

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, August 25, 2022, at 1:00 p.m. The meeting will be held at 1001 NW 63rd St., Suite 260, Oklahoma City, OK and the following items will be considered:

August 25, 2022

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 and Review of the Asset Allocation Analysis within the Defined Benefit Portfolio as Presented by Asset Consulting Group
- 3. Discussion and Education of Private Equity Asset Class as Presented by Asset Consulting Group
- 4. Discussion, Education and Review of the Long/Short Portfolio of the Defined Benefit Portfolio as Presented by Asset Consulting Group
- 5. Discuss and Develop a Recommendation for Presentation to the Oklahoma Municipal Retirement Fund Board of Trustees to Adjust and Update the Defined Benefit Portfolio Asset Allocation
- 6. Conduct Semi-Annual Investment Performance Review and Receive Quarterly Performance Report for June 30, 2022, as Presented by Asset Consulting Group
- 7. New Business
- 8. Adjourn

Posted by 1:00 p.m. August 23, 2022 1001 NW 63rd Street, 1st Floor, Oklahoma City, OK 73116 Oklahoma Municipal Retirement Fund Investment Committee Meeting Asset Allocation Analysis

August 2022

The table below details ACG's capital market assumptions for asset classes included in this analysis.

	Intermediate- Term Average Annual Return ¹	Long-Term Average Annual Return ²	Standard Deviation ³	Inflation	Core Bonds	Multi-Sector	Liquid Absolute Return	US Large Cap Equity	US Small Cap Equity	International Developed Equity	Emerging Market Equity	Long/Short Equity	Private Equity	Core Real Estate	Value Add Real Estate	
Inflation	2.43	2.75	2.80	1.00	-0.14	0.04	0.25	0.15	0.25	0.29	0.31	0.35	0.36	0.45	0.44	
Core Bonds	1.90	5.33	3.71		1.00	0.59	0.03	-0.28	-0.38	-0.40	-0.33	-0.26	-0.37	-0.14	-0.16	
Multi-Sector	2.27	6.28	4.72			1.00	0.63	0.28	0.25	0.27	0.31	0.18	-0.05	-0.18	-0.20	
Liquid Absolute Return	3.37	6.00	5.28				1.00	0.61	0.65	0.64	0.71	0.60	0.48	-0.09	-0.18	
US Large Cap Equity	6.49	9.88	17.82					1.00	0.81	0.82	0.55	0.68	0.63	0.29	0.25	
US Small Cap Equity	8.40	11.28	20.06						1.00	0.81	0.66	0.73	0.55	0.21	0.18	
International Developed Equity	8.75	10.74	19.29							1.00	0.80	0.71	0.62	0.23	0.22	
Emerging Market Equity	10.07	11.98	28.00								1.00	0.66	0.49	0.02	0.02	
Long/Short Equity	5.74	8.43	11.83									1.00	0.75	0.28	0.30	
Private Equity	10.56	13.22	19.16										1.00	0.36	0.30	
Core Real Estate	6.56	9.35	10.18											1.00	0.91	
Value Add Real Estate	8.06	10.85	13.39												1.00	

¹ Intermediate-Term Average Annual Return is the arithmetic average return assumption for any given year derived from fundamental return drivers such as yields, inflation, and growth, with potential reversion adjustments for outlier valuations.

² Long-Term Average Annual Return is the arithmetic average return assumption for any given year derived from long-term risk premiums and a long-term average risk-free rate.

³ Standard Deviation is a general measure of the average variability around the mean. The DFA model may include additional parameters that adjust the shape of the return distribution for each asset class

Portfolio Mixes

	Liquidity	Target	Mix 1	Mix 2	Mix 3
Total		100.00	100.00	100.00	100.00
Fixed Income		20.00	25.00	20.00	20.00
Core Bonds	1	5.00	8.00	5.00	5.00
Multi-Sector	1	7.50	8.50	7.50	7.50
Liquid Absolute Return	1	7.50	8.50	7.50	7.50
Equity		70.00	65.00	70.00	65.00
US Large Cap Equity	1	25.00	25.00	25.00	25.00
US Small Cap Equity	1	10.00	10.00	10.00	10.00
International Developed Equity	1	20.00	20.00	20.00	20.00
Emerging Market Equity	1	5.00	5.00	5.00	5.00
Long/Short Equity	2	10.00	5.00	5.00	0.00
Private Equity	3	0.00	0.00	5.00	5.00
Real Assets		10.00	10.00	10.00	15.00
Core Real Estate	2	6.00	6.00	6.00	9.00
Value Add Real Estate	2	4.00	4.00	4.00	6.00

Simu	lated Pre-Tax Portfolio Statistics				
	10-Year Median Return	5.90 %	5.80 %	6.12 %	6.16 %
	Standard Deviation	12.38 %	11.92 %	12.57 %	12.29 %
	Sharpe Ratio	0.45	0.45	0.46	0.48
	1st Percentile Return	-25.52 %	-24.51 %	-25.58 %	-24.58 %
Simu	lated Pre-Tax Portfolio Statistics				
	30-Year Median Return	7.83 %	7.75 %	8.04 %	8.13 %
	Standard Deviation	12.38 %	11.92 %	12.57 %	12.29 %
	Sharpe Ratio	0.46	0.47	0.47	0.49
	1st Percentile Return	-25.52 %	-24.51 %	-25.58 %	-24.58 %
Weig	ghted Average Liquidity	1.20	1.15	1.25	1.25

Disclosures and Legal Notice

The views expressed herein are those of Asset Consulting Group (ACG). They are subject to change at any time. These views do not necessarily reflect the opinions of any other firm.

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The projections or other information generated by ACG regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results and are not guarantees of future results. Judgments and approximations are a necessary and integral part of constructing projected returns. Any estimate of what could have been an investment strategy's performance is likely to differ from what the strategy would actually have yielded had it been in existence during the relevant period. The source and use of data and the arithmetic operations used for calculating projected returns may be incorrect, inappropriate, flawed or otherwise deficient.

Past performance is not indicative of future results. Given the inherent volatility of the securities markets, you should not assume that your investments will experience returns comparable to those shown in the analysis contained in this report. For example, market and economic conditions may change in the future producing materially different results than those shown included in the analysis contained in this report. Any comparison to an index is for comparative purposes only. An investment cannot be made directly into an index. Indices are unmanaged and do not reflect the deduction of advisory fees.

Oklahoma Municipal Retirement Fund Investment Committee Meeting Private Equity Education & Discussion

August 25, 2022



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 July and October 2021, Coalition Greenwich (previously known as Greenwich Associates), conducted in-person and phone interviews and online surveys with 811 professionals at 661 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.



- At OkMRF's Trustee Retreat, the Board reviewed the current Equity portfolio in the Defined Benefit Plan. ACG provided additional education on the Global Equity opportunity set and discussed multiple return-enhancing asset classes, including Non-US Small/Mid Cap Equity, Emerging Markets Small/Mid Cap Equity and Private Equity.
- Based on feedback from the Board, ACG narrowed the scope of the Equity discussion to focus on Private Equity education. As such, today's discussion will provide a deeper dive within the Private Equity universe and potential investment/vehicle options.
- As part of the more detailed Equity review, an asset allocation analysis is included in today's discussion to show the risk/return tradeoffs of potential alternative asset allocation targets for the DB Plan.
- Following today's discussion, ACG will be looking for further direction from the Board on any potential next steps.

Private Equity Opportunity Set

- There are an estimated 7,900 private equity-backed companies in the U.S. and 4,400 U.S.-listed public companies, a stark shift from the early 2000s.
- Despite the increased role played by private equity, the industry's penetration of the overall private company landscape is still very low—only
 around 4% of U.S.-based private companies are backed by private equity.
- This illustrates the potential opportunity set for private equity investors.







Total Private Companies
 PE-Backed Private Companies

Source: Pitchbook, World Bank, NAICS Association, ACG estimates

Note: Total Private Companies includes private companies with at least \$10 million of annual revenue; PE-Backed Private Companies exclude venture-stage businesses

Private Equity

Private Equity Portfolio Diversification

Seed Stage	Small	Origination Origination strategies will typically not be included as part of the Private Equity allocation due to their lower return targets. However, Special Situations opportunities will be considered as they have higher return targets and may include significant equity exposure.
Growth Equity	Large	Special Situations

- 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 can be achieved through direct funds or fund of funds.

Private Equity Return Dispersion

Relative strategy returns vary meaningfully over time, so it is important to build a diversified portfolio.

						-	-							
2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Natural	Growth	Growth	Venture	Distressed	Performing	Venture	Venture	Venture	Venture	Venture	Venture	Venture	Growth	Growth
Resources	Equity	Equity	Capital	Debt	Debt	Capital	Capital	Capital	Capital	Capital	Capital	Capital	Equity	Equity
19.2%	12.7%	9.1%	12.9%	14.5%	13.3%	18.1%	18.9%	24.1%	19.7%	25.2%	27.7%	35.2%	36.7%	33.3%
Duniout	Venture	Duncert	Dungan	Dungant	Dungant	Growth	Du u vo u t	Dungant	Duncert	Dungan	Growth	Growth	Venture	Venture
BUYOUI	Capital	BUYOUI	BUYOUI	BUYOUI	BUYOUI	Equity	BUYOUI	BUYOUI	BUYOUI	BUYOUI	Equity	Equity	Capital	Capital
16.0%	11.4%	8.9%	9.8%	13.9%	13.1%	16.8%	18.1%	15.8%	17.2%	20.0%	21.1%	27.7%	35.0%	30.9%
Performing	Democrat	Distressed	Growth	Venture	Venture	Performing	Growth	Growth	Growth	Growth	Natural	Dennered	Deversed	Democrat
Debt	BUYOUT	Debt	Equity	Capital	Capital	Debt	Equity	Equity	Equity	Equity	Resources	BUYOUT	BUYOUT	BUYOUT
7.2%	7.2%	7.5%	8.9%	9.6%	12.2%	11.5%	13.0%	15.5%	13.5%	17.7%	21.0%	23.2%	24.8%	27.4%
Venture	Natural	Performing	Distressed	Growth	Growth	Distressed	Distressed	Performing	Distressed	Natural		Distressed	Distressed	Natural
Capital	Resources	Debt	Debt	Equity	Equity	Debt	Debt	Debt	Debt	Resources	BUYOUT	Debt	Debt	Resources
0.2%	7.1%	4.8%	6.2%	6.6%	7.5%	10.9%	9.8%	7.8%	6.4%	6.5%	20.1%	17.4%	13.2%	11.9%
Distressed	Performing	Venture	Natural	Performing	Distressed	Democrat	Performing	Distressed	Performing	Performing	Distressed	Performing	Natural	Performing
Debt	Debt	Capital	Resources	Debt	Debt	BUYOUT	Debt	Debt	Debt	Debt	Debt	Debt	Resources	Debt
0.1%	5.5%	3.3%	4.4%	6.1%	7.2%	9.6%	8.0%	6.4%	5.1%	6.4%	9.2%	10.1%	10.8%	11.7%
Growth	Distressed	Natural	Performing	Natural	Natural	Natural	Natural	Natural	Natural	Distressed	Performing	Natural	Performing	Distressed
Equity	Debt	Resources	Debt	Resourc <u>es</u>	Resources	Resources	Resources	Resourc <u>es</u>	Resources	Debt	Debt	Resources	Debt	Debt
-5.4%	3.5%	2.7%	4.0%	-2.1%	7.1%	-3.9%	-0.2%	6.2%	2.1%	5.9%	9.2%	5.0%	9.9%	11.0%

Strategy Returns by Vintage Year - As of June 30, 2021

Performance Spread by Asset Class for 10 Years ending September 30, 2021



The large difference in private equity active manager returns provides **significant additional outperformance capability** with proper manager selection.

Stable Drivers of Return Premium

Capital Inefficiency	Less capital pursuing a larger, more diversified set of companies
Valuation Discount	Private businesses can be purchased for valuation multiples that are less than those observed in public markets
Alignment	Long-term investment horizon with shared economic incentives for LPs, GPs and management teams
Hands-On Value Creation	Control orientation allows GPs to guide decision making and invest for growth

Private Equity

Investment Options and Vehicle Characteristics

Investment Factors	Direct Fund	Fund of Funds
Underlying Positions	10 - 50 companies	100 - 3,500 companies
Institutional Sponsorship	Yes	Yes
Minimum Investment	\$5 million	\$250,000
Decision Making Timeline	1 - 6 months	6 - 12 months
Decision Making Process	Requires efficiency due to short fundraising timelines and restricted access to new investors	Less time and capacity constraints, but still requires efficient approval and documentation
Management Fees	1.5% - 2.0%	0.25% - 0.75% (plus Direct Fund fees)
Carried Interest	20% with an 8% preferred return	5% with an 8% preferred return (plus Direct Fund carry)
Fund Term	10 years with two 1-year extensions	12 years with two 1-year extensions
Vintage Year Exposure	1 year	2 - 4 years
Net IRR Target	15%+	11% - 15%
Net Multiple Target	1.7x - 2.0x	1.5x - 1.7x

Critical Success Factors for Building a Private Equity Portfolio

Efficient Decision Making	The best private equity managers and funds often limit the number of new investors they accept. An efficient decision making and document negotiation process is necessary to access many of the best investment opportunities.
Strategic Allocation	A strategic allocation to private equity implemented through sustained commitments to private equity partnerships over time.
Manager Selection	Ability to identify and select established, superior fund managers who bring specialized expertise and talent to the strategy they are implementing.
Manager Access	Access to, and the ability to identify emerging fund managers in order to enhance returns and further the program's maturation.
Risk Management	A strategic allocation that is diversified by business stage, fund strategy, industry, geography, manager and time.
Market Awareness	The ability to tactically exploit opportunities, which result from capital market shifts, balanced with an investor's long-term strategic objective.

Private Equity Cash Flow Modeling and Commitment Pacing

- The goal of cash flow modeling is to create a commitment pacing plan that allows the private equity program to efficiently reach and maintain the long-term target allocation. Maintaining private equity exposure at or near the target allocation is a key component of risk control.
- Due to the nature of private equity cash flows, whereby capital is called over time and distributions serve to offset contributions later in a fund's life, an investor's max out-of-pocket percentage is typically only 60-70% of its total fund commitment.
- This dynamic means that an investor must "over-commit" in order to achieve the portfolio's target allocation.
- Repeated new commitments are also necessary to maintain a target private equity allocation.
- An investor's commitment pacing plan should be developed using a customized cash flow analysis that incorporates factors such as expected future cash spending needs and their preferred investment and strategy mixes.



Illustrative Private Equity Commitment Pacing

Note: This example is for illustrative purposes only and is not meant as a forecast of performance.

Importance of Consistent Implementation

The negative impact of missing the top-performing vintage years is greater than the return enhancement from avoiding the lowest-performing years, so it is critical that investors maintain a consistent commitment pace across market environments.



Note: Analysis based on PitchBook data for Global Buyout, Growth and Venture Capital funds with performance reported as of September 30, 2021. Performance data represents

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the mean composite return for each set of vintage years. Some figures may not fully sum due to rounding.

Source: PitchBook, ACG Research

- Confirm the current asset allocation targets or approve new asset allocation targets for the DB Plan.
- If new asset allocation targets are approved, determine the best strategy to transition assets to the new targets and discuss a detailed transition plan at a future Board/Investment Committee Meeting.



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Oklahoma Municipal Retirement Fund Investment Committee Meeting Long/Short Equity Discussion

August 25, 2022



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 July and October 2021, Coalition Greenwich (previously known as Greenwich Associates), conducted in-person and phone interviews and online surveys with 811 professionals at 661 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.



- At OkMRF's Trustee Retreat, the Board reviewed the current Equity portfolio in the Defined Benefit Plan. ACG provided additional education on the Global Equity opportunity set and discussed multiple return-enhancing asset classes.
- As you know, since early 2021, the Long/Short Equity portfolio's performance has been challenged for a variety of reasons.
- Today's discussion will provide a deeper review of the Long/Short Equity portfolio. Due to the nature of Long/Short Equity strategies, a detailed liquidity analysis is provided to illustrate the timing of when redemptions would be received.
- An asset allocation analysis is also included in today's discussion to show the risk/return trade-offs of potential alternative asset allocation targets for the DB Plan.
- Following today's discussion, ACG will be looking for further direction from the Board on any potential next steps.

We are targeting a **portfolio with 2/3rds (or less) of the risk of the global equity market**. The target range of the portfolio exposure will be between 50% and 80% net exposure.



Numbers in parenthesis are the current net exposure. The ellipticals illustrate the historical range of net exposure for each manager.

Core: typically fund is diversified by sector and /or region; Satellite: typically fund is concentrated and/or focused by sector/region or strategy; Emerging: typically fund has a short track record or small dollar amount.

Net Exposure equals Long Positions minus Short Positions. Gross Exposure equals Long Positions plus Short Positions.

Long/Short Equity Portfolio Liquidity

K2 Strategy	Manager Type	Initial Funding Date	Current Amount (\$000)	% Allocation	Proposed Investment/ Rebalance	1/23 Distribution	4/23 Distribution	6/23 Distribution	7/23 Distribution	10/23 Distribution	1/24 Distribution	4/24 Distribution
Manager A	Core	8/1/2018	\$5,780	10.6%								
Manager B	Satellite	4/1/2020	\$5,379	9.9%								
Manager C	Satellite	11/1/2021	\$5,560	10.2%								
Manager D	Satellite	5/1/2018	\$4,726	8.7%								
Manager E	Satellite	4/1/2019	\$2,385	4.4%								
Manager F	Core	5/1/2018	\$7,334	13.5%								
Manager G ¹	Satellite	4/1/2019	\$2,215	4.1%	(\$2,215)	\$486	\$481		\$556	\$556	\$69	\$69
Manager H	Satellite	8/1/2018	\$5,848	10.7%								
Manager I	Core	5/1/2018	\$5,240	9.6%								
Manager J ²	Core	6/1/2020	\$4,319	7.9%	(\$4,319)		\$583	\$3,736				
Manager K	Core	5/1/2018	\$5,619	10.3%								
Long/Short Equity			\$54,405		(\$6,534)	\$486	\$1,064	\$3,736	\$556	\$556	\$69	\$69

¹The latest tranche lock up will expire May 2023

²Liquidity is based on Investor Anniversary date. OMRF made two contributions into this fund, one on 6/1/2020 and one on 4/1/2021, so there are two effective redemption dates.

K2 Strategy	Manager Type	Initial Funding Date	Lock	Lock Expiration	Post Lock Liquidity	Next Liquidity Date	K2 Notice Period (days)	Next Liquidity Notice Date	Days Remaining until Notice	Gate
Manager A	Core	8/1/2018	None	Yes	Quarterly - first day	12/1/2022	97	8/26/2022	11	NA
Manager B	Satellite	4/1/2020	None	Yes	Quarterly	12/31/2022	95	9/27/2022	43	25% investor level gate
Manager C	Satellite	11/1/2021	One Year	Yes	Quarterly	12/31/2022	95	9/27/2022	43	NA
Manager D	Satellite	5/1/2018	One Year Soft	Yes	Monthly	9/30/2022	35	8/26/2022	11	NA
Manager E	Satellite	4/1/2019	Two Year	Yes	Quarterly	12/31/2022	50	11/11/2022	88	25% investor level gate
Manager F	Core	5/1/2018	None	Yes	Quarterly	12/31/2022	65	10/27/2022	73	25% investor level gate
Manager G ¹	Satellite	4/1/2019	One Year	Yes	Quarterly	12/31/2022	65	10/27/2022	73	25% investor level gate
Manager G	1	5/1/2022	One Year	No	Quarterly	6/30/2023	65	4/26/2023	254	25% investor level gate
Manager H	Satellite	8/1/2018	None	Yes	Quarterly	12/31/2022	95	9/27/2022	43	NA
Manager I	Core	5/1/2018	One Year Soft	Yes	Quarterly	12/31/2022	50	11/11/2022	88	NA
Manager J ²	Core	6/1/2020	One Year	Yes	Annual Anniversary	5/31/2023	65	3/27/2023	224	NA
Manager J	2	4/1/2021	One Year	Yes	Annual Anniversary	3/31/2023	65	1/25/2023	163	NA
Manager K	Core	5/1/2018	None	Yes	4/30, 7/31, 10/31, 1/31	10/31/2022	50	9/11/2022	27	NA

¹The latest tranche lock up will expire May 2023

²Liquidity is based on Investor Anniversary date. OMRF made two contributions into this fund, one on 6/1/2020 and one on 4/1/2021, so there are two effective redemption dates.

Equity Long/Short Portfolio For the Period Ending June 30, 2022

			Expo	osure			Regi	onal Alloc	ation		Market Cap			
Investment Manager	% of Total Long/Short	Long	Short	Gross	Net	North America	Europe	Asia	Latin America	Other	Large	Mid	Small	
Manager A	11%	111%	47%	158%	65%	4%	96%	0%	0%	0%	78%	16%	7%	
Manager B	10%	100%	0%	100%	100%	100%	0%	0%	0%	0%	0%	58%	42%	
Manager C	10%	87%	0%	87%	87%	100%	0%	0%	0%	0%	10%	75%	14%	
Manager D	9%	56%	39%	96%	17%	87%	10%	0%	0%	3%	58%	34%	8%	
Manager E	4%	88%	45%	133%	44%	82%	18%	0%	0%	0%	45%	40%	14%	
Manager F	13%	111%	65%	176%	46%	80%	16%	2%	0%	2%	69%	29%	2%	
Manager G	4%	87%	21%	107%	66%	100%	0%	0%	0%	0%	77%	15%	8%	
Mananger H	11%	76%	23%	99%	53%	95%	5%	0%	0%	0%	38%	37%	25%	
Manager I	10%	56%	45%	101%	11%	100%	0%	0%	0%	0%	96%	3%	1%	
Manager J	8%	89%	44%	133%	44%	78%	6%	8%	0%	9%	62%	20%	18%	
Manager K	10%	94%	63%	157%	31%	82%	14%	4%	0%	0%	55%	38%	7%	
Current Equity Long/Short Portfolio	100%	88%	37%	1 2 5%	51%	81%	17%	1%	0%	1%	53%	34%	13%	
MSCI All Country World Index					64%	16%	18%	1%	1%	96%	4%	0%		
+/- Index						17%	1%	-17%	-1%	0%	-44%	30%	13%	

		Sector Allocation											
Investment Manager	% of Total Long/Short	Comm. Services	Cons. Discret.	Cons. Staples	Energy	Financials	Health Care	Industrials	Info Tech.	Materials	Real Estate	Utilities	Other
Manager A	11%	1%	35%	8%	1%	0%	14%	19%	17%	1%	2%	0%	3%
Manager B	10%	0%	29%	17%	0%	0%	19%	0%	35%	0%	0%	0%	0%
Manager C	10%	0%	23%	0%	0%	15%	6%	10%	46%	0%	0%	0%	0%
Manager D	9%	2%	4%	0%	1%	8%	29%	7%	21%	6%	19%	0%	1%
Manager E	4%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%
Manager F	13%	0%	4%	14%	12%	19%	3%	25%	13%	5%	0%	0%	5%
Manager G	4%	8%	0%	0%	0%	0%	0%	0%	92%	0%	0%	0%	0%
Mananger H	11%	4%	3%	0%	0%	13%	16%	13%	30%	9%	0%	0%	11%
Manager I	10%	8%	17%	9%	3%	3%	30%	8%	20%	1%	1%	0%	0%
Manager J	8%	0%	20%	11%	1%	11%	36%	5%	15%	0%	0%	0%	2%
Manager K	10%	21%	24%	11%	0%	3%	1%	5%	31%	0%	2%	0%	0%
Current Equity Long/Short Portfolio	100%	4%	16%	7%	2%	8%	1 9 %	10%	27%	2%	2%	0%	2%
MSCI All Country World Index	9%	12%	7%	4%	14%	12%	10%	22%	5%	3%	3%	0%	
+/- Index	-5%	3%	1%	-1%	-7%	7%	1%	5%	-2 %	-1%	-3%	2%	

Equity Long/Short Portfolio For the Period Ending June 30, 2022

K2 Equity Long/Short Portfolio-Historical Experience

	Return	Std	Sharpe		Trey.		Alpha	Track	Info	Bat	Up	Down							
Data as of December 31, 2020	%	Dev %	Ratio	Beta	Ratio	R ² %	%	Error %	Ratio	Avg %	Cap %	Cap %		Last 112	Months Per	formance			
			1 Y	ear									# Pos.	# Neg.	Best	Worst	Median		
Global Long/Short Equity *	24.82	16.41	1.49										76	36	9.45	-7.35	0.73		
MSCI ACWI	16.82	26.00	0.63	0.60	0.41	90.80	13.02	11.50	0.70	58.33	69.87	41.96	75	37	12.36	-13.44	1.32		
HFRI FOF: Strategic	14.61	14.46	0.98	1.03	0.24	82.24	8.80	6.93	1.47	66.67	123.24	76.74	70	42	5.52	-9.70	0.65		
			3 Y	ears									2020	2019	2018	2017	2016		
Global Long/Short Equity *	11.27	11.71	0.84										24.82	18.15	-6.57	11.95	2.57		
MSCI ACWI	10.64	18.38	0.50	0.60	0.16	87.56	4.44	8.49	0.07	47.22	59.70	51.68	16.82	27.30	-8.93	24.62	8.48		
HFRI FOF: Strategic	5.74	9.60	0.44	1.11	0.09	82.38	4.80	5.02	1.10	69.44	133.67	91.71	14.61	10.51	-6.67	11.23	-0.05		
	5 Years												2015	2014	2013	2012	2011		
Global Long/Short Equity *	9.61	9.63	0.88										1.68	1.77	13.82	2.26			
MSCI ACWI	12.86	15.08	0.78	0.59	0.14	84.92	1.86	7.24	-0.45	40.00	58.60	57.71	-1.84	4.71	23.44	16.80	-6.86		
HFRI FOF: Strategic	5.62	7.94	0.57	1.10	80.0	81.97	3.35	4.16	0.96	68.33	129.32	94.16	-0.55	3.07	10.53	5.79	-7.28		
Annualized Return		St	andard [)eviatior	1				Monthly	Returns			Calendar Returns						









3 Year Relative Rolling Returns

3 Year Rolling R²

Rel Perf vs. MSCI AC<u>WI</u>

Rel Perf vs. HFRI FOF: Strategic





Statistics are calculated using monthly return data. * Indicates net of fee performance.

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K2 Equity Long/Short Portfolio-Historical Experience

	Return	Std	Sharpe		Trey.		Alpha	Track	Info	Bat	Up	Down							
Data as of June 30, 2022	%	Dev %	Ratio	Beta	Ratio	R ² %	%	Error %	Ratio	Avg %	Cap %	Cap %		Last 130	Months Per	formance			
			1 Y	ear									# Pos.	# Neg.	Best	Worst	Median		
Global Long/Short Equity *	-22.41	10.00	-2.26										83	47	9.45	-7.35	0.60		
MSCI ACWI	-15.37	15.54	-1.00	0.48	-0.47	55.34	-15.95	10.50	-0.67	33.33	-22.25	73.07	86	44	12.36	-13.44	1.32		
HFRI FOF: Strategic	-12.07	6.94	-1.76	1.20	-0.19	69.50	-9.13	5.69	-1.82	25.00	63.26	155.19	77	53	5.52	-9.70	0.54		
			3 Y	ears									2021	2020	2019	2018	2017		
Global Long/Short Equity *	2.41	13.10	0.14										1.04	24.82	18.15	-6.57	11.95		
MSCI ACWI	6.71	18.02	0.34	0.62	0.03	71.89	-1.77	9.80	-0.44	38.89	46.96	64.21	19.04	16.82	27.30	-8.93	24.62		
HFRI FOF: Strategic	3.00	10.01	0.25	1.17	0.02	79.35	-0.81	6.18	-0.10	52.78	120.36	123.40	6.24	14.61	10.51	-6.67	11.23		
			5 Y	ears									2016	2015	2014	2013	2012		
Global Long/Short Equity *	3.48	11.31	0.22										2.57	1.68	1.77	13.82	2.26		
MSCI ACWI	7.54	16.20	0.40	0.60	0.04	74.83	-1.13	8.57	-0.47	38.33	48.43	62.52	8.48	-1.84	4.71	23.44	16.80		
HFRI FOF: Strategic	2.94	8.50	0.23	1.19	0.02	80.05	0.17	5.30	0.10	56.67	125.33	120.68	-0.05	-0.55	3.07	10.53	5.79		
Annualized Return		St	andard [eviation	1				Monthly	Returns			Calendar Returns						









3 Year Relative Rolling Returns







Statistics are calculated using monthly return data. * Indicates net of fee performance.

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3% 4%

K2 Equity Long/Short Portfolio-Historical Experience

	Return	Std	Sharpe		Trey.		Alpha	Track	Info	Bat	Up	Down							
Data as of June 30, 2022	%	Dev %	Ratio	Beta	Ratio	R ² %	%	Error %	Ratio	Avg %	Cap %	Cap %		Last 130	Months Per	formance			
			1 Y	ear									# Pos.	# Neg.	Best	Worst	Median		
Global Long/Short Equity *	-22.41	10.00	-2.26										83	47	9.45	-7.35	0.60		
MSCI ACWI	-15.37	15.54	-1.00	0.48	-0.47	55.34	-15.95	10.50	-0.67	33.33	-22.25	73.07	86	44	12.36	-13.44	1.32		
HFRI FOF: Strategic	-12.07	6.94	-1.76	1.20	-0.19	69.50	-9.13	5.69	-1.82	25.00	63.26	155.19	77	53	5.52	-9.70	0.54		
			5 Y	ears									2021	2020	2019	2018	2017		
Global Long/Short Equity *	3.48	11.31	0.22										1.04	24.82	18.15	-6.57	11.95		
MSCI ACWI	7.54	16.20	0.40	0.60	0.04	74.83	-1.13	8.57	-0.47	38.33	48.43	62.52	19.04	16.82	27.30	-8.93	24.62		
HFRI FOF: Strategic	2.94	8.50	0.23	1.19	0.02	80.05	0.17	5.30	0.10	56.67	125.33	120.68	6.24	14.61	10.51	-6.67	11.23		
			10 Y	'ears									2016	2015	2014	2013	2012		
Global Long/Short Equity *	4.41	9.01	0.43										2.57	1.68	1.77	13.82	2.26		
MSCI ACWI	9.32	13.40	0.65	0.57	0.07	71.68	-0.88	7.50	-0.66	39.17	47.24	58.52	8.48	-1.84	4.71	23.44	16.80		
HFRI FOF: Strategic	3.75	6.76	0.47	1.18	0.03	78.13	0.11	4.38	0.15	58.33	122.35	119.67	-0.05	-0.55	3.07	10.53	5.79		
Annualized Return		St	andard [)eviatior	1				Monthly	Returns			Calendar Returns						









5 Year Relative Rolling Returns



Rel Perf vs. MSCI ACWI

Rel Perf vs. HFRI FOF: Strategic





Statistics are calculated using monthly return data. * Indicates net of fee performance.

- Confirm the current asset allocation targets or approve new asset allocation targets for the DB Plan.
- If new asset allocation targets are approved, determine the best strategy to transition assets to the new targets and discuss a detailed transition plan at a future Board/Investment Committee Meeting.



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Oklahoma Municipal Retirement Fund

Investment Performance Review

June 30, 2022



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 July and October 2021, Coalition Greenwich (previously known as Greenwich Associates), conducted in-person and phone interviews and online surveys with 811 professionals at 661 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.



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Definitions of Statistical Measures

Quality Rating Scale
Market Overview

Market Environment





Equity Index Returns



For the Periods Ending June 30, 2022

S&P 500

US Markets - Performance Breakdown

For the Periods Ending June 30, 2022



Russell 2000 - Sector Returns (%)

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.

3 Months

YTD

S&P 500 - Sector Returns (%)

Non-US Equity Index Returns

For the Periods Ending June 30, 2022



Non-US Equity - Performance Breakdown

For the Periods Ending June 30, 2022

MSCI EAFE - Country Returns (%)



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

MSCI EAFE - Sector Returns (%)

Source: ACG Research, Bloomberg

Emerging Markets - Performance Breakdown

For the Periods Ending June 30, 2022

MSCI Emerging Markets - Sector Returns (%)



MSCI Emerging Markets - Country Returns (%)



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

YTD

3 Months

Source: ACG Research, Bloomberg

Interest Rate Term Structure





Source: Bloomberg

Fixed Income Index Returns

For the Periods Ending June 30, 2022



US Fixed Income Market Environment

For the Periods Ending June 30, 2022

Nominal Returns By Sector (%)								
	<u>3 Months</u>	YTD	<u>1 Year</u>	<u>3 Years</u>				
US Aggregate	-4.69	-10.35	-10.30	-0.94				
US Treasury	-3.78	-9.14	-8.88	-0.88				
US Agg: Gov't-Related	-3.99	-9.17	-9.26	-0.82				
US Corporate IG	-7.26	-14.39	-14.19	-0.99				
MBS	-4.00	-8.77	-9.01	-1.44				
CMBS	-2.85	-8.28	-8.89	-0.16				
ABS	-0.91	-3.76	-4.28	0.51				
US Corp High Yield	-9.83	-14.19	-12.82	0.21				

Nominal Returns by Quality (%)								
	<u>3 Months</u>	YTD	<u>1 Year</u>	<u>3 Years</u>				
AAA	-3.77	-8.87	-8.88	-1.02				
AA	-5.62	-12.25	-12.04	-1.19				
A	-6.51	-13.31	-13.28	-0.99				
BAA	-7.93	-15.19	-14.87	-0.99				
BA	-8.43	-13.86	-12.26	1.25				
В	-10.76	-13.91	-12.66	-0.52				
CAA	-12.98	-16.36	-15.28	-1.81				

	Nominal Returns by I	Maturity (%)		
	<u>3 Months</u>	YTD	<u>1 Year</u>	<u>3 Years</u>
1-3 Yr.	-0.64	-3.14	-3.59	0.21
3-5 Yr.	-1.88	-6.26	-6.93	-0.31
5-7 Yr.	-3.25	-8.29	-8.72	-0.46
7-10 Yr.	-5.42	-11.68	-11.83	-0.84
10+ Yr.	-12.23	-21.84	-20.10	-2.30





Source: Bloomberg Excess returns are relative to the duration-neutral Treasury.

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Monthly Index Returns

For the Periods Ending June 30, 2022

Index Name	3 Months (%)	YTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
Equity							
S&P 500	-16.10	-19.96	-10.62	10.60	11.31	11.14	12.96
Russell 1000	-16.67	-20.94	-13.04	10.17	11.00	10.78	12.82
Russell 1000 Growth	-20.92	-28.07	-18.77	12.58	14.29	13.45	14.80
Russell 1000 Value	-12.21	-12.86	-6.82	6.87	7.17	7.69	10.50
Russell 2500	-16.98	-21.81	-21.00	5.91	7.04	7.16	10.49
Russell 2000	-17.20	-23.43	-25.20	4.21	5.17	5.91	9.35
Russell 2000 Growth	-19.25	-29.45	-33.43	1.40	4.80	4.96	9.30
Russell 2000 Value	-15.28	-17.31	-16.28	6.18	4.89	6.40	9.05
Wilshire 5000 Cap Wtd	-13.68	-17.95	-9.97	11.51	11.65	11.31	13.12
MSCI ACWI	-15.53	-19.97	-15.37	6.71	7.54	7.54	9.32
MSCI ACWI ex US	-13.54	-18.15	-19.01	1.81	2.98	3.40	5.31
MSCI EAFE	-14.29	-19.25	-17.33	1.54	2.69	3.19	5.89
MSCI EAFE Local Currency	-7.60	-10.93	-6.09	4.85	4.77	4.90	8.83
MSCI EAFE Growth	-16.74	-26.62	-23.53	1.64	3.84	4.27	6.67
MSCI EAFE Value	-12.11	-11.67	-11.29	0.79	1.13	1.78	4.85
MSCI Emerging Markets	-11.34	-17.47	-25.00	0.92	2.55	3.16	3.43
Fixed Income							
ICE BofA ML 1-3 Yr Treasury	-0.50	-2.84	-3.30	0.24	0.94	0.84	0.79
Bloomberg 5 Yr Municipal	-0.42	-5.50	-5.34	0.15	1.17	1.49	1.62
Bloomberg US Aggregate	-4.69	-10.35	-10.29	-0.93	0.88	1.42	1.54
Bloomberg Gov't Bond	-3.71	-9.04	-8.82	-0.85	0.76	1.07	1.03
Bloomberg US Credit	-6.90	-13.81	-13.64	-1.00	1.24	2.21	2.45
Bloomberg 10 Yr Municipal	-2.16	-8.26	-7.90	0.00	1.66	2.28	2.52
Bloomberg US Corp High Yield	-9.83	-14.19	-12.81	0.21	2.10	3.48	4.47
FTSE World Govt Bond	-8.91	-14.79	-16.77	-4.27	-1.17	0.08	-0.69
Bloomberg Global Aggregate	-8.26	-13.91	-15.25	-3.22	-0.55	0.50	0.11
Bloomberg Multiverse	-8.43	-13.97	-15.35	-3.20	-0.52	0.62	0.27
JPM EMBI Global Diversified	-11.43	-20.31	-21.22	-5.22	-1.19	1.33	2.21
Real Assets							
NCREIF Property	3.23	8.73	21.46	10.22	8.86	8.84	9.67
NFI ODCE Net	4.58	12.05	28.36	11.68	9.56	9.35	10.16
FTSE NAREIT US Real Estate	-17.00	-20.20	-6.27	4.00	5.30	6.74	7.39
Bloomberg Commodity	-5.66	18.44	24.27	14.34	8.39	2.79	-0.82
Cash and Equivalents							
US T-Bills 90 Day	0.10	0.14	0.17	0.63	1.11	0.89	0.64

Monthly Index Returns

For the Periods Ending July 31, 2022

Index Name	1 Month (%)	YTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
Equity							
S&P 500	9.22	-12.58	-4.64	13.36	12.83	12.22	13.80
Russell 1000	9.31	-13.58	-6.87	12.91	12.55	11.89	13.69
Russell 1000 Growth	12.00	-19.44	-11.93	16.05	16.30	14.76	15.95
Russell 1000 Value	6.63	-7.08	-1.43	8.88	8.26	8.61	11.10
Russell 2500	10.35	-13.72	-11.27	9.07	8.95	8.70	11.66
Russell 2000	10.44	-15.43	-14.29	7.51	7.12	7.61	10.60
Russell 2000 Growth	11.20	-21.55	-23.18	4.71	6.87	6.51	10.66
Russell 2000 Value	9.68	-9.30	-4.77	9.44	6.71	8.25	10.18
Wilshire 5000 Cap Wtd	9.55	-10.12	-3.11	14.39	13.28	12.49	14.03
MSCI ACWI	7.02	-14.35	-10.07	9.03	8.40	8.44	9.91
MSCI ACWI ex US	3.46	-15.32	-14.83	3.38	2.93	3.94	5.52
MSCI EAFE	4.99	-15.22	-13.86	3.64	3.11	3.61	6.28
MSCI EAFE Local Currency	5.20	-6.29	-1.61	6.38	5.70	5.14	9.22
MSCI EAFE Growth	7.93	-20.80	-18.86	4.38	4.93	5.05	7.30
MSCI EAFE Value	2.10	-9.82	-9.22	2.25	0.88	1.83	5.00
MSCI Emerging Markets	-0.16	-17.61	-19.77	1.25	1.32	4.19	3.21
Fixed Income							
ICE BofA ML 1-3 Yr Treasury	0.33	-2.52	-3.14	0.38	0.96	0.88	0.79
Bloomberg Municipal	2.64	-6.58	-6.93	0.43	1.88	2.35	2.49
Bloomberg US Aggregate	2.44	-8.16	-9.12	-0.21	1.28	1.67	1.65
Bloomberg Gov't Bond	1.58	-7.60	-8.60	-0.29	1.04	1.18	1.09
Bloomberg US Credit	3.04	-11.19	-12.15	-0.18	1.70	2.55	2.48
Bloomberg 10 Yr Municipal	2.93	-5.57	-6.09	0.68	2.06	2.59	2.66
Bloomberg US Corp High Yield	5.90	-9.12	-8.02	1.95	3.06	4.42	4.87
FTSE World Govt Bond	1.78	-13.27	-16.65	-3.56	-1.18	0.26	-0.61
Bloomberg Global Aggregate	2.13	-12.08	-14.58	-2.45	-0.47	0.77	0.20
Bloomberg Multiverse	2.20	-12.09	-14.56	-2.42	-0.42	0.91	0.37
Real Assets							
Bloomberg Commodity	4.26	23.49	27.23	16.21	8.82	5.08	-1.03
Cash and Equivalents							
US T-Bills 90 Day	0.05	0.20	0.21	0.58	1.10	0.90	0.64

Defined Benefit Plan Performance

Performance vs. Objectives

	Benchmark (%)	Rank	Total Portfolio (%)	Rank	Objective Met?	Benchmark (%)	Rank	Total Portfolio (%)	Rank	Objectiv 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		6.45		No	7.25		8.00		Yes
The Pension Plan gross annualized total return should equal or exceed the annualized total return of the policy index.	6.22		6.45		Yes	7.80		8.00		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%).	5.84	50th	6.45	28th	Yes	7.36	50th	8.00	26th	Yes
Gross volatility or standard deviation should be in line with that of the Policy Index.	11.49		11.06		Yes	9.42		8.88		Yes

For the Periods Ending June 30, 2022

Performance and Statistics are calculated using monthly return data. * Indicates net of fee data.

Policy Index: Effective October 2021, the index consists of 70.00% MSCI ACWI, 20.00% Bloomberg US Aggregate, 10.00% NCREIF Property.

Total Portfolio

For the Periods Ending June 30, 2022



Porformance by Broad Assot Class	Market	Actual	Target	3 Months	YTD	FYTD	3 Years	5 Years	10 Years	Since
renomance by bload Asser class	Value (3000s)	Allocation (7%)		(/0)	(/0)	(/0)	(/0)	(/0)	(/0)	incp. (⁄₀)
Total Portfolio (04/91)	646,020	100.00	100.00	-10.47	-15.54	-12.18	5.64	6.45	8.00	7.33
Policy Index				-11.60	-15.44	-11.22	5.47	6.22	7.80	7.38
Equity (10/10)	410,372	63.52	70.00	-14.51	-20.73	-17.17	6.69	7.78	9.82	9.66
MSCI ACWI				-15.53	-19.97	-15.37	6.71	7.54	9.32	8.54
Fixed Income (06/03)	136,170	21.08	20.00	-4.12	-8.26	-8.05	1.00	2.18	2.91	4.35
Bloomberg US Aggregate				-4.69	-10.35	-10.29	-0.93	0.88	1.54	3.19
Real Assets (09/11)	61,227	9.48	10.00	4.06	11.01	28.66	12.82	10.77	1 2 .11	12.19
NCREIF Property				3.23	8.73	21.46	10.22	8.86	9.67	10.04
Cash and Equivalents (09/11)	38,250	5.92	0.00	0.11	0.11	0.13	0.47	0.90	0.52	0.49

Returns and statistics are calculated using monthly return data.

Percentages following the asset classes represent the target allocation.

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Total Portfolio



For the Periods Ending June 30, 2022

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.

Rates of Return Summary & Universe Rankings

	Market Value (\$000s)	Actual Allocation (%)	3 Months (%)	Rank	YTD (%)	Rank	FYTD (%)	Rank	3 Years (%)	Rank	5 Years (%)	Rank	10 Year (%)
Total Portfolio (04/91)	646,020	100.00	-10.47	29 / 56	-15.54	39 / 69	-12.18	42 / 75	5.64	29 / 49	6.45	28 / 46	8.00
Policy Index ¹			-11.60		-15.44		-11.22		5.47		6.22		7.80
IM TF Between 55 - 70% Equity			-11.33		-16.22		-12.65		4.87		5.84		7.36
IM Public DB Gross			-10.27		-14.32		-10.34		5.63		6.34		7.69
Equity (10/10)	410,372	63.52	-14.51		-20.73		-17.17		6.69		7.78		9.82
MSCI ACWI			-15.53		-19.97		-15.37		6.71		7.54		9.32
US Equity (06/00)	210,745	32.62	-15.59		-19.87		-12.27		9.49		10.54		12.34
Russell 3000			-16.70		-21.10		-13.87		9.77		10.60		12.57
US Large Cap Equity (09/04)	151,697	23.48	-16.10		-19.96		-10.64		10.69		11.28		13.01
S&P 500			-16.10		-19.96		-10.62		10.60		11.31		12.96
SSgA S&P 500 Non-Lending (02/10)	151,697	23.48	-16.10	75	-19.96	63	-10.64	53	10.60	39	11.32	42	12.99
S&P 500			-16.10		-19.96		-10.62		10.60		11.31		12.96
eA US Large Cap Core Equity			-14.85		-18.97		-10.29		10.10		10.98		12.76
US Small/Mid Cap Equity	59,048	9.14											
River Road Small Cap Value (04/16)	35,397	5.48	-8.88	7	-11.16	10	-6.33	15	6.53	69	7.99	23	
Russell 2000 Value			-15.28		-17.31		-16.28		6.18		4.89		9.05
eA US Small Cap Value Equity			-13.41		-15.68		-11.09		7.75		6.56		10.58
TimesSquare (04/09)	23,651	3.66	-20.64	55	-29.54	47	-28.84	59	3.24	81	7.26	81	10.34
Russell 2500 Growth			-19.55		-29.45		-31.81		3.68		7.53		10.88
eA US Small-Mid Cap Growth Equity			-20.11		-29.77		-27.84		5.58		10.35		12.21
Non-US Equity (06/00)	145,223	22.48	-13.16		-22.88		-22.56		4.11		5.09		7.55
MSCI ACWI ex US			-13.54		-18.15		-19.01		1.81		2.98		5.31
International Developed Market	122,296	18.93											
Artisan International Value (05/10)	44,761	6.93	-10.19	11	-12.68	17	-10.86	11	7.36	5	5.89	10	9.69
MSCI EAFE			-14.29		-19.25		-17.33		1.54		2.69		5.89
eA EAFE All Cap Equity			-13.83		-20.03		-17.98		2.12		2.70		6.60

For the Periods Ending June 30, 2022

Rates of Return Summary & Universe Rankings

	Market Value (\$000s)	Actual Allocation (%)	3 Months (%)	Rank	YTD (%)	Rank	FYTD (%)	Rank	3 Years (%)	Rank	5 Years (%)	Rank	10 Year (%)
Ninety One International Dynamic Fund (03/15)	40,599	6.28	-13.23	28	-22.16	62	-22.72	72	2.63	53	3.36	56	
MSCI ACWI ex US			-13.54		-18.15		-19.01		1.81		2.98		5.31
eA ACWI ex-US Core Equity			-14.80		-20.68		-20.00		2.76		3.55		6.54
WCM Focused Int'l Growth (03/15)	36,936	5.72	-17.69	58	-31.26	68	-26.84	46	6.19	25	8.99	9	
MSCI ACWI ex US			-13.54		-18.15		-19.01		1.81		2.98		5.31
eA ACWI ex-US Growth Equity			-17.04		-28.71		-27.25		2.88		4.98		7.45
Emerging Markets Equity (03/15)	22,927	3.55	-10.88		-26.44		-33.14		-3.28		-0.27		
MSCI Emerging Markets			-11.34		-17.47		-25.00		0.92		2.55		3.43
Harding Loevner Emerging Markets (03/15)	22,927	3.55	-10.88	25	-26.44	92	-33.14	92	-3.28	95	-0.27	95	
MSCI Emerging Markets			-11.34		-17.47		-25.00		0.92		2.55		3.43
eA Global Emerging Mkts Equity			-12.07		-18.53		-24.86		1.46		2.94		4.24
Global Long/Short Equity (09/11) ²	54,405	8.42	-13.90		-19.12		-22.33		2.53		3.70		4.77
MSCI ACWI			-15.53		-19.97		-15.37		6.71		7.54		9.32
HFRI FOF: Strategic			-7.26		-12.91		-12.36		2.89		2.87		3.72
Fixed Income (06/03)	136,170	21.08	-4.12		-8.26		-8.05		1.00		2.18		2.91
Bloomberg US Aggregate			-4.69		-10.35		-10.29		-0.93		0.88		1.54
JP Morgan Fixed Income (06/91)	42,874	6.64	-4.26	18	-9.48	19	-9.41	16	-0.02	22	1.61	23	2.23
Bloomberg US Aggregate			-4.69		-10.35		-10.29		-0.93		0.88		1.54
eA US Core Fixed Income			-4.86		-10.42		-10.28		-0.37		1.33		2.09
Amundi Pioneer Core Plus Bond Fund (11/11)	44,546	6.90	-5.68	53	-10.32	25	-9.74	16	0.96	13	2.10	20	3.39
Bloomberg Universal			-5.13		-10.93		-10.89		-0.94		0.94		1.83
eA US Core Plus Fixed Income			-5.66		-11.17		-10.82		-0.10		1.62		2.60
BlackRock Strategic Income Opportunities (07/17)	48,750	7.55	-2.51	23	-5.14	21	-5.11	21	2.27	12	2.99	11	
Bloomberg US Aggregate			-4.69		-10.35		-10.29		-0.93		0.88		1.54
US T-Bills 30 Day + 4.0%			1.09		2.10		4.15		4.54		5.06		4.59
eA Global Unconstrained Fixed Income			-5.13		-8.26		-8.63		0.33		1.45		2.38

For the Periods Ending June 30, 2022

Rates of Return Summary & Universe Rankings

	Market Value (\$000s)	Actual Allocation (%)	3 Months (%)	Rank	YTD (%)	Rank	FYTD (%)	Rank	3 Years (%)	Rank	5 Years (%)	Rank	10 Years (%)
Real Assets (09/11)	61,227	9.48	4.06		11.01		28.66		12.82		10.77		12.11
NCREIF Property			3.23		8.73		21.46		10.22		8.86		9.67
JP Morgan Special Situation Property (02/07)	26,026	4.03	3.20		10.47		28.86		14.05		12.20		13.81
NFI ODCE Net			4.58		12.05		28.36		11.68		9.56		10.16
JP Morgan Strategic Property (05/07)	35,201	5.45	4.71		11.53		28.69		12.03		9.83		10.97
NFI ODCE Net			4.58		12.05		28.36		11.68		9.56		10.16
Cash and Equivalents (09/11)	38,250	5.92	0.11		0.11		0.13		0.47		0.90		0.52

For the Periods Ending June 30, 2022

Notes:

¹ Policy Index: Effective October 2021, the index consists of 70.00% MSCI ACWI, 20.00% Bloomberg US Aggregate, 10.00% NCREIF Property.

² Performance is net of manager fees.

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Balanced Fund Managers

SSgA S&P 500 Non-Lending For the Periods Ending June 30, 2022

Account Description Characteristics Strategy US Large Cap Equity 600.00 483.61 Vehicle Non-Mutual Commingled 447.33 500.00 Benchmark S&P 500 400.00 Performance Inception Date February 2010 300.00 Fees 1 bp 200.00 100.00 2.44 2.55 27. 20 .48 3.68 ١<u>٥</u>. 0.00 **Performance Goals** Wtd Avg Mkt Cap Med Mkt Cap Dividend Yield EPS Growth (5 Yr P/B (\$Bil) (\$Bil) Proj) Mirror the risk and return profile of the S&P 500 over all time periods. S&P 500 SSgA

Sector Allocation



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.

	3 Months	YTD
Beginning Market Value	215,527	226,013
Net Additions	-32,105	-32,201
Return on Investment	-31,725	-42,116
Ending Market Value	151,697	151,697

Dollar Growth Summary (\$000s)

SSgA S&P 500 Non-Lending

For the Periods Ending June 30, 2022



Growth of a Dollar Since Feb 2010



	SSgA	S&P 500
Number of Months	149	149
Highest Monthly Return (%)	12.82	12.82
Lowest Monthly Return (%)	-12.37	-12.35
Number of Positive Months	104	104
Number of Negative Months	45	45
% of Positive Months	69.80	69.80

Return Analysis Since Feb 2010

Statistics are calculated using monthly return data. © 2022 Asset Consulting Group All Rights Reserved

SSgA S&P 500 Non-Lending

For the Periods Ending June 30, 2022



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.

River Road Small Cap Value

For the Periods Ending June 30, 2022



- 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	YTD
Beginning Market Value	38,961	40,076
Net Additions	-107	-216
Return on Investment	-3,457	-4,463
Income	85	165
Gain/Loss	-3,542	-4,628
Ending Market Value	35,397	35,397

Sector Allocation



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

River Road Small Cap Value

For the Periods Ending June 30, 2022



		Russell	
	River Road	2000 Value	
Return (%)	10.93	8.38	
Standard Deviation (%)	17.63	21.19	
Sharpe Ratio	0.57	0.35	

Portfolio Statistics Since Apr 2016

Return Analysis Since Apr 2016

0.80
91.67
3.82
6.67
54.67
82.95
77.49

Growth of a Dollar Since Apr 2016



		Russell
	River Road	2000 Value
Number of Months	75	75
Highest Monthly Return (%)	15.86	19.31
Lowest Monthly Return (%)	-22.26	-24.67
Number of Positive Months	47	51
Number of Negative Months	28	24
% of Positive Months	62.67	68.00

Risk / Return Since Apr 2016

River Road Small Cap Value

For the Periods Ending June 30, 2022



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.

Strategy US Small/Mid Cap Growth

Benchmark Russell 2500 Growth

balance

Vehicle Separately Managed Account

Performance Inception Date April 2009

Account Description

TimesSquare For the Periods Ending June 30, 2022

Characteristics 28.00 85 24.00 5 9.85 5 20.00 6.04 16.00 12.00 • Fees 90 bps on the first \$50 million; 80 bps on the next \$50 million; 70 bps on the 8.00 Ì.d 5.20 .64 4.00 .64 0.00 Wtd Avg Mkt Cap Med Mkt Cap (\$Bil) Dividend Yield P/E (1 Yr Trailing) EPS Growth (5 Yr (\$Bil) Proj) Russell 2500 Growth Times Square

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).

Dollar Growth Summary (\$000s)

Beginning Market Value	3 Months 29,896	YTD 33,776
Net Additions	-79	-167
Return on Investment	-6,166	-9,958
Income	29	59
Gain/Loss	-6,194	-10,017
Ending Market Value	23,651	23,651

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

Sector Allocation



TimesSquare

For the Periods Ending June 30, 2022



		Russell	
	TimesSquare	2500 Growth	
Return (%)	14.09	14.22	
Standard Deviation (%)	17.91	18.90	
Sharpe Ratio	0.76	0.73	

Benchi	mark Relative Statistics
Beta	0.93
R Squared (%)	95.49
Alpha (%)	0.83
Tracking Error (%)	4.05
Batting Average (%)	42.77
Up Capture (%)	92.12
Down Capture (%)	92.19

Growth of a Dollar Since Apr 2009



Return Analysis Since Apr 2009

Portfolio Statistics Since Apr 2009

	TimesSquare	Russell 2500 Growth
Number of Months	159	159
Highest Monthly Return (%)	16.47	16.03
Lowest Monthly Return (%)	-18.37	-17.72
Number of Positive Months	104	106
Number of Negative Months	55	53
% of Positive Months	65.41	66.67

Risk / Return Since Apr 2009

TimesSquare



For the Periods Ending June 30, 2022

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.

Artisan International Value

For the Periods Ending June 30, 2022



Performance Goals

- Exceed the returns of the MSCI EAFE 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).

Sector Allocation



Net Dollar Growth Summary (\$000s)

Beginning Market Value	3 Months 49,964	YTD 51,520
Net Additions	0	0
Return on Investment	-5,203	-6,759
Ending Market Value	44,761	44,761

Country Allocation



Artisan International Value

For the Periods Ending June 30, 2022



			MSCI
	Artisan	MSCI EAFE	ACWI ex US
Return (%)	9.04	4.77	4.26
Standard Deviation (%)	15.29	15.64	15.45
Sharpe Ratio	0.56	0.27	0.24

Portfolio Statistics Since May 2010

Benchmark Relative Statistics		
Beta	0.93	0.94
R Squared (%)	89.80	89.64
Alpha (%)	4.49	4.94
Tracking Error (%)	5.02	5.02
Batting Average (%)	57.53	56.85
Up Capture (%)	101.20	104.74
Down Capture (%)	83.27	83.88

Growth of a Dollar Since May 2010



Return Analysis Since May 2010

			MSCI
	Artisan	MSCI EAFE	ACWI ex US
Number of Months	146	146	146
Highest Monthly Return (%)	16.60	15.51	13.46
Lowest Monthly Return (%)	-19.43	-13.25	-14.40
Number of Positive Months	84	81	84
Number of Negative Months	62	65	62
% of Positive Months	57.53	55.48	57.53

Risk / Return Since May 2010

Artisan International Value

For the Periods Ending June 30, 2022



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.

Ninety One International Dynamic Fund

For the Periods Ending June 30, 2022



Performance Goals

- Exceed the returns of the MSCI ACWI ex US 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).

Sector Allocation

MSCI ACWI ex US MSCI EAFE

Ninety One



Dollar Growth Summary (\$000s)

Beginning Market Value	3 Months 46,919	YTD 52,437
Net Additions	-123	-250
Return on Investment	-6,197	-11,589
Ending Market Value	40,599	40,599

Country Allocation



MSCI ACWI ex US MSCI EAFE

Characteristic and allocation charts represents data of the Investec International Dynamic Equity (Non-Mutual Commingled).

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Ninety One International Dynamic Fund

Risk / Return Since Mar 2015



	Ninety One	MSCI ACWI ex US	MSCI EAFE
Return (%)	3.48	3.13	2.96
Standard Deviation (%)	15.75	14.82	14.93
Sharpe Ratio	0.17	0.16	0.15
	Benchmark Relative Stat	istics	
Beta		1.02	1.00
R Squared (%)		91.70	89.53
Alpha (%)		0.42	0.66
Tracking Error (%)		4.55	5.10
Batting Average (%)		54.55	55.68
II. Cauching (97)			
up Capture (%)		103.50	102.08

Portfolio Statistics Since Mar 2015

Growth of a Dollar Since Mar 2015



	MSCI		
	Ninety One	ACWI ex US	MSCI EAFE
Number of Months	88	88	88
Highest Monthly Return (%)	12.16	13.46	15.51
Lowest Monthly Return (%)	-16.64	-14.40	-13.25
Number of Positive Months	51	51	49
Number of Negative Months	37	37	39
% of Positive Months	57.95	57.95	55.68

Return Analysis Since Mar 2015

For the Periods Ending June 30, 2022

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Ninety One International Dynamic Fund

For the Periods Ending June 30, 2022



WCM Focused Int'l Growth

For the Periods Ending June 30, 2022



Performance Goals

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

Sector Allocation

MSCI ACWI ex US MSCI EAFE

WCM



Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	44,964	53,952
Net Additions	-79	-173
Return on Investment	-7,949	-16,842
Ending Market Value	36,936	36,936

Country Allocation



Characteristic and allocation charts represents the composite data of the WCM Focused Growth Int'l.

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WCM Focused Int'l Growth

For the Periods Ending June 30, 2022



	MSCI				
	WCM	ACWI ex US	MSCI EAFE		
Return (%)	8.89	3.13	2.96		
Standard Deviation (%)	15.27	14.82	14.93		
Sharpe Ratio	0.53	0.16	0.15		

Portfolio Statistics Since Mar 2015

Benchmark Relative Statistics					
Beta	0.90	0.89			
R Squared (%)	76.48	76.39			
Alpha (%)	6.12	6.30			
Tracking Error (%)	7.55	7.59			
Batting Average (%)	59.09	61.36			
Up Capture (%)	101.60	103.69			
Down Capture (%)	76.33	77.45			

Return Analysis Since Mar 2015

Growth of a Dollar Since Mar 2015



	MSCI				
	WCM	ACWI ex US	MSCI EAFE		
Number of Months	88	88	88		
Highest Monthly Return (%)	11.94	13.46	15.51		
Lowest Monthly Return (%)	-12.87	-14.40	-13.25		
Number of Positive Months	57	51	49		
Number of Negative Months	31	37	39		
% of Positive Months	64.77	57.95	55.68		

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WCM Focused Int'l Growth

For the Periods Ending June 30, 2022



Harding Loevner Emerging Markets

For the Periods Ending June 30, 2022



Performance Goals

- Exceed the returns of the MSCI Emerging Markets 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



Dollar Growth Summary (\$000s)

Beginning Market Value	3 Months 25,790	YTD 31,324
Net Additions	-59	-128
Return on Investment	-2,804	-8,269
Ending Market Value	22,927	22,927

Country Allocation



Harding Loevner Emerging Markets

For the Periods Ending June 30, 2022



\$1.40 \$1.20 \$1.00 \$0.80 \$0.60 Dec-14 Mar-16 Jun-17 Sep-18 Dec-19 Mar-21 Jun-22 —Harding Loevner — MSCI Emerging Markets LoevnerMarketsNumber of Months88Highest Monthly Return (%)12.53Lowest Monthly Return (%)-19.96-19.96-15.38Number of Positive Months5249Number of Negative Months363955.68

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Harding Loevner Emerging Markets

For the Periods Ending June 30, 2022



diversified across geographies, sectors and market caps. The composite transitioned from a fund of funds strategy to a number of direct strategies in

Performance and statistics on the following Global Long/Short pages are

Global Long/Short Equity

For the Periods Ending June 30, 2022

Account Description	Performance Goals
Strategy Global Long/Short Equity	Approximate the return of the MSCI All Country World Index with 2/3 of the risk
Benchmark MSCI ACWI	over longer-term time periods (greater than 5 years).
This composite includes a combination of equity long/short managers that are	

Net Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	62,704	67,573
Net Additions	498	-310
Return on Investment	-8,797	-12,858
Ending Market Value	54,405	54,405



Growth of a Dollar

* Performance is calculated using net of fee returns.

February 2014.

presented net of fees.

Global Long/Short Equity

Return Std Dev Sharpe (%) (%) **Performance Returns** 3 Months Global Long/Short * -13.92 15.00 MSCI ACWI -15.53 8.88 54 10.00 HFRI FOF: Strategic -7.26 4.22 Ś. 48 С 8 5.00 ю. N. 0.00 Return (%) -5.00 1 Year 26 Global Long/Short * -22.41 10.00 -10.00 ~ MSCI ACWI -15.37 15.54 -12.36 -15.00 -13.92 HFRI FOF: Strategic -12.36 6.98 -15.37 53 -20.00 -15. -25.00 22. -30.00 3 Years 3 M onths 1 Year 3 Years 5 Years Since Sep 2011 Global Long/Short * 2.41 13.10 MSCI ACWI 6.71 18.02 HFRI FOF: Strategic 2.89 10.04 **Calendar Year Returns** 40.00 80. 24.62 24.82 5 Years 30.00 5 23. 19.04 18.15 Global Long/Short * 3.48 11.31 I 6.82 80 13.82 14.61 MSCI ACWI 7.54 16.20 20.00 11.95 11.23 0.53 10.51 Return (%) HFRI FOF: Strategic 2.87 8.52 48 6.24 10.00 ŵ 2.26 2.57 4 3.07 .68 40 0.00 -0.05 -1.84 -0.55 Since Sep 2011 -6.67 57 -10.00 Global Long/Short * 4.22 8.69 -8.93 ý. MSCI ACWI 8.88 14.16 -20.00 HFRI FOF: Strategic 3.13 6.80 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021

For the Periods Ending June 30, 2022

* Performance is calculated using net of fee returns.

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Ratio

-2.26

-1.00

-1.79

0.14

0.34

0.24

0.22

0.40

0.22

0.42

0.59

0.38

Oklahoma Municipal Retirement Fund - Defined Benefit Plan

Global Long/Short Equity

For the Periods Ending June 30, 2022												
Monthly Returns (%)	Jun 22	May 22	Apr 22	Mar 22	Feb 22	Jan 22	Dec 21	Nov 21	Oct 21	Sep 21	Aug 21	Jul 21
Global Long/Short Equity *	-4.53	-4.19	-5.89	-0.71	1.45	-6.76	1.42	-3.56	0.44	-1.92	0.92	-1.31
MSCI ACWI	-8.39	0.19	-7.97	2.22	-2.55	-4.89	4.03	-2.38	5.13	-4.09	2.53	0.72
HFRI FOF: Strategic	-2.25	-2.15	-3.04	-0.10	-1.26	-4.80	0.15	-1.95	2.34	-0.36	1.90	-1.37

											Per	formanc	e Stats (120 Mon	ths)
Calendar Year Returns (%)	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	Pos.	Neg.	Best	Worst	Med.
Global Long/Short Equity *	1.04	24.82	18.15	-6.57	11.95	2.57	1.68	1.77	13.82	2.26	78	42	9.45	-7.35	0.64
MSCIACWI	19.04	16.82	27.30	-8.93	24.62	8.48	-1.84	4.71	23.44	16.80	81	39	12.36	-13.44	1.34
HFRI FOF: Strategic	6.24	14.61	10.51	-6.67	11.23	-0.05	-0.55	3.07	10.53	5.79	74	46	5.52	-9.70	0.58

	Doturn	Standard Doviation	Sharra		PO	Alasha	Tracking	Batting	Up	Down
Statistics	(%)	(%)	Ratio	Beta	(%)	Aipha (%)	(%)	Aveidge (%)	(%)	(%)
				1 Year						
Global Long/Short Equity *	-22.41	10.00	-2.26							
MSCI ACWI	-15.37	15.54	-1.00	0.48	55.34	-15.95	10.50	33.33	-22.25	73.07
HFRI FOF: Strategic	-12.36	6.98	-1.79	1.20	70.68	-8.74	5.60	25.00	63.26	152.54
				3 Years						
Global Long/Short Equity *	2.41	13.10	0.14							
MSCI ACWI	6.71	18.02	0.34	0.62	71.89	-1.77	9.80	38.89	46.96	64.21
HFRI FOF: Strategic	2.89	10.04	0.24	1.16	79.67	-0.69	6.13	52.78	120.36	122.34
				5 Years						
Global Long/Short Equity *	3.48	11.31	0.22							
MSCI ACWI	7.54	16.20	0.40	0.60	74.83	-1.13	8.57	38.33	48.43	62.52
HFRI FOF: Strategic	2.87	8.52	0.22	1.19	80.32	0.24	5.27	56.67	125.33	119.92
			Sinc	e Inception						
Global Long/Short Equity *	4.22	8.69	0.42							
MSCIACWI	8.88	14.16	0.59	0.48	60.48	-0.04	9.20	40.00	42.68	51.52
HFRI FOF: Strategic	3.13	6.80	0.38	1.09	73.15	0.89	4.54	56.92	116.88	106.51

* Performance and statistics are presented net of fees.

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JP Morgan Fixed Income

Characteristics Account Description 10.00 Strategy US Investment Grade 3.63 3.16 8.00 Vehicle Non-Mutual Commingled 5.02 6.00 Performance Inception Date June 1991 53 72 4 00 6 Benchmark Bloomberg US Aggregate 2.00 0.00 Avg Maturity (yrs) YTM (%) Eff Duration (yrs) Avg Cpn (%) JP Morgan Bloomberg US Aggregate

For the Periods Ending June 30, 2022

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).

Sector Allocation



Dollar Growth Summary (\$000s) 3 Months YTD **Beginning Market Value** 44,878 47,567 Net Additions -92 -193 -1,912 Return on Investment -4,500 Income 313 586 -2,225 -5,086 Gain/Loss 42,874 42,874 **Ending Market Value**

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.

Quality Allocation



• Fees 30 bps

JP Morgan Fixed Income



For the Periods Ending June 30, 2022

Bloomberg US Bloomberg JP Morgan Aggregate Gov't/Credit 5.68 5.08 5.18 Standard Deviation (%) 5.04 3.71 4.30 0.68 0.77 0.69 **Benchmark Relative Statistics** 0.79 0.68 33.42 33.25 2.20 1.72 Tracking Error (%) 4.19 4.35 Batting Average (%) 53.35 48.53 86.97 Up Capture (%) 95.51 Down Capture (%) 70.01 58.32

Portfolio Statistics Since Jun 1991

Growth of a Dollar Since Jun 1991



	JP Morgan	Bloomberg US Aggregate	Bloomberg Gov't/Credit
Number of Months	373	373	373
Highest Monthly Return (%)	8.30	3.87	4.53
Lowest Monthly Return (%)	-4.88	-3.79	-4.19
Number of Positive Months	281	247	242
Number of Negative Months	92	126	131
% of Positive Months	75.34	66.22	64.88

Return Analysis Since Jun 1991

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JP Morgan Fixed Income





Amundi Pioneer Core Plus Bond Fund

For the Periods Ending June 30, 2022



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).

Sector Allocation

Bloomberg Universal

Pioneer



Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	47,226	49,706
Net Additions	0	-31
Return on Investment	-2,680	-5,129
Ending Market Value	44,546	44,546

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.

Quality Allocation



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Amundi Pioneer Core Plus Bond Fund

For the Periods Ending June 30, 2022

Risk / Return Since Nov 2011



		Bloomberg
	Pioneer	Universal
Return (%)	3.72	2.07
Standard Deviation (%)	4.95	3.43
Sharpe Ratio	0.64	0.45

Portfolio Statistics Since Nov 2011

Return Analysis Since Nov 2011

Benchmark Relative Statistics	
Beta	1.01
R Squared (%)	48.88
Alpha (%)	1.67
Tracking Error (%)	3.54
Batting Average (%)	64.06
Up Capture (%)	120.19
Down Capture (%)	85.75

Growth of a Dollar Since Nov 2011



	Pioneer	Bloomberg Universal
Number of Months	128	128
Highest Monthly Return (%)	4.37	2.26
Lowest Monthly Return (%)	-9.88	-3.73
Number of Positive Months	89	79
Number of Negative Months	39	49
% of Positive Months	69.53	61.72

Amundi Pioneer Core Plus Bond Fund

For the Periods Ending June 30, 2022



BlackRock Strategic Income Opportunities

For the Periods Ending June 30, 2022



Performance Goals

- Meet or exceed the targeted return of the Bloomberg US Aggregate over a complete market cycle (typically 3-5 years).
- Meet or exceed the targeted return of US T-Bills + 4-6% over a complete market cycle (typically 3-5 years).

Sector Allocation



Regional Allocation

120.00 100.00 80.00 60.00 6 40.00 55. 20.00 8 0.00 80 -20.00 US/Canada United Europe Japan Asia Pacific Emerging Other Cash Kingdom ex-UK ex-Japan Markets BlackRock Bloomberg US Aggregate

Dollar Growth Summary (\$000s)

Beginning Market Value	3 Months 50,077	YTD 51,536
Net Additions	-70	-142
Return on Investment	-1,256	-2,643
Ending Market Value	48,750	48,750

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

Risk / Return Since Jul 2017 8.00 7.00 6.00 5.00 Return (%) 4.00 3.00 2.00 1.00 0.00 -1.00 -2.00 3.00 4.00 -2.00 -1.00 0.00 1.00 2.00 5.00 Standard Deviation (%) Bloomberg US US T-Bills 30 BlackRock 4.0% Aggregate Batting Average (%) Up Capture (%)

For the Periods Ending June 30, 2022

Down Capture (%)

Portfolio Statistics Since Jul 2017

Bloomberg US

77.56

32.33

US T-Bills 30

59.19

				BlackRock	Aggregate	Day + 4.0%
			Return (%)	2.99	0.88	5.06
			Standard Deviation (%)	4.27	4.04	0.27
			Sharpe Ratio	0.46	-0.04	15.19
				Benchmark Relative Stati	stics	
	7.00		Beta		0.41	-0.85
6.00	7.00	8.00	R Squared (%)		14.95	0.28
			Alpha (%)		2.69	7.50
) Day +			Tracking Error (%)		4.61	4.30
			Batting Average (%)		66.67	40.00

Growth of a Dollar Since Jul 2017



Return Analysis Since Jul 2017

	Bloomberg US US T-Bills (
	BlackRock	Aggregate	Day + 4.0%
Number of Months	60	60	60
Highest Monthly Return (%)	2.90	2.59	0.54
Lowest Monthly Return (%)	-6.59	-3.79	0.33
Number of Positive Months	41	32	60
Number of Negative Months	19	28	0
% of Positive Months	68.33	53.33	100.00

BlackRock Strategic Income Opportunities

For the Periods Ending June 30, 2022



JP Morgan Special Situation Property

For the Periods Ending June 30, 2022

Account Description	Account Information	
Strategy Core Real Estate	Ending Market Value	\$26,025,781
Vehicle Non-Mutual Commingled	Fund Information	
Performance Inception Date February 2007	Gross Market Value	\$9,132,071,538
Benchmarks NFI ODCE Net and NCREIF Property	Net Market Value	\$5,188,346,684
Fees 125 bps of account's pro-rata share of NAV plus 62.5 bps on outstanding	Cash Balance of Fund	\$106,891,131
debt balance; fee is capped at 187.5 bps.	 Quarter Income Return (%) 	0.60
	# of Properties	88
Performance Goals	# of Participants	96
 Outperform the NFI ODCE Net by 100 basis points over 3 to 5 years. 		





Returns by Property Type (%)



Characteristic and allocation charts represents data of the JPMCB Special Situation Property Fund (Non-Mutual Commingled).

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140.00

JP Morgan Special Situation Property

For the Periods Ending June 30, 2022



JP Morgan Strategic Property

For the Periods Ending June 30, 2022

Account Description	Account Information	
Strategy Core Real Estate	Ending Market Value	\$35,201,309
Vehicle Non-Mutual Commingled	Fund Information	
Performance Inception Date May 2007	Gross Market Value	\$47,064,592,576
Benchmarks NFI ODCE Net and NCREIF Property	Net Market Value	\$35,600,191,442
Fees 100 bps per annum on account's net asset value	Cash Balance of Fund	\$608,311,917
	 Quarter Income Return (%) 	0.74
	# of Properties	159
Performance Goals	# of Participants	313
Exceed the total return of the NFI ODCE Net.		







Characteristic and allocation charts represents data of the Strategic Property Fund FIV1 (Comminged Pension Fund Trust Fund) (Non-Mutual Commingled).

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JP Morgan Strategic Property

For the Periods Ending June 30, 2022



Defined Contribution Plan Performance

Growth and Value Option

For the Periods Ending June 30, 2022

Manager Allocation		Portfolio Information	
Name	Market Value (\$000s)	Market Allocation Value (\$000s) (%) Instructions are stored by the set of the	
Total	20,803	100.00	- market capitalizations greater than \$10 billion.
Vanguard Total Stock	10,507	50.51	This option includes a combination of "growth" and "value" portfolios focused
Vanguard Windsor II	5,439	26.14	in the large cap asset class.
T. Rowe Price	4,857	23.35	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 larae cap core

managers over a complete market cycle.

Dollar Growth Summary (S	\$000s)
--------------------------	---------

	3 Months	YTD
Beginning Market Value	25,810	29,193
Net Additions	-489	-1,821
Return on Investment	-4,518	-6,570
Ending Market Value	20,803	20,803



Growth of a Dollar

Growth and Value Option

For the Periods Ending June 30, 2022



Vanguard Windsor II

Account Description Characteristics Strategy US Large Cap Value 400.00 318.00 350.00 Vehicle Mutual Fund: Institutional Class (VWNAX) 300.00 Benchmark Russell 1000 Value 250.00 Performance Inception Date June 2003 200.00 29.71 • Expense Ratio 26 bps 150.00 100.00 50.00 2.8 9.32 20 8 4 ~ 64 2.19 0.00 **Performance Goals** Wtd Avg Mkt Cap **Dividend Yield** P/E (1 Yr Trailing) EPS Growth (5 Yr P/B (\$Bil) Proj) Vanguard Russell 1000 Value

For the Periods Ending June 30, 2022

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

Dollar Growth Summary (\$000s)



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

3 Months

6,703

-379

-885

5.439

YTD

7,295

-695

-1,162

5,439

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

Beginning Market Value

Net Additions

Ending Market Value

Return on Investment

Vanguard Windsor II

For the Periods Ending June 30, 2022

Risk / Return Since Jun 2003



		Russell
	Vanguard	1000 Value
Return (%)	9.16	8.38
Standard Deviation (%)	14.91	15.02
Sharpe Ratio	0.54	0.48

benchmark Relative Statistics	
Beta	0.98
R Squared (%)	96.82
Alpha (%)	0.92
Tracking Error (%)	2.68
Batting Average (%)	55.02
Up Capture (%)	99.60
Down Capture (%)	95.96

Growth of a Dollar Since Jun 2003



		Russell
	Vanguard	1000 Value
Number of Months	229	229
Highest Monthly Return (%)	13.35	13.45
Lowest Monthly Return (%)	-17.40	-17.31
Number of Positive Months	152	147
Number of Negative Months	77	82
% of Positive Months	66.38	64.19

Return Analysis Since Jun 2003

Portfolio Statistics Since Jun 2003

mark Polativo Statistic

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Vanguard Windsor II



For the Periods Ending June 30, 2022

Vanguard Total Stock

Account Description Characteristics Strategy US All Cap Core 600.00 447.33 Vehicle Mutual Fund: Institutional Class (VITSX) 500.00 412.40 Benchmark S&P 500 400.00 Performance Inception Date February 2008 300.00 Expense Ratio 3 bps 200.00 100.00 7.70 7.18 9.60 2.44 90 .20 3.68 19. 0.00 **Performance Goals** Wtd Avg Mkt Cap **Dividend Yield** P/E (1 Yr Trailing) EPS Growth (5 Yr P/B (\$Bil) Proj) Approximate the risk and return profile of the S&P 500 Index. Vanguard S&P 500

YTD

14,704

-1,218

-2,979

10,507

For the Periods Ending June 30, 2022





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.

Dollar Growth Summary (\$000s)

3 Months

13,135

-465

-2,164

10,507

Beginning Market Value

Net Additions

Ending Market Value

Return on Investment

Vanguard Total Stock

Risk / Return Since Feb 2008 12.00 11.00 10.00 Return (%) 9.00 8.00 7.00 6.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 Standard Deviation (%) Vanguard S&P 500

For the	Periods	Ending	June	30,	2022
		- 0		/	-

Portfolio Statistics Since Feb 2008

Return Analysis Since Feb 2008

	Vanguard	S&P 500
Return (%)	9.44	9.47
Standard Deviation (%)	16.41	15.87
Sharpe Ratio	0.55	0.57

	Benchmark Relative Statistics	
Beta	1.03	
R Squared (%)	99.35	
Alpha (%)	-0.26	
Tracking Error (%)	1.41	
Batting Average (%)	50.87	
Up Capture (%)	102.56	
Down Capture (%)	102.57	

Growth of a Dollar Since Feb 2008



Vanguard S&P 500 Number of Months 173 173 12.82 Highest Monthly Return (%) 13.26 Lowest Monthly Return (%) -17.62 -16.80 Number of Positive Months 117 116 Number of Negative Months 57 56 % of Positive Months 67.05 67.63

Statistics are calculated using monthly return data.

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Vanguard Total Stock



For the Periods Ending June 30, 2022

T. Rowe Price

Account Description Characteristics Strategy US Large Cap Equity 800.00 80.54 700.00 Vehicle Mutual Fund: Institutional Class (TRLGX) 600.00 Benchmark Russell 1000 Growth 500.00 Performance Inception Date July 2021 98 378. 400.00 Expense Ratio 55 bps 300.00 200.00 100.00 6.00 6.89 5.20 9.34 28. 4 **Performance Goals** 0.00 Wtd Avg Mkt Cap (\$Bil) P/E (1 Yr Trailing) EPS Growth (5 Yr Proj) P/B Exceed the returns of the Russell 1000 Growth over a complete market cycle Russell 1000 Growth T. Rowe Price

YTD

7,194

-2,429

4,857

92

For the Periods Ending June 30, 2022



(3 to 5 years).

Dollar Growth Summary (\$000s)

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

3 Months

5,972

-1,470

4.857

355

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

Beginning Market Value

Net Additions

Ending Market Value

Return on Investment

T. Rowe Price

For the Periods Ending June 30, 2022



S&P 500 Option

For the Periods Ending June 30, 2022

Mana	ager Allocation		Portfolio Information
Name	Market Value (\$000s)	Allocation (%)	S&P 500 Index Option
Total	32,218	100.00	This option includes the passively managed SSgA S&P 500 Index Fund.
SSGA S&P 500 Non Lending	32,218	100.00	Performance Goal - Mirror the risk and return profile of the S&P 500 over all
			time periods.

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

	3 Months	YTD
Beginning Market Value	39,154	42,411
Net Additions	-659	-1,938
Return on Investment	-6,278	-8,255
Ending Market Value	32,218	32,218





SSGA S&P 500 Non Lending



YTD

42,411

-1,938

-8,255

32,218

For the Periods Ending June 30, 2022

Sector Allocation



Characteristic and allocation charts represents data of the State Street S&P 500 Flagship Non-Lending Fund (Non-Mutual Commingled).

Dollar Growth Summary (\$000s)

3 Months

39,154

-659

-6,278

32.218

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

Beginning Market Value

Net Additions

Ending Market Value

Return on Investment
SSGA S&P 500 Non Lending

For the Periods Ending June 30, 2022



Growth of a Dollar Since Feb 2010



	SSgA	S&P 500
Number of Months	149	149
Highest Monthly Return (%)	12.81	12.82
Lowest Monthly Return (%)	-12.35	-12.35
Number of Positive Months	104	104
Number of Negative Months	45	45
% of Positive Months	69.80	69.80

Return Analysis Since Feb 2010

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SSGA S&P 500 Non Lending

For the Periods Ending June 30, 2022



Aggressive Equity Option

			.
Manager All	ocation		Portfolio Information
Name	Market Value (\$000s)	Allocation (%)	Small to Mid Cap Equity Option
Total	15,412	100.00	This option includes a combination of portfolios focused in the small and mid
SSgA Russell Small Cap Completeness	7,628	49.49	cap asset classes.
Integrity Small Cap Value	4,018	26.07	Performance goals - 1) to achieve returns 100 basis points in excess of the
TimesSquare Small Cap Growth	3,766	24.43	Russell 2500 Index, and 2) to exceed the return of the median small/mid cap

For the Periods Ending June 30, 2022

Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	19,368	21,855
Net Additions	-267	-1,064
Return on Investment	-3,689	-5,379
Ending Market Value	15,412	15,412

Growth of a Dollar

core manager over a complete market cycle (3 to 5 years).



Aggressive Equity Option

For the Periods Ending June 30, 2022



Integrity Small Cap Value

Account Description Characteristics Strategy US Small Cap Value 14.00 11.97 Vehicle Mutual Fund (MVSSX) 12.00 Benchmark Russell 2000 Value 10.00 9.03 Performance Inception Date September 2015 8.00 **Expense Ratio** 96 bps 6.00 4.00 2.78 \$ 2.00 Performance Goals 0.00 Wtd Avg Mkt Cap (\$Bil) Avg M kt Cap (\$Bil) P/E (1 Yr Trailing) P/B Exceed the returns of the Russell 2000 Value over a complete market cycle (3 Integrity Russell 2000 Value

For the Periods Ending June 30, 2022

to 5 years).





3 Months YTD **Beginning Market Value** 5,302 5,645 Net Additions -535 -901

Dollar Growth Summary (\$000s)

Ending Market Value	4,018	4,018
Return on Investment	-748	-726

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 June 30, 2022

Risk / Return Since Sep 2015 Portfolio Statistics Since Sep 2015 12.00 11.00 Return (%) 10.00 Standard Deviation (%) 9.00 Return (%) **Sharpe Ratio** 8.00 7.00 6.00 5.00 4.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00 25.00 26.00 Standard Deviation (%) Integrity Russell 2000 Value

Russell Integrity 2000 Value 8.01 7.79 20.95 23.33 0.31 0.33

Benchmark Relative Statistics	
Beta	1.10
R Squared (%)	96.99
Alpha (%)	-0.17
Tracking Error (%)	4.53
Batting Average (%)	50.00
Up Capture (%)	106.62
Down Capture (%)	104.12

Return Analysis Since Sep 2015

Growth of a Dollar Since Sep 2015



		Russell
	Integrity	2000 Value
Number of Months	82	82
Highest Monthly Return (%)	21.66	19.31
Lowest Monthly Return (%)	-29.00	-24.67
Number of Positive Months	54	55
Number of Negative Months	28	27
% of Positive Months	65.85	67.07

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Integrity Small Cap Value



For the Periods Ending June 30, 2022

SSgA Russell Small Cap Completeness

Account Description Characteristics Strategy US Small Cap Core 24.00 20.64 Vehicle Non-Mutual Commingled 20.00 6.87 Benchmark Russell Small Cap Completeness 16.00 3.09 3.01 Performance Inception Date May 2010 12.00 .53 ō • Fees First \$50M at 8 bps, next \$50M at 6 bps, balance at 4 bps 8.00 4.00 ~ , L 0.00 **Performance Goals** Wtd Avg Mkt Cap (\$Bil) P/E (1 Yr Trailing) EPS Growth (5 Yr Proj) P/B Russell Small Cap SSgA Completeness

For the Periods Ending June 30, 2022

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





Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	9,540	10,766
Net Additions	13	-222
Return on Investment	-1,924	-2,915
Ending Market Value	7,628	7,628

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

Risk / Return Since May 2010 Portfolio Statistics Since May 2010 Russell **Small Cap** 14.00 SSgA Completeness 13.00 12.00 9.95 Return (%) 10.07 11.00 Return (%) Standard Deviation (%) 18.25 18.31 10.00 **Sharpe Ratio** 0.53 0.52 9.00 8.00 **Benchmark Relative Statistics** 7.00 6.00 1.00 Beta 17.00 18.00 19.00 20.00 21.00 22.00 16.00 99.96 R Squared (%) Standard Deviation (%) Alpha (%) 0.13 Tracking Error (%) 0.36 Russell Small Cap Completeness SSgA Batting Average (%) 50.00 99.99 Up Capture (%)

For the Periods Ending June 30, 2022

Down Capture (%)

Growth of a Dollar Since May 2010



		Russell Small Cap	
	SSgA	Completeness	
Number of Months	146	146	
Highest Monthly Return (%)	18.17	18.17	
Lowest Monthly Return (%)	-21.22	-21.22	
Number of Positive Months	91	91	
Number of Negative Months	55	55	
% of Positive Months	62.33	62.33	

Return Analysis Since May 2010

99.57

SSgA Russell Small Cap Completeness

For the Periods Ending June 30, 2022



TimesSquare Small Cap Growth For the Periods Ending June 30, 2022

Account Description Characteristics Strategy US Small Cap Growth 28.00 86 Vehicle Non-Mutual Commingled 24.00 21.29 21. 9.78 Benchmark Russell 2000 Growth 20.00 4.37 16.00 Performance Inception Date September 2015 12.00 **Fees** 80 bps 8.00 3.82 80 ĉ 4.00 5 0.57 0.33 0.00 **Performance Goals** Wtd Avg Mkt Cap P/E (1 Yr Trailing) EPS Growth (5 Yr Dividend Yield P/B (\$Bil) Proj) Exceed the returns of the Russell 2000 Growth over a complete market cycle Russell 2000 Growth TimeSquare

(3 to 5 years).





Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	4,526	5,444
Net Additions	256	59
Return on Investment	-1,016	-1,738
Ending Market Value	3,766	3,766

Characteristic and allocation charts represents the composite data of the TimesSquare Small Growth.

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

TimesSquare Small Cap Growth

For the Periods Ending June 30, 2022



		Russell
	TimeSquare	2000 Growth
Return (%)	8.09	6.24
Standard Deviation (%)	21.00	21.05
Sharpe Ratio	0.35	0.26

Portfolio Statistics Since Sep 2015

Return Analysis Since Sep 2015

Benchmark Relative Statistics	
Beta	0.97
R Squared (%)	94.70
Alpha (%)	1.98
Tracking Error (%)	4.87
Batting Average (%)	56.10
Up Capture (%)	102.03
Down Capture (%)	96.33

Growth of a Dollar Since Sep 2015



		Russell
	TimeSquare	2000 Growth
Number of Months	82	82
Highest Monthly Return (%)	17.19	17.63
Lowest Monthly Return (%)	-21.00	-19.10
Number of Positive Months	54	53
Number of Negative Months	28	29
% of Positive Months	65.85	64.63

Risk / Return Since Sep 2015

TimesSquare Small Cap Growth

For the Periods Ending June 30, 2022



International Investment Equity Option

For the Periods Ending June 30, 2022

Manager Allocation		Portfolio Information	
Name	Market Value (\$000s)	Allocation (%)	 International Equity Option
Total International Option	7,829	100.00	This option includes a combination of international equity portfolios across
Artisan	2,000	25.54	complimentary styles of management.
Harding Loevner Emerging Markets	1,985	25.36	Performance goals - 1) to achieve returns 100 basis points in excess of the
SSgA Global Equity Ex US	1,939	24.76	ASCIACIWI av US, and 2) to aveced the return of the median international
Harding Loevner International Equity	1,906	24.34	MSCI ACWI ex us, and z) 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	YTD
Beginning Market Value	9,036	10,140
Net Additions	-115	-276
Return on Investment	-1,092	-2,035
Ending Market Value	7,829	7,829





---- International Option ---- M SCI ACWI ex US

International Investment Equity Option

For the Periods Ending June 30, 2022



Artisan

For the Periods Ending June 30, 2022

Account Description		Characteristics	
Strategy Int'l Developed Markets Equity	100.00		
Vehicle Mutual Fund: Institutional Class (APHKX)	62 68 68 68 68 68 68 68 68 68 68		-
Benchmarks MSCI EAFE and MSCI ACWI ex US	60.00		
Performance Inception Date May 2010	40.00 -	81	
Expense Ratio 102 bps	20.00	13 13 13 14 15 1.65 1.65 1.65 1.65 1.65	
	Wtd Avg Mkt Cap (\$Bil)	P/E (1 Yr Trailing) EPS Growth (5 Yr Proj) P/B	
	A	Artisan MSCI EAFE MSCI ACWI ex US	

Performance Goals

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

Sector Allocation



Dollar Growth Summary (\$000s)

	3 Months	YTD
Net Additions	2,423 -194	2,576 -276
Return on Investment	-229	-300
Ending Market Value	2,000	2,000

Country Allocation



Characteristic and allocation charts represents data of the Artisan International Value (Mutual Fund: Institutional Class: APHKX).

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Artisan

12.00 11.00 10.00 9.00 Return (%) 8.00 7.00 6.00 5.00 4.00 3.00 2.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 Standard Deviation (%) 🔳 Artisan MSCI EAFE MSCI ACWI ex US

Risk / Return Since May 2010

For the Periods Ending June 30, 2022

			MSCI
	Artisan	MSCI EAFE	ACWI ex US
Return (%)	9.01	4.77	4.26
Standard Deviation (%)	15.30	15.64	15.45
Sharpe Ratio	0.56	0.27	0.24

Portfolio Statistics Since May 2010

Benchmark Relative Statistics		
R Squared (%)	89.81	89.65
Alpha (%)	4.46	4.90
Tracking Error (%)	5.02	5.01
Batting Average (%)	57.53	56.85
Up Capture (%)	101.22	104.78
Down Capture (%)	83.43	84.06

Return Analysis Since May 2010

			MSCI
	Artisan	MSCI EAFE	ACWI ex US
Number of Months	146	146	146
Highest Monthly Return (%)	16.61	15.51	13.46
Lowest Monthly Return (%)	-19.43	-13.25	-14.40
Number of Positive Months	84	81	84
Number of Negative Months	62	65	62
% of Positive Months	57.53	55.48	57.53



Growth of a Dollar Since May 2010

-MSCI ACWI ex US

—Artisan —MSCI EAFE

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Artisan



For the Periods Ending June 30, 2022

SSgA Global Equity Ex US

Account Description **Characteristics** 100.00 Strategy Int'l Developed Markets Equity 6.79 80.00 Vehicle Non-Mutual Commingled ż 60.00 Benchmark MSCI ACWI ex US 40.00 Performance Inception Date November 2014 4 0.37 20.00 C :63 .65 • Fees 9 bps 0.00 Wtd Avg Mkt Cap (\$Bil) P/E (1 Yr Trailing) EPS Growth (5 Yr Proj) P/B

For the Periods Ending June 30, 2022

Sector Allocation

SSgA



MSCI ACWI ex US

Performance Goals

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

Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	2,346	2,532
Net Additions	-117	-149
Return on Investment	-290	-444
Ending Market Value	1,939	1,939

Country Allocation



Characteristic and allocation charts represents data of the SSgA Global Equity ex U.S. Index Fund (Non-Mutual Commingled).

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SSgA Global Equity Ex US

For the Periods Ending June 30, 2022

Up Capture (%) Down Capture (%)

Portfolio Statistics Since Nov 2014 6.00 SSgA 5.00 Return (%) 3.11 4.00 Standard Deviation (%) 14.79 Return (%) **Sharpe Ratio** 0.16 3.00 2.00 **Benchmark Relative Statistics** 1.00 Beta 0.00 R Squared (%) 12.00 13.00 14.00 15.00 16.00 17.00 18.00 Alpha (%) Standard Deviation (%) Tracking Error (%) SSgA MSCI ACWI ex US Batting Average (%)

Growth of a Dollar Since Nov 2014



		MSCI
	SSgA	ACWI ex US
Number of Months	92	92
Highest Monthly Return (%)	13.26	13.46
Lowest Monthly Return (%)	-15.51	-14.40
Number of Positive Months	52	53
Number of Negative Months	40	39
% of Positive Months	56.52	57.61

Return Analysis Since Nov 2014

Risk / Return Since Nov 2014

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MSCI

ACWI ex US

3.28

14.68

0.17

1.00

99.21

-0.16

1.32

34.78 99.88

100.64

SSgA Global Equity Ex US

For the Periods Ending June 30, 2022



Harding Loevner International Equity

For the Periods Ending June 30, 2022



■ Harding International ■ MSCI ACWI ex US

Performance Goals

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

Sector Allocation



Harding International MSCI ACWI ex US



Harding International MSCI ACWI ex US

Dollar Growth Summary (\$000s)

Beginning Market Value	3 Months 2,217	YTD 2,595
Net Additions	16	-85
Return on Investment	-328	-604
Ending Market Value	1,906	1,906

Harding Loevner International Equity

For the Periods Ending June 30, 2022

Risk / Return Since Jul 2016



Return Analysis Since Jul 2016



	Harding	MSCI
	International	ACWI ex US
Return (%)	6.97	5.78
Standard Deviation (%)	15.04	14.67
Sharpe Ratio	0.40	0.33

Benchmark Relative Statistics	
Beta	0.98
R Squared (%)	91.54
Alpha (%)	1.31
Tracking Error (%)	4.38
Batting Average (%)	51.39
Up Capture (%)	103.61
Down Capture (%)	98.00

Growth of a Dollar Since Jul 2016



	Harding	MSCI
	International	ACWI ex US
Number of Months	72	72
Highest Monthly Return (%)	12.85	13.46
Lowest Monthly Return (%)	-11.69	-14.40
Number of Positive Months	44	47
Number of Negative Months	28	25
% of Positive Months	61.11	65.28

----Harding International ----MSCI ACWI ex US

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Harding Loevner International Equity

For the Periods Ending June 30, 2022



Harding Loevner Emerging Markets

For the Periods Ending June 30, 2022



Performance Goals

 Exceed the returns of the MSCI Emerging Markets over a complete market cycle (3 to 5 years). **Sector Allocation**



Dollar Growth Summary (\$000s)

Beginning Market Value	3 Months 2,051	YTD 2,437
Net Additions	180	235
Return on Investment	-245	-687
Ending Market Value	1,985	1,985

Country Allocation



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Harding Loevner Emerging Markets

For the Periods Ending June 30, 2022





	Harding Emerging	MSCI Emerging Markets
Number of Months	82	82
Highest Monthly Return (%)	12.55	13.26
Lowest Monthly Return (%)	-20.10	-15.38
Number of Positive Months	51	48
Number of Negative Months	31	34
% of Positive Months	62.20	58.54

Harding Loevner Emerging Markets

For the Periods Ending June 30, 2022



Global Equity Option

For the Periods Ending June 30, 2022

Man	ager Allocation		Portfolio Information
Name	Market Value (\$000s)	Allocation (%)	 Global Equity Option
Total	9,764	100.00	This option includes the passively managed SSgA Global Equity Index Fund.
SSgA Global Equity Index	9,764	100.00	Performance Goal - Mirror the risk and return profile of the MSCI All Country
			World Index over all time periods.

	3 Months	YTD
Beginning Market Value	11,611	12,440
Net Additions	-83	-218
Return on Investment	-1,764	-2,458
Ending Market Value	9,764	9,764



- Global Equity Option - MSCI ACWI

Growth of a Dollar

SSgA Global Equity Index

For the Periods Ending June 30, 2022



Performance Goals

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

Sector Allocation



Dollar Growth Summary (\$000s)

Beginning Market Value	3 Months 11 611	YTD 12 440
Net Additions	-83	-218
Return on Investment	-1,764	-2,458
Ending Market Value	9,764	9,764



Country Allocation

SSgA Global Equity Index

For the Periods Ending June 30, 2022



	SSgA	MSCI ACW
Return (%)	8.23	8.29
Standard Deviation (%)	14.74	14.72
Sharpe Ratio	0.50	0.51

Portfolio Statistics Since Nov 2015

Return Analysis Since Nov 2015

Benchmark Relative Statistics	
Beta	1.00
R Squared (%)	99.84
Alpha (%)	-0.05
Tracking Error (%)	0.59
Batting Average (%)	41.25
Up Capture (%)	99.94
Down Capture (%)	100.21

Growth of a Dollar Since Nov 2015



	SSgA	MSCI ACWI
Number of Months	80	80
Highest Monthly Return (%)	12.28	12.36
Lowest Monthly Return (%)	-13.80	-13.44
Number of Positive Months	55	55
Number of Negative Months	25	25
% of Positive Months	68.75	68.75

Risk / Return Since Nov 2015

SSgA Global Equity Index

For the Periods Ending June 30, 2022



ESG US Stock Fund Option

For the Periods Ending June 30, 2022

I	Manager Allocation		Portfolio Information
Name	Market Value (\$000s)	Allocation (%)	ESG US Large and Mid Cap Equity Option
Total ESG Option	1,086	100.00	This option includes the Calvert Equity Fund
Calvert Equity Fund	1,086	100.00	Performance Goal - Outperform the Russell 1000 over a complete market
			cycle (typically 3 to 5 years).

Net Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	1,388	1,659
Net Additions	-134	-226
Return on Investment	-167	-347
Ending Market Value	1,086	1,086



Growth of a Dollar

ESG US Stock Fund Option

For the Periods Ending June 30, 2022



Total Yield Option

For the Periods Ending June 30, 2022

Manager Allocation			Portfolio Information	
Name	Market Value (\$000s)	Allocation (%)	Total Yield Option	
Total	5,726	100.00	This option includes a combination of portfolios in the core and multi-sector	
JP Morgan Fixed Income	2,860	49.95	fixed income asset classes.	
BlackRock Strategic Income Opportunities	1,457	25.44	 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 	
Amundi Pioneer Core Plus	1,409	24.61		

Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	5,814	6,715
Net Additions	157	-450
Return on Investment	-245	-539
Ending Market Value	5,726	5,726



Growth of a Dollar

bond manager over a complete market cycle (3 to 5 years).

Total Yield Option



For the Periods Ending June 30, 2022

JP Morgan Fixed Income

Account Description Characteristics 10.00 Strategy Core Bonds 3.63 3.16 8.00 Vehicle Non-Mutual Commingled 4 5.02 6.00 Benchmark Bloomberg US Aggregate 4.31 72 4.00 20 6 Performance Inception Date February 2012 2.00 • Fees 30 bps 0.00 Avg Maturity (yrs) YTM (%) Avg Cpn (%) Eff Duration (yrs) JP Morgan Bloomberg US Aggregate

For the Periods Ending June 30, 2022

Performance Goals

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

Sector Allocation



Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	2,884	3,355
Net Additions	101	-200
Return on Investment	-125	-295
Ending Market Value	2,860	2,860

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.

Quality Allocation


JP Morgan Fixed Income



For the Periods Ending June 30, 2022

Growth of a Dollar Since Feb 2012



		Bloomberg US
	JP Morgan	Aggregate
Number of Months	125	125
Highest Monthly Return (%)	2.81	2.59
Lowest Monthly Return (%)	-3.24	-3.79
Number of Positive Months	77	72
Number of Negative Months	48	53
% of Positive Months	61.60	57.60

Return Analysis Since Feb 2012

JP Morgan Fixed Income



For the Periods Ending June 30, 2022

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.

Amundi Pioneer Core Plus

For the Periods Ending June 30, 2022



Performance Goals

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

Sector Allocation

Bloomberg Universal

Pioneer



Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	1,447	1,682
Net Additions	46	-110
Return on Investment	-83	-164
Ending Market Value	1,409	1,409

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.

Quality Allocation



Amundi Pioneer Core Plus

For the Periods Ending June 30, 2022



		Bloomberg	
	Pioneer	Universal	
Return (%)	3.70	1.93	
Standard Deviation (%)	4.97	3.44	
Sharpe Ratio	0.63	0.40	

Portfolio Statistics Since Feb 2012

Return Analysis Since Feb 2012

Benchmark Relative Statistics	
Beta	1.01
R Squared (%)	48.67
Alpha (%)	1.80
Tracking Error (%)	3.56
Batting Average (%)	66.40
Up Capture (%)	120.41
Down Capture (%)	82.67

Growth of a Dollar Since Feb 2012



		Bloomberg
	Pioneer	Universal
Number of Months	125	125
Highest Monthly Return (%)	4.31	2.26
Lowest Monthly Return (%)	-9.90	-3.73
Number of Positive Months	89	77
Number of Negative Months	36	48
% of Positive Months	71.20	61.60

Risk / Return Since Feb 2012

Amundi Pioneer Core Plus

For the Periods Ending June 30, 2022



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.

BlackRock Strategic Income Opportunities

For the Periods Ending June 30, 2022



Performance Goals

- Meet or exceed the targeted return of the Bloomberg US Aggregate over a complete market cycle (typically 3-5 years).
- Meet or exceed the targeted return of US T-Bills + 4-6% over a complete market cycle (typically 3-5 years).

Sector Allocation



Dollar Growth Summary (\$000s)3 MonthsYTDBeginning Market Value1,4841,678Net Additions10-140Return on Investment-37-81Ending Market Value1,4571,457

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.



Regional Allocation

BlackRock Strategic Income Opportunities

Risk / Return Since Jul 2017 Portfolio Statistics Since Jul 2017 8.00 7.00 6.00 5.00 Return (%) 4.00 3.00 2.00 1.00 0.00 -1.00 -2.00 2.00 3.00 4.00 -2.00 -1.00 0.00 1.00 5.00 6.00 7.00 8.00 Standard Deviation (%) Bloomberg US US T-Bills 30 Day + BlackRock Aggregate 4.0%

For the Periods Ending June 30, 2022

Growth of a Dollar Since Jul 2017



		US	US T-Bills 30
	BlackRock	Aggregate	Day + 4.0%
Return (%)	3.00	0.88	5.06
Standard Deviation (%)	4.27	4.04	0.27
Sharpe Ratio	0.46	-0.04	15.19
	Benchmark Pelative Stat	istics	

Bloombera

-0.85
0.28
7.49
4.30
40.00
59.38

Return Analysis Since Jul 2017

	Bloomberg US US T-Bills 30		
	BlackRock	Aggregate	Day + 4.0%
Number of Months	60	60	60
Highest Monthly Return (%)	2.90	2.59	0.54
Lowest Monthly Return (%)	-6.60	-3.79	0.33
Number of Positive Months	41	32	60
Number of Negative Months	19	28	0
% of Positive Months	68.33	53.33	100.00

BlackRock Strategic Income Opportunities

For the Periods Ending June 30, 2022



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.

Bond Index Option

For the Periods Ending June 30, 2022

	Manager Allocation		Portfolio Information
Name	Market Value (\$000s)	Allocation (%)	Bond Index Option
Total SSgA US Aggregate Bond	14,587 14,587	100.00 100.00	 This option includes the passively managed SSgA US Aggregate Bond Index Fund.

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

Dollar Growth Summary (\$000s)

	3 Months	YTD
Beginning Market Value	15,388	16,601
Net Additions	-76	-319
Return on Investment	-726	-1,695
Ending Market Value	14,587	14,587

Growth of a Dollar



SSgA US Aggregate Bond

Account Description Characteristics 28.00 Strategy US Investment Grade 50 22.00 24.00 ର୍ଷ Vehicle Non-Mutual Commingled 20.00 16.00 Benchmark Bloomberg US Aggregate 12.00 Performance Inception Date November 2011 8 00 72 72 4.00 • Fees 6 bps 0.00 Eff Duration (yrs) Avg Quality YTM (%) Avg Cpn (%) SSgA Bloomberg US Aggregate

For the Periods Ending June 30, 2022

Performance Goals

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

Sector Allocation



Dollar Growth Summary (\$000s)

Poginning Market Value	3 Months	YTD
Net Additions	-76	-319
Return on Investment	-726	-1,695
Ending Market Value	14,587	14,587

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.

Quality Allocation



SSgA US Aggregate Bond

Risk / Return Since Nov 2011 Portfolio Statistics Since Nov 2011 Bloomberg US 4.00 SSgA Aggregate 3.00 1.76 Return (%) 1.75 2.00 Return (%) 3.43 Standard Deviation (%) 3.45 1.00 **Sharpe Ratio** 0.35 0.36 0.00 **Benchmark Relative Statistics** -1.00 -2.00 1.00 Beta 1.00 2.00 3.00 4.00 5.00 6.00 0.00 99.73 R Squared (%) Standard Deviation (%) -0.02 Alpha (%) Bloomberg US Tracking Error (%) 0.18 SSgA Aggregate Batting Average (%) 54.69 100.77 Up Capture (%) Down Capture (%) 101.33 Growth of a Dollar Since Nov 2011 **Return Analysis Since Nov 2011** \$1.40

For the Periods Ending June 30, 2022

\$1.35 \$1.30 \$1.25 \$1.20 \$1.15 \$1.10 \$1.05 \$1.00 \$0.95 Jun-11 Apr-13 Feb-15 Dec-16 Oct-18 Aug-20 Jun-22 Bloomberg US -SSgA Aggregate

		Bloomberg US
	SSgA	Aggregate
Number of Months	128	128
Highest Monthly Return (%)	2.61	2.59
Lowest Monthly Return (%)	-3.81	-3.79
Number of Positive Months	74	74
Number of Negative Months	54	54
% of Positive Months	57.81	57.81

SSgA US Aggregate Bond

For the Periods Ending June 30, 2022



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.

Real Assets Option

For the Periods Ending June 30, 2022

Manag	er Allocation		Portfolio Information		
Name	Market Value (\$000s)	Allocation (%)	Real Asset Option		
Total	1,066	100.00	 This option includes a REIT, Commodity and TIPS strategy. 		
PIMCO Diversified Real Assets	1,066	100.00	 Performance Goal - Outperform the custom benchmark over a complete market cycle (typically 3 to 5 years) 		

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

	3 Months	YTD	
Beginning Market Value	1,165	914	
Net Additions	26	241	
Return on Investment	-125	-89	
Ending Market Value	1,066	1,066	



Growth of a Dollar

Real Assets Option





Fixed Fund Option

For the Periods Ending June 30, 2022

	Manager Allocation	Portfolio Information		
Name	Market Value (\$000s)	Allocation (%)	 Fixed account designed to provide participants with principal stability over a 	
Total	53,869	100.00	- long-term investment norizon. The Fixed Account is backed by the voya	
Voya Fixed Plus III	53,869	100.00	Retirement insurance and Annuity Company (VRIAC) general account.	
			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	YTD
Beginning Market Value	48,525	44,681
Net Additions	5,134	8,789
Return on Investment	211	400
Ending Market Value	53,869	53,869





- Fixed Fund Option - FTSE 1 Yr T-Bill

SSgA Target Retirement Options

Manag	er Allocation	Portfolio Information		
Name	Market Value (\$000s)	Allocation (%)	 This option includes a combination of passive SSgA strategies across globa 	
Total	187,955	100.00	equity, fixed income and real assets.	
SSgA Target Retirement 2025	38,211	20.33	The risk/return profile of the target date funds are based upon each	
SSgA Target Retirement 2030	26,302	13.99	participant's age and time horizon.	
SSgA Target Retirement 2035	24,387	12.97	- The lease of shele for the second state in the shelf the second sills as the formation	
SSgA Target Retirement 2020	24,216	12.88	Ine target date tunas automatically shift the asset allocation from more	
SSgA Target Retirement Income	19,070	10.15	aggressive to more conservative as the participant approaches the stated	
SSgA Target Retirement 2040	18,259	9.71	retirement date.	
SSgA Target Retirement 2045	14,074	7.49	The manager's performance will be evaluated on absolute return, relative	
SSgA Target Retirement 2050	10,785	5.74		
SSgA Target Retirement 2055	6,625	3.52	return, volatility profile and consistency with stated style relative to similar	
SSgA Target Retirement 2060	5,870	3.12	target date funds.	
SSgA Target Retirement 2065	158	0.08		

For the Periods Ending June 30, 2022

Dollar Growth Summary (\$000s)

	3 Months	YTD	
Beginning Market Value	219,659	235,726	
Net Additions	-5,951	-9,910	
Return on Investment	-25,753	-37,860	
Ending Market Value	187,955	187,955	

Growth of a Dollar



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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, 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, 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, 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, 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, 20.00% MSCI EAFE, 30.00% Bloomberg US Aggregate, 5.00% NCREIF Property
03/31/2016	The index consists of 65.00% MSCI ACWI, 30.00% Bloomberg US Aggregate, 5.00% NCREIF Property.
01/31/2021	The index consists of 70.00% MSCI ACWI, 25.00% Bloomberg US Aggregate, 5.00% NCREIF Property.
10/31/2021	The index consists of 70.00% MSCI ACWI, 20.00% Bloomberg US Aggregate, 10.00% NCREIF Property.

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.

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	BB	6	13	13
AGY	AGY	10	25	24	Ba	BB		13	13
Aaa	AAA	10	24	24	MIG4		6	13	13
Aal	AA+	9.3	23	23	Ba3	BB-	5.7	12	12
Aa2	AA		22	22	B1	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	B3	B-	4.7	9	9
Al	A+	8.3	20	20	Caal	CCC+	4.3	8	8
A-1			20	20	Caa2	CCC	4	7	7
A2	А	8	19	19	Caa	CCC		7	7
А	А		19	19	Caa3	CCC-	3.7	6	6
MIG2		8	19	19	Са	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		
Bal	BB+	6.7	14	14	N/A	N/A			

Quality Rating Scale

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