#### Total Fund Asset Allocation & Performance (Net of Fees) - Preliminary

### Illinois Police Officers' Pension Investment Fund Period Ending: April 30, 2025

	Market Value	% of Portfolio	Target (%)	1 Mo	QTD	Fiscal YTD	YTD	1 Yr	3 Yrs	Since Inception	Inception Date
Total Fund with Member and Transition Accounts	12,844,258,105	100.0	100.0	1.2	1.2	5.9	1.7	10.0	6.8	4.9	03/01/22
Policy Index				1.1	1.1	5.7	1.6	9.7	6.7	4.8	
Policy Index- Broad Based				1.5	1.5	5.6	1.2	10.5	7.2	4.5	
IPOPIF Investment Portfolio	12,844,258,105	100.0	100.0	1.2	1.2	5.7	1.6	9.8	6.7	4.7	04/01/22
Policy Index				1.1	1.1	5.7	1.6	9.7	6.7	4.8	
Policy Index- Broad Based				1.5	1.5	5.6	1.2	10.5	7.2	4.5	
Growth	7,575,522,791	59.0	58.0	2.0	2.0	5.6	1.4	11.0	8.8	5.8	04/01/22
Growth Benchmark				1.9	1.9	5.6	1.4	10.8	8.6	5.7	
RhumbLine Russell 1000 Index	2,930,003,307	22.8	23.0	-0.6	-0.6	3.5	-5.1	11.9	11.8	8.1	04/01/22
Russell 1000 Index				-0.6	-0.6	3.5	-5.1	11.9	11.9	8.2	
RhumbLine Russell 2000 Index	616,906,913	4.8	5.0	-2.4	-2.4	-3.0	-11.5	0.9	3.1	-0.4	04/01/22
Russell 2000 Index				-2.3	-2.3	-3.0	-11.6	0.9	3.3	-0.3	
SSgA Non-US Developed Index	2,544,004,499	19.8	19.0	4.6	4.6	11.1	11.3	13.4	10.1	7.5	04/01/22
MSCI World ex U.S. (Net)				4.6	4.6	10.8	11.0	13.1	9.7	7.1	
International Developed Small Cap Equity	685,155,226	5.3	5.0	6.1	6.1	11.5	8.3	15.3	6.2	3.6	04/01/22
MSCI World ex U.S. Small Cap Index (Net)				5.5	5.5	11.0	9.1	12.5	5.1	2.6	
Acadian ACWI ex US Small-Cap Fund	337,583,519	2.6	2.5	4.7	4.7	10.0	6.5	14.7	-	15.5	02/01/24
MSCI AC World ex USA Small Cap (Net)				4.7	4.7	6.0	5.4	8.2	-	8.6	
WCM International Small Cap Growth Fund	168,456,897	1.3	1.3	9.2	9.2	9.5	5.2	13.6	-	6.9	03/01/24
MSCI AC World ex USA Small Cap (Net)				4.7	4.7	6.0	5.4	8.2	-	8.3	
LSV International Small Cap Value Equity Fund	179,114,810	1.4	1.3	6.0	6.0	16.3	15.1	18.2	-	16.9	03/01/24
S&P Developed Ex-U.S. SmallCap (Net)				5.9	5.9	8.0	9.2	9.8	-	9.7	
Emerging Market Equities	799,452,846	6.2	6.0	4.0	4.0	-2.4	2.0	2.9	1.9	0.0	04/01/22
Emerging Markets Equity Benchmark				3.9	3.9	-1.6	2.1	3.4	2.0	0.1	
William Blair Emerging Markets ex China Growth Fund	398,660,816	3.1	1.4	4.3	4.3	-	-5.9	-	-	-5.9	01/01/25
MSCI Emerging Markets ex China IMI (Net)				3.8	3.8	-	1.1	-	-	1.1	
ARGA Emerging Markets Ex China Equity	400,792,030	3.1	2.3	4.3	4.3	-	9.1	-	-	5.1	12/01/24
MSCI Emerging Markets ex China (Net)				3.9	3.9	-	2.1	-	-	0.9	



	Market Value	% of Portfolio	Target (%)	1 Mo	QTD	Fiscal YTD	YTD	1 Yr	3 Yrs	Since Inception	Inception Date
Income	2,044,769,498	15.9	16.0	0.0	0.0	6.4	1.5	8.5	5.7	3.8	04/01/22
Income Benchmark				-0.1	-0.1	6.1	1.3	8.3	6.1	4.4	
SSgA High Yield Corporate Credit	882,934,684	6.9	7.0	-0.1	-0.1	6.5	0.8	8.7	6.1	4.6	04/01/22
Spliced SSgA U.S. High Yield Index				0.0	0.0	6.4	0.9	8.7	6.1	4.6	
Emerging Market Debt	764,168,718	5.9	6.0	0.2	0.2	6.9	2.8	9.5	5.4	2.7	04/01/22
Emerging Markets Debt Benchmark				-0.2	-0.2	6.2	2.0	8.8	6.0	3.8	
SSgA EMD Hard Index Fund	564,855,638	4.4	4.5	-0.2	-0.2	6.6	2.1	9.1	5.2	2.6	04/01/22
Spliced SSgA EMD Hard Index				-0.2	-0.2	6.2	2.0	8.8	5.3	3.0	
Capital Group Emerging Markets Debt	199,313,080	1.6	1.5	1.2	1.2	-	4.9	-	-	3.0	11/01/24
Spliced Capital Group EMD Index				1.5	1.5	-	4.8	-	-	3.4	
Bank Loans	397,666,096	3.1	3.0	0.1	0.1	4.9	0.6	6.1		6.7	03/01/24
S&P UBS Leveraged Loan Index				-0.1	-0.1	5.0	0.5	6.2	-	6.7	
Ares Institutional Loan Fund	132,494,252	1.0	1.0	0.2	0.2	5.3	0.5	6.8	-	7.1	03/01/24
S&P UBS Leveraged Loan Index				-0.1	-0.1	5.0	0.5	6.2	-	6.7	
Aristotle Institutional Loan Fund	265,171,844	2.1	2.0	0.1	0.1	4.7	0.6	5.8	-	6.4	03/01/24
S&P UBS Leveraged Loan Index				-0.1	-0.1	5.0	0.5	6.2	-	6.7	
Real Assets	704,464,670	5.5	6.0	-1.8	-1.8	5.9	-1.0	11.4	0.0	-0.3	04/01/22
Real Assets Benchmark				-1.7	-1.7	5.6	-0.6	10.7	-1.9	-2.8	
SSgA REITs Index	489,579,629	3.8	4.0	-2.8	-2.8	6.9	-1.6	15.1	-0.7	-2.3	04/01/22
Dow Jones U.S. Select REIT Total Return Index				-2.8	-2.8	6.9	-1.6	15.2	-0.8	-2.3	
Principal USPA	214,885,040	1.7	2.0	0.5	0.5	1.5	0.5	0.4	-5.5	-5.5	05/01/22
Risk Mitigation	2,519,501,146	19.6	20.0	0.6	0.6	5.4	2.8	7.1	3.4	2.9	04/01/22
Risk Mitigation Benchmark				0.7	0.7	5.4	2.9	7.1	3.4	2.9	
SSgA US Treasury Index	376,153,854	2.9	3.0	0.6	0.6	5.1	3.6	7.7	-	7.7	05/01/24
Blmbg. U.S. Treasury Index				0.6	0.6	5.1	3.6	7.7	-	7.7	
SSgA Core Fixed Income Index	375,822,872	2.9	3.0	0.4	0.4	5.3	3.2	8.1	2.0	0.6	04/01/22
Blmbg. U.S. Aggregate Index				0.4	0.4	5.2	3.2	8.0	2.0	0.6	
SSgA Short-Term Gov't/Credit Index	1,262,517,493	9.8	10.0	0.8	0.8	5.5	2.4	6.8	3.6	3.3	04/01/22
Bloomberg U.S. Gov/Credit 1-3 Year Index				0.8	0.8	5.4	2.4	6.8	3.5	3.3	
SSgA US TIPS Index	377,545,420	2.9	3.0	0.7	0.7	6.3	3.8	8.0	3.4	3.3	04/01/22
Blmbg. U.S. TIPS 0-5 Year				0.8	0.8	6.3	3.9	8.0	3.5	3.4	
Cash	127,126,157	1.0	1.0	0.3	0.3	3.7	1.2	4.6	4.0	3.9	04/01/22
90 Day U.S. Treasury Bill	, , ,			0.3	0.3	4.0	1.4	4.9	4.3	4.2	
IPOPIF Pool Fixed Income Transition	335,351	0.0	-								
Member Accounts	-	0.0	-								
Transition Account	-	0.0	_								

The Principal USPA Real Estate Fund is benchmarked against the NCREIF ODCE index on a quarterly basis and against itself for the purpose of monthly flash reports due to quarterly index data availability.

| Illinois Police Officers'



#### Performance Return Calculations

Performance is calculated using Time Weighted Rates of Return (TWRR) methodologies. Monthly returns are geometrically linked and annualized for periods longer than one year.

#### Data Source

Verus is an independent third party consulting firm and calculates returns from best source book of record data. Returns calculated by Verus may deviate from those shown by the manager in part, but not limited to, differences in prices and market values reported by the custodian and manager, as well as significant cash flows into or out of an account. It is the responsibility of the manager and custodian to provide insight into the pricing methodologies and any difference in valuation.

Manager Line Up					
<u>Manager</u> <u>I</u>	nception Date	Data Source	<u>Manager</u>	Inception Date	Data Source
RhumbLine Russell 1000 Index Fund	3/15/2022	State Street	SSgA EMD Hard Index Fund	3/14/2022	State Street
RhumbLine Russell 2000 Index Fund	3/15/2022	State Street	Capital Group Emerging Markets Debt Fund	10/21/2024	State Street
SSgA Non-US Developed Index Fund	3/10/2022	State Street	Ares Institutional Loan Fund	3/1/2024	Ares
SSgA Non-US Developed SC Index Fund	3/10/2022	State Street	Aristotle Institutional Loan Fund	3/1/2024	Aristotle
Acadian ACWI ex US Small-Cap Fund	1/30/2024	State Street	Principal USPA	4/6/2022	State Street
WCM International Small Cap Growth Fund	3/1/2024	WCM	SSgA REITs Index Fund	3/10/2022	State Street
LSV International Small Cap Value Equity Fund	3/1/2024	LSV	SSgA US Treasury Index Fund	5/1/2024	State Street
SSgA Emerging Markets Equity Index Fund	3/1/2022	State Street	SSgA Core Fixed Income Index Fund	3/17/2022	State Street
SSgA Emerging Markets ex China Equity Index Fur	5/1/2024	State Street	SSgA Short-Term Gov't/Credit Index Fund	3/17/2022	State Street
William Blair EM ex China Growth Fund	12/9/2024	William Blair	SSgA US TIPS Index Fund	3/17/2022	State Street
ARGA Emerging Markets Ex China Equity	12/1/2024	ARGA	Cash	3/22/2022	State Street
SSgA High Yield Corporate Credit	3/18/2022	State Street			

<b>Custom Benchmark Composition</b>		
Benchmark	Time period	Composition
Policy Index -Broad Benchmark	4/1/2022 - Present	70% MSCI ACWI IMI (Net) and 30% Bloomberg Global Multiverse.
Spliced SSgA EMD Hard Benchmark	7/1/2023 - Present	100% JPM EMBI Global Diversified Index
Spliced SSgA EMD Hard Benchmark	3/14/2022 - 6/30/2022	100% JPM EMBI Global Core Index
Spliced SSqA U.S. High Yield Index	12/1/2022 - Present	100% ICE BofA US High yield Master II Constrained
Spliced SSqA U.S. High Yield Index	4/1/2022 - 11/30/2022	100% Bloomberg U.S. High Yield Very Liquid Index
opliced oogA o.o. High Fleid index	4/1/2022 - 11/30/2022	100 % Bloomberg 6.6. High field very Elquid index
Spliced Capital Group EMD Benchmark	1/1/2025 - Present	50% JPM GBI EM GD/30% JPM EMBI GD/20% JPM CEMBI BD
Spliced Capital Group EMD Benchmark	10/21/2024 - 12/31/2024	50% JPM EMBI GD/50% JPM GBI EM GD





## Total Fund Data Sources and Methodology Page

Policy Index Composition							Policy				Risk
As of 12/1/2024	Policy Index	Growth	Income	Real Assets	Risk Mitigation	As of 11/1/2024	Index	Growth	Income	Real Assets	Mitigation
Russell 1000	23.0%	39.7%				Russell 1000	23%	39.7%			
Russell 2000	5.0%	8.6%				Russell 2000	5%	8.6%			
MSCI World ex U.S.	19.0%	32.8%				MSCI World ex U.S.	19%	32.8%			
MSCI World ex U.S. Small Cap	5.0%	8.6%				MSCI World ex U.S. Small Cap	5%	8.6%			
MSCI Emerging Markets ex China	6.0%	10.3%				MSCI Emerging Markets	0.7%	1.2%			
Bloomberg US Corporate High Yield Index	7.0%	10.570	43.8%			MSCI Emerging Markets ex China	5.3%	9.2%			
JPM EMBI Global Diversified Index	6.0%		37.5%			Bloomberg US Corporate High Yield Index	7%	3.270	43.8%		
S&P UBS Leveraged Loan Index	3.0%		18.8%			JPM EMBI Global Diversified Index	6%		37.5%		
NFI-ODCE Equal-Weighted Index	2.0%		10.070	33.3%		S&P UBS Leveraged Loan Index	3%		18.8%		
Dow Jones US Select REIT Index	4.0%			66.7%		NFI-ODCE Equal-Weighted Index	2%		10.070	33.3%	
	3.0%			00.7 %	15.0%	, ,	4%			66.7%	
Bloomberg US Aggregate Index						Dow Jones US Select REIT Index	3%			00.7 %	45.00/
Bloomberg US Treasury Index	3.0%				15.0%	Bloomberg US Aggregate Index	3%				15.0%
Bloomberg 1-3 Year Gov/Credit Index	10.0%				50.0%	Bloomberg US Treasury Index					15.0%
Bloomberg US TIPS 0-5 Year	3.0%				15.0%	Bloomberg 1-3 Year Gov/Credit Index	10%				50.0%
90 Day US Treasury Bill Index	1.0%				5.0%	Bloomberg US TIPS 0-5 Year	3%				15.0%
						90 Day US Treasury Bill Index	1%				5.0%
							Policy				Risk
As of 10/1/2024	Policy Index	Growth	Income	Real Assets	Risk Mitigation	As of 9/1/2024	Index	Growth	Income	Real Assets	Mitigation
Russell 1000	23%	39.7%				Russell 1000	23%	39.7%			
Russell 2000	5%	8.6%				Russell 2000	5%	8.6%			
MSCI World ex U.S.	19%	32.8%				MSCI World ex U.S.	19%	32.8%			
MSCI World ex U.S. Small Cap	5%	8.6%				MSCI World ex U.S. Small Cap	5%	8.6%			
MSCI Emerging Markets	0.8%	1.4%				MSCI Emerging Markets	1.5%	2.6%			
MSCI Emerging Markets ex China	5.2%	9.0%				MSCI Emerging Markets ex China	4.5%	7.8%			
Bloomberg US Corporate High Yield Index	7%		43.8%			Bloomberg US Corporate High Yield Index	7%		43.8%		
JPM EMBI Global Diversified Index	6%		37.5%			JPM EMBI Global Diversified Index	6%		37.5%		
S&P UBS Leveraged Loan Index	3%		18.8%			S&P UBS Leveraged Loan Index	3%		18.8%		
NFI-ODCE Equal-Weighted Index	2%			33.3%		NFI-ODCE Equal-Weighted Index	2%			33.3%	
Dow Jones US Select REIT Index	4%			66.7%		Dow Jones US Select REIT Index	4%			66.7%	
Bloomberg US Aggregate Index	3%				15.0%	Bloomberg US Aggregate Index	3%				15.0%
Bloomberg US Treasury Index	3%				15.0%	Bloomberg US Treasury Index	3%				15.0%
Bloomberg 1-3 Year Gov/Credit Index	10%				50.0%	Bloomberg 1-3 Year Gov/Credit Index	10%				50.0%
Bloomberg US TIPS 0-5 Year	3%				15.0%	Bloomberg US TIPS 0-5 Year	3%				15.0%
90 Day US Treasury Bill Index	1%				5.0%	90 Day US Treasury Bill Index	1%				5.0%
As of 8/1/2024	Policy Index	Craudh	lucomo	Real Assets	Risk Mitigation	As of 7/1/2024	Policy Index	Crevith	Income	Real Assets	Risk Mitigation
	23%	<u>Growth</u> 39.7%	Income	INCOL MOSCIS	NISK WINGAUON		23%	Growth 39.7%	Income	INCAL ASSELS	wiitigatior
Russell 1000						Russell 1000					
Russell 2000	5%	8.6%				Russell 2000	5% 19%	8.6% 32.8%			
MSCI World ex U.S.	19%	32.8%				MSCI World ex U.S.					
MSCI World ex U.S. Small Cap	5%	8.6%				MSCI World ex U.S. Small Cap	5%	8.6%			
MSCI Emerging Markets	2%	3.4%				MSCI Emerging Markets	3%	5.2%			
MSCI Emerging Markets ex China	4%	6.9%				MSCI Emerging Markets ex China	3%	5.2%			
Bloomberg US Corporate High Yield Index	7%		43.8%			Bloomberg US Corporate High Yield Index	7%		43.8%		
JPM EMBI Global Diversified Index	6%		37.5%			JPM EMBI Global Diversified Index	6%		37.5%		
S&P UBS Leveraged Loan Index	3%		18.8%			S&P UBS Leveraged Loan Index	3%		18.8%		
NFI-ODCE Equal-Weighted Index	2%			33.3%		NFI-ODCE Equal-Weighted Index	2%			33.3%	
Dow Jones US Select REIT Index	4%			66.7%		Dow Jones US Select REIT Index	4%			66.7%	
Bloomberg US Aggregate Index	3%				15.0%	Bloomberg US Aggregate Index	3%				15.0%
	3%				15.0%	Bloomberg US Treasury Index	3%				15.0%
Bloomberg US Treasury Index						•					
,	10%				50.0%	Bloomberg 1-3 Year Gov/Credit Index	10%				50.0%
Bloomberg US Treasury Index Bloomberg 1-3 Year Gov/Credit Index Bloomberg US TIPS 0-5 Year	10% 3%				50.0% 15.0%	Bloomberg 1-3 Year Gov/Credit Index Bloomberg US TIPS 0-5 Year	10% 3%				50.0% 15.0%





## Illinois Police Officers' Pension Investment Fund Period Ending: April 30, 2025

As of \$412024   Policy (Index   Sport   Sport	dex Composition							Policy				Risk
Rissell 1000 23% 39.7%   Street   Stree	12024	Policy Index	Growth	Incomo	Roal Assets	Rick Mitigation	As of 5/1/2024		Growth	Incomo	Roal Assets	Mitigatio
Rissell 2000				income	Iteal Assets	Nisk Witigation				income	iteal Assets	witigati
MSCI World or U.S. Small Cap												
MSCM World ow U.S. Small Cap         5%         8.6%           MSC I Emerging Marketse         4%         6.9%         MSC I Emerging Marketse         5%         8.6%           MSC I Emerging Marketse         4%         6.9%         MSC I Emerging Marketse         5%         8.6%           MSC I Emerging Marketse         4%         6.9%         4.3.8%         MSC I Emerging Marketse         5%         8.6%           MSC I Emerging Marketse         6%         7.5%         43.8%         Bloomberg US Comporate High Yield Index         6%         3.75%           PME ABIR Global Diversified Index         6%         3.75%         3.84 PUBS Loversage place Index         3%         1.88%         33.3%           4H-ODGE Equal-Weighted Index         2.2%         1.80%         33.3%         MSC Diversified Index         2.4         1.80%         Bloomberg US Ageograpate Index         2.4         1.80%         Bloomberg US Ageograpate Index         2.4         0.67%         8.60%         <												
MSCI Emerging Markets   4%   6.9%   MSCI Emerging Markets   5%   8.6%   MSCI Emerging Markets   5%   1.7%   43.8%   MSCI Emerging Markets   5%   MSCI Eme												
MSCI Emerging Markete sex China   1%   1.7%	•						•					
Bloomberg US Corporate High Yield Index	0 0						8 8					
JPM EMBIG Clobal Diversified Index   6%   37.5%			3.4%	40.00/					1.770	40.00/		
SAP UBS Leveraged Loan Index   3%   18.8%	0 , 0											
NRI-ODCE Equal-Weighted Index												
Dow Jones US Select REIT Index	8			18.8%			- C			18.8%		
Bloombery US Aggregate Index   3%   Bloombery US Aggregate Index   3%   Bloombery US Aggregate Index   3%   Bloombery 1-3 Year Cow/Credit Index   11%   5.5.0%   Bloombery 1-3 Year Gow/Credit Index   12%   Bloombery 1-3 Year Gow/Credit Index   11%   5.5.0%   Bloombery 1-3 Year Gow/Credit Index   1%   1.5.0%   Bloombery 1-3 Year Gow/Credit Index   1.5.0%   Bloombery 1												
Bloomberg US Treasury Index   2%   Bloomberg US Treasury Index   1%   Bloomberg US Treasury Bill condex   1%   150%   Bloomberg US TIPS 0.5 Year   3%   5.0%   90 Day US Treasury Bill Index   1%   5.0%   5.0%   90 Day US Treasury Bill Index   1%   5.0%   5.					66.7%						66.7%	
Bloomberg 1-3 Year Gow/Credit Index	0 00 0						0 00 0					15.0%
Stomberg US TIPS 0-5 Year   3%   15.0%   Bloomberg US TIPS 0-5 Year   3%   90 Day US Treasury Bill Index   1%   5.0%   90 Day US Treasury Bill Index   1%   1%   1%   1%   1%   1%   1%   1												5.0%
20 Day US Treasury Bill Index	g 1-3 Year Gov/Credit Index											60.0%
As of 4/12024 Policy Index												15.0%
As of 4/1/2024   Policy Index   Growth   Income   Real Assets   Risk Mitigation   As of 3/1/2024   Index   Growth   Income   Real Assets   Risk Mitigation   As of 3/1/2023   39.7%   Russell 1000   23%   39.7%   8.6%   Russell 2000   5%   8.6%   Russell 2000   5%   8.6%   8.6%   Russell 2000   8.6%   8.6%   Russell 2000   8.6%   8.6%   8.6%   Russell 2000   8.6%   8.6%   8.6%   Russell 2000   8.6%   8.	S Treasury Bill Index	1%				5.0%	90 Day US Treasury Bill Index	1%				5.0%
Russell 1000   23%   39.7%   Russell 2000   5%   8.6%   Russell 2000   8.6%   Russ								Policy				Risk
Russell 2000   5%   8.6%	/2024	Policy Index		Income	Real Assets	Risk Mitigation	As of 3/1/2024			Income	Real Assets	Mitigation
MSCI World ex U.S.  MSCI Emerging Markets  MSCI World ex U.S.  M	000	23%	39.7%				Russell 1000	23%	39.7%			
MSCI World ex U. S. Small Cap	000	5%	8.6%				Russell 2000	5%	8.6%			
MSCI Emerging Markets 7% 12.1%  Bioomberg US Corporate High Yield Index 7% 43.8%  JPM EMBI Global Diversified Index 8.5% 53.1%  JPM EMBI Global Diversified Index 6% 37.5%  SAP UBS Leveraged Loan Index 1.5% 9.4%  NFI-ODCE Equal-Weighted Index 2% 3.33.3%  NFI-ODCE Equal-Weighted Index 2% 3.33.3%  NFI-ODCE Equal-Weighted Index 2% 3.33.3%  Dow Jones US Select REIT Index 4% 66.7%  Bloomberg US Aggregate Index 3% 15.0%  Bloomberg US TIPS 0-5 Year 3% 15.0%  Bloomberg US Treasury Bill Index 15% 15.0%  Bloomberg US TIPS 0-5 Year 3% 14.0%  Bloomberg US TIPS 0-5 Year 3% 14.0%  Bloomberg US TIPS 0-5 Year 3% 14.0%  Bloomberg US Aggregate Index 7% 14.0%  Bloomberg US Aggregate Index 7% 14.0%  Bloomberg US Aggregate Index 7% 15.0%  Bloomberg US TIPS 0-5 Year 3% 15.0%	rld ex U.S.	19%	32.8%				MSCI World ex U.S.	18%	31.0%			
Bloomberg US Corporate High Yield Index	rld ex U.S. Small Cap	5%	8.6%				MSCI World ex U.S. Small Cap	5%	8.6%			
JPM EMBI Global Diversified Index   6%   37.5%	erging Markets	6%	10.3%				MSCI Emerging Markets	7%	12.1%			
JPM EMBI Global Diversified Index   6%   37.5%	a US Corporate High Yield Index	7%		43.8%			Bloomberg US Corporate High Yield Index	8.5%		53.1%		
SAP UBS Leveraged Loan Index   3%   18.8%   SAP UBS Leveraged Loan Index   1.5%   9.4%	I Global Diversified Index	6%		37.5%			JPM EMBI Global Diversified Index	6%		37.5%		
NFI-ODCE Equal-Weighted Index		3%		18.8%				1.5%		9.4%		
Dow Jones US Select REIT Index	E Equal-Weighted Index	2%			33.3%			2%			33.3%	
Bloomberg US Aggregate Index   3%   15.0%   Bloomberg US Aggregate Index   3%   15.0%   Bloomberg US Aggregate Index   13%   13%   15.0%   Bloomberg US Aggregate Index   13%   15.0%   Bloomberg US Type G-S Year   3%   15.0%   Bloomberg US Type G-S Year   15.0%   Bloomberg US Cyperate High Yield Index   15%   15.0%   Bloomberg US Aggregate Index   15%   15%   15%   15.0%   Bloomberg US Type G-S Year   3%   15.0%   Bloomberg US Aggregate Index   15%   15.0%   Bloomberg US Type G-S Year   3%   15.0%   Bloomberg US Typ												
Bloomberg 1-3 Year Gov/Credit Index   13%   13%   15.0%   Bloomberg 1-3 Year Gov/Credit Index   13%   15.0%   Bloomberg US TIPS 0-5 Year   3%   15.0%   90 Day US Treasury Bill Index   1%   1%   1%   1%   1%   1%   1%   1						15.0%						15.0%
Bloomberg US TIPS 0-5 Year   3%   15.0%   Bloomberg US TIPS 0-5 Year   3%   90 Day US Treasury Bill Index   1%   5.0%   90 Day US Treasury Bill Index   1%   1%   1%   1%   1%   1%   1%   1												65.0%
90 Day US Treasury Bill Index 1%    Policy   As of 5/1/2023   Policy Index   Growth   Income   Real Assets   Risk Mitigation   Russell 1000   18%   36.0%   Russell 1000   18%   36.0%   Russell 2000   5%   10.0%   Russell 2000   18%   36.0%   Russell 2000   5%   10.0%   Russell 2000   5%   10.0%   Russell 2000   18%   30.0%   Russell 2000   5%   10.0%   Russell 2000   18%   30.0%   Russell 2000   Russe							C .					15.0%
As of 5/1/2023	· ·											5.0%
As of 5/1/2023								Policy				Risk
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Russell 2000 5% 8.6% 8.6% Russell 2000 5% 10.0% MSCI World ex U.S. 15% 30.0% MSCI World ex U.S. Small Cap 5% 8.6% MSCI World ex U.S. Small Cap 5% 10.0% MSCI Emerging Markets 7% 12.1% MSCI Emerging Markets 7% 12.1% MSCI Emerging Markets 7% 14.0% 14.0% 14.0% 14.0% 15% 14.0% 14.0% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15				income	iteal Assets	ixion willigation				income	iveai Mooelo	wiitigati
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	g 1-3 Year Gov/Credit Index	13%				65.0%	Bloomberg 1-3 Year Gov/Credit Index	15%				53.69
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90 Day US Treasury Bill Index 1% 5.0% 90 Day US Treasury Bill Index 3%	S Treasury Bill Index	1%				5.0%	90 Day US Treasury Bill Index	3%				10.79





# Total Fund Data Sources and Methodology Page

Policy Index Composition					
As of 3/31/2022	Policy Index	Growth	Income	Real Assets	Risk Mitigation
Russell 3000	23%	46.0%			
MSCI ACWI ex USA IMI	20%	40.0%			
MSCI Emerging Markets IMI	7%	14.0%			
Bloomberg US Corporate High Yield Index	10%		62.5%		
50% JPM EMBI GD/50% JPM GBI EM GD	6%		37.5%		
NCREIF Property Index	2%			66.7%	
Dow Jones US Select REIT Index	4%			33.3%	
Bloomberg US Aggregate Index	7%				25.0%
Bloomberg 1-3 Year Gov/Credit Index	15%				53.6%
Bloomberg US TIPS 0-5 Year	3%				10.7%
90 Day US Treasury Bill Index	3%				10.7%



#### Glossary

Allocation Effect: An attribution effect that describes the amount attributable to the managers' asset allocation decisions, relative to the benchmark.

Alpha: The excess return of a portfolio after adjusting for market risk. This excess return is attributable to the selection skill of the portfolio manager. Alpha is calculated as: Portfolio Return [Risk free Rate + Portfolio Beta x (Market Return Risk free Rate)].

Benchmark R squared: Measures how well the Benchmark return series fits the manager's return series. The higher the Benchmark R squared, the more appropriate the benchmark is for the manager.

Beta: A measure of systematic, or market risk; the part of risk in a portfolio or security that is attributable to general market movements. Beta is calculated by dividing the covariance of a security by the variance of the market.

Book to Market: The ratio of book value per share to market price per share. Growth managers typically have low book to market ratios while value managers typically have high book to market ratios.

Capture Ratio: A statistical measure of an investment manager's overall performance in up or down markets. The capture ratio is used to evaluate how well an investment manager performed relative to an index during periods when that index has risen (up market) or fallen (down market). The capture ratio is calculated by dividing the manager's returns by the returns of the index during the up/down market, and multiplying that factor by 100.

Correlation: A measure of the relative movement of returns of one security or asset class relative to another over time. A correlation of 1 means the returns of two securities move in lock step, a correlation of 1 means the returns of two securities move in lock step, a correlation of 1 means the returns of two securities move in lock step, a correlation of 1 means the returns of two securities move in the exact opposite direction over time. Correlation is used as a measure to help maximize the benefits of diversification when constructing an investment portfolio.

Excess Return: A measure of the difference in appreciation or depreciation in the price of an investment compared to its benchmark, over a given time period. This is usually expressed as a percentage and may be annualized over a number of years or represent a single period.

Information Ratio: A measure of a manager's ability to earn excess return without incurring additional risk. Information ratio is calculated as: excess return divided by tracking error.

Interaction Effect: An attribution effect that describes the portion of active management that is contributable to the cross interaction between the allocation and selection effect. This can also be explained as an effect that cannot be easily traced to a source.

Portfolio Turnover: The percentage of a portfolio that is sold and replaced (turned over) during a given time period. Low portfolio turnover is indicative of a buy and hold strategy while high portfolio turnover implies a more active form of management.

Price to Earnings Ratio (P/E): Also called the earnings multiplier, it is calculated by dividing the price of a company's stock into earnings per share. Growth managers typically hold stocks with high price to earnings ratios whereas value managers hold stocks with low price to earnings ratios.

R Squared: Also called the coefficient of determination, it measures the amount of variation in one variable explained by variations in another, i.e., the goodness of fit to a benchmark. In the case of investments, the term is used to explain the amount of variation in a security or portfolio explained by movements in the market or the portfolio's benchmark.

Selection Effect: An attribution effect that describes the amount attributable to the managers' stock selection decisions, relative to the benchmark.

Sharpe Ratio: A measure of portfolio efficiency. The Sharpe Ratio indicates excess portfolio return for each unit of risk associated with achieving the excess return. The higher the Sharpe Ratio, the more efficient the portfolio. Sharpe ratio is calculated as: Portfolio Excess Return / Portfolio Standard Deviation.

Sortino Ratio: Measures the risk adjusted return of an investment, portfolio, or strategy. It is a modification of the Sharpe Ratio, but penalizes only those returns falling below a specified benchmark. The Sortino Ratio uses downside deviation in the denominator rather than standard deviation, like the Sharpe Ratio.

**Standard Deviation:** A measure of volatility, or risk, inherent in a security or portfolio. The standard deviation of a series is a measure of the extent to which observations in the series differ from the arithmetic mean of the series. For example, if a security has an average annual rate of return of 10% and a standard deviation of 5%, then two thirds of the time, one would expect to receive an annual rate of return between 5% and 15%.

Style Analysis: A return based analysis designed to identify combinations of passive investments to closely replicate the performance of funds

Style Map: A specialized form or scatter plot chart typically used to show where a Manager lies in relation to a set of style indices on a two dimensional plane. This is simply a way of viewing the asset loadings in a different context. The coordinates are calculated by rescaling the asset loadings to range from 1 to 1 on each axis and are dependent on the Style Indices comprising the Map.



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