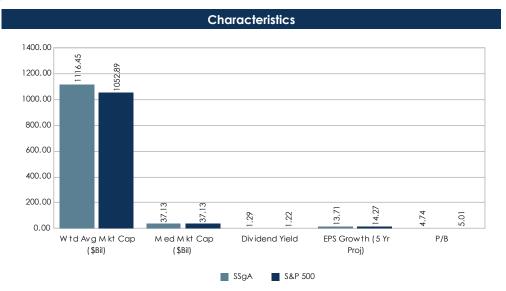
#### **Account Description**

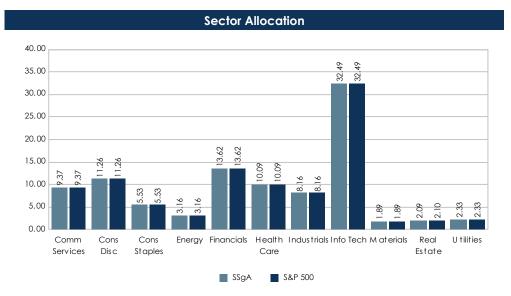
- Strategy US Large Cap Equity
- Vehicle Non-Mutual Commingled
- Benchmark S&P 500
- Performance Inception Date February 2010
- Fees 1 bp

#### **Performance Goals**

• Mirror the risk and return profile of the S&P 500 over all time periods.

# Dollar Growth Summary (\$000s) 3 Months 1 Year Beginning Market Value 237,616 223,223 Net Additions -36,586 -67,277 Return on Investment 6,266 51,350 Ending Market Value 207,296 207,296

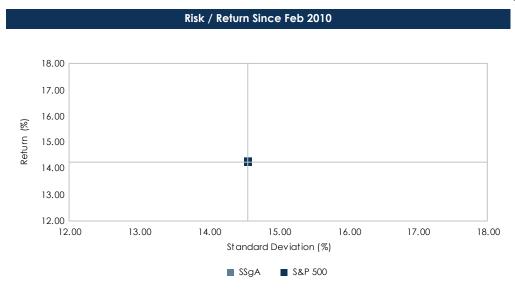




Characteristic and allocation charts represents data of the State Street S&P 500 Flagship Non-Lending Fund (Non-Mutual Commingled). Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

# SSgA S&P 500 Non-Lending

For the Periods Ending December 31, 2024



# Portfolio Statistics Since Feb 2010

	SSgA	S&P 500
Return (%)	14.28	14.24
Standard Deviation (%)	14.56	14.56
Sharpe Ratio	0.90	0.90

Benchmark Relative Statistics		
Beta	1.00	
R Squared (%)	100.00	
Alpha (%)	0.03	
Tracking Error (%)	0.04	
Batting Average (%)	59.78	
Up Capture (%)	100.10	
Down Capture (%)	99.96	

#### Growth of a Dollar Since Feb 2010

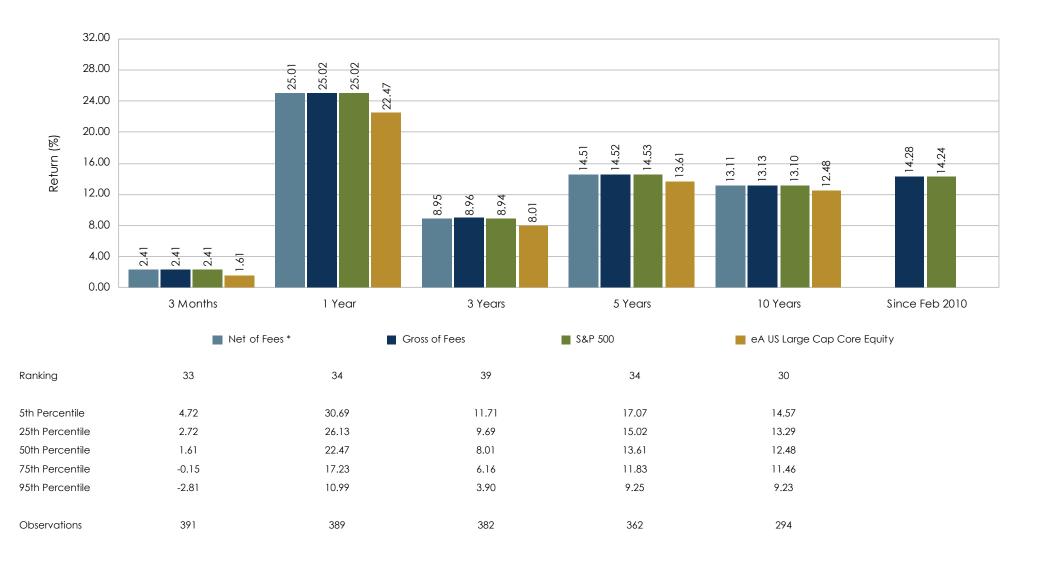


#### Return Analysis Since Feb 2010

	SSgA	S&P 500
Number of Months	179	179
Highest Monthly Return (%)	12.82	12.82
Lowest Monthly Return (%)	-12.37	-12.35
Number of Positive Months	124	124
Number of Negative Months	55	55
% of Positive Months	69.27	69.27

# SSgA S&P 500 Non-Lending

For the Periods Ending December 31, 2024



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

<sup>\*</sup> Performance is calculated using net of fee returns.
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# **River Road Small Cap Value**

For the Periods Ending December 31, 2024

#### **Account Description**

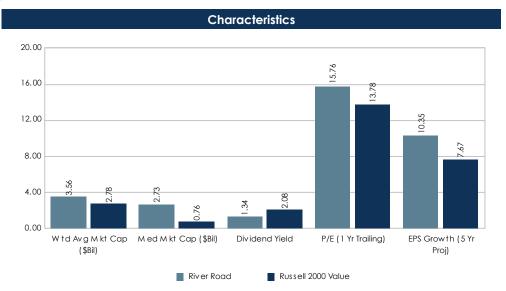
- Strategy US Small/Mid Cap Value
- Vehicle Separately Managed Account
- Benchmark Russell 2000 Value
- Performance Inception Date April 2016
- Fees First \$10M at 95 bps; next \$15M at 90 bps; next \$25M at 85 bps

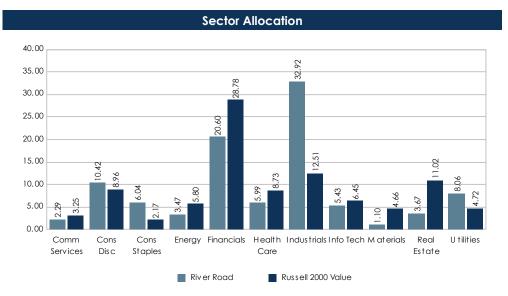
#### **Performance Goals**

- Outperform the Russell 2000 Value over a complete market cycle (typically 3 to 5 years).
- Rank above median in the eA US Small Cap Value Equity universe over a complete market cycle (3 to 5 years).

# Dollar Growth Summary (\$000s)

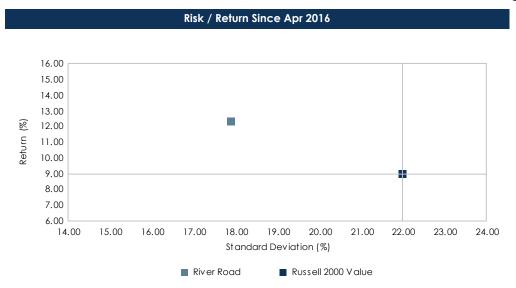
	3 Months	1 Year
Beginning Market Value	38,999	36,582
Net Additions	-114	-439
Return on Investment	3,040	5,782
Income	172	657
Gain/Loss	2,868	5,124
Ending Market Value	41,925	41,925





# **River Road Small Cap Value**

For the Periods Ending December 31, 2024

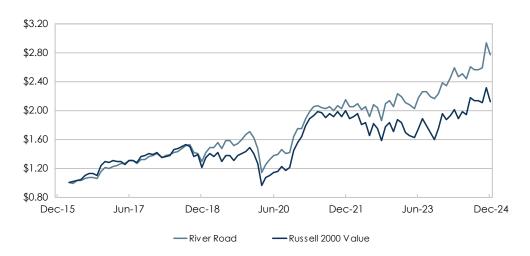


#### Portfolio Statistics Since Apr 2016

	River Road	Russell 2000 Value
Return (%)	12.31	8.96
Standard Deviation (%)	17.88	21.98
Sharpe Ratio	0.58	0.32

Benchmark Relative Statistics		
Beta	0.77	
R Squared (%)	89.91	
Alpha (%)	4.87	
Tracking Error (%)	7.58	
Batting Average (%)	55.24	
Up Capture (%)	80.16	
Down Capture (%)	73.35	

#### Growth of a Dollar Since Apr 2016

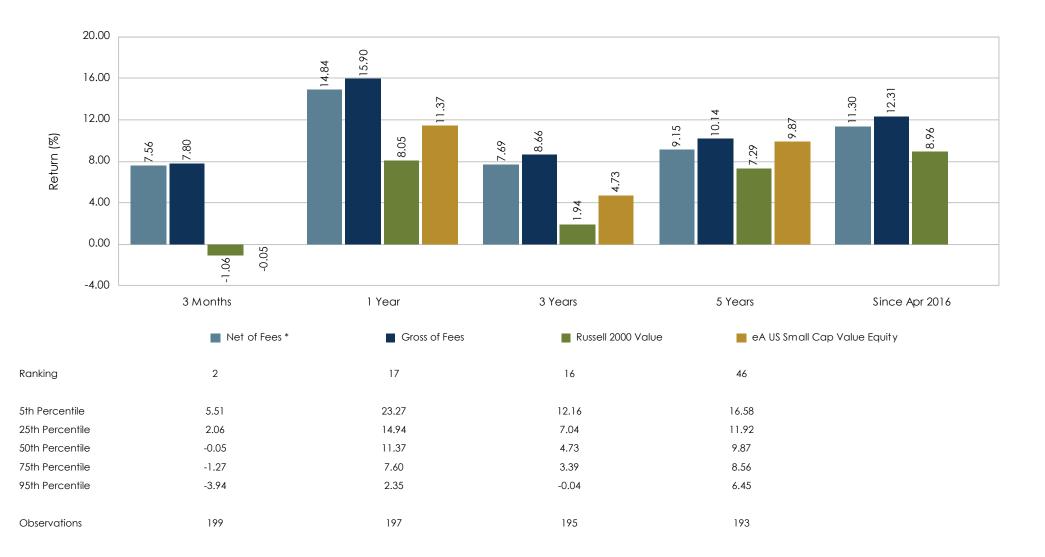


#### Return Analysis Since Apr 2016

	River Road	Russell 2000 Value
Number of Months	105	105
Highest Monthly Return (%)	15.86	19.31
Lowest Monthly Return (%)	-22.26	-24.67
Number of Positive Months	61	65
Number of Negative Months	44	40
% of Positive Months	58.10	61.90

# **River Road Small Cap Value**

For the Periods Ending December 31, 2024



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

<sup>\*</sup> Performance is calculated using net of fee returns.
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#### William Blair SMid Growth

For the Periods Ending December 31, 2024

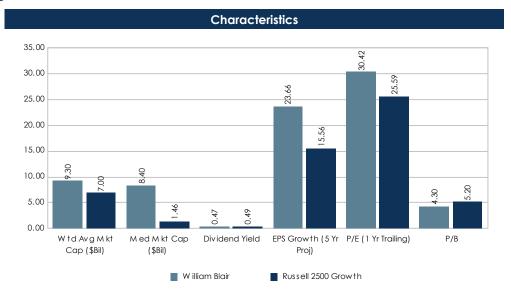
#### **Account Description**

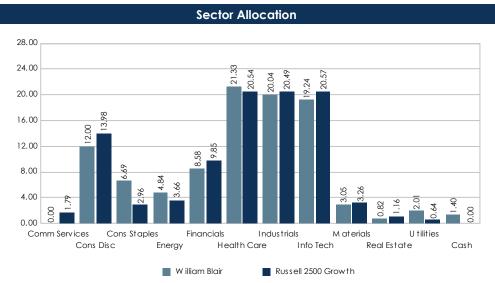
- Strategy US Small/Mid Cap Growth
- Vehicle Non-Mutual Commingled
- Benchmark Russell 2500 Growth
- Performance Inception Date November 2022
- **Fees** 85 bps

#### **Performance Goals**

- Exceed the return of the Russell 2500 Growth over a complete market cycle (3 to 5 years).
- Rank above median in the eA US Small-Mid Cap Growth Equity universe over a complete market cycle (3 to 5 years).

#### 





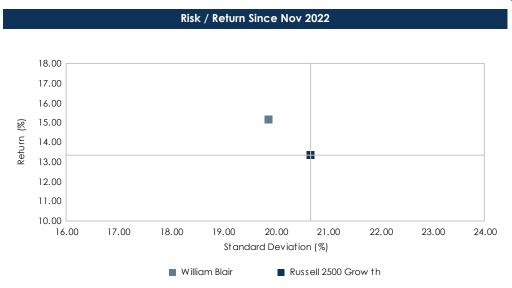
Characteristic and allocation charts represents the composite data of the William Blair SMid Growth.

Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

# William Blair SMid Growth

For the Periods Ending December 31, 2024

**Sharpe Ratio** 



# William Blair Russell 2500 Growth Return (%) 15.17 13.35 Standard Deviation (%) 19.87 20.67

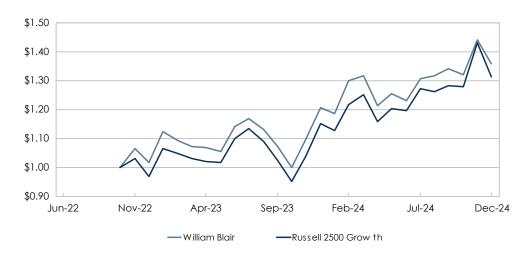
Benchmark Relative Statistics			
Beta	0.94		
R Squared (%)	94.69		
Alpha (%)	2.42		
Tracking Error (%)	4.77		
Batting Average (%)	57.69		
Up Capture (%)	100.09		
Down Capture (%)	94.25		

Portfolio Statistics Since Nov 2022

0.50

0.40

#### Growth of a Dollar Since Nov 2022

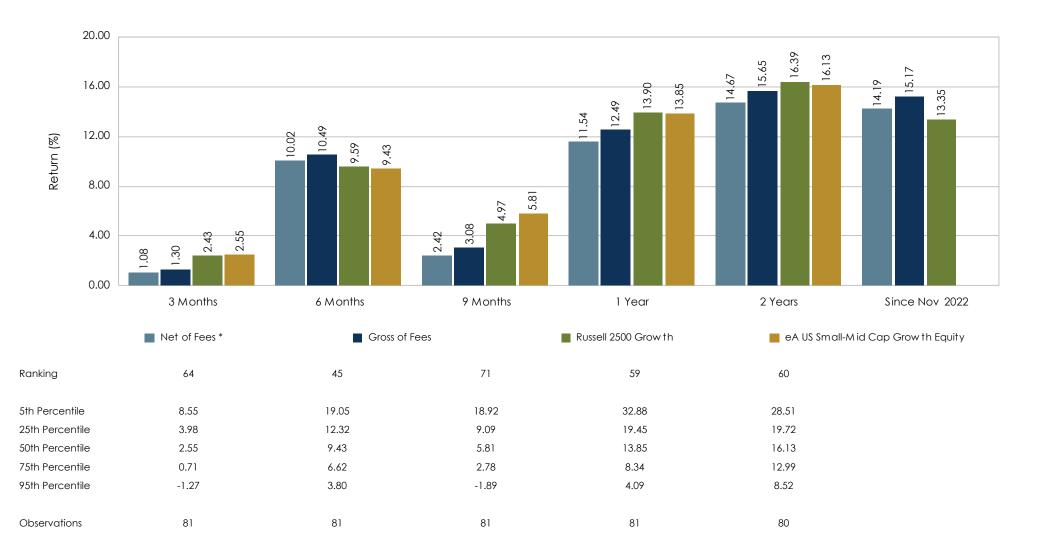


#### **Return Analysis Since Nov 2022**

	William Blair	Russell 2500 Growth
Number of Months	26	26
Highest Monthly Return (%)	10.61	11.90
Lowest Monthly Return (%)	-7.88	-8.23
Number of Positive Months	13	12
Number of Negative Months	13	14
% of Positive Months	50.00	46.15

#### William Blair SMid Growth

For the Periods Ending December 31, 2024



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

<sup>\*</sup> Performance is calculated using net of fee returns.
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#### **Artisan International Value**

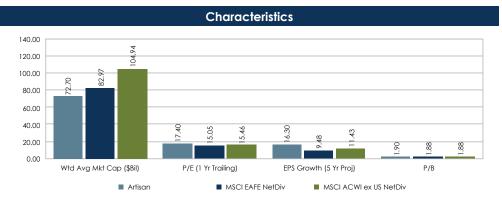
For the Periods Ending December 31, 2024

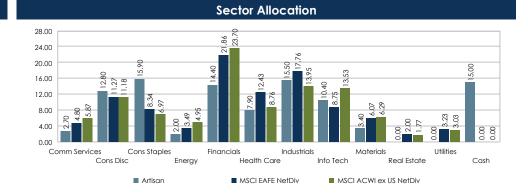
#### **Account Description**

- Strategy Int'l Developed Markets Equity
- Vehicle Mutual Fund: Institutional Class (APHKX)
- Benchmarks MSCI EAFE NetDiv and MSCI ACWI ex US NetDiv
- Performance Inception Date May 2010
- **Expense Ratio** 97 bps

#### Performance Goals

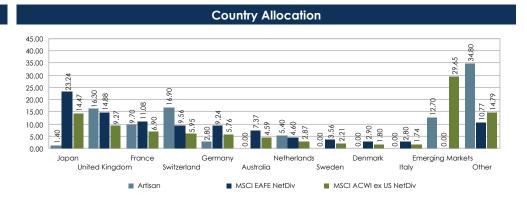
- Exceed the returns of the MSCI EAFE NetDiv over a complete market cycle (3 to 5 years).
- Rank above the median in the eA EAFE All Cap Equity universe over a complete market cycle (3 to 5 years).





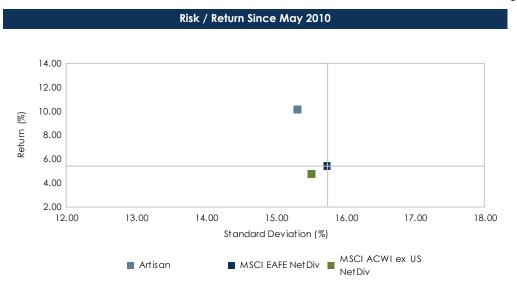
# 3 Months 1 Year Beginning Market Value 60,662 52,996 Net Additions 0 -75 Return on Investment -4,226 3,515 Ending Market Value 56,436 56,436

Net Dollar Growth Summary (\$000s)



### **Artisan International Value**

For the Periods Ending December 31, 2024



# Portfolio Statistics Since May 2010

	Artisan	MSCI EAFE NetDiv	MSCI ACWI ex US NetDiv
Return (%)	10.16	5.44	4.74
Standard Deviation (%)	15.32	15.74	15.52
Sharpe Ratio	0.59	0.27	0.23

Benchmark Relative Statistics			
Beta	0.93	0.93	
R Squared (%)	90.52	89.50	
Alpha (%)	4.94	5.57	
Tracking Error (%)	4.86	5.07	
Batting Average (%)	58.52	61.36	
Up Capture (%)	102.00	106.87	
Down Capture (%)	82.32	83.17	

#### Growth of a Dollar Since May 2010

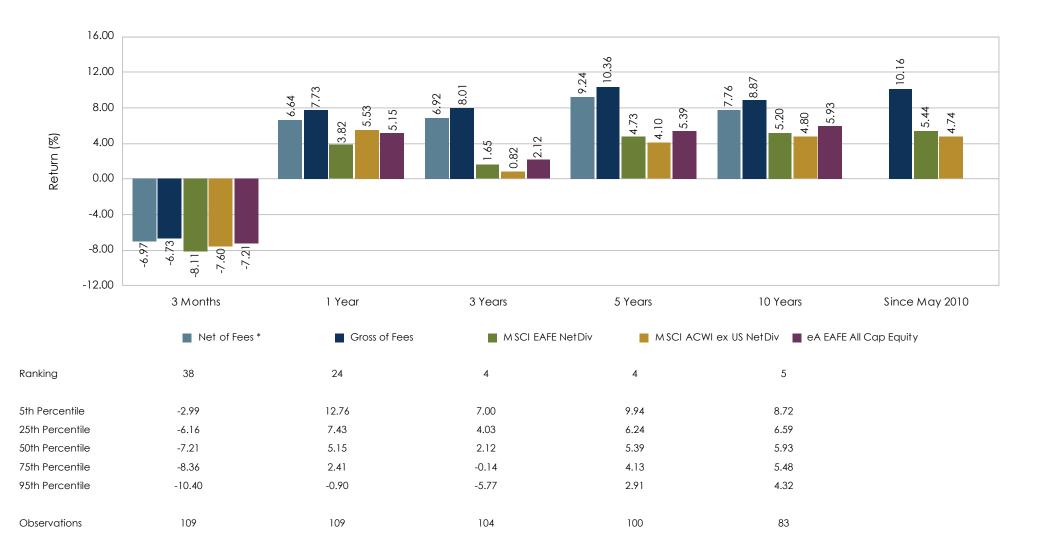


#### Return Analysis Since May 2010

	Artisan	MSCI EAFE NetDiv	MSCI ACWI ex US NetDiv
Number of Months	176	176	176
Highest Monthly Return (%)	16.60	15.50	13.45
Lowest Monthly Return (%)	-19.43	-13.35	-14.48
Number of Positive Months	101	99	100
Number of Negative Months	75	77	76
% of Positive Months	57.39	56.25	56.82

### **Artisan International Value**

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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# Ninety One International Dynamic Fund

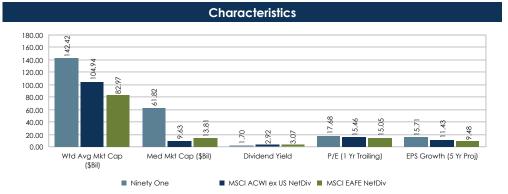
For the Periods Ending December 31, 2024

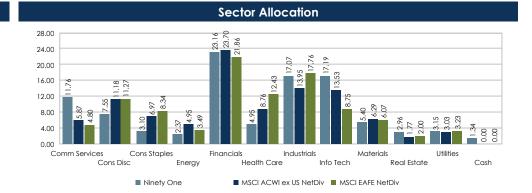
#### **Account Description**

- Strategy Int'l Developed Markets Equity
- Vehicle Non-Mutual Commingled
- Benchmarks MSCI ACWI ex US NetDiv and MSCI EAFE NetDiv
- Performance Inception Date March 2015
- **Fees** 35 bps

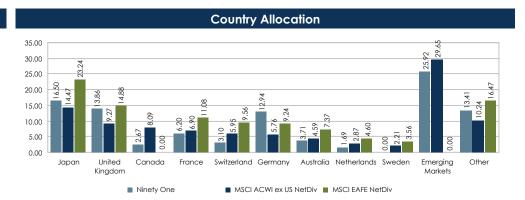
#### **Performance Goals**

- Exceed the returns of the MSCI ACWI ex US NetDiv over a complete market cycle (3 to 5 years).
- Rank above the median in the eA ACWI ex-US Core Equity universe over a complete market cycle (3 to 5 years).



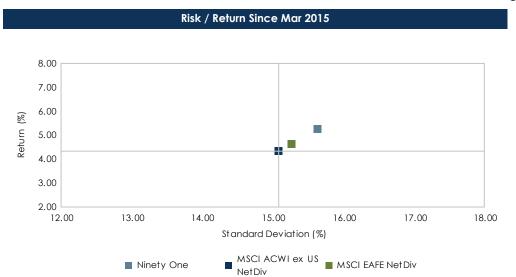


Dollar Growth Summary (\$000s)		
	3 Months	1 Year
Beginning Market Value	57,854	51,556
Net Additions	-40	-283
Return on Investment	-2,698	3,843
Ending Market Value	55,116	55,116



# Ninety One International Dynamic Fund

For the Periods Ending December 31, 2024



#### MSCI ACWI ex **MSCI EAFE** Ninety One **US NetDiv** NetDiv 5.26 Return (%) 4.35 4.62 Standard Deviation (%) 15.63 15.08 15.26 **Sharpe Ratio** 0.22 0.17 0.19

Portfolio Statistics Since Mar 2015

Benchmark Relative Statistics			
Beta	1.00	0.97	
R Squared (%)	92.24	89.40	
Alpha (%)	0.99	0.87	
Tracking Error (%)	4.36	5.11	
Batting Average (%)	53.39	55.93	
Up Capture (%)	101.48	97.06	
Down Capture (%)	97.39	94.89	

**Return Analysis Since Mar 2015** 

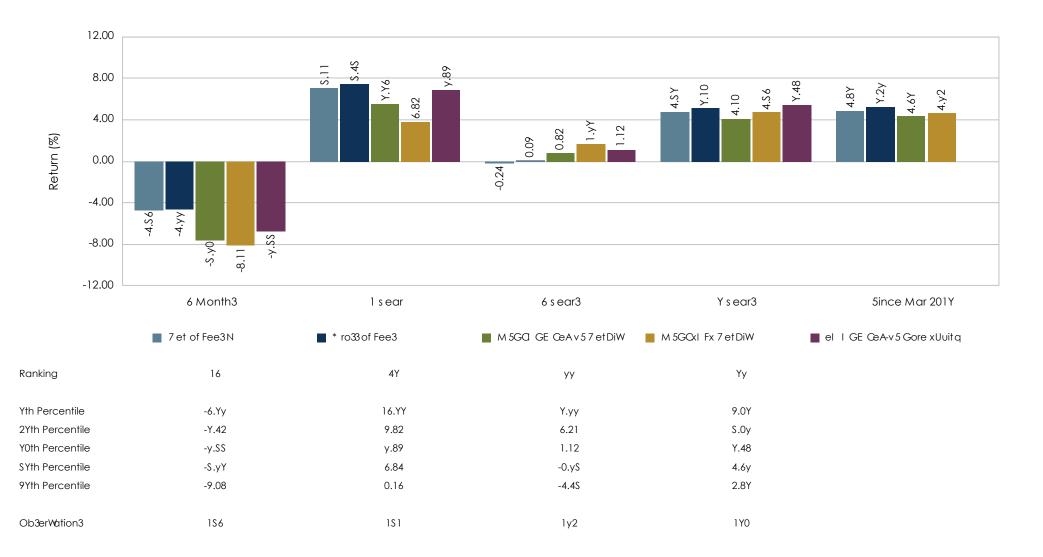
#### Growth of a Dollar Since Mar 2015



	Ninety One	MSCI ACWI ex US NetDiv	MSCI EAFE NetDiv
Number of Months	118	118	118
Highest Monthly Return (%)	12.16	13.45	15.50
Lowest Monthly Return (%)	-16.64	-14.48	-13.35
Number of Positive Months	69	67	67
Number of Negative Months	49	51	51
% of Positive Months	58.47	56.78	56.78

# Ninety One International Dynamic Fund

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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#### **WCM Focused Int'l Growth**

For the Periods Ending December 31, 2024

#### **Account Description**

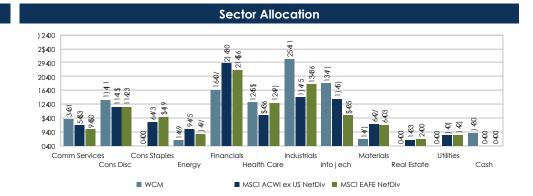
- Strategy Int'l Developed Markets Equity
- Vehicle Non-Mutual Commingled
- Benchmarks MSCI ACWI ex US NetDiv and MSCI EAFE NetDiv
- Performance Inception Date March 2015
- Fees 30 bps

#### **Performance Goals**

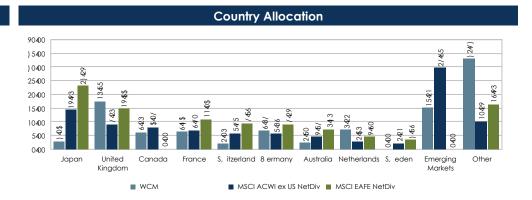
- Exceed the returns of the MSCI ACWI ex US NetDiv over a complete market cycle () to 5 years.4
- Rank above the median in the eA ACWI ex-US 8 ro, th Equity universe over a complete market cycle () to 5 years.

**Dollar Growth Summary (\$000s)** 

#### Characteristics 1\$0400 160400 190400 120400 100400 \$0400 60400 90400 20400 Wtd Avg Mkt Cap Med Mkt Cap (TBil. Dividend Geld PvE (1 Grirailing. EPS 8 ro, th (5 G Pro7. (T Bil. ■ WCM ■ MSCI ACWI ex US NetDiv ■ MSCI EAFE NetDiv



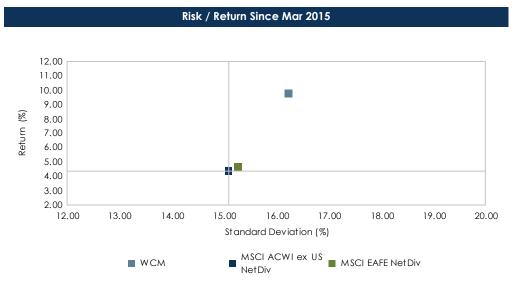
Bollar Grown commany (40003)		
3 Months	1 Year	
54,662	47,100	
-216	-9\$1	
-) 181/	9YI 10	
50,728	50,728	
	3 Months 54,662 -216 -) \(\cappa_1\)	



# **WCM Focused Int'l Growth**

For the Periods Ending December 31, 2024

**Sharpe Ratio** 



# WCM MSCI ACWI ex US NetDiv MSCI EAFE NetDiv Return (%) 9.76 4.35 4.62 Standard Deviation (%) 16.23 15.08 15.26

0.49

0.17

0.19

Portfolio Statistics Since Mar 2015

Benchmark Relative Statistics		
Beta	0.94	0.94
R Squared (%)	76.12	77.50
Alpha (%)	5.74	5.48
Tracking Error (%)	7.99	7.76
Batting Average (%)	59.32	60.17
Up Capture (%)	106.97	105.09
Down Capture (%)	82.93	82.86

#### Growth of a Dollar Since Mar 2015

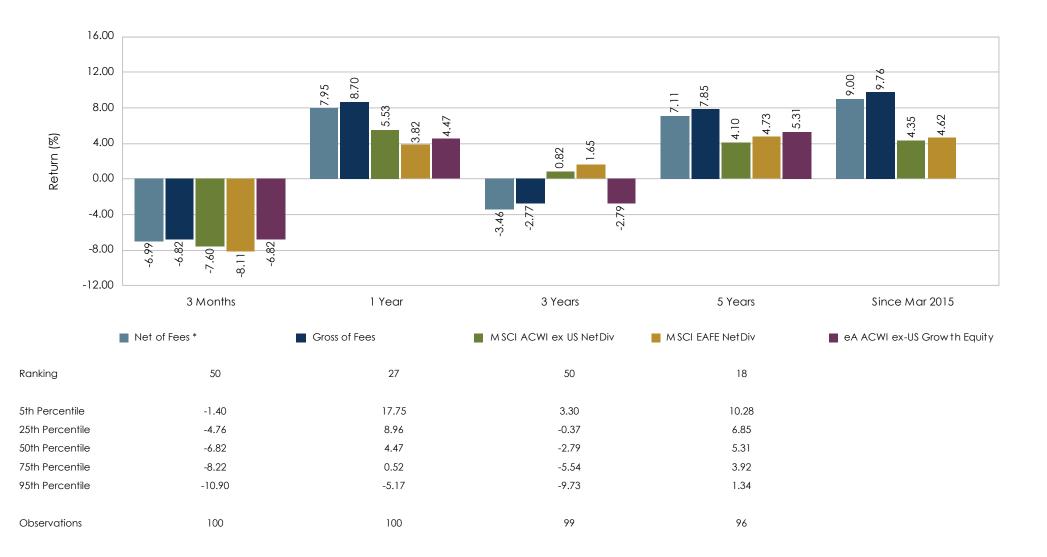


#### Return Analysis Since Mar 2015

	WCM	MSCI ACWI ex US NetDiv	MSCI EAFE NetDiv
Number of Months	118	118	118
Highest Monthly Return (%)	11.94	13.45	15.50
Lowest Monthly Return (%)	-12.87	-14.48	-13.35
Number of Positive Months	75	67	67
Number of Negative Months	43	51	51
% of Positive Months	63.56	56.78	56.78

### **WCM Focused Int'l Growth**

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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# **Axiom Emerging Markets**

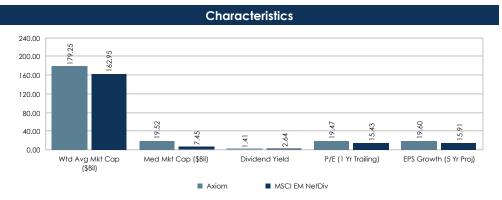
For the Periods Ending December 31, 2024

#### **Account Description**

- Strategy Emerging Markets Equity
- Vehicle Non-Mutual Commingled
- Benchmark MSCI EM NetDiv
- Performance Inception Date February 2023
- **Fees** 75 bps

#### **Performance Goals**

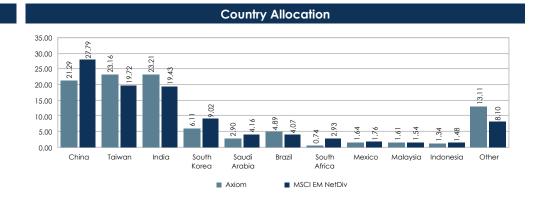
- Exceed the returns of the MSCI EM NetDiv over a complete market cycle (3 to 5 years).
- Rank above the median in the eA Global Emerging Mkts Equity universe over a complete market cycle (3 to 5 years).



#### **Sector Allocation** 35.00 30.00 27 25.00 20.00 15.00 10.00 5.00 0.00 Comm Services Cons Staples Financials Industrials Materials Cons Disc Health Care Info Tech Real Estate Cash Energy ■ MSCI EM NetDiv Axiom

# 3 Months 1 Year Beginning Market Value 38,330 33,483 Net Additions -71 -453 Return on Investment -65 5,163 Ending Market Value 38,194 38,194

**Dollar Growth Summary (\$000s)** 



# **Axiom Emerging Markets**

For the Periods Ending December 31, 2024

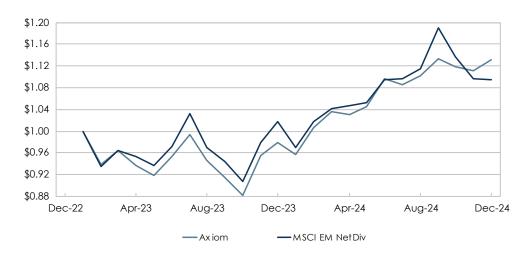


# Portfolio Statistics Since Feb 2023

	Axiom	MSCI EM NetDiv
Return (%)	6.61	4.81
Standard Deviation (%)	12.57	14.56
Sharpe Ratio	0.10	-0.03

0.80	
85.24	
2.64	
5.66	
52.17	
82.32	
75.61	
	85.24 2.64 5.66 52.17 82.32

#### Growth of a Dollar Since Feb 2023

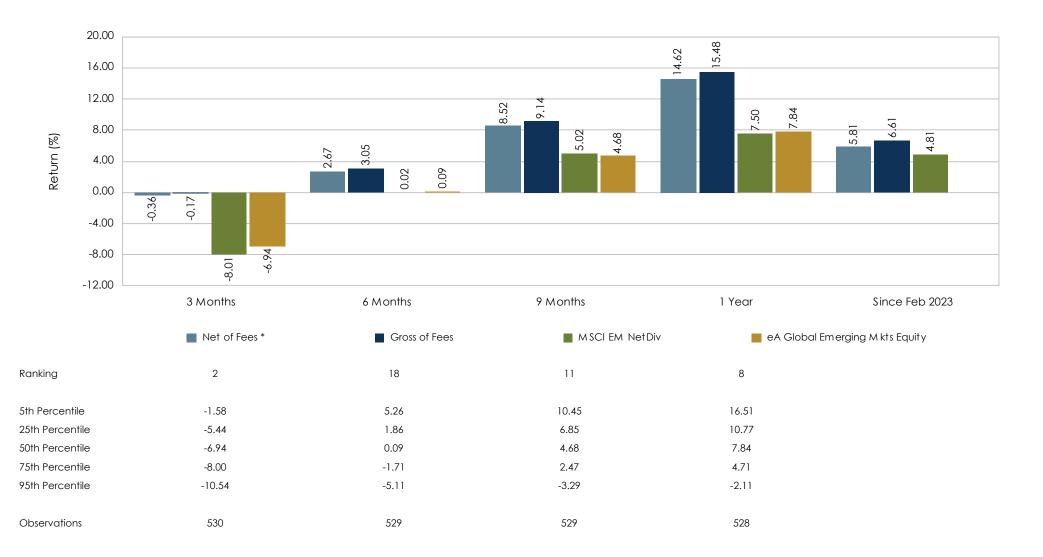


#### Return Analysis Since Feb 2023

	Axiom	MSCI EM NetDiv
Number of Months	23	23
Highest Monthly Return (%)	8.34	8.00
Lowest Monthly Return (%)	-6.20	-6.48
Number of Positive Months	12	13
Number of Negative Months	11	10
% of Positive Months	52.17	56.52

# **Axiom Emerging Markets**

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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# **Private Equity**

For the Period Ending December 31, 2024

### Summary of Cash Flows for 3 Months

Cash Outflows	Cash Inflows	Net Cash Flows
-1,600,000	271,600	-1,328,400

Summary of Portfolio Inception to Date

	Inception		Drawn	Remaining	Distributions	Adjusted		Total Value to	Annualized
	Date	Committed	to Date	Commitment	to Date	Ending Value	Total Value	Paid-in	IRR (%)
Total	Apr-23	35,000,000	10,950,000	24,050,000	641,800	12,042,451	12,684,251	1.16x	13.03
Warburg Pincus Global Growth 14	Apr-23	20,000,000	10,950,000	9,050,000	641,800	12,042,451	12,684,251	1.16x	13.03
Berkshire XI		15,000,000	-	15,000,000	-	-	-	-	NM

#### Cash Flow Activity for 3 Months

- Colon Tito in Titolinin, Toll Cilinolinin					
Fund Name	Date	Transaction Type	Cash Outflows	Cash Inflows	Net Cash Flows
Total			-1,600,000	271,600	-1,328,400
Warburg Pincus Global Growth 14	10/28/2024	Capital Call	-800,000	-	
Warburg Pincus Global Growth 14	12/11/2024	Capital Call	-800,000	-	
Warburg Pincus Global Growth 14	12/24/2024	Distribution	-	271,600	

### JP Morgan Fixed Income

For the Periods Ending December 31, 2024

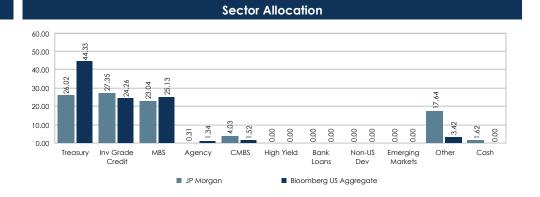
#### **Account Description**

- **Strategy** US Investment Grade
- Vehicle Non-Mutual Commingled
- Performance Inception Date June 1991
- Benchmark Bloomberg US Aggregate
- **Fees** 30 bps

#### **Performance Goals**

- Exceed the returns of the Bloomberg US Aggregate over a complete market cycle (3 to 5 years).
- Rank above median in the eA US Core Fixed Income universe over a complete market cycle (3 to 5 years).

#### **Characteristics** 10.00 8.35 8.00 6.04 6.08 6.00 5.52 4.91 4.00 2.00 0.00 Avg Maturity (yrs) YTM (%) Eff Duration (yrs) Avg Cpn (%) ■ JP Morgan ■ Bloomberg US Aggregate



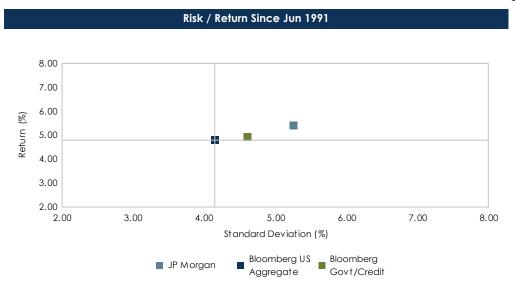
#### **Dollar Growth Summary (\$000s)** 3 Months 1 Year **Beginning Market Value** 48,400 36.516 **Net Additions** 9,845 -15 -1,442583 Return on Investment Income 515 1,711 -1.956 -1,128 Gain/Loss 46,943 **Ending Market Value** 46,943

Characteristic and allocation charts represents data of the JPMorgan Core Bond Trust (Non-Mutual Commingled). The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.



# JP Morgan Fixed Income

For the Periods Ending December 31, 2024

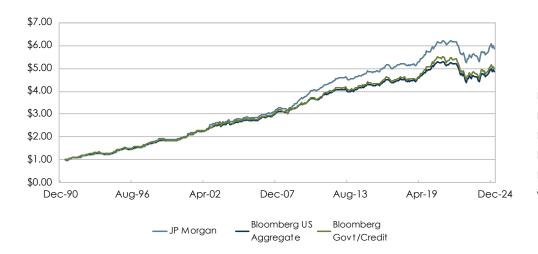


# Portfolio Statistics Since Jun 1991

	JP Morgan	Bloomberg US Aggregate	Bloomberg Govt/Credit
Return (%)	5.41	4.81	4.90
Standard Deviation (%)	5.25	4.15	4.61
Sharpe Ratio	0.57	0.58	0.54

Benchmark Relative Statistics			
Beta	0.83	0.74	
R Squared (%)	42.82	41.84	
Alpha (%)	1.46	1.82	
Tracking Error (%)	4.04	4.19	
Batting Average (%)	53.60	50.12	
Up Capture (%)	95.84	88.38	
Down Capture (%)	75.26	65.61	

#### Growth of a Dollar Since Jun 1991

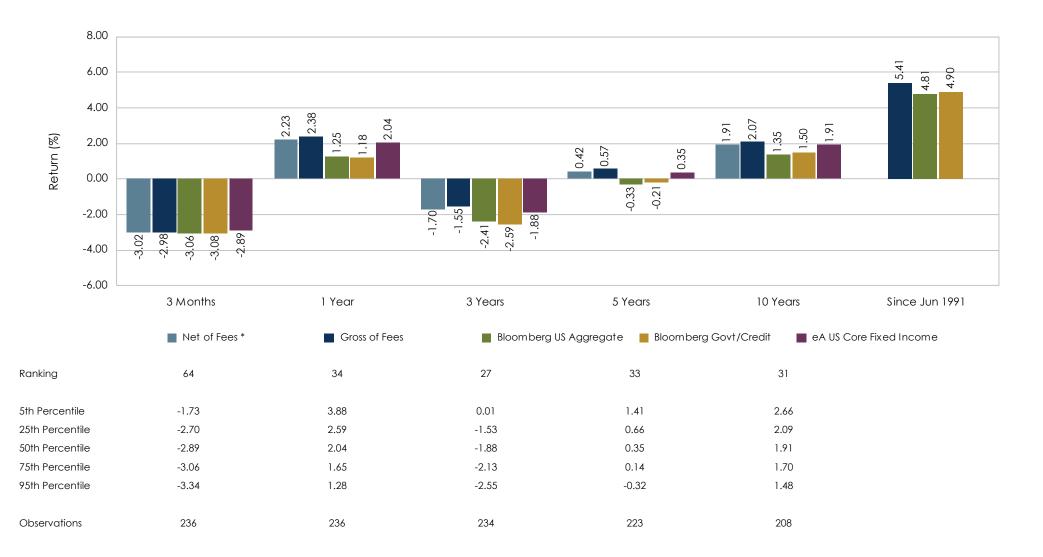


#### Return Analysis Since Jun 1991

	JP Morgan	Bloomberg US Aggregate	Bloomberg Govt/Credit
Number of Months	403	403	403
Highest Monthly Return (%)	8.30	4.53	4.53
Lowest Monthly Return (%)	-4.88	-4.32	-4.19
Number of Positive Months	296	261	256
Number of Negative Months	107	142	147
% of Positive Months	73.45	64.76	63.52

# JP Morgan Fixed Income

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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#### **Amundi Pioneer Core Plus Bond Fund**

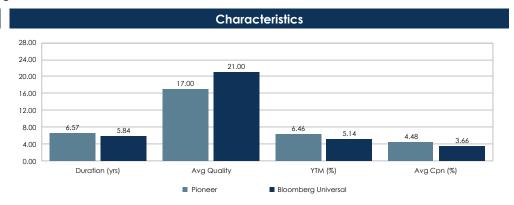
For the Periods Ending December 31, 2024

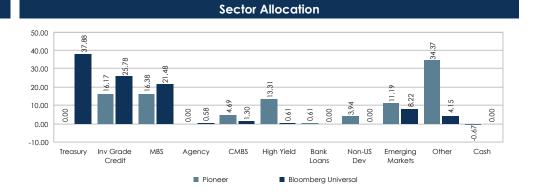
#### **Account Description**

- Strategy Multi-Sector Fixed Income
- Vehicle Non-Mutual Commingled
- Benchmark Bloomberg Universal
- Performance Inception Date November 2011
- Fees 25 bps

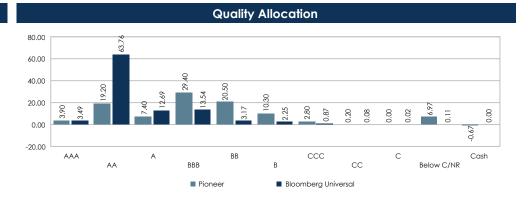
#### **Performance Goals**

- Exceed the returns of the Bloomberg Universal over a complete market cycle (3 to 5 years).
- Rank above the median in the eA US Core Plus Fixed Income universe over a complete market cycle (3 to 5 years).





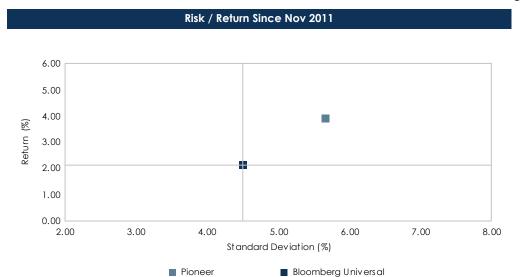
# Dollar Growth Summary (\$000s) 3 Months 1 Year Beginning Market Value 50,860 47,409 Net Additions -100 -237 Return on Investment -1,264 2,323 Ending Market Value 49,496 49,496



Characteristic and allocation charts represents the composite data of the Amundi Multi-Sector Fixed Income. The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.

### **Amundi Pioneer Core Plus Bond Fund**

For the Periods Ending December 31, 2024

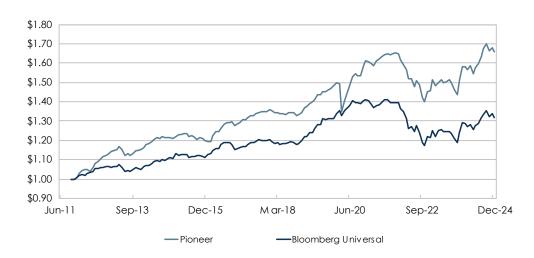


# Portfolio Statistics Since Nov 2011

	Pioneer	Bloomberg Universal
	rioneer	Universal
Return (%)	3.91	2.11
Standard Deviation (%)	5.66	4.50
Sharpe Ratio	0.46	0.17

Benchmark Relative Statistics			
Beta	1.03		
R Squared (%)	66.87		
Alpha (%)	1.77		
Tracking Error (%)	3.26		
Batting Average (%)	65.19		
Up Capture (%)	118.50		
Down Capture (%)	88.59		

#### Growth of a Dollar Since Nov 2011

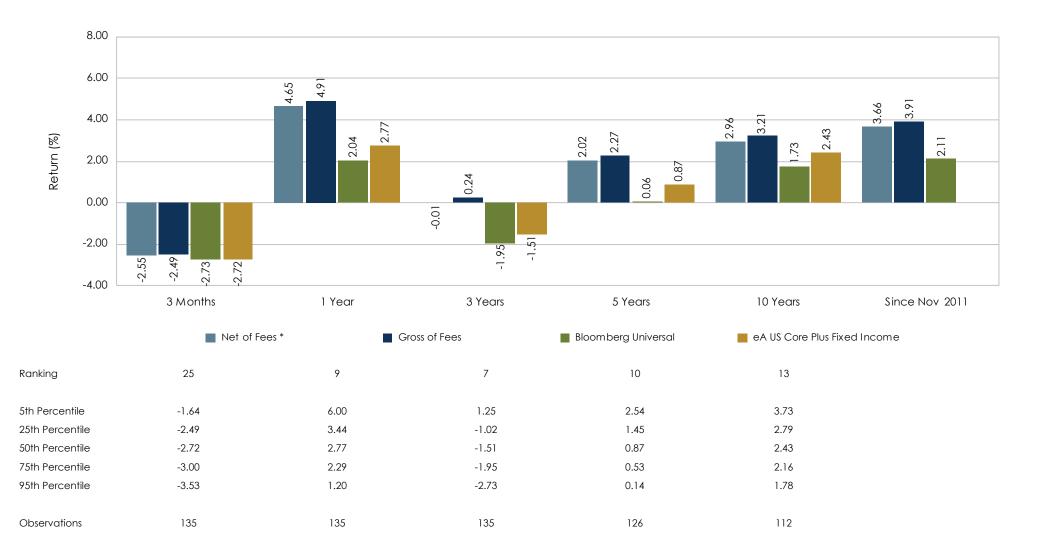


#### Return Analysis Since Nov 2011

	Pioneer	Bloomberg Universal
Number of Months	158	158
Highest Monthly Return (%)	5.18	4.50
Lowest Monthly Return (%)	-9.88	-4.31
Number of Positive Months	107	94
Number of Negative Months	51	64
% of Positive Months	67.72	59.49

### **Amundi Pioneer Core Plus Bond Fund**

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.

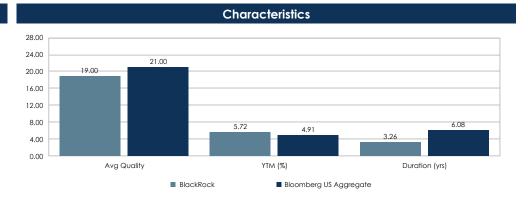
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# **BlackRock Strategic Income Opportunities**

For the Periods Ending December 31, 2024

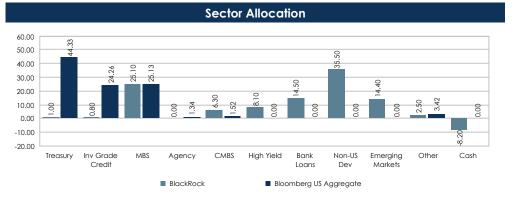
#### **Account Description**

- **Strategy** Absolute Return
- Vehicle Mutual Fund: Institutional Class (BSIKX)
- Benchmark Bloomberg US Aggregate
- Performance Inception Date July 2017
- **Expense Ratio** 65 bps

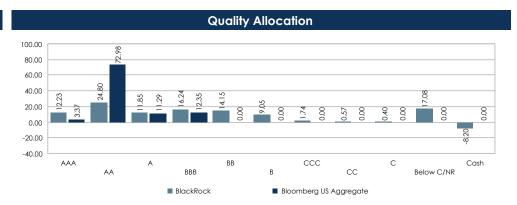


#### **Performance Goals**

 Meet or exceed the targeted return of the Bloomberg US Aggregate over a complete market cycle (typically 3-5 years).



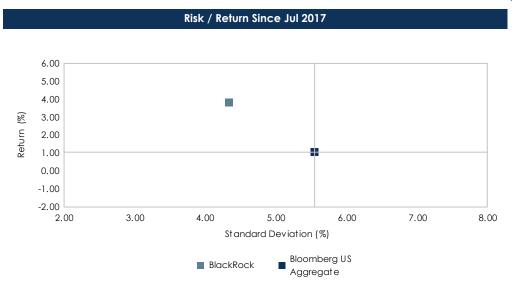
Dollar Growth Summary (\$000s)		
3 Months	s 1 Year	
55,223	52,175	
-78	-375	
-234	3,112	
54,912	54,912	
	<b>3 Months</b> <b>55,223</b> -78 -234	



Characteristic and allocation charts represents the composite data of the BlackRock Strategic Income Opportunities. The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.

# **BlackRock Strategic Income Opportunities**

For the Periods Ending December 31, 2024



### Portfolio Statistics Since Jul 2017

	BlackRock	Bloomberg US Aggregate
Return (%)	3.85	1.07
Standard Deviation (%)	4.33	5.56
Sharpe Ratio	0.37	-0.21

Benchmark Relative Statistics			
Beta	0.50		
R Squared (%)	41.42		
Alpha (%)	3.32		
Tracking Error (%)	4.32		
Batting Average (%)	65.56		
Up Capture (%)	73.34		
Down Capture (%)	31.79		

#### Growth of a Dollar Since Jul 2017

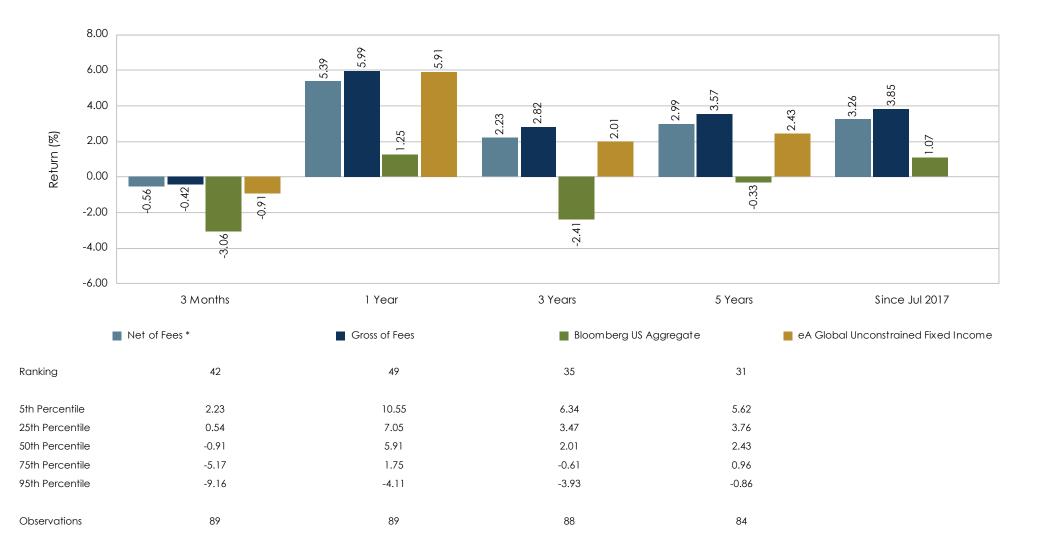


#### Return Analysis Since Jul 2017

	BlackRock	Bloomberg US Aggregate
Number of Months	90	90
Highest Monthly Return (%)	3.04	4.53
Lowest Monthly Return (%)	-6.59	-4.32
Number of Positive Months	59	46
Number of Negative Months	31	44
% of Positive Months	65.56	51.11

# **BlackRock Strategic Income Opportunities**

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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# JP Morgan Special Situation Property

For the Periods Ending December 31, 2024

#### **Account Description**

- **Strategy** Core Real Estate
- Vehicle Non-Mutual Commingled
- Performance Inception Date February 2007
- Benchmark NFI ODCE Net
- **Fees** 125 bps; 62.5 bps on investor's pro-rata share of Debt; 15 bps on cash in excess of 5% reserve position; fee is capped at 160 bps

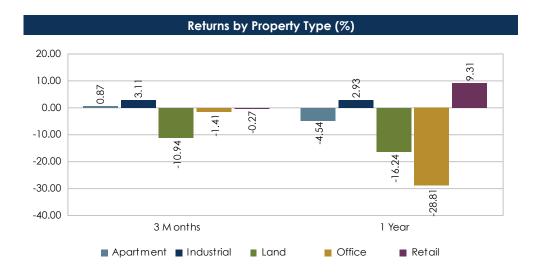
#### **Performance Goals**

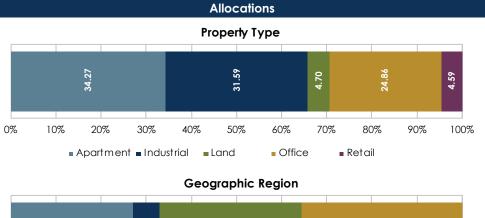
• Outperform the NFI ODCE Net by 100 basis points over 3 to 5 years.



**Account Information** 

Fund Information	
■ Gross Market Value	\$6,754,098,918
■ Net Market Value	\$3,023,156,766
Cash Balance of Fund	\$104,460,618
<ul><li>Quarter Income Return (%)</li></ul>	0.73
# of Properties	68
# of Participants	98

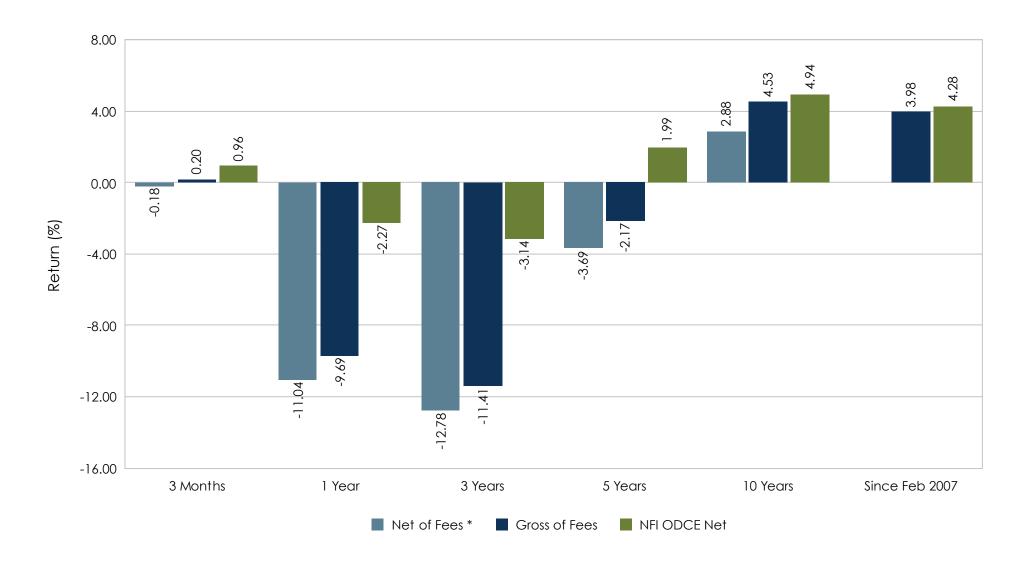






# JP Morgan Special Situation Property

For the Periods Ending December 31, 2024



# JP Morgan Strategic Property

For the Periods Ending December 31, 2024

Ending Market Value

#### **Account Description**

- **Strategy** Core Real Estate
- Vehicle Non-Mutual Commingled
- Performance Inception Date May 2007
- Benchmark NFI ODCE Net
- **Fees** 100 bps on first \$25M; 95 bps on next \$25M; 85 bps on next \$50M

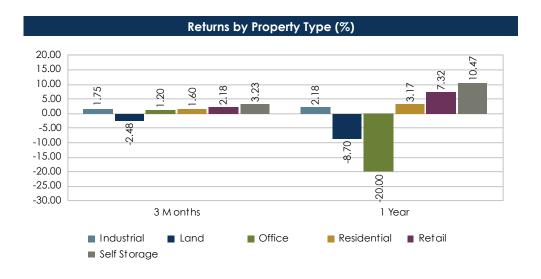
#### **Performance Goals**

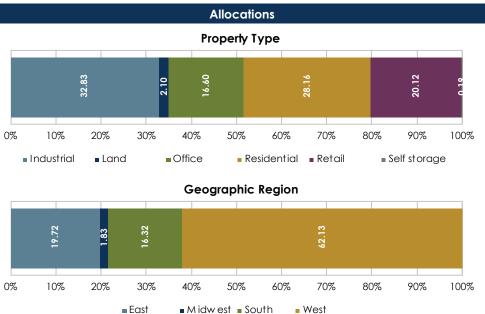
■ Exceed the total return of the NFI ODCE Net.



**Account Information** 

# of Properties# of Participants319

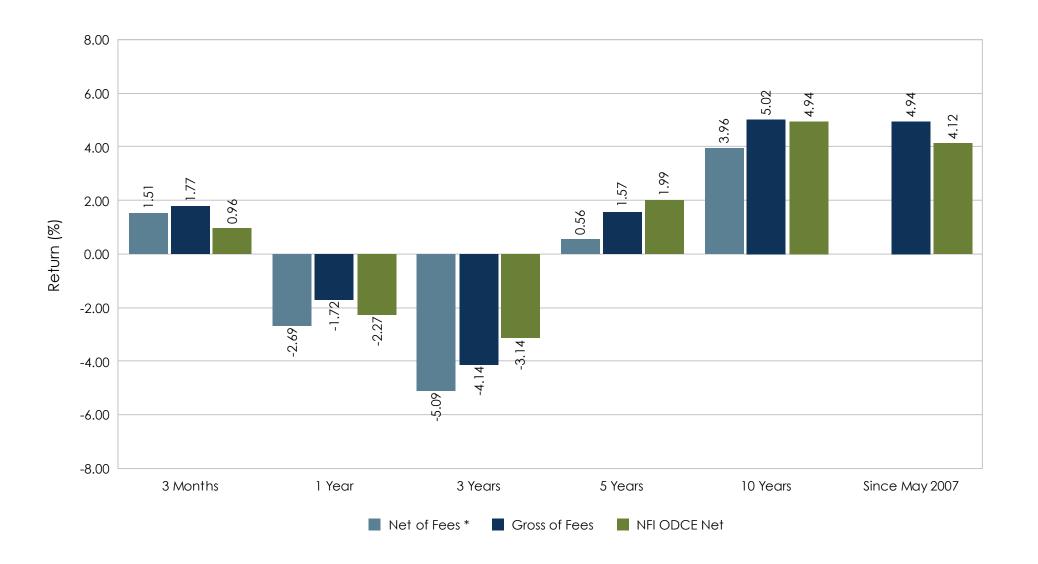




\$31,571,168

# JP Morgan Strategic Property

For the Periods Ending December 31, 2024



#### **Clarion Lion Industrial Trust**

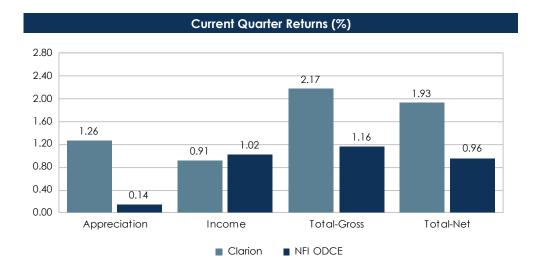
For the Periods Ending December 31, 2024

#### **Account Description**

- **Strategy** Core Real Estate
- Vehicle Limited Partnership
- Benchmark NFI ODCE Net
- Performance Inception Date July 2022
- Fees 135 bps on First \$10 M of NAV; 130 bps on NAV between \$10 \$50 M. Incentive fee: 15% over an 9% net IRR hurdle.

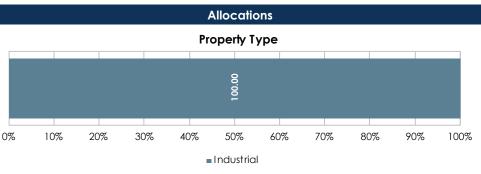
#### **Performance Goals**

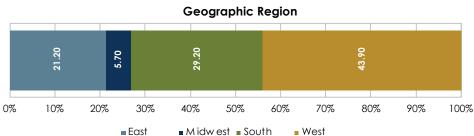
- Achieve a 9.5% 11.5% internal rate of return over a complete market cycle.
- Outperform the NFI ODCE Net by 100 basis points over 3 to 5 years.





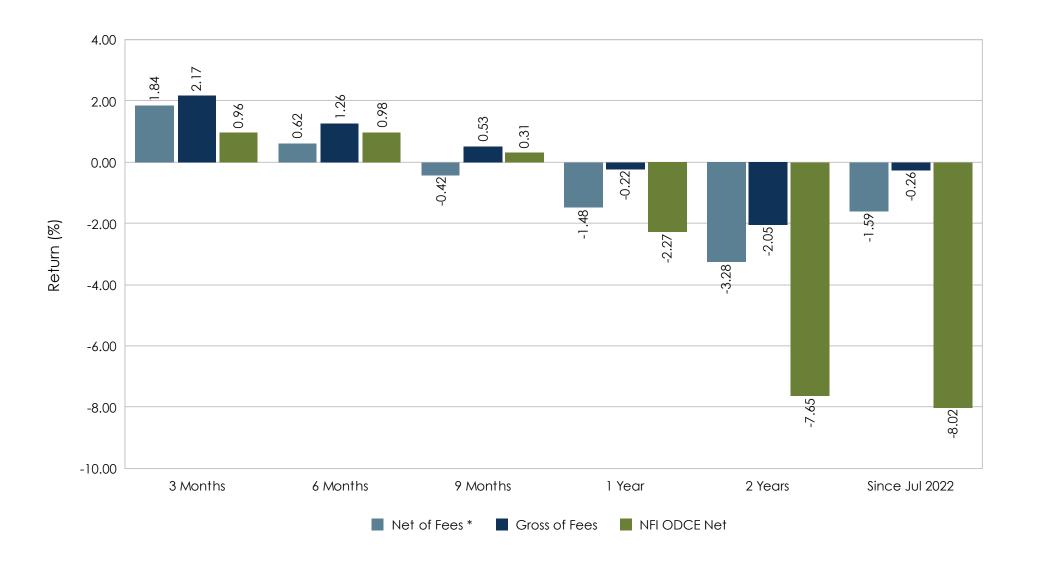
Fund Informatio	on
Gross Market Value	\$31,930,000,000
■ Net Market Value	\$20,799,000,000
Cash Balance of Fund	\$287,370,000
# of Properties	743
# of Participants	345





### **Clarion Lion Industrial Trust**

For the Periods Ending December 31, 2024



# **Morgan Stanley Prime Property**

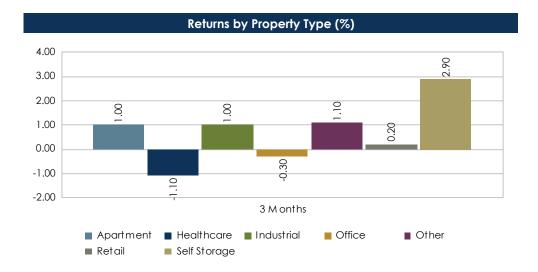
For the Periods Ending December 31, 2024

#### **Account Description**

- **Strategy** Core Real Estate
- Vehicle Non-Mutual Commingled
- Benchmark NFI ODCE
- Performance Inception Date January 2025
- Fees 84 bps on NAV; incentive fee ranging from 0 to 35 bps based on the Fund's NOI Growth

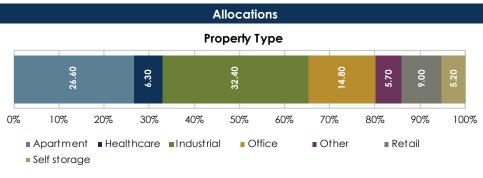
#### **Performance Goals**

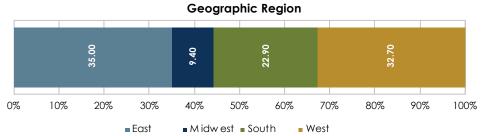
■ Exceed the total return of the NFI ODCE.



# Account Information Ending Market Value \$30,000,000

Fund Information	
Gross Market Value	\$40,644,000,000
■ Net Market Value	\$30,253,000,000
Cash Balance of Fund	\$60,506,000
# of Properties	517
# of Participants	472





Oklahoma Municipal Retirement Fund - Defined Contribution

**Defined Contribution Plan Performance** 

# **Growth and Value Option**

For the Periods Ending December 31, 2024

Manager Allocation		
Name	Market Value (\$000s)	Allocation (%)
Total	29,548	100.00
Vanguard Total Stock	14,851	50.26
T. Rowe Price	7,588	25.68
Vanguard Windsor II	7,109	24.06

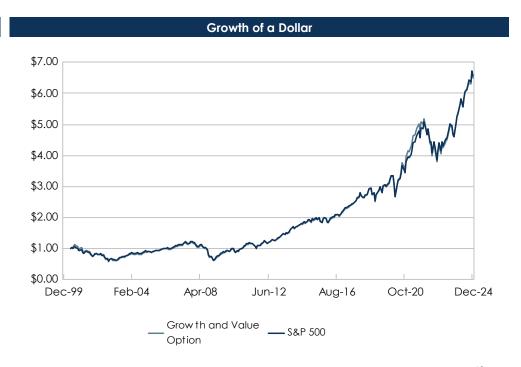
Large Cap Core Equity Option - Large cap equities are companies with
market capitalizations greater than \$10 billion.

This option includes a combination of "growth" and "value" portfolios focused in the large cap asset class.

**Portfolio Information** 

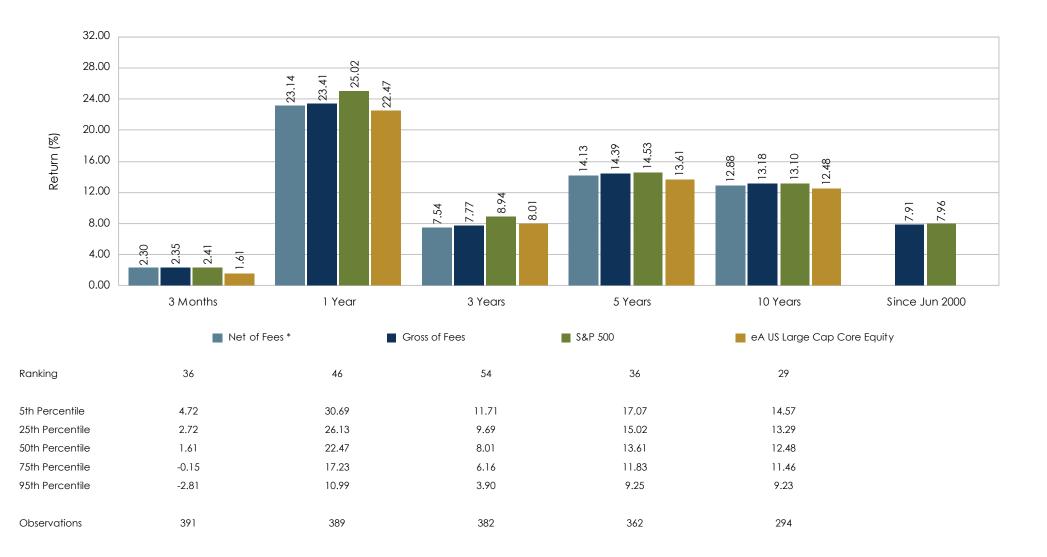
Performance goals 1) to achieve returns 100 basis points in excess of the S&P 500 index, and 2) to rank above median in a universe of large cap core managers over a complete market cycle.

Dollar Growth Summary (\$000s)		
	3 Months	1 Year
Beginning Market Value	29,065	24,759
Net Additions	-192	-927
Return on Investment	675	5,717
Ending Market Value	29.548	29,548



# **Growth and Value Option**

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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# **Vanguard Windsor II**

For the Periods Ending December 31, 2024

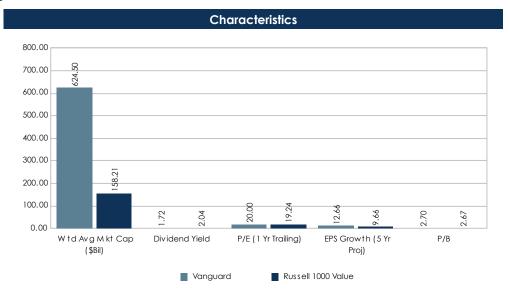
#### **Account Description**

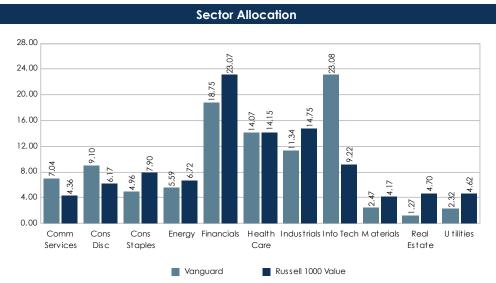
- Strategy US Large Cap Value
- Vehicle Mutual Fund: Institutional Class (VWNAX)
- Benchmark Russell 1000 Value
- Performance Inception Date June 2003
- Expense Ratio 23 bps

#### **Performance Goals**

 Exceed the returns of the Russell 1000 Value over a complete market cycle (3 to 5 years).

# Beginning Market Value 7,293 6,133 Net Additions -101 67 Return on Investment -83 910 Ending Market Value 7,109



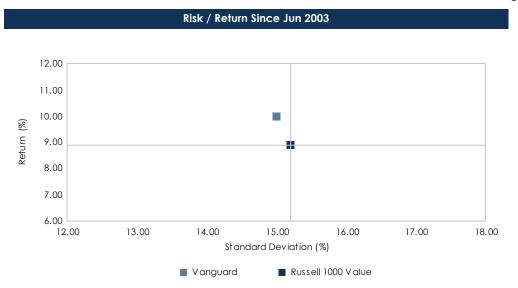


Characteristic and allocation charts represents data of the Vanguard Windsor II Admiral (Mutual Fund: Institutional Class: VWNAX).

Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

# Vanguard Windsor II

For the Periods Ending December 31, 2024

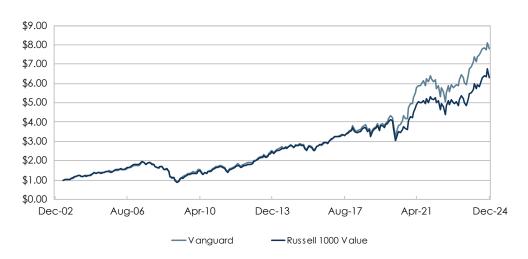


#### Portfolio Statistics Since Jun 2003

	Vanguard	Russell 1000 Value
Return (%)	9.96	8.89
Standard Deviation (%)	15.01	15.20
Sharpe Ratio	0.56	0.48

Benchmark Relative Statistics		
Beta	0.97	
R Squared (%)	96.35	
Alpha (%)	1.27	
Tracking Error (%)	2.91	
Batting Average (%)	55.21	
Up Capture (%)	99.05	
Down Capture (%)	94.11	

#### Growth of a Dollar Since Jun 2003

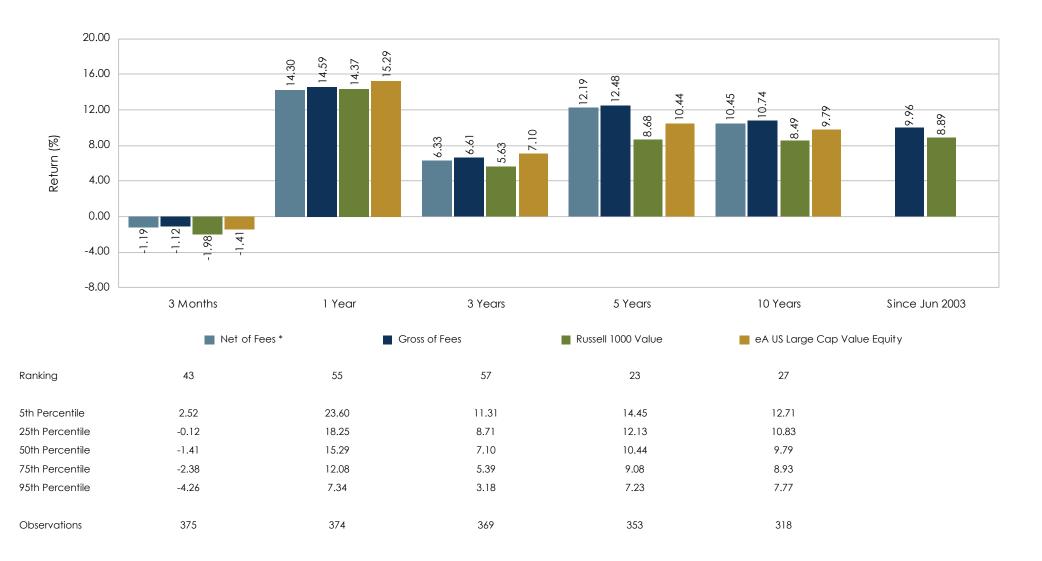


#### Return Analysis Since Jun 2003

	Vanguard	Russell 1000 Value
Number of Months	259	259
Highest Monthly Return (%)	13.35	13.45
Lowest Monthly Return (%)	-17.40	-17.31
Number of Positive Months	171	164
Number of Negative Months	88	95
% of Positive Months	66.02	63.32

# **Vanguard Windsor II**

For the Periods Ending December 31, 2024



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# **Vanguard Total Stock**

For the Periods Ending December 31, 2024

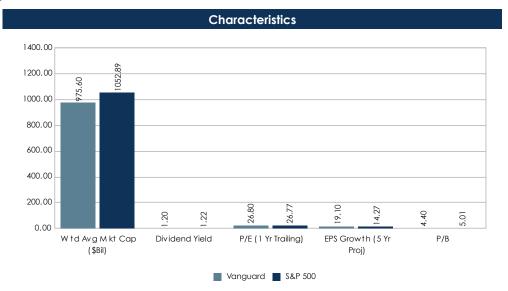
#### **Account Description**

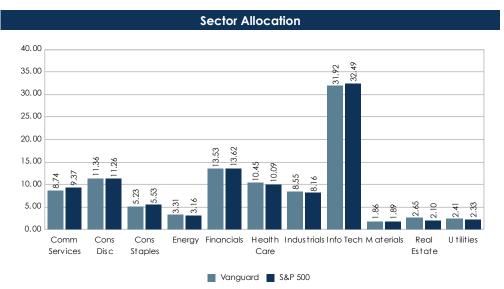
- Strategy US All Cap Core
- Vehicle Mutual Fund: Institutional Class (VITSX)
- Benchmark S&P 500
- Performance Inception Date February 2008
- **Expense Ratio** 3 bps

#### **Performance Goals**

Approximate the risk and return profile of the S&P 500 Index.

# Beginning Market Value 14,701 12,331 Net Additions -228 -392 Return on Investment 377 2,912 Ending Market Value 14,851 14,851





Characteristic and allocation charts represents data of the Vanguard Total Stock Market Index Fund (Mutual Fund: Institutional Class: VITSX). Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

# **Vanguard Total Stock**

For the Periods Ending December 31, 2024



#### Portfolio Statistics Since Feb 2008

	Vanguard	S&P 500
Return (%)	11.02	11.12
Standard Deviation (%)	16.42	15.90
Sharpe Ratio	0.60	0.63

Benchmark Relative Statistics		
Beta	1.03	
R Squared (%)	99.34	
Alpha (%)	-0.35	
Tracking Error (%)	1.42	
Batting Average (%)	49.75	
Up Capture (%)	102.19	
Down Capture (%)	102.62	

#### Growth of a Dollar Since Feb 2008

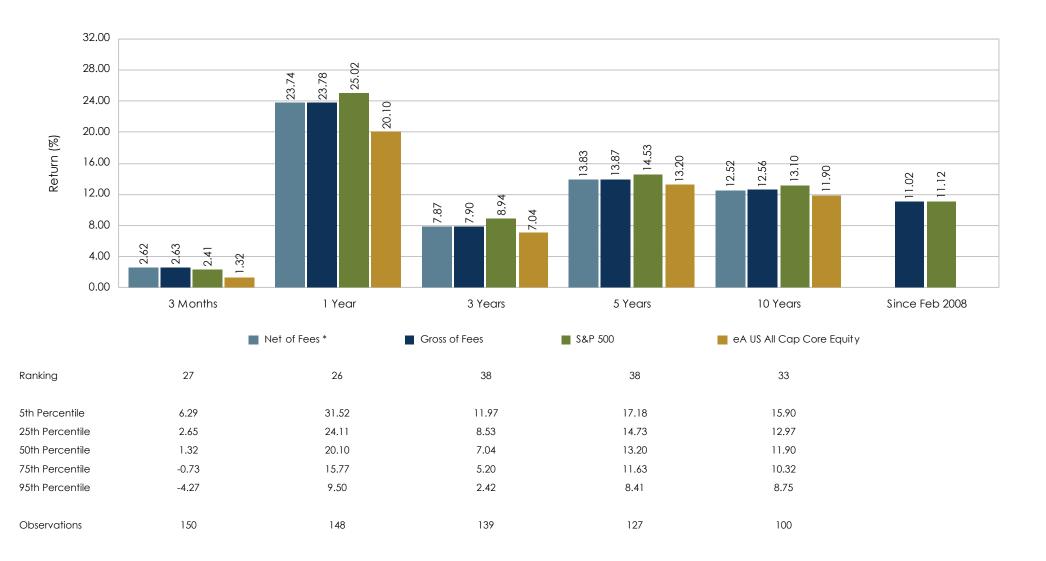


#### Return Analysis Since Feb 2008

	Vanguard	S&P 500
Number of Months	203	203
Highest Monthly Return (%)	13.26	12.82
Lowest Monthly Return (%)	-17.62	-16.80
Number of Positive Months	136	137
Number of Negative Months	67	66
% of Positive Months	67.00	67.49

### **Vanguard Total Stock**

For the Periods Ending December 31, 2024



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### T. Rowe Price

For the Periods Ending December 31, 2024

### **Account Description**

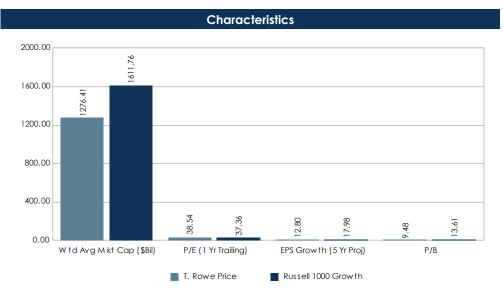
- Strategy US Large Cap Equity
- **Vehicle** Mutual Fund: Institutional Class (TRLGX)
- Benchmark Russell 1000 Growth
- Performance Inception Date July 2021
- **Expense Ratio** 56 bps

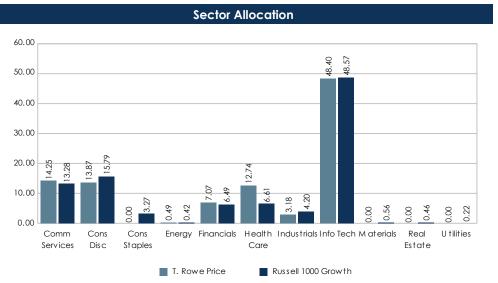
### **Performance Goals**

 Exceed the returns of the Russell 1000 Growth over a complete market cycle (3 to 5 years).

### Dollar Growth Summary (\$000s)

	3 Months	1 Year
Beginning Market Value	7,071	6,295
Net Additions	137	-602
Return on Investment	380	1,894
Ending Market Value	7,588	7,588



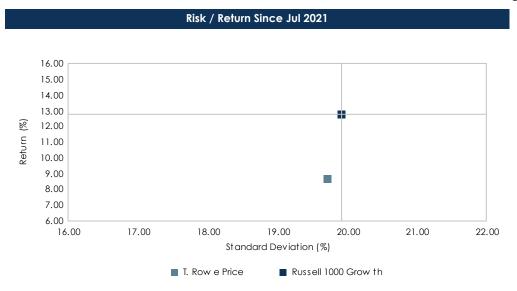


Characteristic and allocation charts represents data of the T. Rowe Price Institutional LCG (Mutual Fund: Institutional Class: TRLGX).

Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

### T. Rowe Price

For the Periods Ending December 31, 2024



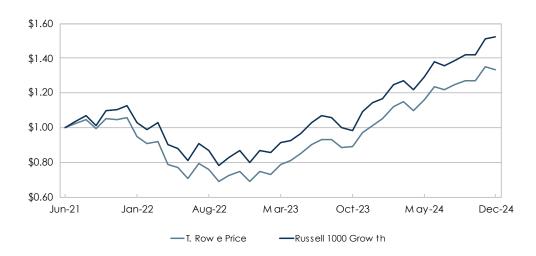
### \_

Portfolio Statistics Since Jul 2021

		Russell 1000
	T. Rowe Price	Growth
Return (%)	8.64	12.76
Standard Deviation (%)	19.72	19.92
Sharpe Ratio	0.27	0.47

Benchmark Relative Statistics		
Beta	0.97	
R Squared (%)	96.42	
Alpha (%)	-3.33	
Tracking Error (%)	3.77	
Batting Average (%)	45.24	
Up Capture (%)	86.46	
Down Capture (%)	99.94	

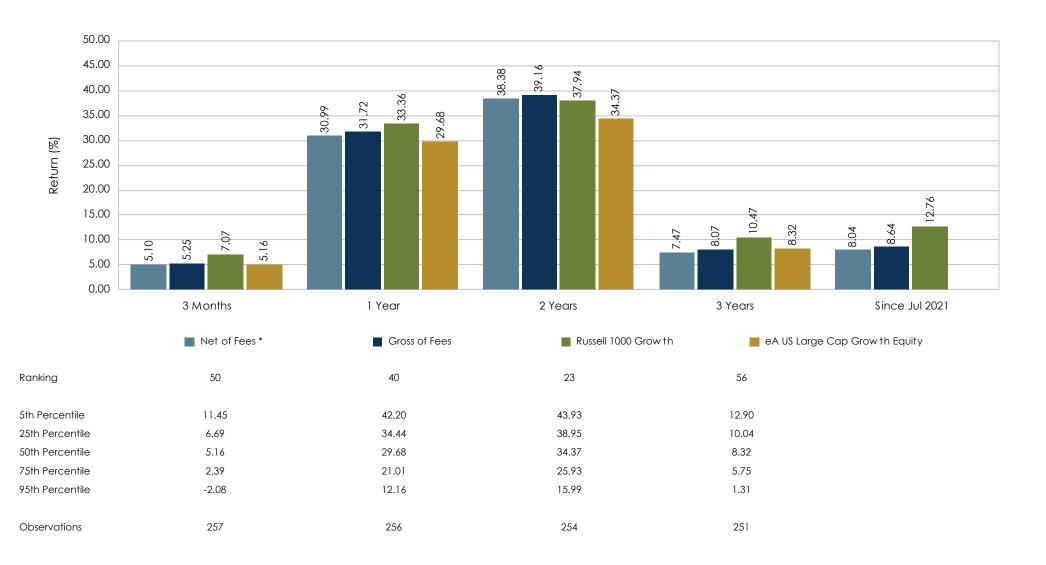
### Growth of a Dollar Since Jul 2021



### Return Analysis Since Jul 2021

	T. Rowe Price	Russell 1000 Growth
Number of Months	42	42
Highest Monthly Return (%)	12.11	12.00
Lowest Monthly Return (%)	-13.96	-12.08
Number of Positive Months	26	26
Number of Negative Months	16	16
% of Positive Months	61.90	61.90

**T. Rowe Price**For the Periods Ending December 31, 2024



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### **S&P 500 Option**

For the Periods Ending December 31, 2024

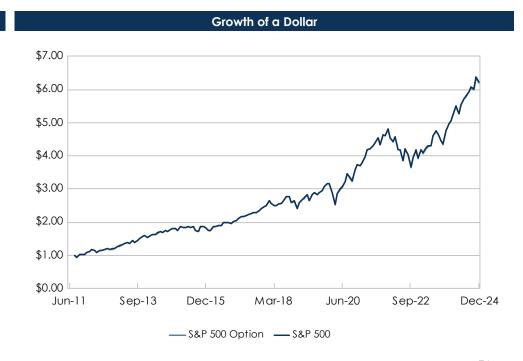
Manager Allocation			
Name	Market Value (\$000s)	Allocation (%)	
Total	47,536	100.00	
SSGA S&P 500 Non Lending	47,536	100.00	

S&P	500	Index	Ontion	

- This option includes the passively managed SSgA S&P 500 Index Fund.
- Performance Goal Mirror the risk and return profile of the S&P 500 over all time periods.

**Portfolio Information** 

Dollar Growth Summary (\$000s)		
	3 Months	1 Year
Beginning Market Value	48,057	40,364
Net Additions	-1,647	-2,777
Return on Investment	1,126	9,949
Endina Market Value	47.536	47.536



### SSGA S&P 500 Non Lending

For the Periods Ending December 31, 2024

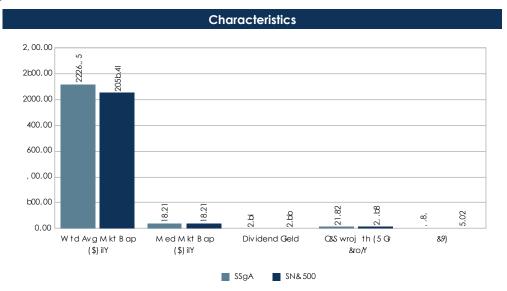
### **Account Description**

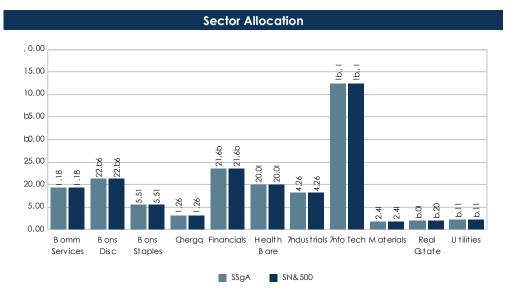
- Strategy US Large B ap Œuitq
- Vehicle y on-Mutual B ommingled
- Benchmark SN & 500
- Performance Inception Date FePruarq b020
- Fees 1 Pps

### **Performance Goals**

• Mirror the risk and return profile of the SN&500 over all time periods.

# Dollar Growth Summary (\$000s) 3 Months 1 Year Beginning Market Value 48,057 40,364 y et Additions -236, 8 -5388 Return on Thyestment 232b6 13, 1 Ending Market Value 47,536 47,536

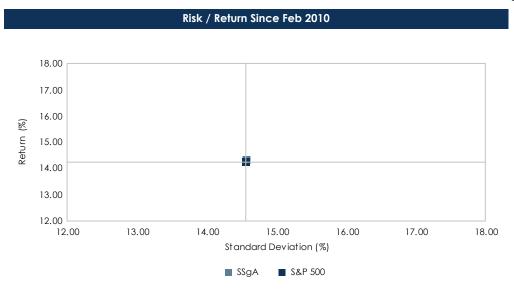




Characteristic and allocation charts represents data of the State Street S&P 500 Flagship Non-Lending Fund (Non-Mutual Commingled). Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

### SSGA S&P 500 Non Lending

For the Periods Ending December 31, 2024



### Portfolio Statistics Since Feb 2010

	SSgA	S&P 500
Return (%)	14.32	14.24
Standard Deviation (%)	14.57	14.56
Sharpe Ratio	0.90	0.90

Benchmark Relative Statistics		
Beta	1.00	
R Squared (%)	99.99	
Alpha (%)	0.06	
Tracking Error (%)	0.11	
Batting Average (%)	52.51	
Up Capture (%)	100.24	
Down Capture (%)	99.94	



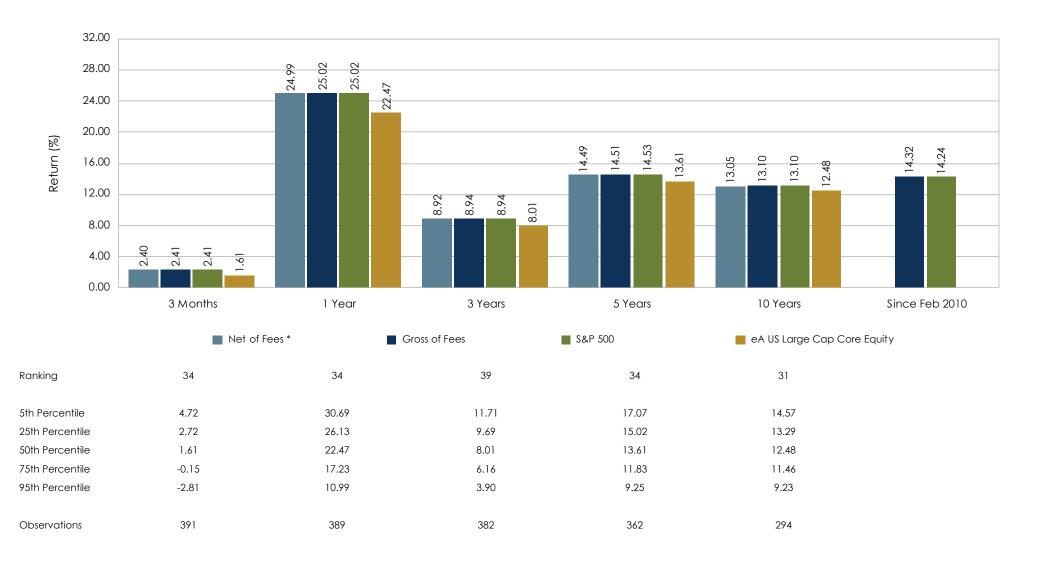


### Return Analysis Since Feb 2010

	SSgA	\$&P 500
Number of Months	179	179
Highest Monthly Return (%)	12.81	12.82
Lowest Monthly Return (%)	-12.35	-12.35
Number of Positive Months	124	124
Number of Negative Months	55	55
% of Positive Months	69.27	69.27

### SSGA S&P 500 Non Lending

For the Periods Ending December 31, 2024



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### **Aggressive Equity Option**

For the Periods Ending December 31, 2024

Manager Allocation			
Name	Market Value (\$000s)	Allocation (%)	
Total	19,332	100.00	
SSgA Russell Small Cap Completeness	9,867	51.04	
William Blair SMid Growth	4,793	24.80	
Integrity Small Cap Value	4,672	24.17	

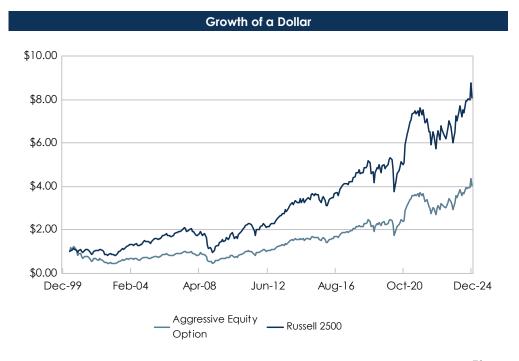
Cmall ta	Mid Can	Fauity Option	

- Small to Mid Cap Equity Option
- This option includes a combination of portfolios focused in the small and mid cap asset classes.

**Portfolio Information** 

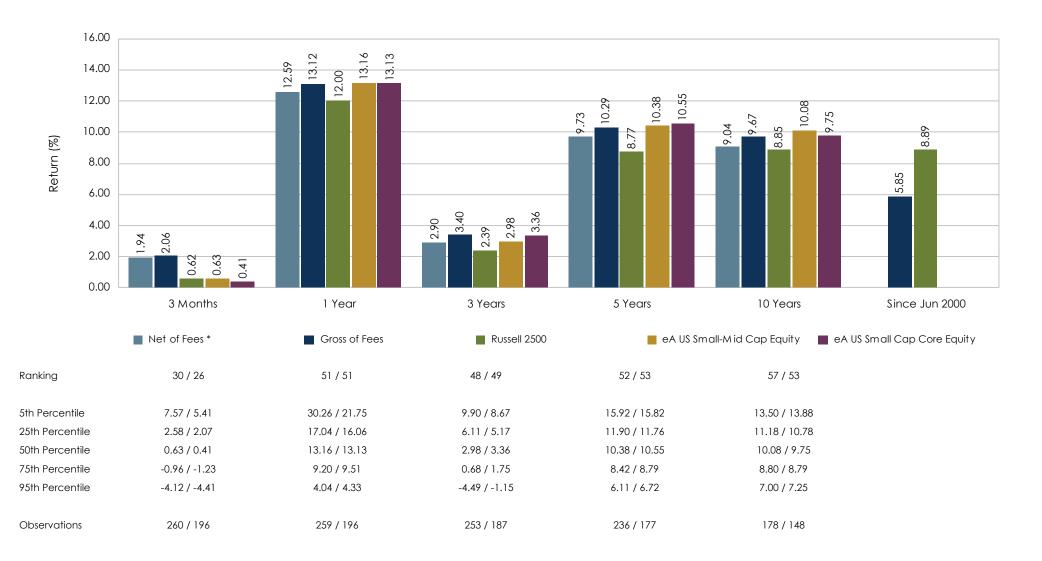
Performance goals - 1) to achieve returns 100 basis points in excess of the Russell 2500 Index, and 2) to exceed the return of the median small/mid cap core manager over a complete market cycle (3 to 5 years).

Dollar Growth Summary (\$000s)		
	3 Months	1 Year
Beginning Market Value	19,108	18,543
Net Additions	-171	-1,547
Return on Investment	394	2,336
Ending Market Value	19,332	19,332



### **Aggressive Equity Option**

For the Periods Ending December 31, 2024



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### Integrity Small Cap Value

For the Periods Ending December 31, 2024

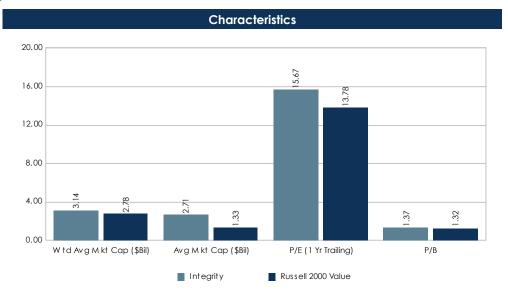
### **Account Description**

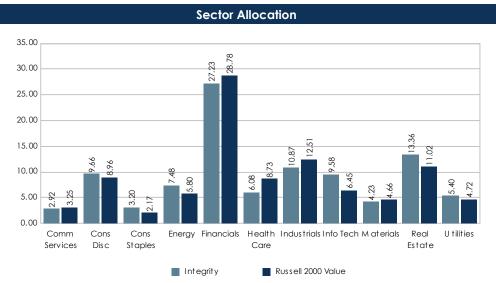
- Strategy US Small Cap Value
- Vehicle Mutual Fund (MVSSX)
- Benchmark Russell 2000 Value
- Performance Inception Date September 2015
- **Expense Ratio** 96 bps

### **Performance Goals**

 Exceed the returns of the Russell 2000 Value over a complete market cycle (3 to 5 years).

## Beginning Market Value 4,737 4,560 Net Additions 5 -161 Return on Investment -70 272 Ending Market Value 4,672 4,672



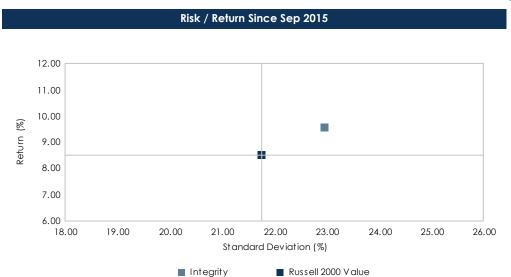


Characteristic and allocation charts represents data of the Victory Integrity Small Value R6 (Mutual Fund: MVSSX).

Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

### Integrity Small Cap Value

For the Periods Ending December 31, 2024

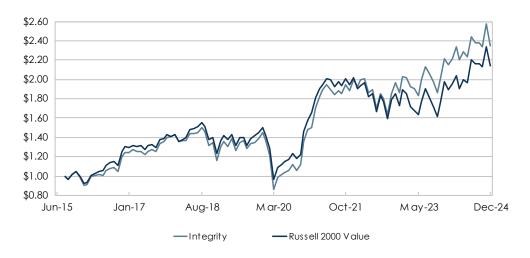


### Portfolio Statistics Since Sep 2015

	Integrity	Russell 2000 Value
Return (%)	9.57	8.49
Standard Deviation (%)	22.97	21.77
Sharpe Ratio	0.34	0.30

Benchmark Relative Statistics		
1.03		
96.15		
0.94		
4.57		
51.79		
103.33		
99.61		
	1.03 96.15 0.94 4.57 51.79 103.33	

### Growth of a Dollar Since Sep 2015

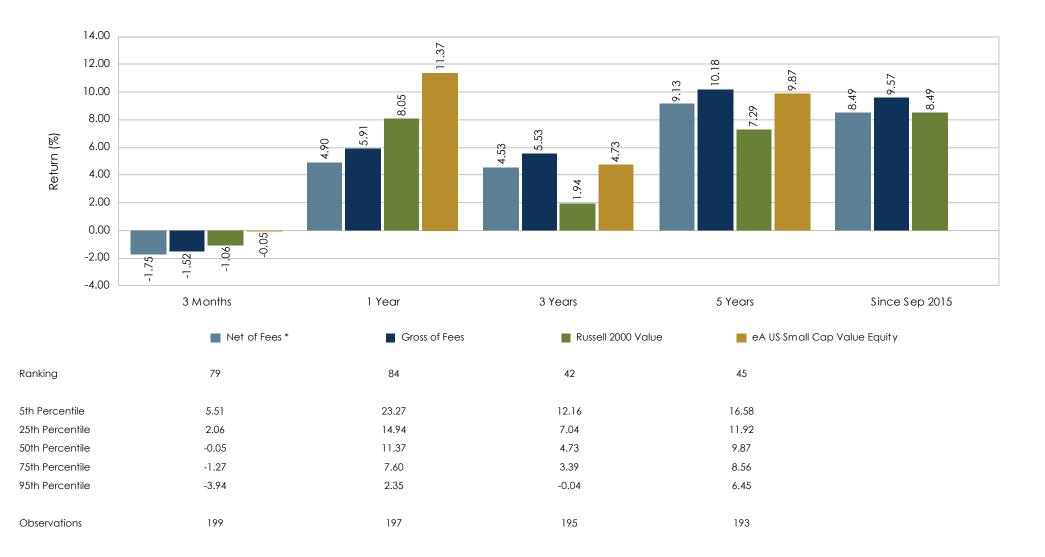


### Return Analysis Since Sep 2015

	Integrity	Russell 2000 Value
Number of Months	112	112
Highest Monthly Return (%)	21.66	19.31
Lowest Monthly Return (%)	-29.00	-24.67
Number of Positive Months	68	69
Number of Negative Months	44	43
% of Positive Months	60.71	61.61

### Integrity Small Cap Value

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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### SSgA Russell Small Cap Completeness

For the Periods Ending December 31, 2024

### **Account Description**

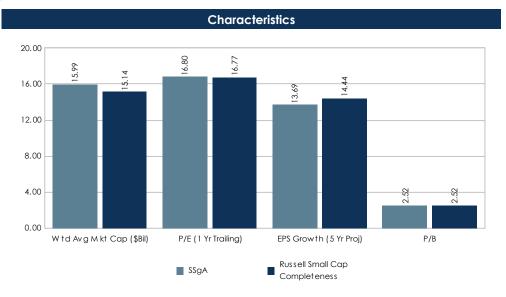
- Strategy US Small Cap Core
- Vehicle Non-Mutual Commingled
- Benchmark Russell Small Cap Completeness
- Performance Inception Date May 2010
- **Fees** 5.2 bps

### **Performance Goals**

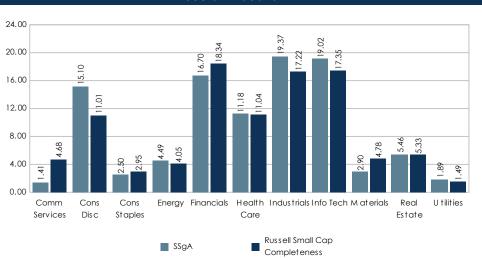
 Mirror the risk and return profile of the Russell Small Cap Completeness over all time periods.

### Dollar Growth Summary (\$000s)

	3 Months	1 Year
Beginning Market Value	9,578	9,389
Net Additions	-114	-1,021
Return on Investment	403	1,499
Ending Market Value	9,867	9,867



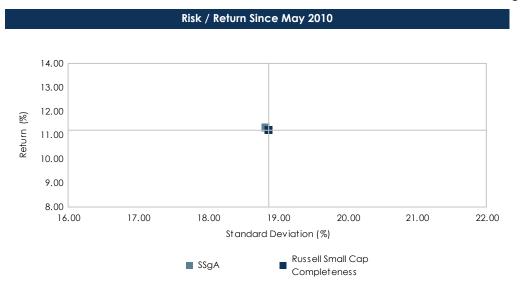
### **Sector Allocation**



Characteristic and allocation charts represents data of the Small/Mid Cap Index Non-Lending Series Fund (Non-Mutual Commingled). Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

### SSgA Russell Small Cap Completeness

For the Periods Ending December 31, 2024

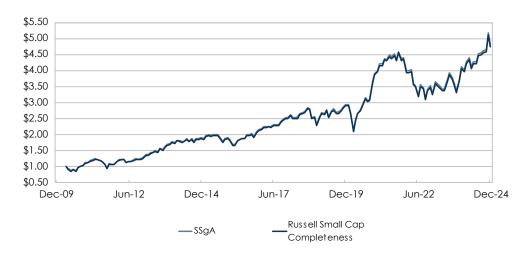


### Portfolio Statistics Since May 2010 Russell Small Cap

		C	
	SSgA	Cap Completeness	
Return (%)	11.31	11.21	
Standard Deviation (%)	18.83	18.88	
Sharpe Ratio	0.54	0.53	

Benchmark Relative Statistics		
Beta	1.00	
R Squared (%)	99.97	
Alpha (%)	0.12	
Tracking Error (%)	0.33	
Batting Average (%)	51.14	
Up Capture (%)	100.04	
Down Capture (%)	99.66	

### Growth of a Dollar Since May 2010

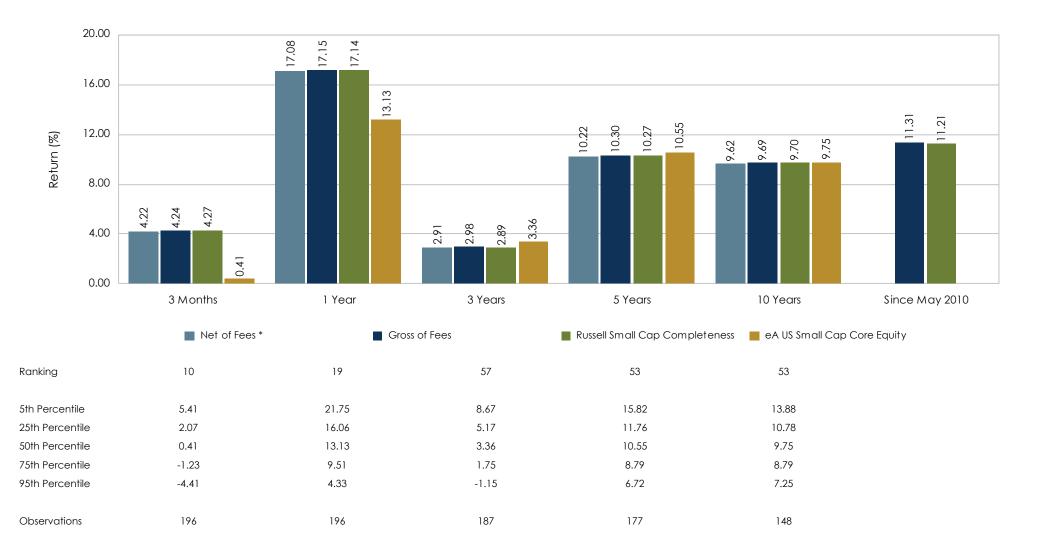


### Return Analysis Since May 2010

		Russell Small Cap
	SSgA	Completeness
Number of Months	176	176
Highest Monthly Return (%)	18.17	18.17
Lowest Monthly Return (%)	-21.22	-21.22
Number of Positive Months	108	108
Number of Negative Months	68	68
% of Positive Months	61.36	61.36

### SSgA Russell Small Cap Completeness

For the Periods Ending December 31, 2024



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### William Blair SMid Growth

For the Periods Ending December 31, 2024

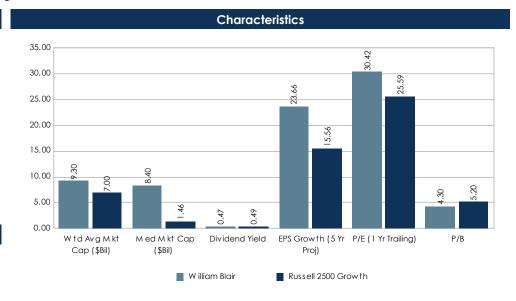
### **Account Description**

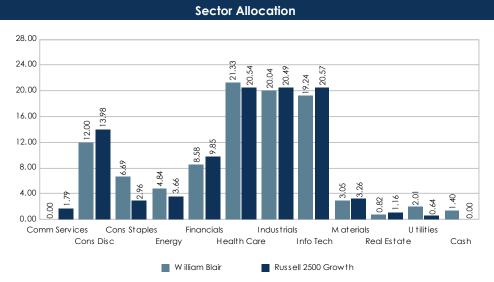
- Strategy US Small Cap Growth
- Vehicle Non-Mutual Commingled
- Benchmark Russell 2500 Growth
- Performance Inception Date November 2022
- **Fees** 85 bps

### **Performance Goals**

 Exceed the return of the Russell 2500 Growth over a complete market cycle (3 to 5 years).

# Beginning Market Value 4,793 4,594 Net Additions -61 -366 Return on Investment 62 565 Ending Market Value 4,793 4,793



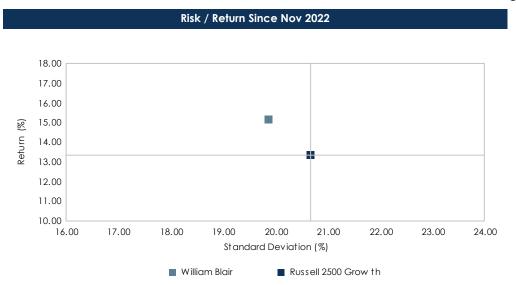


Characteristic and allocation charts represents the composite data of the William Blair SMid Growth.

Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

### William Blair SMid Growth

For the Periods Ending December 31, 2024

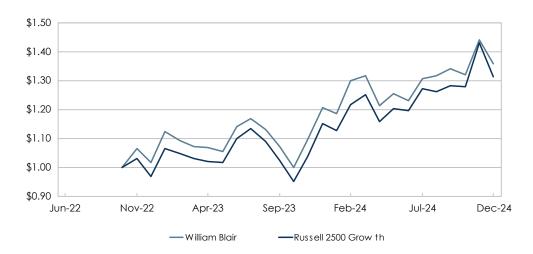


### Portfolio Statistics Since Nov 2022

	William Blair	Russell 2500 Growth
Return (%)	15.17	13.35
Standard Deviation (%) Sharpe Ratio	19.87 0.50	20.67 0.40

Benchmark Relative Statistics		
Beta	0.94	
R Squared (%)	94.69	
Alpha (%)	2.42	
Tracking Error (%)	4.77	
Batting Average (%)	57.69	
Up Capture (%)	100.11	
Down Capture (%)	94.25	

### Growth of a Dollar Since Nov 2022

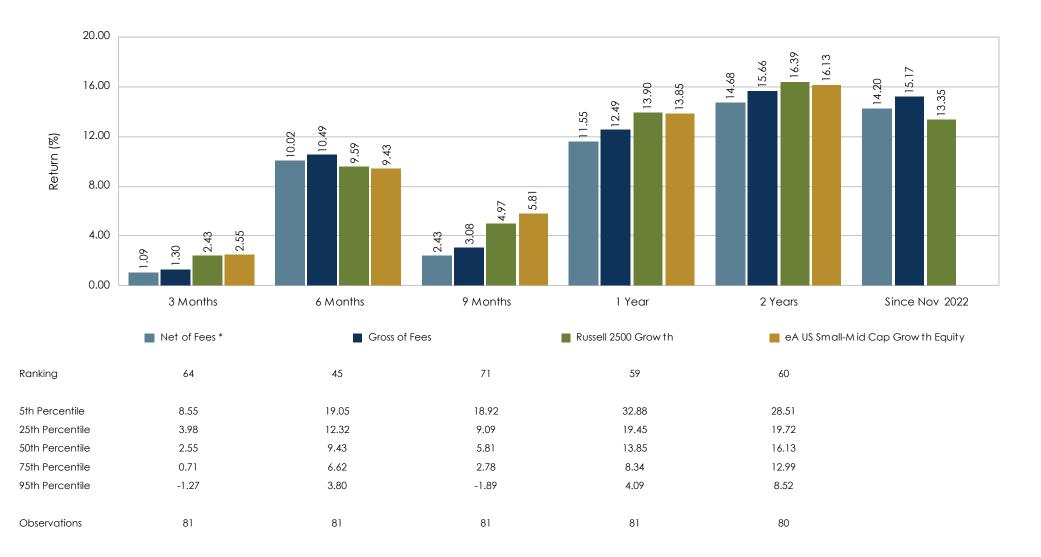


### Return Analysis Since Nov 2022

	William Blair	Russell 2500 Growth
Number of Months	26	26
Highest Monthly Return (%)	10.61	11.90
Lowest Monthly Return (%)	-7.87	-8.23
Number of Positive Months	13	12
Number of Negative Months	13	14
% of Positive Months	50.00	46.15

### William Blair SMid Growth

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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### **International Investment Equity Option**

For the Periods Ending December 31, 2024

Manager Allocation			
Name	Market Value (\$000s)	Allocation (%)	
Total International Option	8,893	100.00	
Axiom Emerging Markets	2,345	26.36	
Artisan	2,201	24.75	
SSgA Global Equity Ex US	2,180	24.51	
Harding Loevner International Equity	2,167	24.37	

International	Equity Option	

 This option includes a combination of international equity portfolios across complimentary styles of management.

**Portfolio Information** 

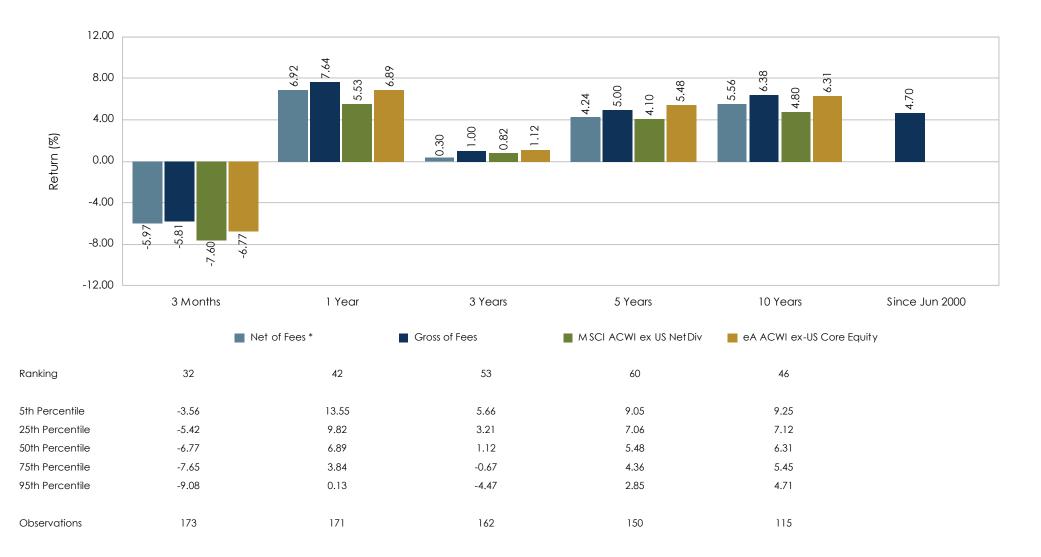
Performance goals - 1) to achieve returns 100 basis points in excess of the MSCI ACWI ex US NetDiv, and 2) to exceed the return of the median international developed markets equity manager over a complete market cycle (3 to 5 years).

Dollar Growth Summary (\$000s)			
	3 Months	1 Year	
Beginning Market Value	9,577	8,743	
Net Additions	-133	-531	
Return on Investment	-550	681	
Ending Market Value	8,893	8,893	



### **International Investment Equity Option**

For the Periods Ending December 31, 2024



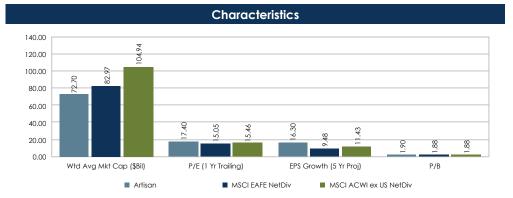
<sup>\*</sup> Performance is calculated using net of fee returns.
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### **Artisan**

For the Periods Ending December 31, 2024

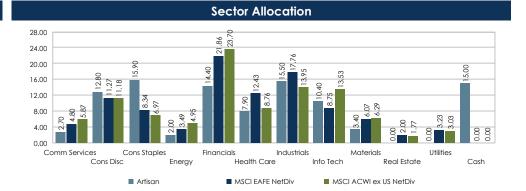
### **Account Description**

- Strategy Int'l Developed Markets Equity
- Vehicle Mutual Fund: Institutional Class (APHKX)
- Benchmarks MSCI EAFE NetDiv and MSCI ACWI ex US NetDiv
- Performance Inception Date May 2010
- **Expense Ratio** 97 bps



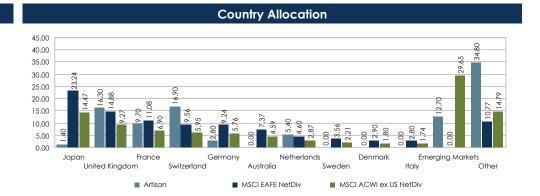
### **Performance Goals**

 Exceed the returns of the MSCI EAFE NetDiv over a complete market cycle (3 to 5 years).



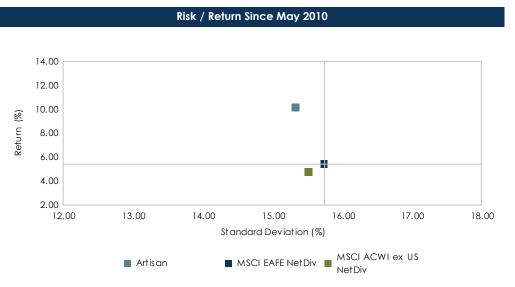
### Dollar Growth Summary (\$000s)

	3 Months	1 Year
Beginning Market Value	2,413	2,192
Net Additions	-53	-165
Return on Investment	-159	175
Ending Market Value	2,201	2,201



### **Artisan**

For the Periods Ending December 31, 2024



### MSCI EAFE MSCI ACWI ex

	Artisan	NetDiv	US NetDiv
Return (%)	10.14	5.44	4.74
Standard Deviation (%)	15.33	15.74	15.52
Sharpe Ratio	0.58	0.27	0.23

Portfolio Statistics Since May 2010

Benchmark Relative Statistics			
Beta	0.93	0.93	
R Squared (%)	90.53	89.51	
Alpha (%)	4.92	5.54	
Tracking Error (%)	4.86	5.07	
Batting Average (%)	58.52	61.36	
Up Capture (%)	102.02	106.90	
Down Capture (%)	82.46	83.32	

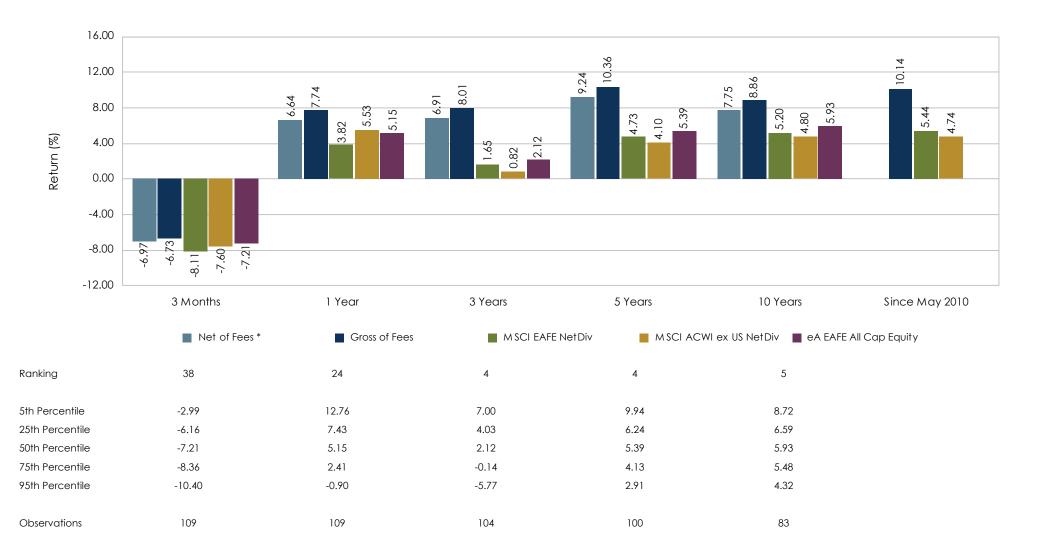
### Growth of a Dollar Since May 2010



### Return Analysis Since May 2010

	Artisan	MSCI EAFE NetDiv	MSCI ACWI ex US NetDiv
Number of Months	176	176	176
Highest Monthly Return (%)	16.61	15.50	13.45
Lowest Monthly Return (%)	-19.43	-13.35	-14.48
Number of Positive Months	101	99	100
Number of Negative Months	75	77	76
% of Positive Months	57.39	56.25	56.82

Artisan
For the Periods Ending December 31, 2024



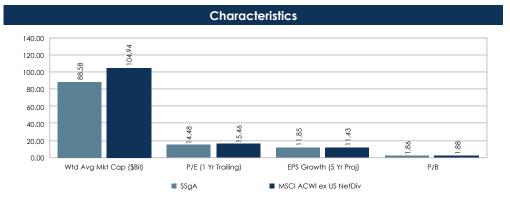
<sup>\*</sup> Performance is calculated using net of fee returns.
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### SSgA Global Equity Ex US

For the Periods Ending December 31, 2024

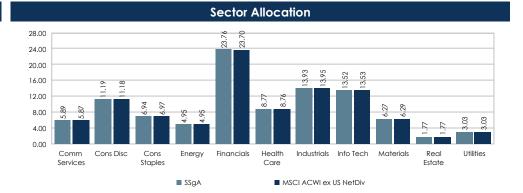
### **Account Description**

- Strategy Int'l Developed Markets Equity
- Vehicle Non-Mutual Commingled
- Benchmark MSCI ACWI ex US NetDiv
- Performance Inception Date November 2014
- Fees 9 bps

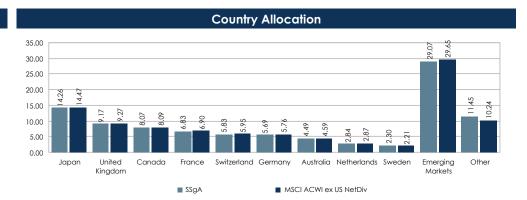


### **Performance Goals**

Mirror the risk and return profile of the MSCI ACWI ex US NetDiv over all time periods.



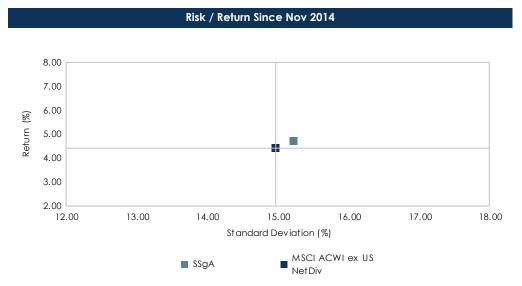
## Beginning Market Value 2,419 2,188 Net Additions -57 -135 Return on Investment -181 127 Ending Market Value 2,180 2,180



### SSgA Global Equity Ex US

For the Periods Ending December 31, 2024

**Sharpe Ratio** 



### Return (%) 4.69 4.42 Standard Deviation (%) 15.23 14.97

Benchmark Relative Statistics			
Beta	1.01		
R Squared (%)	99.21		
Alpha (%)	0.23		
Tracking Error (%)	1.37		
Batting Average (%)	58.20		
Up Capture (%)	102.81		
Down Capture (%)	101.14		

Portfolio Statistics Since Nov 2014

0.20

0.18

### Growth of a Dollar Since Nov 2014

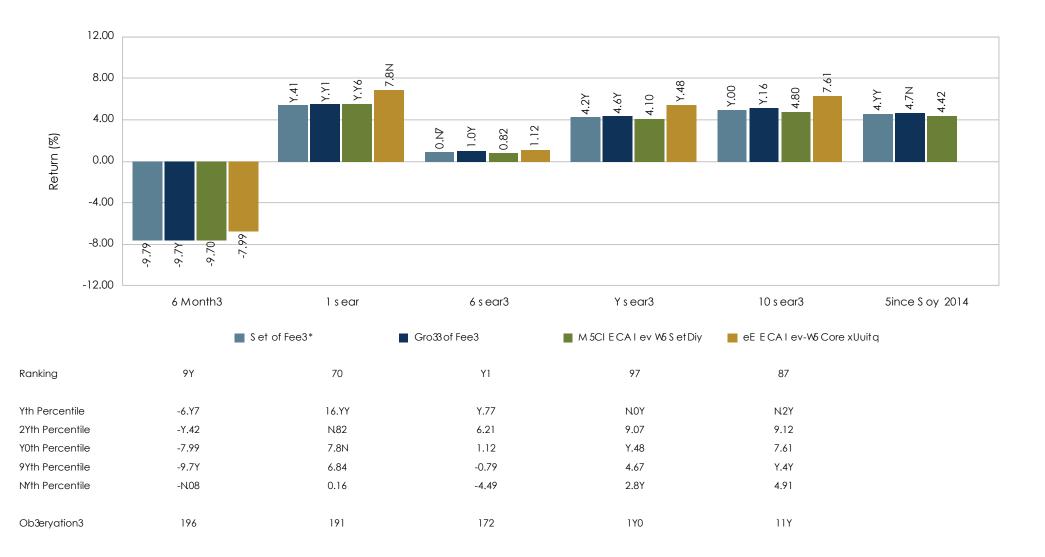


Keturn And	aiysis since	NOV	2014

	SSgA	MSCI ACWI ex US NetDiv
Number of Months	122	122
Highest Monthly Return (%)	13.26	13.45
Lowest Monthly Return (%)	-15.51	-14.48
Number of Positive Months	68	69
Number of Negative Months	54	53
% of Positive Months	55.74	56.56

### SSgA Global Equity Ex US

For the Periods Ending December 31, 2024



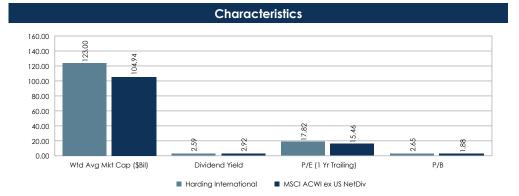
<sup>\*</sup> Performance is calculated using net of fee returns.
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### **Harding Loevner International Equity**

For the Periods Ending December 31, 2024

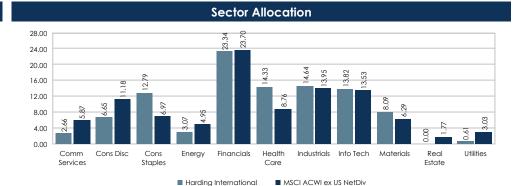
### **Account Description**

- Strategy Int'l Developed Markets Equity
- Vehicle Non-Mutual Commingled
- Benchmark MSCI ACWI ex US NetDiv
- Performance Inception Date July 2016
- **Fees** 81 bps

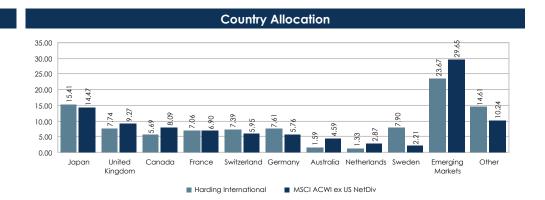


### **Performance Goals**

 Exceed the returns of the MSCI ACWI ex US NetDiv over a complete market cycle (3 to 5 years).



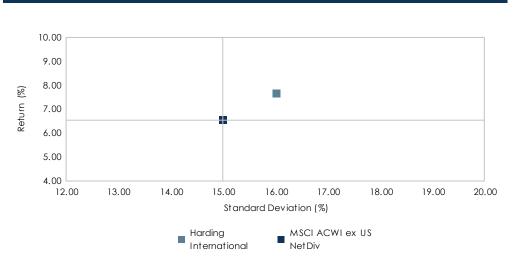
# Dollar Growth Summary (\$000s) 3 Months 1 Year Beginning Market Value 2,438 2,229 Net Additions -64 -111 Return on Investment -206 49 Ending Market Value 2,167 2,167



### **Harding Loevner International Equity**

For the Periods Ending December 31, 2024

### Risk / Return Since Jul 2016

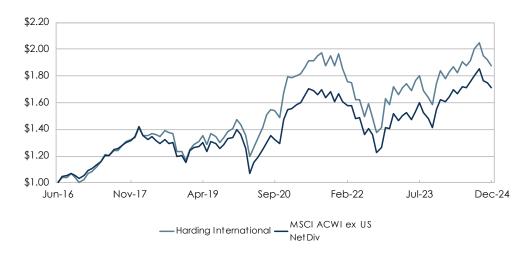


### Portfolio Statistics Since Jul 2016

	Harding International	MSCI ACWI ex US NetDiv
Return (%)	7.67	6.53
Standard Deviation (%)	16.03	15.00
Sharpe Ratio	0.35	0.30

Benchmark Relative Statistics			
Beta	1.02		
R Squared (%)	91.53		
Alpha (%)	1.05		
Tracking Error (%)	4.68		
Batting Average (%)	50.98		
Up Capture (%)	109.11		
Down Capture (%)	103.16		

### Growth of a Dollar Since Jul 2016

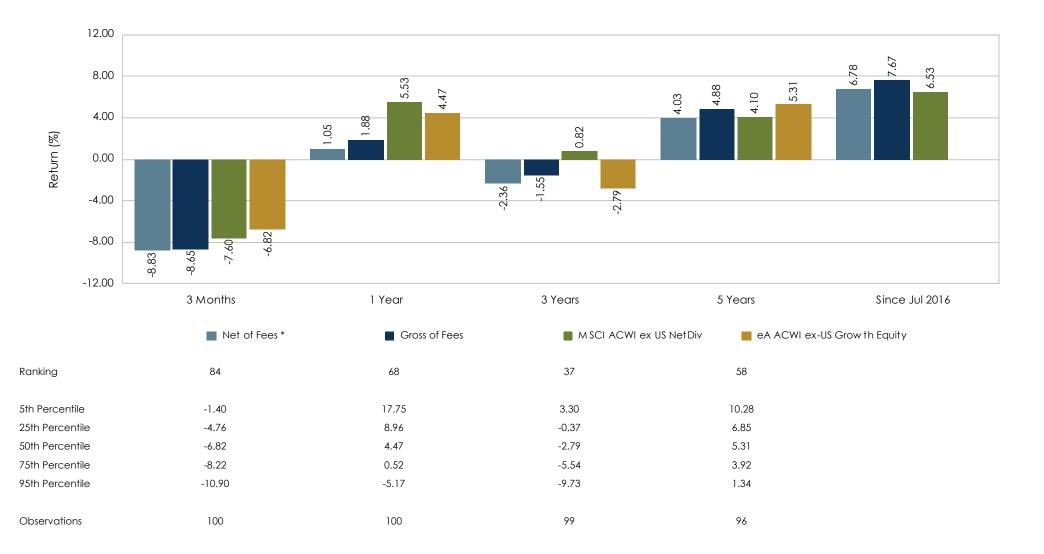


### Return Analysis Since Jul 2016

	Harding International	MSCI ACWI ex US NetDiv
Number of Months	102	102
Highest Monthly Return (%)	15.67	13.45
Lowest Monthly Return (%)	-11.69	-14.48
Number of Positive Months	60	63
Number of Negative Months	42	39
% of Positive Months	58.82	61.76

### **Harding Loevner International Equity**

For the Periods Ending December 31, 2024



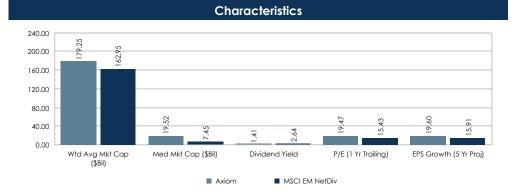
<sup>\*</sup> Performance is calculated using net of fee returns.
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### **Axiom Emerging Markets**

For the Periods Ending December 31, 2024

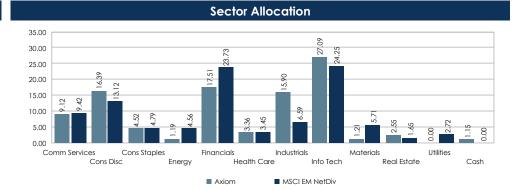
### **Account Description**

- Strategy Emerging Markets Equity
- Vehicle Non-Mutual Commingled
- Benchmark MSCI EM NetDiv
- Performance Inception Date February 2023
- **Fees** 75 bps



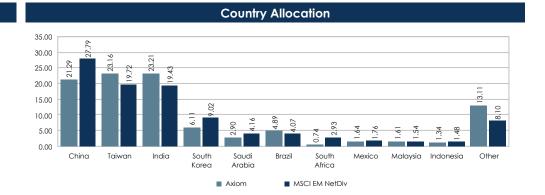
### **Performance Goals**

 Exceed the returns of the MSCI EM NetDiv over a complete market cycle (3 to 5 years).



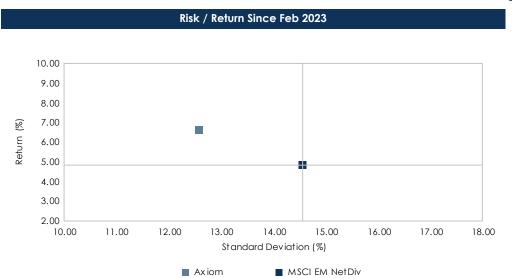
### 3 Months 1 Year Beginning Market Value 2,307 2,134 Net Additions 41 -119 Return on Investment -4 330 Ending Market Value 2,345 2,345

**Dollar Growth Summary (\$000s)** 



### **Axiom Emerging Markets**

For the Periods Ending December 31, 2024

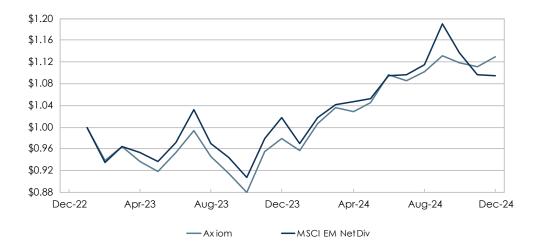


### Portfolio Statistics Since Feb 2023

	Axiom	MSCI EM NetDiv
Return (%)	6.60	4.81
Standard Deviation (%)	12.57	14.56
Sharpe Ratio	0.10	-0.03

Benchmark Relative Statistics				
Beta	0.80			
R Squared (%)	85.22			
Alpha (%)	2.63			
Tracking Error (%)	5.67			
Batting Average (%)	52.17			
Up Capture (%)	82.29			
Down Capture (%)	75.62			

### Growth of a Dollar Since Feb 2023

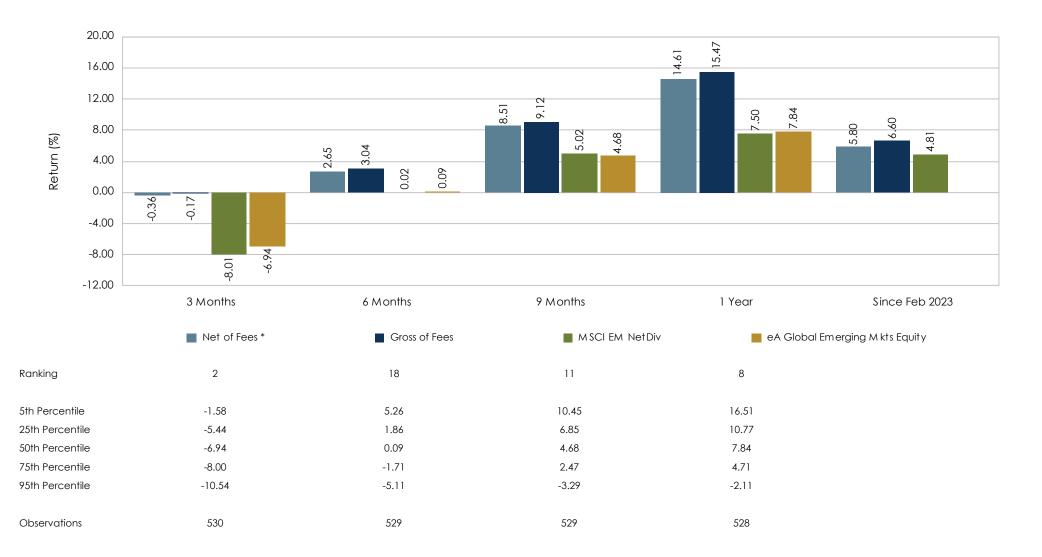


### Return Analysis Since Feb 2023

	Axiom	MSCI EM NetDiv
Number of Months	23	23
Highest Monthly Return (%)	8.34	8.00
Lowest Monthly Return (%)	-6.20	-6.48
Number of Positive Months	12	13
Number of Negative Months	11	10
% of Positive Months	52.17	56.52

### **Axiom Emerging Markets**

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.

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### **Global Equity Option**

For the Periods Ending December 31, 2024

Manager Allocation			
Name	Market Value (\$000s)	Allocation (%)	
Total	12,921	100.00	
SSgA Global Equity Index	12,921	100.00	

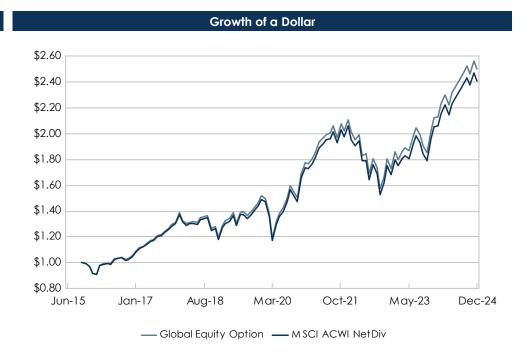
	Global	Fauity	Option
-	Global	LUUIIV	ODIIOH

■ This option includes the passively managed SSgA Global Equity Index Fund.

**Portfolio Information** 

Performance Goal - Mirror the risk and return profile of the MSCI ACWI NetDiv over all time periods.

Dollar Growth Summary (\$000s)		
	3 Months	1 Year
Beginning Market Value	13,518	11,614
Net Additions	-471	-762
Return on Investment	-126	2,069
Ending Market Value	12.921	12.921

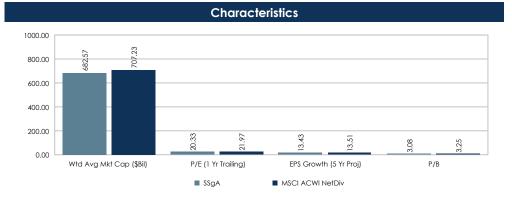


### **SSgA Global Equity Index**

For the Periods Ending December 31, 2024

### **Account Description**

- Strategy Global All Cap Equity
- Vehicle Non-Mutual Commingled
- Benchmark MSCI ACWI NetDiv
- Performance Inception Date November 2015
- **Fees** 10 bps



### **Performance Goals**

• Mirror the risk and return profile of the MSCI ACWI NetDiv over all time periods.



Care

■ MSCI ACWI NetDiv

Dollar Growth Summary (\$000s)

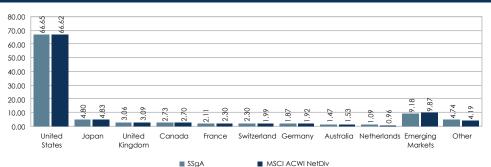
	3 Months	1 Year
Beginning Market Value	13,518	11,614
Net Additions	-471	-762
Return on Investment	-126	2,069
Ending Market Value	12,921	12,921



■ SSgA

Staples

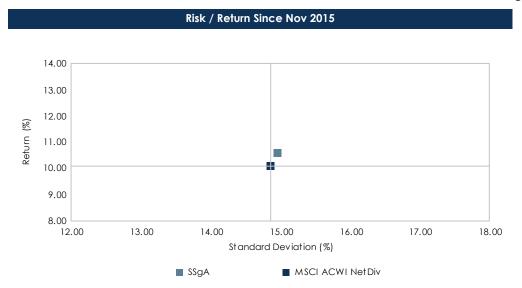
Services



Estate

### **SSgA Global Equity Index**

For the Periods Ending December 31, 2024



### Portfolio Statistics Since Nov 2015

	SSgA	MSCI ACWI NetDiv
Return (%)	10.56	10.08
Standard Deviation (%)	14.96	14.87
Sharpe Ratio	0.58	0.55

Benchmark Relative Statistics				
Beta	1.01			
R Squared (%)	99.85			
Alpha (%)	0.39			
Tracking Error (%)	0.58			
Batting Average (%)	70.91			
Up Capture (%)	102.06			
Down Capture (%)	100.01			

### Growth of a Dollar Since Nov 2015

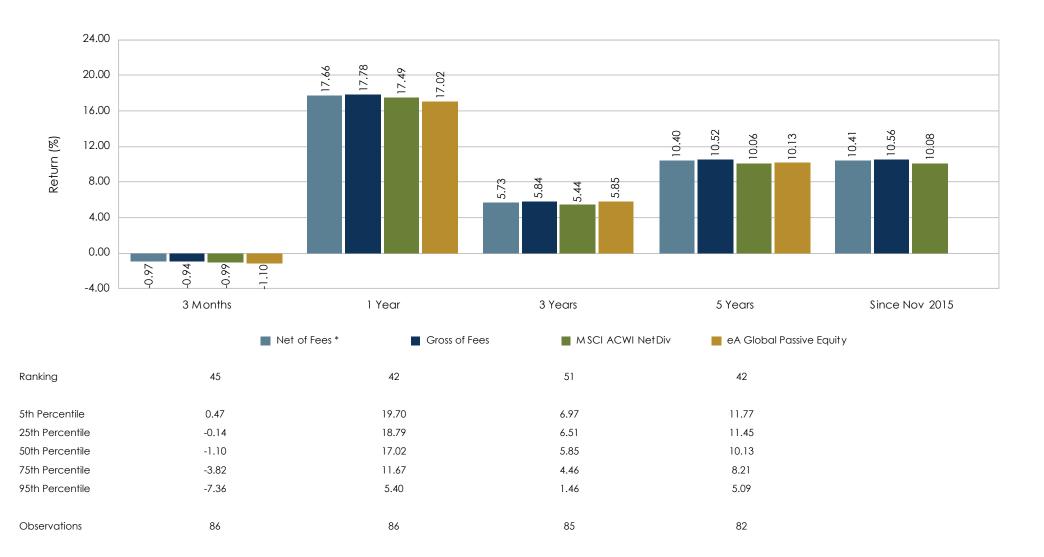


### **Return Analysis Since Nov 2015**

	SSgA	MSCI ACWI NetDiv
Number of Months	110	110
Highest Monthly Return (%)	12.28	12.33
Lowest Monthly Return (%)	-13.80	-13.50
Number of Positive Months	74	74
Number of Negative Months	36	36
% of Positive Months	67.27	67.27

# **SSgA Global Equity Index**

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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# **ESG US Stock Fund Option**

For the Periods Ending December 31, 2024

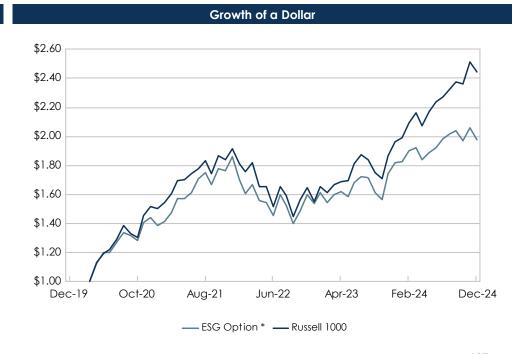
Manager Allocation				
Market Allocation Name Value (\$000s) (%)				
Total ESG Option	1,736	100.00		
Calvert Equity Fund	1,736	100.00		

<ul><li>ESG</li></ul>	<b>US</b> Larae	and Mid	Cap E	Eauity (	Option

- This option includes the Calvert Equity Fund
- Performance Goal Outperform the Russell 1000 over a complete market cycle (typically 3 to 5 years).

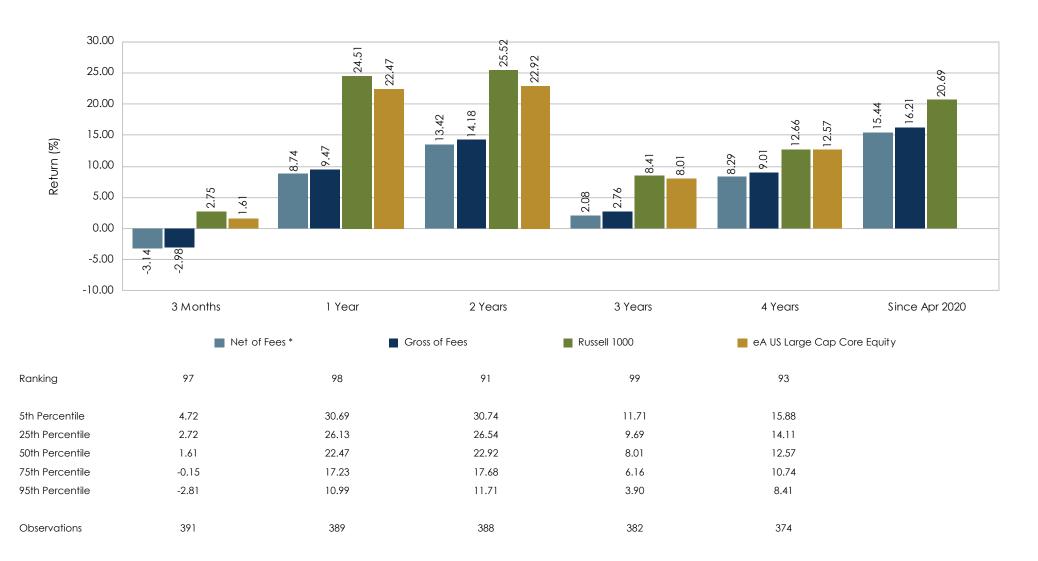
**Portfolio Information** 

Net Dollar Growth Summary (\$000s)			
	3 Months	1 Year	
Beginning Market Value	1,889	1,905	
Net Additions	-96	-333	
Return on Investment	-58	164	
Ending Market Value	1 736	1 736	



# **ESG US Stock Fund Option**

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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# **Total Yield Option**

For the Periods Ending December 31, 2024

Manager Allocation			
Name	Market Value (\$000s)	Allocation (%)	
Total	8,006	100.00	
JP Morgan Fixed Income	3,969	49.58	
BlackRock Strategic Income Opportunities	2,043	25.52	
Amundi Pioneer Core Plus	1,994	24.90	

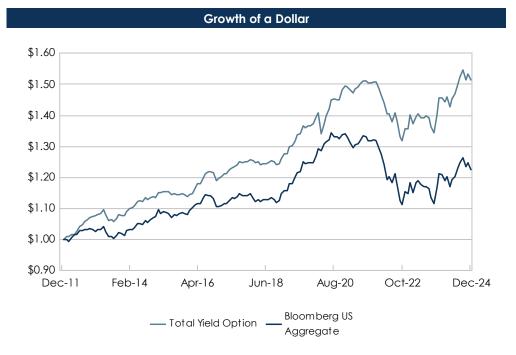
Total Yield Option	

 This option includes a combination of portfolios in the core and multi-sector fixed income asset classes.

**Portfolio Information** 

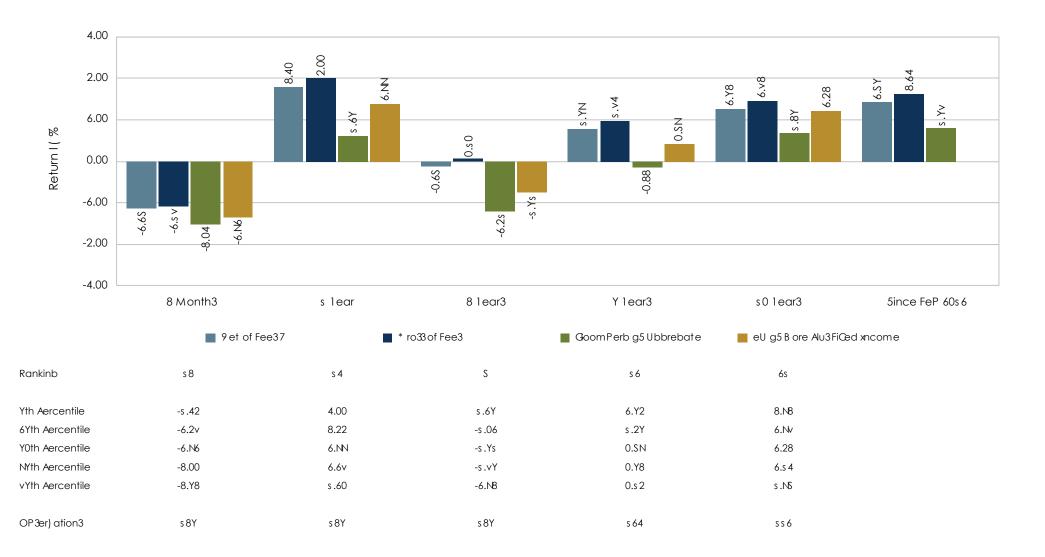
Performance Goals - 1) to achieve returns 100 basis points in excess of the BloomBar US Aggregate, and 2) to exceed the return of the median core bond manager over a complete market cycle (3 to 5 years).

Dollar Growth Summary (\$000s)			
	3 Months	1 Year	
Beginning Market Value	8,138	6,518	
Net Additions	46	1,193	
Return on Investment	-178	295	
Ending Market Value	8,006	8,006	



# **Total Yield Option**

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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# JP Morgan Fixed Income

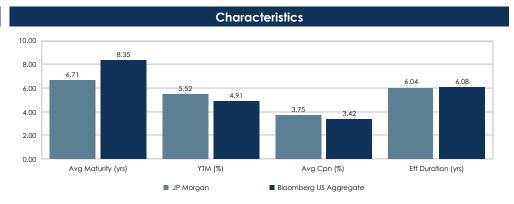
For the Periods Ending December 31, 2024

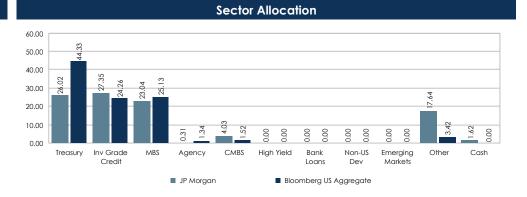
### **Account Description**

- Strategy Core Bonds
- Vehicle Non-Mutual Commingled
- Benchmark Bloomberg US Aggregate
- **Performance Inception Date** February 2012
- Fees 30 bps

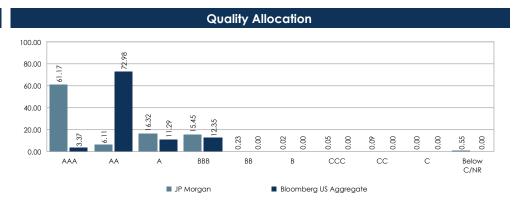
 Exceed the returns of the Bloomberg US Aggregate over a complete market cycle (3 to 5 years).

**Performance Goals** 





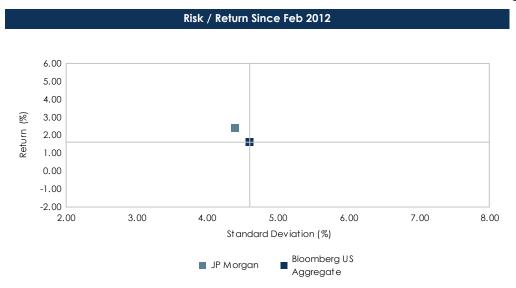
# Dollar Growth Summary (\$000s) 3 Months 1 Year Beginning Market Value 4,060 3,251 Net Additions 28 624 Return on Investment -119 94 Ending Market Value 3,969 3,969



Characteristic and allocation charts represents data of the JPMorgan Core Bond Trust (Non-Mutual Commingled). The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.

# JP Morgan Fixed Income

For the Periods Ending December 31, 2024

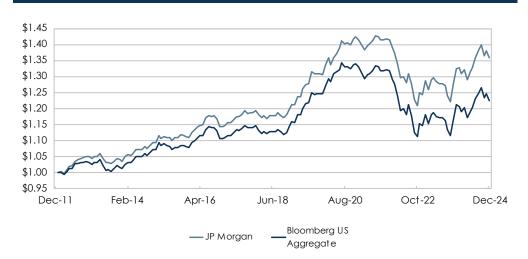


# Portfolio Statistics Since Feb 2012

	JP Morgan	Bloomberg US Aggregate
Return (%)	2.40	1.59
Standard Deviation (%)	4.39	4.60
Sharpe Ratio	0.24	0.05

Benchmark Relative Statistics		
Beta	0.95	
R Squared (%)	98.04	
Alpha (%)	0.88	
Tracking Error (%)	0.66	
Batting Average (%)	65.81	
Up Capture (%)	102.38	
Down Capture (%)	87.76	



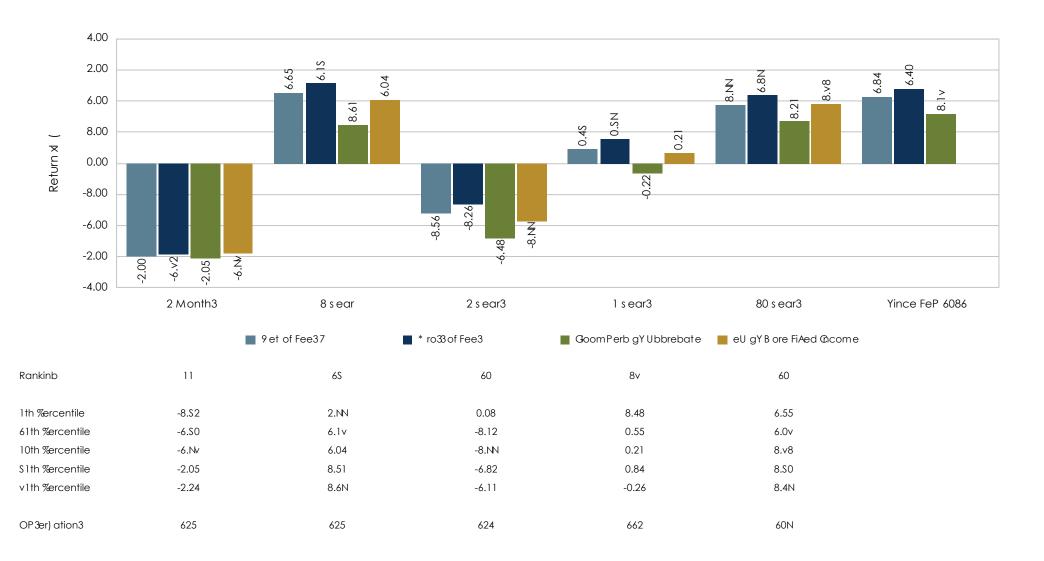


### Return Analysis Since Feb 2012

	JP Morgan	Bloomberg US Aggregate
Number of Months	155	155
Highest Monthly Return (%)	4.37	4.53
Lowest Monthly Return (%)	-3.92	-4.32
Number of Positive Months	92	86
Number of Negative Months	63	69
% of Positive Months	59.35	55.48

# JP Morgan Fixed Income

For the Periods Ending December 31, 2024



<sup>\*</sup> Performance is calculated using net of fee returns.
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### **Amundi Pioneer Core Plus**

For the Periods Ending December 31, 2024

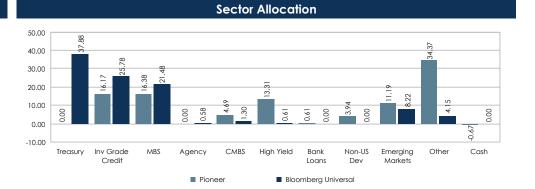
### **Account Description**

- Strategy Multi-Sector Fixed Income
- Vehicle Non-Mutual Commingled
- Benchmark Bloomberg Universal
- **Performance Inception Date** February 2012
- Fees 35 bps

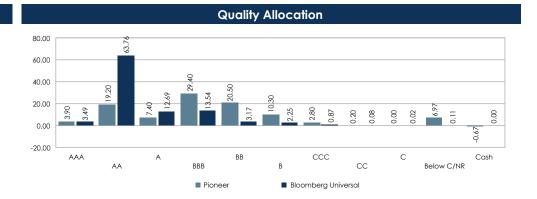
### **Characteristics** 28.00 24.00 21.00 20.00 17.00 16.00 12.00 8.00 6.57 5.84 5.14 4.48 3.66 4.00 Duration (yrs) Avg Quality YTM (%) Avg Cpn (%) Pioneer ■ Bloomberg Universal

### **Performance Goals**

 Exceed the returns of the Bloomberg Universal over a complete market cycle (3 to 5 years).



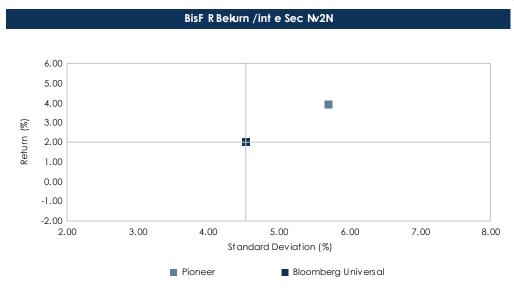
# Beginning Market Value 2,054 1,649 Net Additions -10 254 Return on Investment -50 91 Ending Market Value 1,994 1,994



Characteristic and allocation charts represents the composite data of the Amundi Multi-Sector Fixed Income. The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.

## **Amundi Pioneer Core Plus**

For the Periods Ending December 31, 2024

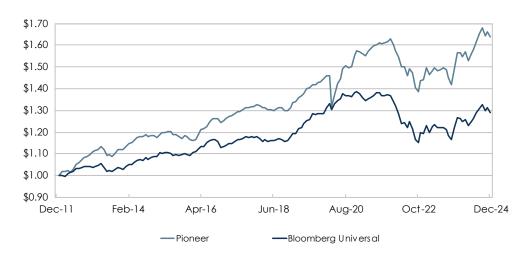


## Porkolio /ki kiskit s /int e Sec Nv2N

	Pioneer	f loomcera bnigers1 l
Bekurn h( %	3.91	2.00
/k $\!\!1$ nd $\!\!1$ rd $\!\!1$ egi $\!\!1$ k $\!\!1$ on h $\!\!1$	5.71	4.53
/U1rDe B1 kio	0.45	0.14

f ent Um1rF Bel1kige /k1 kiskit s		
f eki	1.03	
B/pu1red h( %	67.03	
AIDU1 H %	1.87	
q1t Fina Trror h( %	3.28	
f 1 kkina Ager1 ae h( %	67.10	
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) oE n C1 Dlure h( %	87.05	

## wroE kJ o01 ) oll1r /int e Sec Nv2N

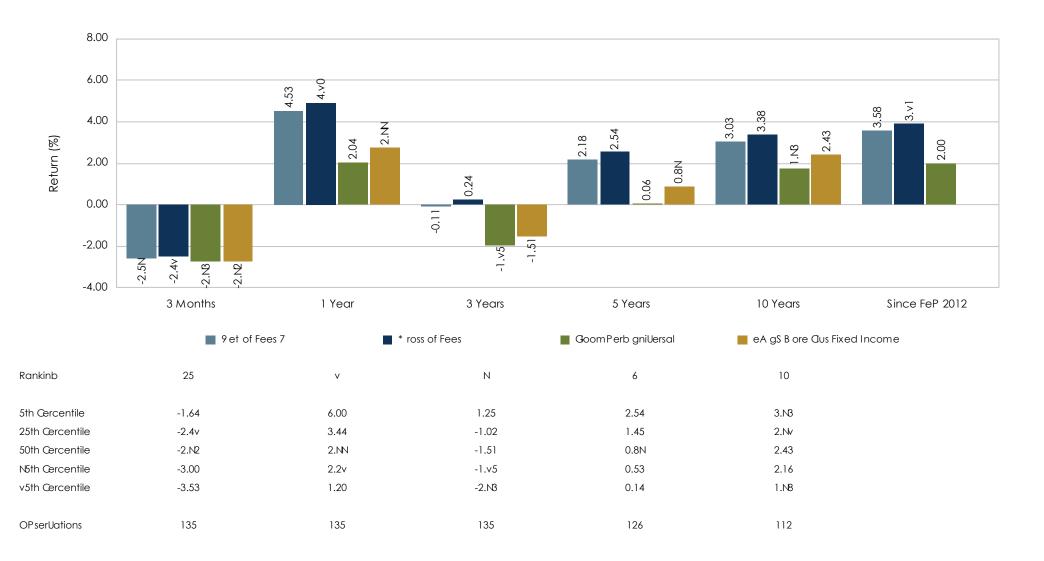


### Bekurn An1 IGsis /int e Sec Nv2N

	Pioneer	f loomcera bnigers11
y umcer o0MonkUs	155	155
HiaUeskMonkUlGBekurn h( %	5.21	4.50
LoE eskMonkUlGBekurn h( %	-9.90	-4.31
y umcer o0Posilige MonkUs	107	92
y umcer o0y ea1 lige MonkUs	48	63
( o0Posikige MonkUs	69.03	59.35

## **Amundi Pioneer Core Plus**

For the Periods Ending December 31, 2024



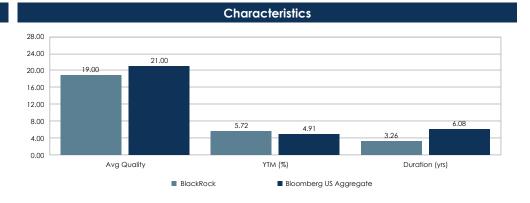
<sup>\*</sup> Performance is calculated using net of fee returns.
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# **BlackRock Strategic Income Opportunities**

For the Periods Ending December 31, 2024

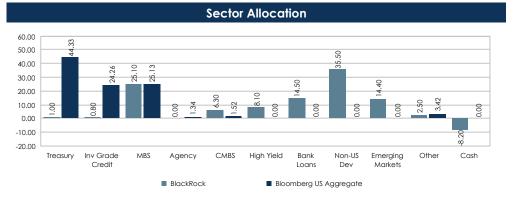
### **Account Description**

- Strategy Absolute Return
- Vehicle Mutual Fund: Institutional Class (BSIKX)
- Benchmark Bloomberg US Aggregate
- Performance Inception Date July 2017
- **Expense Ratio** 65 bps

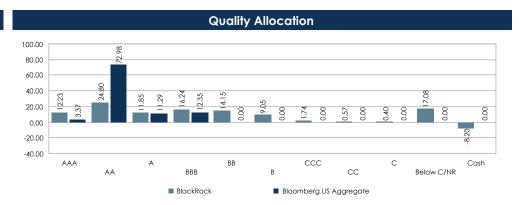


### **Performance Goals**

 Meet or exceed the targeted return of the Bloomberg US Aggregate over a complete market cycle (typically 3-5 years).



# Beginning Market Value 2,024 1,619 Net Additions 28 315 Return on Investment -9 110 Ending Market Value 2,043 2,043

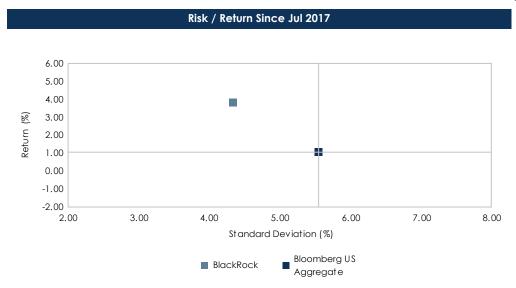


Characteristic and allocation charts represents the composite data of the BlackRock Strategic Income Opportunities.

The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.

# **BlackRock Strategic Income Opportunities**

For the Periods Ending December 31, 2024



### Portfolio Statistics Since Jul 2017

	BlackRock	Bloomberg US Aggregate
Return (%)	3.85	1.07
Standard Deviation (%)	4.33	5.56
Sharpe Ratio	0.37	-0.21

Benchmark Relative Statistics		
Beta	0.50	
R Squared (%)	41.43	
Alpha (%)	3.32	
Tracking Error (%)	4.32	
Batting Average (%)	65.56	
Up Capture (%)	73.40	
Down Capture (%)	31.88	

### Growth of a Dollar Since Jul 2017

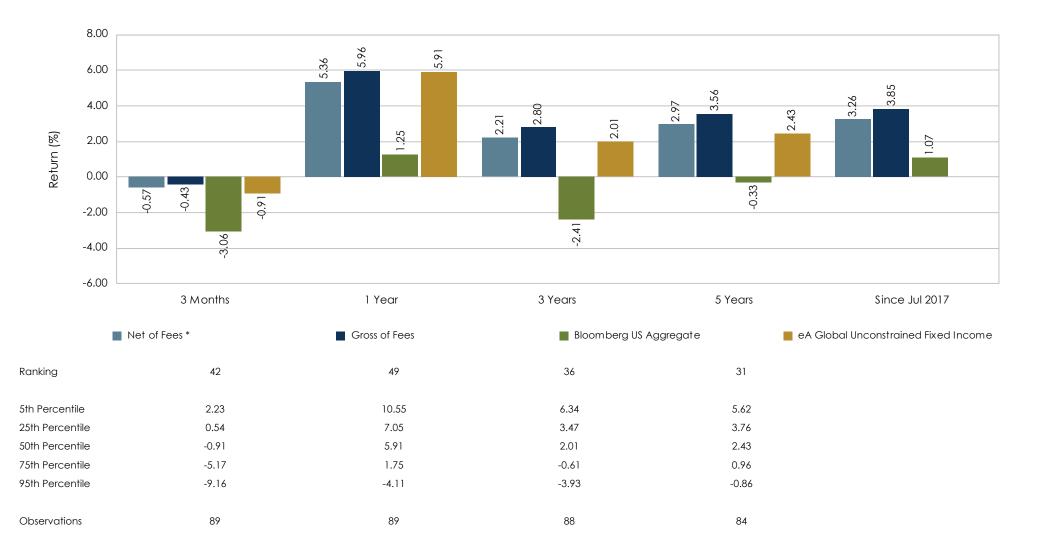


### Return Analysis Since Jul 2017

	BlackRock	Bloomberg US Aggregate
Number of Months	90	90
Highest Monthly Return (%)	3.04	4.53
Lowest Monthly Return (%)	-6.60	-4.32
Number of Positive Months	59	46
Number of Negative Months	31	44
% of Positive Months	65.56	51.11

# **BlackRock Strategic Income Opportunities**

For the Periods Ending December 31, 2024



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# **Bond Index Option**

For the Periods Ending December 31, 2024

Manager Allocation			
Name	Market Value (\$000s)	Allocation (%)	
Total	15,098	100.00	
SSgA US Aggregate Bond	15,098	100.00	

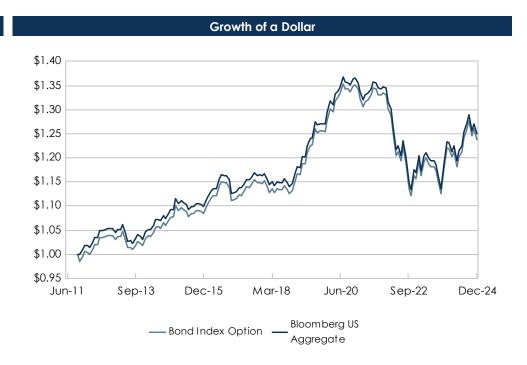
_	Danal	برم ام مرا	0-4:0-
	BONG	maex	Option

 This option includes the passively managed SSgA US Aggregate Bond Index Fund.

**Portfolio Information** 

 Performance Goal - Mirror the risk and return profile of the BloomBar US Aggregate over all time periods.

Dollar Growth Summary (\$000s)		
	3 Months	1 Year
Beginning Market Value	14,807	14,220
Net Additions	738	674
Return on Investment	-448	204
Ending Market Value	15,098	15,098

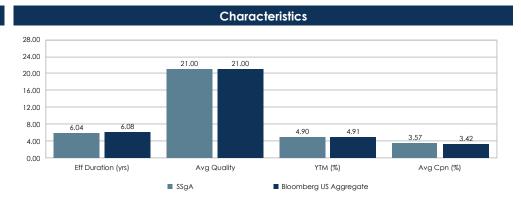


# SSgA US Aggregate Bond

For the Periods Ending December 31, 2024

### **Account Description**

- Strategy US Investment Grade
- Vehicle Non-Mutual Commingled
- Benchmark Bloomberg US Aggregate
- Performance Inception Date November 2011
- Fees 6 bps

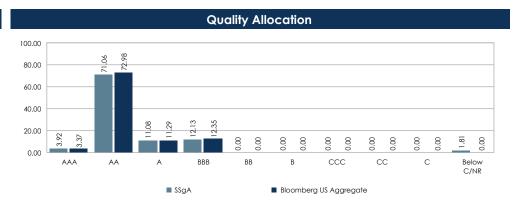


### **Performance Goals**

• Mirror the risk and return profile of the Bloomberg US Aggregate over all time periods.



# Beginning Market Value Net Additions Return on Investment Ending Market Value 14,807 14,220 14,220 14,220 15,098

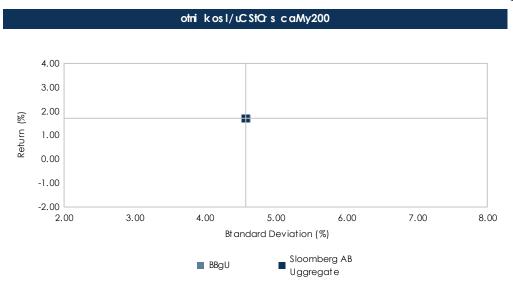


Characteristic and allocation charts represents data of the US Aggregate Bond Index SL Fund (Non-Mutual Commingled).

The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.

# SSgA RS Aggus gels maCp

For the Periods Ending December 31, 2024

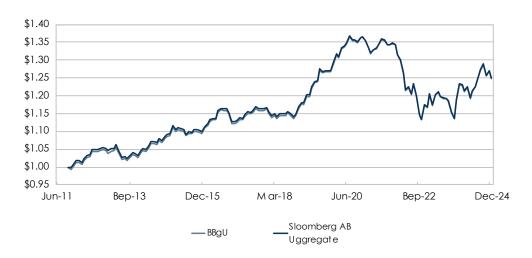


# 1auRafta Sleithitr nStCr s caMy200

	SSgA	miaaBhsugRS Aggusgels
os I/ ເC (%)	1.70	1.71
SleCpeup ds MeltaC(%)	4.58	4.57
SveuDs oelta	0.08	0.08

ms CrvBeui os feltMs Sleltntrn		
ms le	1.00	
o \$q/eus p (%)	99.84	
AfDve (%)	-0.01	
Tuer i tCg Eucav(%)	0.18	
mellfCg AMs uegs (%)	54.43	
RDUeDI/us (%)	100.67	
dawCUeDI/us (%)	100.86	

### Guawly aPe daffeuStars caMy200

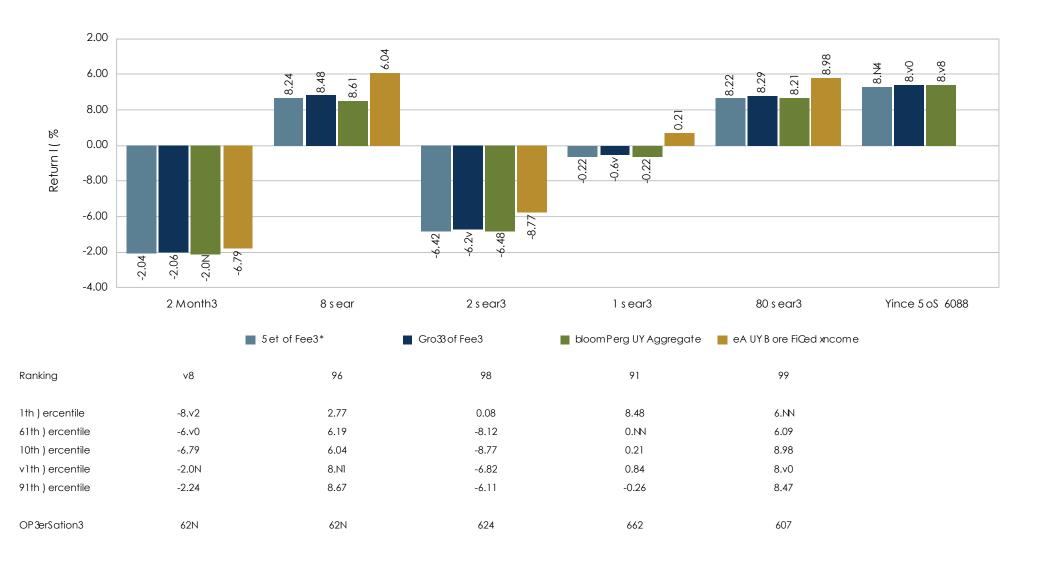


### os I/uC A Cef Nntn StOrs ca My 200

	SSgA	miaaBhsugRS Aggusgels
c/B hs uaPb aQvn	158	158
Htgvs nl b aavfN os I/ vC(%)	4.52	4.53
Laws nl b aQvfN os I/ vC (%)	-4.32	-4.32
c/B hs uaP1anHtMs b aQvn	88	88
c/B hs uaPcs geltMs b aQvn	70	70
% aP1aniitMs b aAvn	55.70	55.70

# SSgA US Aggregate Bond

For the Periods Ending December 31, 2024



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# **Real Assets Option**

For the Periods Ending December 31, 2024

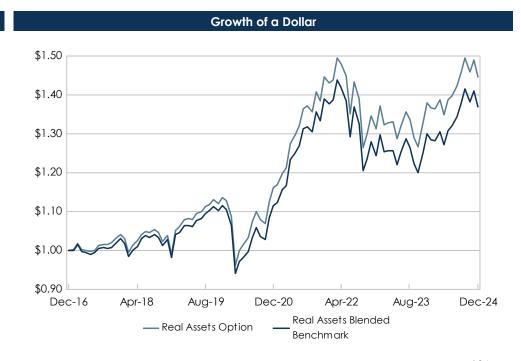
Manager Allocation			
Name	Market Value (\$000s)	Allocation (%)	
Total	759	100.00	
PIMCO Diversified Real Assets	759	100.00	

	Real	Asset	Option
-	I/C/UI	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	

- This option includes a REIT, Commodity and TIPS strategy.
- Performance Goal Outperform the custom benchmark over a complete market cycle (typically 3 to 5 years)

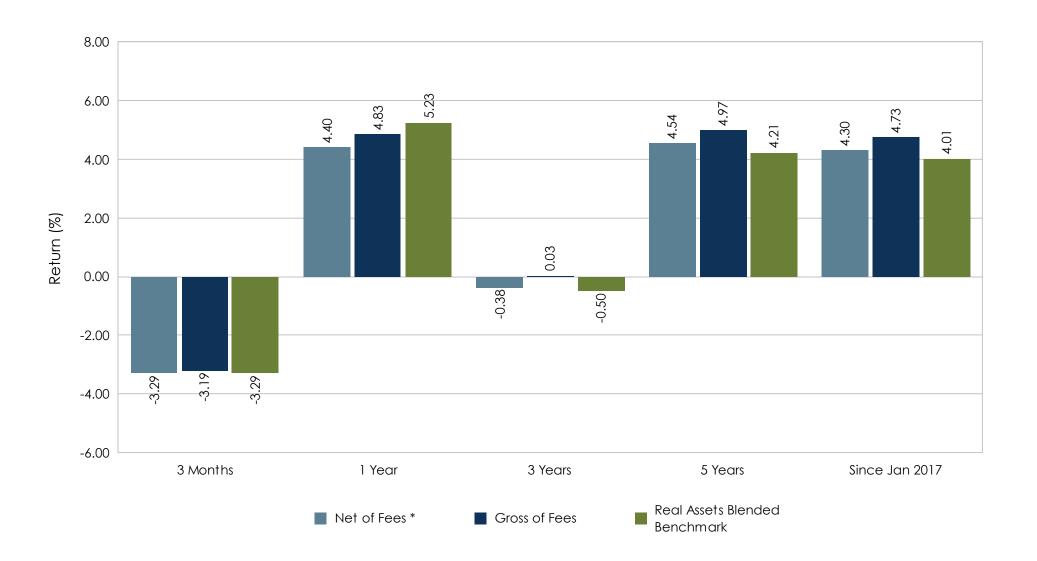
**Portfolio Information** 

Dollar Growth Summary (\$000s)		
	3 Months	1 Year
Beginning Market Value	719	780
Net Additions	64	-55
Return on Investment	-23	35
Ending Market Value	759	759



# **Real Assets Option**

For the Periods Ending December 31, 2024



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# **Fixed Fund Option**

For the Periods Ending December 31, 2024

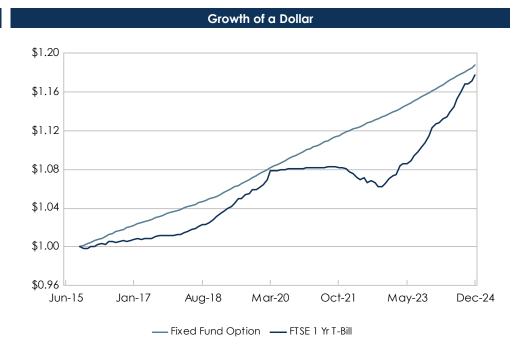
Manager Allocation					
Name	Market Value (\$000s)	Allocation (%)			
Total	48,718	100.00			
Voya Fixed Plus III	48,718	100.00			

■ Fixed account designed to provide participants with principal stability over a long-term investment horizon. The Fixed Account is backed by the Voya Retirement Insurance and Annuity Company (VRIAC) general account.

**Portfolio Information** 

The manager's performance will be evaluated on absolute return, relative return, volatility profile and consistency with stated style relative to similar fixed income strategies.

Dollar Growth Summary (\$000s)				
	3 Months	1 Year		
Beginning Market Value	47,358	51,126		
Net Additions	1,092	-3,481		
Return on Investment	268	1,074		
Ending Market Value	48,718	48,718		



# **SSgA Target Retirement Options**

For the Periods Ending December 31, 2024

Manager Allocation					
Name	Market Value (\$000s)	Allocation (%)			
Total	247,862	100.00			
SSgA Target Retirement 2025	44,071	17.78			
SSgA Target Retirement 2030	39,024	15.74			
SSgA Target Retirement 2035	33,510	13.52			
SSgA Target Retirement 2040	27,056	10.92			
SSgA Target Retirement 2045	23,055	9.30			
SSgA Target Retirement 2020	18,778	7.58			
SSgA Target Retirement 2050	18,134	7.32			
SSgA Target Retirement Income	18,126	7.31			
SSgA Target Retirement 2060	13,452	5.43			
SSgA Target Retirement 2055	12,361	4.99			
SSgA Target Retirement 2065	295	0.12			

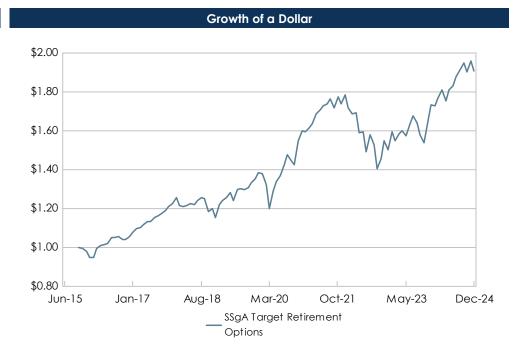
■ This option includes a combination of passive SSgA strategies across global	
equity, fixed income and real assets.	

**Portfolio Information** 

- The risk/return profile of the target date funds are based upon each participant's age and time horizon.
- The target date funds automatically shift the asset allocation from more aggressive to more conservative as the participant approaches the stated retirement date.
- The manager's performance will be evaluated on absolute return, relative return, volatility profile and consistency with stated style relative to similar target date funds.

	, , ,		
	3 Months	1 Year	
Beginning Market Value	252,756	223,954	
Net Additions	663	1,149	
Return on Investment	-5,557	22,759	
Ending Market Value	247,862	247,862	

**Dollar Growth Summary (\$000s)** 



**Appendix** 

# Historical Benchmark Composition

# **OMRF DB Policy Index**

04/30/1987	The index consists of 100.0% OMRF DB Policy Index History.
07/31/2003	The index consists of 55.00% S&P 500, 10.00% MSCI EAFE NetDiv, 35.00% Bloomberg US Aggregate.
03/31/2004	The index consists of 40.00% S&P 500, 15.00% Russell 2500, 10.00% MSCI EAFE NetDiv, 35.00% Bloomberg US Aggregate.
02/28/2007	The index consists of 40.00% S&P 500, 15.00% Russell 2500, 10.00% MSCI EAFE NetDiv, 30.00% Bloomberg US Aggregate, 5.00% NCREIF Property.
10/31/2010	The index consists of 35.00% S&P 500, 10.00% Russell 2500, 20.00% MSCI EAFE NetDiv, 30.00% Bloomberg US Aggregate, 5.00% NCREIF Property.
04/30/2014	The index consists of 25.00% S&P 500, 10.00% Russell 2500, 10.00% MSCI ACWI NetDiv, 20.00% MSCI EAFE NetDiv, 30.00% Bloomberg US Aggregate, 5.00% NCREIF Property.
03/31/2016	The index consists of 65.00% MSCI ACWI NetDiv, 30.00% Bloomberg US Aggregate, 5.00% NCREIF Property.
01/31/2021	The index consists of 70.00% MSCI ACWI NetDiv, 25.00% Bloomberg US Aggregate, 5.00% NCREIF Property.
10/31/2021	The index consists of 70.00% MSCI ACWI NetDiv, 20.00% Bloomberg US Aggregate, 10.00% NCREIF Property.
09/30/2022	The index consists of 65.00% MSCI ACWI NetDiv, 20.00% Bloomberg US Aggregate, 15.00% NCREIF Property.
03/31/2023	The index consists of 65.00% MSCI ACWI NetDiv, 20.00% Bloomberg US Aggregate, 15.00% NCREIF Property.
03/31/2024	The index consists of 65.00% MSCI ACWI NetDiv, 20.00% Bloomberg US Aggregate, 15.00% NFI ODCE Net.

### **Definitions of Statistical Measures**

**Alpha -** the annualized difference between the manager's actual return and the manager's expected return given its relative risk vs. the benchmark (which is represented by beta, a measure that tracks volatility to an index).

**Batting Average -** a measure used to quantify a manager's ability to meet or beat a benchmark. A manager who outperforms the benchmark 20 out of a possible 40 times has a batting average of 50.

**Beta** - measures the portfolio's sensitivity of returns to market movements represented by the primary benchmark.

**Down Capture -** demonstrates the ratio of the portfolio's average returns relative to the benchmark in periods in which the benchmark had a negative return. For instance, a down-capture of 96% indicates that, on average, the portfolio is down 96% when the benchmark is down 100%. Lower portfolio down-capture is preferred.

**R Squared -** the amount of the manager's return that can be explained by the benchmark. A R Squared of 100 indicates a perfect correlation, while a R Squared of 0 indicates no correlation at all.

**Sharpe Ratio -** a measure of return per unit of risk. Higher sharpe ratios are preferred while negative ratios are generally meaningless and cannot be used for comparison purposes.

**Standard Deviation -** a measure of the portfolio's volatility. A large standard deviation relative to the benchmark represents volatile portfolio returns.

**Tracking Error** - a measure that reports the difference between the return of a manager that is received and that of a benchmark that the manager is attempting to track.

**Up Capture -** demonstrates the ratio of the portfolio's average returns relative to the benchmark in periods in which the benchmark had a positive return. For instance, an up-capture of 96% indicates that, on average, the portfolio is up 96% when the benchmark is up 100%. Higher portfolio up-capture is preferred.

# **Quality Rating Scale**

Moody's Rating	S&P Rating	Prior to 1Q09	Beginning 1Q09	Beginning 3Q11	Moody's Rating	S&P Rating	Prior to 1Q09	Beginning 1Q09	Beginning 3Q11
TSY	TSY	10	26	24	Ba2	ВВ	6	13	13
AGY	AGY	10	25	24	Ва	ВВ		13	13
Aaa	AAA	10	24	24	MIG4		6	13	13
Aal	AA+	9.3	23	23	ВаЗ	BB-	5.7	12	12
Aa2	AA		22	22	В1	B+	5.3	11	11
Aa	AA	9	22	22	B2	В	5	10	10
MIG1		9	22	22	В	В		10	10
Aa3	AA-	8.7	21	21	В3	B-	4.7	9	9
A1	A+	8.3	20	20	Caal	CCC+	4.3	8	8
A-1			20	20	Caa2	CCC	4	7	7
A2	Α	8	19	19	Caa	CCC		7	7
Α	Α		19	19	Caa3	CCC-	3.7	6	6
MIG2		8	19	19	Ca	CC	3	5	5
A3	A-		18	18	С	С	2	4	4
Baal	BBB+	7.7	17	17		DDD	1	3	3
Baa2	BBB	7.3	16	16		DD		2	2
Baa	BBB	7	16	16		D		1	1
MIG3			16	16	NR	NR	N/A	-1	-1
Baa3	BBB-	7	15	15	NA	NA	N/A		
Ba1	BB+	6.7	14	14	N/A	N/A			

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