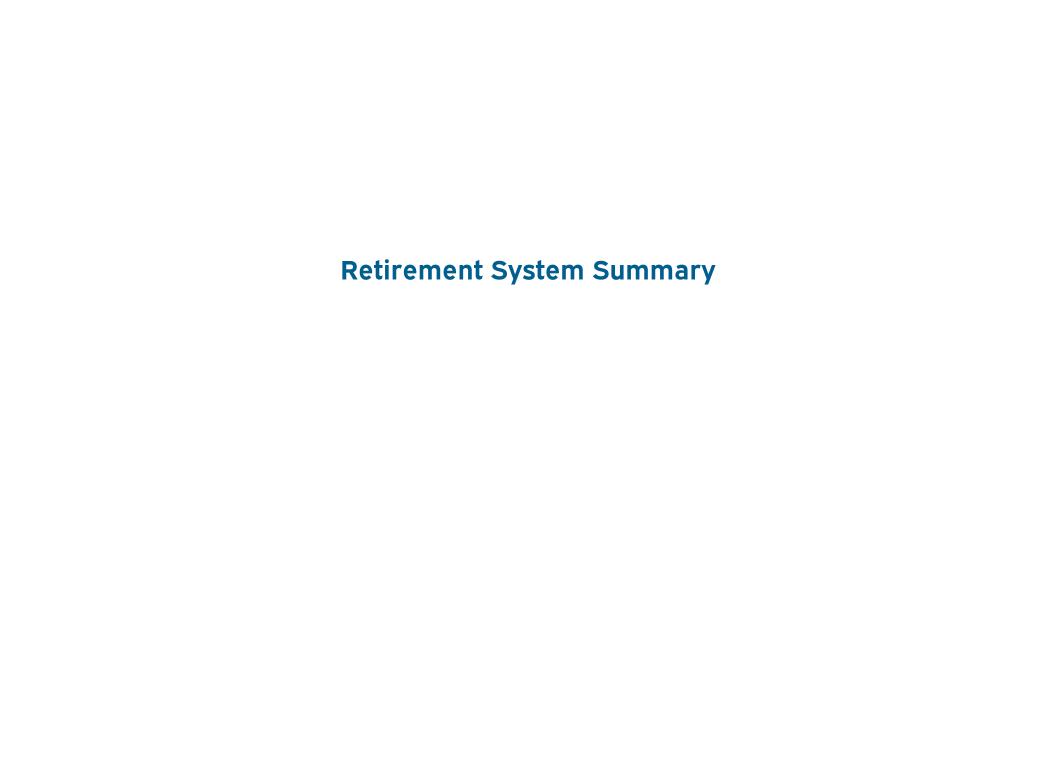


# City of Ann Arbor Employees' Retirement System and VEBA

February 7, 2023

**Investment Review** 







Performance Update as of December 31, 2022



	Allocation vs. Targets	and Policy		
	Current Balance	Current Allocation	Policy	Policy Range
US Equity	\$206,717,992	36%	36%	25% - 42%
Developed Market Equity	\$81,441,545	14%	14%	9% - 17%
Emerging Market Equity	\$37,756,736	6%	<b>7</b> %	0% - 10%
Investment Grade Bonds	\$54,682,920	9%	10%	6% - 22%
TIPS			0%	0% - 10%
High Yield Bonds	\$6,845,199	1%	0%	0% - 5%
Bank Loans			0%	0% - 4%
Private Equity	\$45,169,386	8%	<b>7</b> %	0% - 10%
Private Debt	\$11,512,132	2%	<b>7</b> %	0% - 10%
Real Estate	\$76,060,856	13%	9%	2% - 12%
Natural Resources	\$15,899,183	3%	3%	0% - 5%
Infrastructure	\$32,706,150	6%	7%	0% - 10%
Hedge Funds	\$4,237,855	1%	0%	0% - 5%
Cash	\$8,369,357	1%	0%	0% - 5%
Total	\$581,399,311	100%	100%	



	Asset Clas	s Performa	nce Su	mmary							
	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Fund Aggregate	581,399,311	100.0	6.0	2.5	-8.2	7.2	7.0	8.1	7.8	8.3	Oct-90
Total Fund Aggregate (Net)			6.0	2.5	-8.4	7.0	6.8	7.9	7.6		
Policy Benchmark			6.1	-0.2	-11.5	5.9	6.2	7.8	7.1	8.3	Oct-90
60% MSCI ACWI / 40% Bloomberg Aggregate			6.6	0.3	-16.0	1.6	3.5	5.4	5.4	6.9	Oct-90
60% MSCI ACWI / 40% Barclays Global Aggregate			7.7	0.4	-17.3	0.8	<i>2.</i> 7	5.1	4.7	6.7	Oct-90
Total Domestic Equity	206,717,992	35.6	8.6	4.0	-15.8	7.6	8.8	11.2	12.1	10.2	Oct-90
Russell 3000			7.2	2.4	-19.2	7.1	8.8	11.0	12.1	10.5	Oct-90
Total International Developed Market Equity	81,441,545	14.0	20.0	9.2	-14.0	4.0	4.6	6.9	6.0	7.8	Oct-95
MSCI EAFE			17.3	6.4	-14.5	0.9	1.5	4.5	4.7	4.6	Oct-95
Total International Emerging Market Equity	37,756,736	6.5	7.6	-1.5	-14.6	1.6	1.0	7.4	2.9	3.4	Feb-12
MSCI Emerging Markets			9.7	-3.0	-20.1	-2.7	-1.4	<i>5.2</i>	1.4	1.9	Feb-12
Total Investment Grade Bonds	54,682,920	9.4	1.8	-1.6	-9.1	-1.5	0.6	1.2	1.4	5.2	Oct-90
Bloomberg US Aggregate TR			1.9	-3.0	-13.0	-2.7	0.0	0.9	1.1	5.1	Oct-90
Bloomberg US Universal TR			2.2	-2.3	-13.0	-2.5	0.2	1.3	1.3	5.3	Oct-90
Total High Yield Bonds*	6,845,199	1.2									
Total Private Credit	11,512,132	2.0									
Total Real Estate	76,060,856	13.1	-2.5	-0.4	10.6	12.4	10.7	9.6	11.9	8.8	Jul-03
NCREIF ODCE Equal Weighted			-4.9	-4.0	8.4	10.6	9.2	9.0	10.4	8.3	Jul-03



	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Natural Resources (Net)	15,899,183	2.7	18.5	8.4	-1.0	5.9	6.8			6.3	Jul-17
Bloomberg Commodity Index TR USD			2.2	-2.0	16.1	12.7	6.4	6.5	-1.3	7.2	Jul-17
S&P Global Natural Resources Index TR USD			17.2	11.9	10.3	11.6	7.3	12.7	4.9	10.3	Jul-17
Total Infrastructure	32,706,150	5.6									
DJ Brookfield Global Infrastructure Net TR USD			9.5	-2.6	-3.9	2.3	4.9	7.5	6.7	7.5	Aug-20
Total Hedge Funds	4,237,855	0.7	0.3	-2.1	5.1	5.3	3.3	2.0	2.1	2.7	Jul-09
HFRI Fund Weighted Composite Index			2.3	1.6	-4.1	5.7	4.4	5.2	4.7	5.0	Jul-09
MSCI ACWI			9.8	2.3	-18.4	4.0	5.2	8.1	8.0	9.1	Jul-09
Total Private Equity	45,169,386	7.8									
Total Cash	8,369,357	1.4							_		

<sup>\*</sup>One or more accounts have been excluded from the composite for the purposes of performance calculations and market value.



	Trailine	g Perfori	mance									
	Market Value (\$)	% of Portfolio		QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Fund Aggregate	581,399,311	100.0		6.0	2.5	-8.2	7.2	7.0	8.1	7.8	8.3	Oct-90
Total Fund Aggregate (Net)				6.0	2.5	-8.4	7.0	6.8	7.9	7.6		
Policy Benchmark				6.1	-0.2	-11.5	5.9	6.2	7.8	7.1	8.3	Oct-90
60% MSCI ACWI / 40% Bloomberg Aggregate				6.6	0.3	-16.0	1.6	3.5	5.4	5.4	6.9	Oct-90
60% MSCI ACWI / 40% Barclays Global Aggregate				7.7	0.4	-17.3	0.8	2.7	5.1	4.7	6.7	Oct-90
Total Domestic Equity	206,717,992	35.6	35.6	8.6	4.0	-15.8	7.6	8.8	11.2	12.1	10.2	Oct-90
Russell 3000				7.2	2.4	-19.2	7.1	8.8	11.0	12.1	10.5	Oct-90
RhumbLine HEDI	119,142,865	20.5	57.6	8.6	3.7	-15.1					11.5	Mar-20
RhumbLine HEDI (Net)				8.6	3.6	-15.1					11.4	
Russell 1000 HEDI Moderate GR USD				8.6	3.7	-15.1	8.1	10.7	12.5	13.7	11.5	Mar-20
eV US Large Cap Core Equity Gross Median				8.6	3.4	-16.0	8.0	9.4	11.3	12.5	11.8	Mar-20
eV US Large Cap Core Equity Gross Rank				51	46	42					55	Mar-20
Northern Trust Russell 1000 Index	58,568,408	10.1	28.3	7.2	2.3	-19.1	7.3	9.1	11.3	12.4	9.1	Jul-06
Northern Trust Russell 1000 Index (Net)				7.2	2.3	-19.1	7.3	9.1	11.2	12.3	9.1	
Russell 1000				7.2	2.3	-19.1	7.3	9.1	11.3	12.4	9.1	Jul-06
eV US Large Cap Core Equity Gross Median				8.6	3.4	-16.0	8.0	9.4	11.3	12.5	9.4	Jul-06
eV US Large Cap Core Equity Gross Rank				75	69	78	65	58	54	55	63	Jul-06



	Market Value (\$) Po	% of ortfolio S	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Loomis Sayles Small Cap Value	18,947,156	3.3	9.2	11.9	9.4	-10.8	5.9	4.7	8.5	9.6	10.4	Apr-97
Loomis Sayles Small Cap Value (Net)				11.7	9.0	-11.4	5.1	4.0	7.8	8.9		
Russell 2000 Value				8.4	3.4	-14.5	4.7	4.1	8.2	8.5	8.6	Apr-97
Russell 2000				6.2	3.9	-20.4	3.1	4.1	7.9	9.0	8.0	Apr-97
eV US Small Cap Value Equity Gross Median				11.1	5.5	-11.0	7.4	5.7	9.5	10.2	10.7	Apr-97
eV US Small Cap Value Equity Gross Rank				42	16	48	68	73	71	64	64	Apr-97
Northern Trust S&P 400 MidCap Index	10,059,564	1.7	4.9	10.8	8.1	-13.1	7.2	6.7	9.9	10.8	8.2	Jun-07
Northern Trust S&P 400 MidCap Index (Net)				10.8	8.0	-13.1	7.2	6.7	9.9	10.7		
S&P 400 MidCap				10.8	8.1	-13.1	7.2	6.7	9.9	10.8	8.1	Jun-07
eV US Mid Cap Equity Gross Median				9.1	5.5	-15.1	6.7	8.0	10.4	11.5	8.6	Jun-07
eV US Mid Cap Equity Gross Rank				35	20	42	43	74	58	70	65	Jun-07
Total International Developed Market Equity	81,441,545	14.0	14.0	20.0	9.2	-14.0	4.0	4.6	6.9	6.0	7.8	Oct-95
MSCI EAFE				17.3	6.4	-14.5	0.9	1.5	4.5	4.7	4.6	Oct-95
Northern Trust MSCI EAFE Index	24,450,049	4.2	30.0	18.5	6.5	-13.9	1.3	2.0	4.9		3.7	Dec-14
Northern Trust MSCI EAFE Index (Net)				18.5	6.5	-13.9	1.3	2.0	4.9		3.7	
MSCI EAFE				17.3	6.4	-14.5	0.9	1.5	4.5	4.7	3.4	Dec-14
eV EAFE Core Equity Gross Median				16.3	<i>5.3</i>	-16.4	1.4	1.9	5.2	6.0	4.6	Dec-14
eV EAFE Core Equity Gross Rank				8	23	30	51	48	62	-	76	Dec-14
WCM Focused Growth International	26,195,238	4.5	32.2	22.2	13.5	-22.0	7.4	9.6			10.4	Aug-17
WCM Focused Growth International (Net)				21.9	13.1	-22.6	6.6	8.8			9.5	
MSCI ACWI ex USA				14.3	3.0	-16.0	0.1	0.9	4.8	3.8	2.2	Aug-17
MSCI EAFE Growth				15.0	5.3	-22.9	0.5	2.5	5.1	5.6	3.7	Aug-17
eV EAFE Core Equity Gross Median				16.3	5.3	-16.4	1.4	1.9	5.2	6.0	3.3	Aug-17
eV EAFE Core Equity Gross Rank				1	1	85	2	1		-[	1	Aug-17



	Market Value (\$) Po	% of ortfolio S	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Artisan International Value	30,796,258	5.3	37.8	19.3	7.8	-5.9					6.1	Feb-21
Artisan International Value (Net)				19.0	7.3	-6.8					5.1	
MSCI ACWI ex USA				14.3	3.0	-16.0	0.1	0.9	4.8	3.8	-5.1	Feb-21
MSCI EAFE Value				19.6	7.4	-5.6	0.6	0.2	<i>3.7</i>	3.5	2.8	Feb-21
eV EAFE All Cap Value Net Median				18.5	5.7	-8.4	1.4	1.0	4.0	4.4	0.5	Feb-21
eV EAFE All Cap Value Net Rank				41	16	13				-	4	Feb-21
Total International Emerging Market Equity	37,756,736	6.5	6.5	7.6	-1.5	-14.6	1.6	1.0	7.4	2.9	3.4	Feb-12
MSCI Emerging Markets				9.7	-3.0	-20.1	-2.7	-1.4	5.2	1.4	1.9	Feb-12
Dimensional Emerging Markets Value (Net)	23,502,768	4.0	62.2	10.3	-0.5	-10.7	1.0	-0.1	6.9	1.8	2.1	Feb-12
MSCI Emerging Markets				9.7	-3.0	-20.1	-2.7	-1.4	5.2	1.4	1.9	Feb-12
MSCI Emerging Markets Value NR USD				9.8	-2.3	-15.8	-2.6	-1.6	4.5	0.1	0.3	Feb-12
eV Emg Mkts Equity Net Median				10.3	-0.7	-19.9	-1.6	-0.7	5.4	2.1	2.7	Feb-12
eV Emg Mkts Equity Net Rank				51	48	11	28	38	23	59	68	Feb-12
GQG Partners Emerging Markets Equity	14,253,968	2.5	37.8	3.4	-3.3	-20.7	2.0	2.4			5.2	Jul-17
GQG Partners Emerging Markets Equity (Net)				3.2	-3.6	-21.2	1.3	1.8			4.6	
MSCI Emerging Markets				9.7	-3.0	-20.1	-2.7	-1.4	5.2	1.4	1.4	Jul-17
MSCI Emerging Markets Growth NR USD				9.6	-3.7	-24.0	-2.9	-1.3	5.7	2.7	2.0	Jul-17
eV Emg Mkts Equity Gross Median				10.4	-0.6	-19.4	-1.2	-0.1	6.2	2.9	2.6	Jul-17
eV Emg Mkts Equity Gross Rank				98	79	62	24	16		-	13	Jul-17



#### Total Fund Aggregate | As of December 31, 2022

	Market Value (\$) F	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Investment Grade Bonds	54,682,920	9.4	9.4	1.8	-1.6	-9.1	-1.5	0.6	1.2	1.4	5.2	Oct-90
Bloomberg US Aggregate TR				1.9	-3.0	-13.0	-2.7	0.0	0.9	1.1	5.1	Oct-90
Bloomberg US Universal TR				2.2	-2.3	-13.0	-2.5	0.2	1.3	1.3	5.3	Oct-90
Northern Trust Barclays Aggregate Index	26,112,474	4.5	47.8	1.9	-2.9	-13.0	-2.8	0.0	0.9	1.0	3.9	Jul-98
Northern Trust Barclays Aggregate Index (Net)				1.9	-2.9	-13.0	-2.8	-0.1	0.8	1.0		
Bloomberg US Aggregate TR				1.9	-3.0	-13.0	-2.7	0.0	0.9	1.1	3.9	Jul-98
eV US Core Fixed Inc Gross Median				1.9	-2.7	-12.8	-2.1	0.5	1.4	1.5	4.3	Jul-98
eV US Core Fixed Inc Gross Rank				49	70	64	95	96	97	98	97	Jul-98
Northern Trust 1-5 Year Credit Bond	28,570,446	4.9	52.2	1.7	-0.4	-5.8	-0.5	1.2	1.5	1.5	1.5	Feb-13
Northern Trust 1-5 Year Credit Bond (Net)				1.7	-0.5	-5.9	-0.6	1.1	1.4		1.4	
Bloomberg US Credit 1-5 Yr TR				1.8	-0.2	-5.6	-0.4	1.3	1.6	1.5	1.6	Feb-13
eV US Short Duration Fixed Inc Gross Median				1.1	-0.1	-3.4	0.1	1.3	1.4	1.3	1.3	Feb-13
eV US Short Duration Fixed Inc Gross Rank				9	70	96	90	59	36	27	27	Feb-13
Total High Yield Bonds*	6,845,199	1.2	1.2									
Summit Partners Credit Fund II, L.P.	2,879,550	0.5	42.1									
Summit Partners Credit Fund III, L.P.	3,965,649	0.7	57.9									

Note: Total High Yield Bonds performance excludes the performance from Summit Credit Fund III. Market values for both funds are as of 9/30/2022 adjusted for subsequent cash flows.



#### Total Fund Aggregate | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Private Credit	11,512,132	2.0	2.0									
Angelo Gordon Direct Lending IV	11,512,132	2.0	100.0									
Total Real Estate	76,060,856	13.1	13.1	-2.5	-0.4	10.6	12.4	10.7	9.6	11.9	8.8	Jul-03
NCREIF ODCE Equal Weighted				-4.9	-4.0	8.4	10.6	9.2	9.0	10.4	8.3	Jul-03
A.E.W Core Property Trust (Net)	52,003,115	8.9	68.4	-5.1	-3.4	7.6	9.4	8.0	7.9		8.9	Jul-13
NCREIF ODCE (net)				-5.2	-4.9	6.5	9.0	7.7	7.6	9.1	8.9	Jul-13
DRA Growth and Income Fund VIII	2,980,038	0.5	3.9									
DRA Growth and Income Fund IX	6,435,364	1.1	8.5									
DRA Growth and Income Fund X, LLC	4,802,760	0.8	6.3									
Carlyle Realty Partners VIII, L.P.	5,072,009	0.9	6.7									
INVESCO Mortgage Recovery Loans	40,602	0.0	0.1									
Torchlight Debt Fund VII, L.P.	4,726,968	0.8	6.2									

Private Credit and Real Estate market values, excluding the AEW Core Property Trust, are as of 9/30/2022 adjusted for subsequent cash flows. The A.E.W. Core Property Trust market value is as of 12/31/2022.



### Total Fund Aggregate | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Natural Resources (Net)	15,899,183	2.7	2.7	18.5	8.4	-1.0	5.9	6.8			6.3	Jul-17
Bloomberg Commodity Index TR USD				2.2	-2.0	16.1	12.7	6.4	6.5	-1.3	7.2	Jul-17
S&P Global Natural Resources Index TR USD				17.2	11.9	10.3	11.6	7.3	12.7	4.9	10.3	Jul-17
First Eagle Gold Fund (Net)	10,311,650	1.8	64.9	18.1	8.0	-1.3	5.8	6.8			6.3	Jul-17
FTSE Gold Mines PR USD				20.2	1.8	-15.5	-3.1	2.6	10.3	-4.7	3.4	Jul-17
S&P Global Natural Resources Index TR USD				17.2	11.9	10.3	11.6	7.3	12.7	4.9	10.3	Jul-17
SSGA Global Natural Resources Index	5,587,533	1.0	35.1									
SSGA Global Natural Resources Index (Net)												
Total Infrastructure	32,706,150	5.6	5.6									
DJ Brookfield Global Infrastructure Net TR USD				9.5	-2.6	-3.9	2.3	4.9	7.5	6.7	7.5	Aug-20
BlackRock Global Renewable Power Infrastructure Fund III, L.P.	3,070,607	0.5	9.4									
JP Morgan Infrastructure Fund	29,635,542	5.1	90.6	0.0	2.5						4.5	Apr-22
DJ Brookfield Global Infrastructure Net TR USD				9.5	-2.6	-3.9	2.3	4.9	7.5	6.7	-6.9	Apr-22
Total Hedge Funds	4,237,855	0.7	0.7	0.3	-2.2	5.0	5.3	3.3	2.0	2.1	2.7	Jul-09
HFRI Fund Weighted Composite Index				2.3	1.6	-4.1	5.7	4.4	5.2	4.7	5.0	Jul-09
MSCI ACWI				9.8	2.3	-18.4	4.0	5.2	8.1	8.0	9.1	Jul-09
Sculptor Credit Opportunities (Net)	4,237,855	0.7	100.0	0.3	-0.9	-3.5	4.9	4.5	7.2		5.6	Jun-15
Bloomberg US High Yield TR				4.2	3.5	-11.2	0.0	2.3	5.0	4.0	3.5	Jun-15

SSGA Global Natural Resources Index was funded on 12/19/2022. JP Morgan Infrastructure Fund market value is as of 9/30/2022 adjusted for subsequent cash flows.



#### Total Fund Aggregate | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I (%)	S.I. Date
Total Private Equity	45,169,386	7.8	7.8									
Arboretum Ventures V, L.P.	5,928,976	1.0	13.1									
Arboretum Ventures VI, L.P.	33,129	0.0	0.1									
Ironsides Co-Investment Fund III, L.P.	2,015,269	0.3	4.5									
Ironsides Direct Investment Fund V, L.P.	4,581,853	0.8	10.1									
Ironsides Partnership Fund III, L.P.	7,046,001	1.2	15.6									
Ironsides Partnership Fund V, L.P.	2,725,338	0.5	6.0									
Strategic Investors Fund VIII L.P.	19,241,156	3.3	42.6									
Mesirow Financial Private Equity Fund VIII-A	3,597,664	0.6	8.0									
Total Cash	8,369,357	1.4	1.4									
Northern Trust Cash Account	8,369,357	1.4	100.0									

<sup>\*</sup>One or more accounts have been excluded from the composite for the purposes of performance calculations and market value.

Private Equity market values are as of 9/30/2022, adjusted for subsequent flows



Total Fund Aggregate | As of December 31, 2022

		Nor	n-Marketable Secu As of December		1			
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	IRR
Infrastructure	BlackRock Global Renewable Power Infrastructure Fund III, L.P.	2020	\$8,000,000	\$3,657,422	\$588,729	\$3,070,607	\$3,659,336	NM
	Total Infrastructure		\$8,000,000	\$3,657,422	\$588,729	\$3,070,607	\$3,659,336	-
Private Debt	Angelo Gordon Direct Lending IV	2021	\$12,000,000	\$10,689,834	\$0	\$11,512,132	\$11,512,132	NM
	Total Private Debt		\$12,000,000	\$10,689,834	\$0	\$11,512,132	\$11,512,132	-
Private Equity	Arboretum Ventures V, L.P.	2019	\$8,000,000	\$5,304,000	\$0	\$5,928,976	\$5,928,976	NM
	Arboretum Ventures VI, L.P.	2022	\$6,000,000	\$39,000	\$0	\$33,129	\$33,129	NM
	Ironsides Co-Investment Fund III, L.P.	2013	\$6,000,000	\$7,349,055	\$13,944,672	\$2,015,269	\$15,959,941	20.8
	Ironsides Direct Investment Fund V, L.P.	2018	\$3,000,000	\$3,652,000	\$1,472,289	\$4,581,853	\$6,054,142	21.9
	Ironsides Partnership Fund III, L.P.	2013	\$6,000,000	\$4,011,754	\$6,120,174	\$7,046,001	\$13,166,175	27.6
	Ironsides Partnership Fund V, L.P.	2020	\$3,000,000	\$1,940,747	\$2,746	\$2,725,338	\$2,728,084	34.8
	Strategic Investors Fund VIII L.P.	2017	\$8,000,000	\$6,532,000	\$1,736,000	\$19,241,156	\$20,977,156	37.5
	Mesirow Financial Private Equity Fund VIII-A	2019	\$10,000,000	\$3,559,332	\$0	\$3,597,664	\$3,597,664	NM
	Total Private Equity		\$50,000,000	\$32,387,888	\$23,275,881	\$45,169,386	\$68,445,267	-

Strategic Investors Fund IRR is as of 6/30/2022. Remianing IRR's above are as of 9/30/2022.

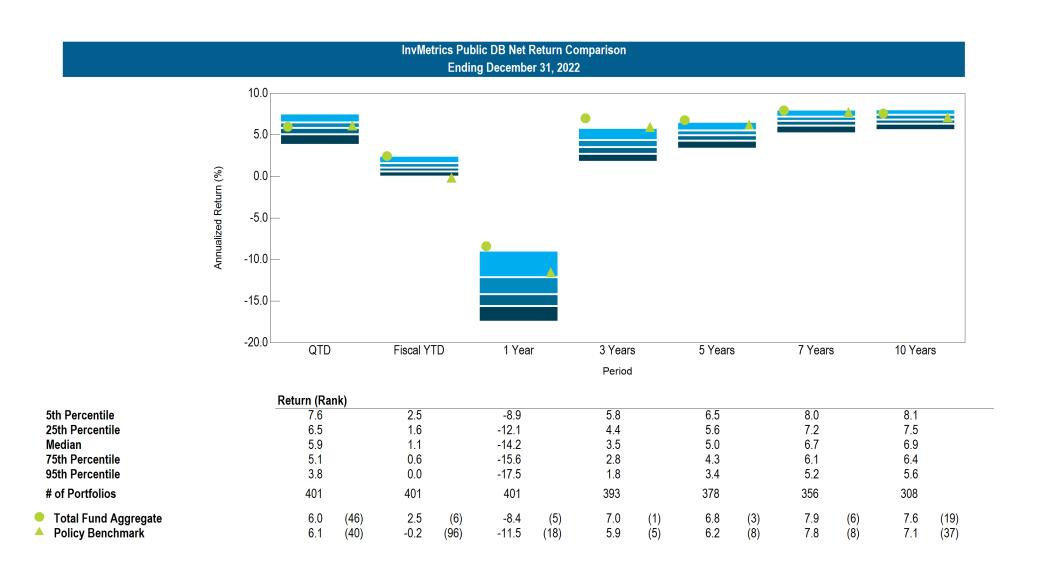


### Total Fund Aggregate | As of December 31, 2022

Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	IRR
Real Estate	DRA Growth and Income Fund VIII	2014	\$8,500,000	\$9,898,456	\$9,910,694	\$2,980,038	\$12,890,732	8.4
	DRA Growth and Income Fund IX		\$8,500,000	\$8,975,379	\$7,641,458	\$6,435,364	\$14,076,822	18.8
	DRA Growth and Income Fund X, LLC	2020	\$6,000,000	\$4,551,348	\$735,896	\$4,802,760	\$5,538,656	29.0
	Carlyle Realty Partners VIII, L.P.	2017	\$8,000,000	\$3,281,458	\$2,110,192	\$5,072,009	\$7,182,201	32.5
	INVESCO Mortgage Recovery Loans	2008	\$11,000,000	\$7,938,905	\$10,599,669	\$40,602	\$10,640,271	17.2
	Torchlight Debt Fund VII, L.P.	2019	\$9,000,000	\$4,955,503	\$455,503	\$4,726,968	\$5,182,471	5.8
	Total Real Estate		\$51,000,000	\$39,601,049	\$31,453,412	\$24,057,741	\$55,511,153	-
US Fixed Income High Yield	Summit Partners Credit Fund II, L.P.	2011	\$9,200,000	\$13,023,818	\$12,313,985	\$2,879,550	\$15,193,535	6.0
	Summit Partners Credit Fund III, L.P.	2018	\$9,000,000	\$9,293,670	\$9,389,579	\$3,965,649	\$13,355,228	18.0
	Total US Fixed Income High Yield		\$18,200,000	\$22,317,488	\$21,703,564	\$6,845,199	\$28,548,763	-
	Total Account		\$139,200,000	\$108,653,680	\$76,432,857	\$90,655,065	\$167,676,651	-

IRR's above are as of 9/30/2022.







**Retirement System Detail** 



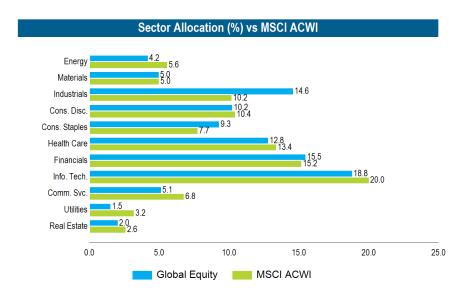
### Global Equity | As of December 31, 2022

Asset Allocation on December 31, 2022			
	Actual	Actual	
Artisan International Value	\$30,796,258	9.4%	
Dimensional Emerging Markets Value	\$23,502,768	7.2%	
GQG Partners Emerging Markets Equity	\$14,253,968	4.4%	
Loomis Sayles Small Cap Value	\$18,947,156	5.8%	
Northern Trust MSCI EAFE Index	\$24,450,049	7.5%	
Northern Trust Russell 1000 Index	\$58,568,408	18.0%	
Northern Trust S&P 400 MidCap Index	\$10,059,564	3.1%	
RhumbLine HEDI	\$119,142,865	36.6%	
WCM Focused Growth International	\$26,195,238	8.0%	
Total	\$325,916,274	100.0%	



#### Global Equity | As of December 31, 2022

Global Equity Characteristics			
	Portfolio	Index	Portfolio
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	325.9		293.4
Number Of Holdings	5312	2883	5383
Characteristics			
Weighted Avg. Market Cap. (\$B)	233.4	274.2	263.4
Median Market Cap (\$B)	4.2	11.9	3.7
P/E Ratio	16.3	16.1	14.6
Yield	2.4	2.4	2.6
EPS Growth - 5 Yrs.	15.0	15.1	15.2
Price to Book	3.3	3.2	3.1



Top 10 Holdings	
APPLE INC	3.0%
MICROSOFT CORP	2.9%
BERKSHIRE HATHAWAY INC	0.9%
ALPHABET INC	0.9%
ALPHABET INC	0.9%
AMAZON.COM INC	0.9%
JOHNSON & JOHNSON	0.9%
UNITEDHEALTH GROUP INC	0.8%
NOVARTIS AG	0.7%
PROCTER & GAMBLE CO (THE)	0.7%
Total	12.5%



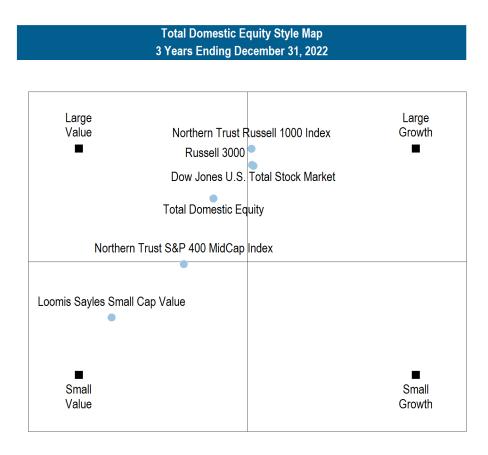
### Global Equity | As of December 31, 2022

Global Equity Region Allocation				
vs MSCI ACWI				
Region	% of Total	% of Bench	% Diff	
North America ex U.S.	1.4%	3.0%	-1.7%	
United States	62.9%	60.4%	2.5%	
Europe Ex U.K.	14.8%	12.6%	2.3%	
United Kingdom	3.8%	3.9%	-0.1%	
Pacific Basin Ex Japan	2.0%	3.2%	-1.2%	
Japan	2.2%	5.6%	-3.4%	
Emerging Markets	11.9%	11.1%	0.8%	
Other	1.0%	0.3%	0.7%	
Total	100.0%	100.0%	0.0%	



#### Total Domestic Equity | As of December 31, 2022

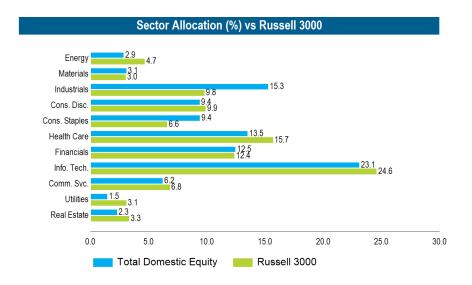
Asset Allocation on December 31, 2022			
	Actual	Actual	
Loomis Sayles Small Cap Value	\$18,947,156	9.2%	
Northern Trust Russell 1000 Index	\$58,568,408	28.3%	
Northern Trust S&P 400 MidCap Index	\$10,059,564	4.9%	
RhumbLine HEDI	\$119,142,865	57.6%	
Total	\$206,717,992	100.0%	





#### Total Domestic Equity | As of December 31, 2022

Total Domestic Equity Characteristics			
	Portfolio	Index	Portfolio
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	206.7		190.3
Number Of Holdings	1219	2960	1228
Characteristics			
Weighted Avg. Market Cap. (\$B)	324.9	360.3	359.3
Median Market Cap (\$B)	9.0	2.5	8.4
P/E Ratio	19.6	18.5	18.6
Yield	1.7	1.7	1.8
EPS Growth - 5 Yrs.	16.1	17.2	16.4
Price to Book	3.9	3.6	3.7

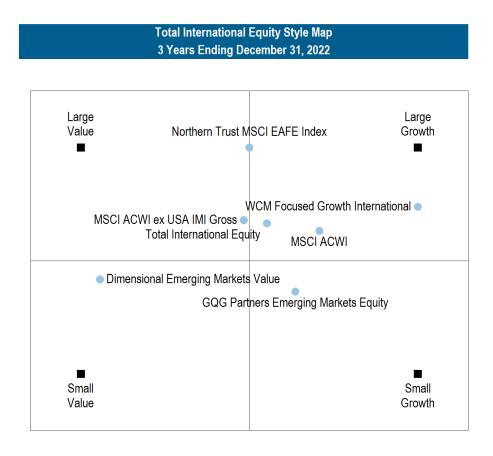


Top 10 Holdings	
APPLE INC	4.6%
MICROSOFT CORP	4.5%
BERKSHIRE HATHAWAY INC	1.5%
ALPHABET INC	1.4%
ALPHABET INC	1.4%
AMAZON.COM INC	1.4%
JOHNSON & JOHNSON	1.4%
UNITEDHEALTH GROUP INC	1.3%
PROCTER & GAMBLE CO (THE)	1.0%
VISA INC	1.0%
Total	19.6%



#### Total International Equity | As of December 31, 2022

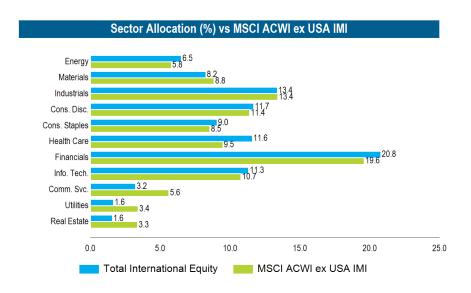
Asset Allocation on December 31, 2022				
	Actual	Actual		
Artisan International Value	\$30,796,258	25.8%		
Dimensional Emerging Markets Value	\$23,502,768	19.7%		
GQG Partners Emerging Markets Equity	\$14,253,968	12.0%		
Northern Trust MSCI EAFE Index	\$24,450,049	20.5%		
WCM Focused Growth International	\$26,195,238	22.0%		
Total	\$119,198,281	100.0%		





#### Total International Equity | As of December 31, 2022

Total International Equity Characteristics			
	Portfolio	Index	Portfolio
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	119.2		103.1
Number Of Holdings	4110	6585	4172
Characteristics			
Weighted Avg. Market Cap. (\$B)	70.2	69.8	63.3
Median Market Cap (\$B)	1.1	1.6	0.9
P/E Ratio	12.4	12.6	9.8
Yield	3.7	3.4	4.4
EPS Growth - 5 Yrs.	13.2	11.5	12.3
Price to Book	2.5	2.4	2.2



Top 10 Holdings	
NOVARTIS AG	1.8%
ARCH CAPITAL GROUP LTD	1.7%
DANONE	1.4%
NOVO NORDISK 'B'	1.3%
COMPASS GROUP PLC	1.3%
SAMSUNG ELECTRONICS CO LTD	1.3%
RELIANCE INDUSTRIES LTD	1.1%
NESTLE SA, CHAM UND VEVEY	1.1%
ABB LTD	1.1%
CANADIAN PACIFIC RAILWAY LTD	1.1%
Total	13.4%



### Total International Equity | As of December 31, 2022

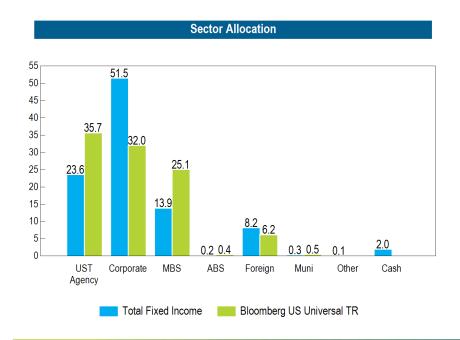
	Total International Equity Region Allocati	on	
vs MSCI ACWI ex USA IMI			
Region	% of Total	% of Bench	% Diff
North America ex U.S.	3.6%	7.6%	-4.0%
United States	4.1%	0.0%	4.1%
Europe Ex U.K.	36.7%	30.5%	6.2%
United Kingdom	9.4%	9.8%	-0.4%
Pacific Basin Ex Japan	5.6%	8.4%	-2.8%
Japan	5.9%	15.0%	-9.1%
Emerging Markets	32.7%	27.7%	5.0%
Other	2.0%	0.9%	1.1%
Total	100.0%	100.0%	0.0%

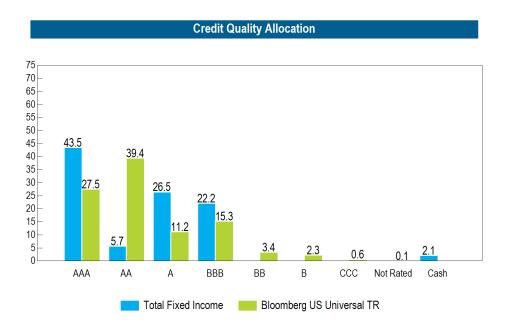


#### Total Fixed Income | As of December 31, 2022

Asset Allocation on December 31, 2022			
	Actual	Actual	
Angelo Gordon Direct Lending IV	\$11,512,132	15.8%	
Northern Trust 1-5 Year Credit Bond	\$28,570,446	39.1%	
Northern Trust Barclays Aggregate Index	\$26,112,474	35.8%	
Summit Partners Credit Fund II, L.P.	\$2,879,550	3.9%	
Summit Partners Credit Fund III, L.P.	\$3,965,649	5.4%	
Total	\$73,040,251	100.0%	

Total Fixed Income Characteristics vs. Bloomberg US Universal TR														
	Portfolio Index Portfol													
	Q4-22	Q4-22	Q3-22											
Fixed Income Characteristics														
Yield to Maturity	4.8	5.1	6.3											
Average Duration	4.5	6.0	3.9											
Average Quality	Α	AA	Α											
Weighted Average Maturity	5.9	12.2	5.8											









**Performa**nce Update as of December 31, 2022



	Allocation vs. Targets a	and Policy		
	Current Balance	Current Allocation	Policy	Policy Range
US Equity	\$80,167,218	34%	33%	27% - 39%
Developed Market Equity	\$27,565,728	12%	12%	9% - 15%
Emerging Market Equity	\$13,602,632	6%	7%	0% - 10%
Investment Grade Bonds	\$26,409,110	11%	10%	5% - 20%
TIPS	\$4,357,052	2%	2%	0% - 5%
Emerging Market Bonds			0%	0% - 5%
High Yield Bonds	\$8,476,261	4%	4%	0% - 6%
Bank Loans			0%	0% - 5%
Private Equity	\$9,818,654	4%	5%	0% - 8%
Private Debt	\$4,796,721	2%	7%	0% - 10%
Real Estate	\$29,661,321	13%	10%	2% - 12%
Natural Resources	\$7,416,999	3%	3%	0% - 5%
Infrastructure	\$10,278,585	4%	7%	0% - 10%
Cash	\$9,852,693	4%	0%	0% - 5%
Total	\$232,402,974	100%	100%	



Asset Class Performance Summary												
	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date	
Total Fund Aggregate	232,402,974	100.0	6.0	2.1	-11.1	5.1	5.9	7.6	7.1	6.2	Oct-99	
Total Fund Aggregate (Net)			5.9	2.0	-11.2	4.9	5.7	7.4	6.9			
Policy Benchmark			5.8	0.1	-11.0	4.7	5.6	7.6	7.1	5.9	Oct-99	
60% MSCI ACWI / 40% Bloomberg Aggregate			6.6	0.3	-16.0	1.6	3.5	5.4	5.4	5.0	Oct-99	
60% MSCI ACWI / 40% Barclays Global Aggregate			7.7	0.4	-17.3	0.8	2.7	5.1	4.7	4.6	Oct-99	
Total Domestic Equity	80,167,218	34.5	8.5	3.8	-16.2	7.7	8.8	11.2	11.7	7.6	Oct-99	
Russell 3000			7.2	2.4	-19.2	7.1	8.8	11.0	12.1	7.1	Oct-99	
Total International Developed Market Equity	27,565,728	11.9	20.6	10.3	-14.1	5.0	6.0	8.1	7.3	8.8	Jul-09	
MSCI EAFE			17.3	6.4	-14.5	0.9	1.5	4.5	4.7	5.8	Jul-09	
Total International Emerging Market Equity	13,602,632	5.9	6.7	-2.0	-16.1	2.0	1.6	7.7	3.3	3.8	Feb-12	
MSCI Emerging Markets			9.7	-3.0	-20.1	-2.7	-1.4	5.2	1.4	1.9	Feb-12	
Total Investment Grade Bonds	26,409,110	11.4	1.9	-2.6	-12.0	-2.4	0.2	0.9	1.1	4.1	Oct-00	
Bloomberg US Aggregate TR			1.9	-3.0	-13.0	-2.7	0.0	0.9	1.1	3.8	Oct-00	
Bloomberg US Universal TR			2.2	-2.3	-13.0	-2.5	0.2	1.3	1.3	4.1	Oct-00	
Total TIPS	4,357,052	1.9	1.3	-2.6	-7.5	1.9	2.5	2.6	-	1.8	Nov-13	
Bloomberg US TIPS TR			2.0	-3. <u>2</u>	-11.8	1.2	2.1	2.6	1.1	1.9	Nov-13	
Bloomberg US TIPS 1-10 Yr TR			1.6	-2.4	-7.3	2.0	2.5	2.6	1.3	1.8	Nov-13	
Total High Yield Bonds*	8,476,261	3.6	3.2	2.1	-13.2	-0.2	2.0	4.7	3.9	6.3	Jul-09	
Bloomberg US High Yield TR			4.2	3.5	-11.2	0.0	2.3	5.0	4.0	7.1	Jul-09	
Total Private Credit	4,796,721	2.1										

<sup>\*</sup> One or more accounts have been exlcuded from the composite for the purposes of performance calculations and market value.



	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Real Estate	29,661,321	12.8	-0.7	-1.6	-2.2	8.2	8.5	8.2	8.4	8.9	Mar-05
NCREIF ODCE Equal Weighted			-4.9	-4.0	8.4	10.6	9.2	9.0	10.4	8.2	Mar-05
Total Natural Resources (Net)	7,416,999	3.2	18.9	8.8	-0.6	6.1	7.0			6.4	Jul-17
Bloomberg Commodity Index TR USD			2.2	-2.0	16.1	12.7	6.4	6.5	-1.3	7.2	Jul-17
S&P Global Natural Resources Index TR USD			17.2	11.9	10.3	11.6	7.3	12.7	4.9	10.3	Jul-17
Total Infrastructure	10,278,585	4.4									
DJ Brookfield Global Infrastructure Net TR USD			9.5	-2.6	-3.9	2.3	4.9	7.5	6.7	7.5	Aug-20
Total Private Equity	9,818,654	4.2									
Total Cash	9,852,693	4.2									

<sup>\*</sup>One or more accounts have been excluded from the composite for the purposes of performance calculations and market value.



	Trail	ing Perfo	rmance									
	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Fund Aggregate	232,402,974	100.0		6.0	2.1	-11.1	5.1	5.9	7.6	7.1	6.2	Oct-99
Total Fund Aggregate (Net)				5.9	2.0	-11.2	4.9	5.7	7.4	6.9		
Policy Benchmark				5.8	0.1	-11.0	4.7	5.6	7.6	7.1	5.9	Oct-99
60% MSCI ACWI / 40% Bloomberg Aggregate				6.6	0.3	-16.0	1.6	3.5	5.4	5.4	5.0	Oct-99
60% MSCI ACWI / 40% Barclays Global Aggregate				7.7	0.4	-17.3	0.8	2.7	5.1	4.7	4.6	Oct-99
Total Domestic Equity	80,167,218	34.5	34.5	8.5	3.8	-16.2	7.7	8.8	11.2	11.7	7.6	Oct-99
Russell 3000				7.2	2.4	-19.2	7.1	8.8	11.0	12.1	7.1	Oct-99
RhumbLine HEDI	41,541,043	17.9	51.8	8.6	3.7	-15.1					11.5	Mar-20
RhumbLine HEDI (Net)				8.6	3.6	-15.1					11.4	
Russell 1000 HEDI Moderate GR USD				8.6	3.7	-15.1	8.1	10.7	12.5	13.7	11.5	Mar-20
eV US Large Cap Core Equity Gross Median				8.6	3.4	-16.0	8.0	9.4	11.3	12.5	11.8	Mar-20
eV US Large Cap Core Equity Gross Rank				51	47	42					55	Mar-20
Northern Trust Russell 1000 Index	27,703,088	11.9	34.6	7.2	2.3	-19.1	7.3	9.1	11.3	12.4	12.3	Feb-12
Northern Trust Russell 1000 Index (Net)				7.2	2.3	-19.1	7.3	9.1	11.2	12.3	12.3	
Russell 1000				7.2	2.3	-19.1	7.3	9.1	11.3	12.4	12.3	Feb-12
eV US Large Cap Core Equity Gross Median				8.6	3.4	-16.0	8.0	9.4	11.3	12.5	12.4	Feb-12
eV US Large Cap Core Equity Gross Rank				75	69	78	65	58	53	56	58	Feb-12
RhumbLine S&P 400 Index	6,647,921	2.9	8.3	10.8	8.1	-13.0	7.2	6.7	9.9	10.9	11.9	Feb-10
RhumbLine S&P 400 Index (Net)				10.8	8.0	-13.0	7.2	6.7	9.9	10.9	11.8	
S&P 400 MidCap				10.8	8.1	-13.1	7.2	6.7	9.9	10.8	11.8	Feb-10
eV US Mid Cap Equity Gross Median				9.1	5.5	-15.1	6.7	8.0	10.4	11.5	12.4	Feb-10
eV US Mid Cap Equity Gross Rank				35	20	41	43	73	58	67	64	Feb-10



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Loomis Sayles Small Cap Value Equity	4,275,167	1.8	5.3	11.9	9.4	-10.8	5.8				10.4	Jan-19
Loomis Sayles Small Cap Value Equity (Net)				11.7	9.0	-11.4	5.1				9.6	
Russell 2000 Value				8.4	3.4	-14.5	4.7	4.1	8.2	8.5	8.9	Jan-19
Russell 2000				6.2	3.9	-20.4	3.1	4.1	7.9	9.0	8.3	Jan-19
eV US Small Cap Value Equity Gross Median				11.1	5.5	-11.0	7.4	5.7	9.5	10.2	11.3	Jan-19
eV US Small Cap Value Equity Gross Rank				42	17	48	68			-	66	Jan-19
Total International Developed Market Equity	27,565,728	11.9	11.9	20.6	10.3	-14.1	5.0	6.0	8.1	7.3	8.8	Jul-09
MSCI EAFE				17.3	6.4	-14.5	0.9	1.5	4.5	4.7	5.8	Jul-09
WCM Focused Growth International	12,683,384	5.5	46.0	22.2	13.5	-22.0	7.4	9.6			10.4	Aug-17
WCM Focused Growth International (Net)				21.9	13.1	-22.6	6.6	8.8			9.5	
MSCI ACWI ex USA				14.3	3.0	-16.0	0.1	0.9	4.8	3.8	2.2	Aug-17
MSCI EAFE Growth				15.0	5.3	-22.9	0.5	2.5	5.1	5.6	3.7	Aug-17
eV EAFE Core Equity Gross Median				16.3	5.3	-16.4	1.4	1.9	5.2	6.0	3.3	Aug-17
eV EAFE Core Equity Gross Rank				1	1	85	2	1			1	Aug-17
Artisan International Value	14,882,343	6.4	54.0	19.3	7.8	-5.9					2.9	Mar-21
Artisan International Value (Net)				19.0	7.3	-6.8					2.0	
MSCI ACWI ex USA				14.3	3.0	-16.0	0.1	0.9	4.8	3.8	-6.4	Mar-21
MSCI EAFE Value				19.6	7.4	-5.6	0.6	0.2	3.7	3.5	0.4	Mar-21
eV EAFE All Cap Value Net Median				18.5	5.7	-8.4	1.4	1.0	4.0	4.4	-0.7	Mar-21
eV EAFE All Cap Value Net Rank				41	16	13				-	4	Mar-21



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total International Emerging Market Equity	13,602,632	5.9	5.9	6.7	-2.0	-16.1	2.0	1.6	7.7	3.3	3.8	Feb-12
MSCI Emerging Markets				9.7	-3.0	-20.1	-2.7	-1.4	5.2	1.4	1.9	Feb-12
DFA Emerging Markets Value Fund (Net)	6,670,163	2.9	49.0	10.3	-0.5	-10.7	1.0	-0.1	6.9	1.8	2.1	Feb-12
MSCI Emerging Markets				9.7	-3.0	-20.1	-2.7	-1.4	5.2	1.4	1.9	Feb-12
MSCI Emerging Markets Value NR USD				9.8	-2.3	-15.8	-2.6	-1.6	4.5	0.1	0.3	Feb-12
eV Emg Mkts Equity Net Median				10.3	-0.7	-19.9	-1.6	-0.7	5.4	2.1	2.7	Feb-12
eV Emg Mkts Equity Net Rank				51	48	11	28	38	23	59	68	Feb-12
GQG Partners Emerging Markets Equity	6,932,469	3.0	51.0	3.4	-3.3	-20.7	1.9	2.4			5.2	Jul-17
GQG Partners Emerging Markets Equity (Net)				3.2	-3.6	-21.2	1.3	1.8			4.6	
MSCI Emerging Markets				9.7	-3.0	-20.1	-2.7	-1.4	5.2	1.4	1.4	Jul-17
MSCI Emerging Markets Growth NR USD				9.6	<i>-3.7</i>	-24.0	<i>-2.9</i>	-1.3	5.7	2.7	2.0	Jul-17
eV Emg Mkts Equity Gross Median				10.4	-0.6	-19.4	-1.2	-0.1	6.2	2.9	2.6	Jul-17
eV Emg Mkts Equity Gross Rank				98	79	62	24	16		-	13	Jul-17
Total Investment Grade Bonds	26,409,110	11.4	11.4	1.9	-2.6	-12.0	-2.4	0.2	0.9	1.1	4.1	Oct-00
Bloomberg US Aggregate TR				1.9	-3.0	-13.0	-2.7	0.0	0.9	1.1	3.8	Oct-00
Bloomberg US Universal TR				2.2	-2.3	-13.0	-2.5	0.2	1.3	1.3	4.1	Oct-00
Northern Trust 1-5 Year Credit Bond Index Fund	3,961,680	1.7	15.0	1.8	-0.4	-5.8	-0.5	1.2	1.5		1.4	Dec-15
Northern Trust 1-5 Year Credit Bond Index Fund (Net)				1.7	-0.4	-5.9	-0.6	1.1	1.4		1.3	
Bloomberg US Credit 1-5 Yr TR				1.8	-0.2	-5.6	-0.4	1.3	1.6	1.5	1.5	Dec-15
eV US Short Duration Fixed Inc Gross Median				1.1	-0.1	-3.4	0.1	1.3	1.4	1.3	1.3	Dec-15
eV US Short Duration Fixed Inc Gross Rank				7	63	96	89	60	38		39	Dec-15



### Total Fund Aggregate | As of December 31, 2022

	-	-			_				_		·		
	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date	
Northern Trust Barclays Aggregate Bond Index	22,447,430	9.7	85.0	1.9	-3.0	-13.0	-2.7	0.0	0.9	1.0	4.0	Oct-99	
Northern Trust Barclays Aggregate Bond Index (Net)				1.9	-3.0	-13.1	-2.8	0.0	0.8	0.9	3.9		
Bloomberg US Aggregate TR				1.9	-3.0	-13.0	-2.7	0.0	0.9	1.1	3.9	Oct-99	
eV US Core Fixed Inc Gross Median				1.9	-2.7	-12.8	-2.1	0.5	1.4	1.5	4.4	Oct-99	
eV US Core Fixed Inc Gross Rank				48	72	67	94	95	97	98	96	Oct-99	
Total TIPS	4,357,052	1.9	1.9	1.3	-2.6	-7.5	1.9	2.5	2.6	-	1.8	Nov-13	
Bloomberg US TIPS TR				2.0	-3.2	-11.8	1.2	2.1	2.6	1.1	1.9	Nov-13	
Bloomberg US TIPS 1-10 Yr TR				1.6	-2.4	-7.3	2.0	2.5	2.6	1.3	1.8	Nov-13	
IR&M 1-10 Year Index	4,357,052	1.9	100.0	1.3	-2.6	-7.5	1.9	2.5	2.6		1.8	Nov-13	
IR&M 1-10 Year Index (Net)				1.3	-2.7	-7.5	1.9	2.4	2.5		1.8		
Bloomberg US TIPS 1-10 Yr TR				1.6	-2.4	-7.3	2.0	2.5	2.6	1.3	1.8	Nov-13	
eV US TIPS / Inflation Fixed Inc Gross Median				2.1	-2.9	-11.3	1.5	2.4	2.7	1.3	2.0	Nov-13	
eV US TIPS / Inflation Fixed Inc Gross Rank				99	39	28	38	43	89		89	Nov-13	
Total High Yield Bonds*	8,476,261	3.6	3.6	3.2	2.1	-13.2	-0.2	2.0	4.7	3.9	6.3	Jul-09	
Bloomberg US High Yield TR				4.2	3.5	-11.2	0.0	2.3	5.0	4.0	7.1	Jul-09	
Sky Harbor High Yield	6,654,805	2.9	78.5	3.2	2.1	-13.2	-0.2	2.0	4.7	3.9	4.0	Dec-12	
Sky Harbor High Yield (Net)				3.1	2.0	-13.4	-0.5	1.7	4.3	3.5	3.6		
Bloomberg US High Yield TR				4.2	3.5	-11.2	0.0	2.3	5.0	4.0	4.2	Dec-12	
eV US High Yield Fixed Inc Gross Median				4.1	3.8	-9.5	0.8	2.8	4.9	4.3	4.4	Dec-12	
eV US High Yield Fixed Inc Gross Rank				84	93	96	84	93	64	71	74	Dec-12	
Summit Credit Fund II, L.P.	719,885	0.3	8.5										
Summit Partners Credit Fund III, L.P.	1,101,571	0.5	13.0										

Note: Total High Yield Bonds performance excludes the performance from Summit Credit Fund II and Summit Credit Fund III. Market values for both funds are as of 9/30/2022 adjusted for subsequent cash flows.



#### Total Fund Aggregate | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Private Credit	4,796,721	2.1	2.1									
Angelo Gordon Direct Lending IV	4,796,721	2.1	100.0									
Total Real Estate	29,661,321	12.8	12.8	-0.7	-1.6	-2.2	8.2	8.5	8.2	8.4	8.9	Mar-05
NCREIF ODCE Equal Weighted				-4.9	-4.0	8.4	10.6	9.2	9.0	10.4	8.2	Mar-05
Vanguard REIT Index (Net)	4,848,340	2.1	16.3	4.3	-7.2	-26.2	-0.4	3.7	4.5		5.9	Mar-14
Spliced Vanguard REIT Benchmark				4.3	-7.1	-26.1	-0.3	3.8	4.6	6.5	6.0	Mar-14
eV US REIT Net Median				4.1	-6.6	-25.4	0.6	4.5	5.1	6.5	6.7	Mar-14
eV US REIT Net Rank				40	65	66	77	68	55	-	70	Mar-14
A.E.W Core Property Trust (Net)	15,473,017	6.7	52.2	-5.1	-3.4	7.5	9.4	8.0	7.8		8.9	Jul-13
NCREIF ODCE (net)				-5.2	-4.9	6.5	9.0	7.7	7.6	9.1	8.9	Jul-13
DRA Growth and Income Fund VIII	876,482	0.4	3.0									
DRA Growth and Income Fund IX	1,892,754	0.8	6.4									
DRA Growth and Income Fund X, LLC	3,201,839	1.4	10.8									
Carlyle Realty Partners VIII, L.P.	1,268,014	0.5	4.3									
Torchlight Debt Fund VII, L.P.	2,100,875	0.9	7.1									

Private Credit and Real Estate market values, with the exception of Vangaurd REIT and A.E.W Core Property Trust, are as of 9/30/2022 adjusted for subsequent cash flows. A.E.W. Core property Trust and Vanguard REIT market values are as of 12/31/2022



### Total Fund Aggregate | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Natural Resources (Net)	7,416,999	3.2	3.2	18.9	8.8	-0.6	6.1	7.0			6.4	Jul-17
Bloomberg Commodity Index TR USD				2.2	-2.0	16.1	12.7	6.4	6.5	-1.3	7.2	Jul-17
S&P Global Natural Resources Index TR USD				17.2	11.9	10.3	11.6	7.3	12.7	4.9	10.3	Jul-17
First Eagle Gold Fund (Net)	2,946,186	1.3	39.7	18.1	8.0	-1.3	5.8	6.8			6.3	Jul-17
FTSE Gold Mines PR USD				20.2	1.8	-15.5	-3.1	2.6	10.3	-4.7	3.4	Jul-17
S&P Global LargeMidCap Commodity and Resources GR USD				14.0	12.4	15.5	14.5	9.7	13.9	4.8	12.4	Jul-17
SSGA Global Natural Resources Index	4,470,813	1.9	60.3									
SSGA Global Natural Resources Index (Net)												
Total Infrastructure	10,278,585	4.4	4.4									
DJ Brookfield Global Infrastructure Net TR USD				9.5	-2.6	-3.9	2.3	4.9	7.5	6.7	7.5	Aug-20
BlackRock Global Renewable Power Infrastructure Fund III, L.P.	1,151,476	0.5	11.2									
JP Morgan Infrastructure Fund	9,127,108	3.9	88.8	0.0	2.5					-	4.5	Apr-22
DJ Brookfield Global Infrastructure Net TR USD				9.5	-2.6	-3.9	2.3	4.9	7.5	6.7	-6.9	Apr-22

SSGA Global Natural Resources Index was funded on 12/19/2022.JP Morgan Infrastructure Fund market value is as of 9/30/2022 adjusted for subsequent cash flows



### Total Fund Aggregate | As of December 31, 2022

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Total Private Equity	9,818,654	4.2	4.2									
Arboretum Ventures V, L.P.	1,482,245	0.6	15.1									
Arboretum Ventures VI, L.P.	11,043	0.0	0.1									
Ironsides Direct Investment Fund V, L.P.	1,527,284	0.7	15.6									
Ironsides Partnership Fund V, L.P.	908,446	0.4	9.3									
Strategic Investors Fund VIII	4,810,318	2.1	49.0									
Mesirow Financial Private Equity Fund VIII-A	1,079,318	0.5	11.0									
Total Cash	9,852,693	4.2	4.2									
NT Cash	9,852,693	4.2	100.0									

<sup>\*</sup>One or more accounts have been excluded from the composite for the purposes of performance calculations and market value.

Private Equity market values are as of 9/30/2022 adjusted for subsequent flows.



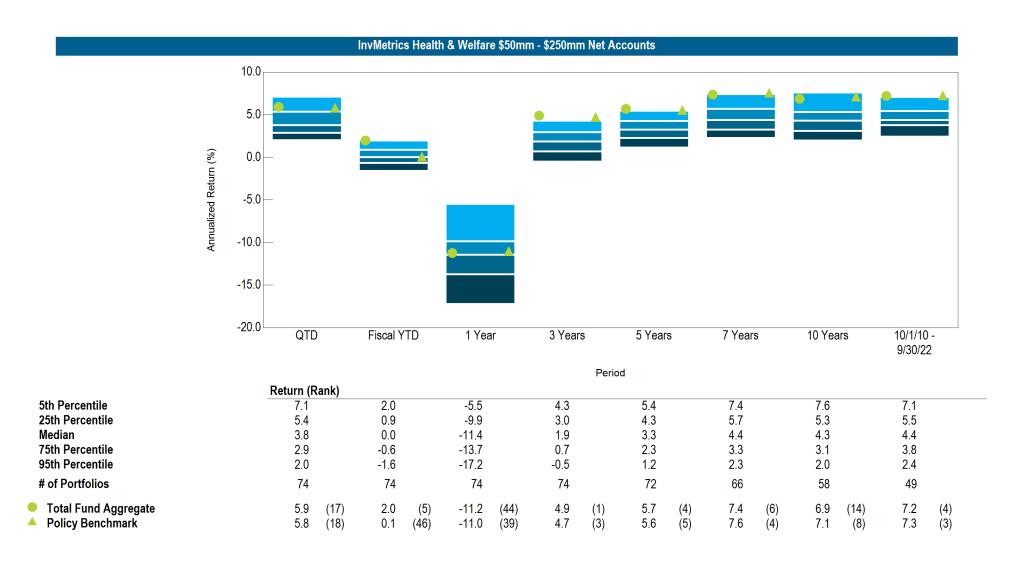
### Total Fund Aggregate | As of December 31, 2022

		Non-N	Marketable Securit					
Account Type	Account	Vintage Year	As of December 31  Commitment	, <b>2022</b> Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	IRR
Infrastructure	BlackRock Global Renewable Power Infrastructure Fund III, L.P.	2020	\$3,000,000	\$1,371,534	\$220,776	\$1,151,476	\$1,372,252	NM
	Total Infrastructure		\$3,000,000	\$1,371,534	\$220,776	\$1,151,476	\$1,372,252	-
Private Debt	Angelo Gordon Direct Lending IV	2021	\$5,000,000	\$4,633,189	\$0	\$4,796,721	\$4,796,721	NM
	Total Private Debt		\$5,000,000	\$4,633,189	\$0	\$4,796,721	\$4,796,721	-
Private Equity	Arboretum Ventures V, L.P.	2019	\$2,000,000	\$1,326,000	\$0	\$1,482,245	\$1,482,245	NM
	Arboretum Ventures VI, L.P.	2022	\$2,000,000	\$13,000	\$0	\$11,043	\$11,043	NM
	Ironsides Direct Investment Fund V, L.P.	2019	\$1,000,000	\$1,227,408	\$490,763	\$1,527,284	\$2,018,047	21.9
	Ironsides Partnership Fund V, L.P.	2020	\$1,000,000	\$646,000	\$0	\$908,446	\$908,446	34.8
	Strategic Investors Fund VIII	2017	\$2,000,000	\$1,500,000	\$301,000	\$4,810,318	\$5,111,318	37.5
	Mesirow Financial Private Equity Fund VIII-A	2019	\$3,000,000	\$1,067,800	\$0	\$1,079,318	\$1,079,318	NM
	Total Private Equity		\$11,000,000	\$5,780,208	\$791,763	\$9,818,654	\$10,610,417	-
Real Estate	DRA Growth and Income Fund VIII	2014	\$2,500,000	\$2,855,413	\$2,869,770	\$876,482	\$3,746,252	8.4
	DRA Growth and Income Fund IX	2017	\$2,500,000	\$2,645,061	\$2,485,588	\$1,892,754	\$4,378,342	18.8
	DRA Growth and Income Fund X, LLC	2020	\$4,000,000	\$3,016,754	\$473,119	\$3,201,839	\$3,674,958	29.0
	Carlyle Realty Partners VIII, L.P.	2017	\$2,000,000	\$853,040	\$463,648	\$1,268,014	\$1,731,662	32.5
	Torchlight Debt Fund VII, L.P.	2019	\$4,000,000	\$2,202,446	\$202,446	\$2,100,875	\$2,303,321	5.8
	Total Real Estate		\$15,000,000	\$11,572,714	\$6,494,571	\$9,339,964	\$15,834,535	-
US Fixed Income High Yield	Summit Credit Fund II, L.P.	2011	\$2,300,000	\$3,205,095	\$3,027,648	\$719,885	\$3,747,533	6.0
	Summit Partners Credit Fund III, L.P.	2018	\$2,500,000	\$2,888,873	\$2,765,434	\$1,101,571	\$3,867,005	18.0
	Total US Fixed Income High Yield		\$4,800,000	\$6,093,968	\$5,793,082	\$1,821,456	\$7,614,538	-
	Total Account		\$38,800,000	\$29,451,613	\$13,300,191	\$26,928,272	\$40,228,463	-

Strategic Investors Fund VIII IRR is as of 6/30/2022. All other remaining IRR's are as of 9/30/2022.



#### Total Fund Aggregate | As of December 31, 2022



**VEBA Detail** 



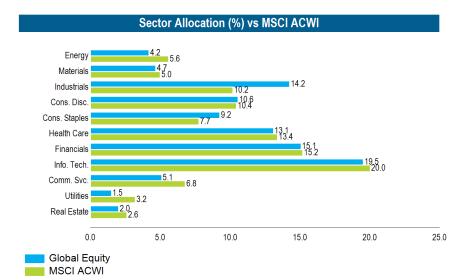
### Global Equity | As of December 31, 2022

Asset Allocation on December 31, 2022		
	Actual	Actual
Artisan International Value	\$14,882,343	12.3%
DFA Emerging Markets Value Fund	\$6,670,163	5.5%
GQG Partners Emerging Markets Equity	\$6,932,469	5.7%
Loomis Sayles Small Cap Value Equity	\$4,275,167	3.5%
Northern Trust Russell 1000 Index	\$27,703,088	22.8%
RhumbLine HEDI	\$41,541,043	34.2%
RhumbLine S&P 400 Index	\$6,647,921	5.5%
WCM Focused Growth International	\$12,683,384	10.5%
Total	\$121,335,578	100.0%



### Global Equity | As of December 31, 2022

	Global Equity Chai	racteristics	
	Portfolio	Index	Portfolio
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	121.3		109.6
Number Of Holdings	4495	2883	4561
Characteristics			
Weighted Avg. Market Cap. (\$B)	241.3	274.2	273.5
Median Market Cap (\$B)	2.7	11.9	2.3
P/E Ratio	16.9	16.1	14.8
Yield	2.3	2.4	2.5
EPS Growth - 5 Yrs.	15.5	15.1	15.5
Price to Book	3.4	3.2	3.1



Top Holdings	
APPLE INC	3.1%
MICROSOFT CORP	3.0%
BERKSHIRE HATHAWAY INC	1.0%
AMAZON.COM INC	1.0%
ALPHABET INC	0.9%
ALPHABET INC	0.9%
JOHNSON & JOHNSON	0.9%
UNITEDHEALTH GROUP INC	0.9%
ARCH CAPITAL GROUP LTD	0.8%
NOVARTIS AG	0.7%
Total	13.2%



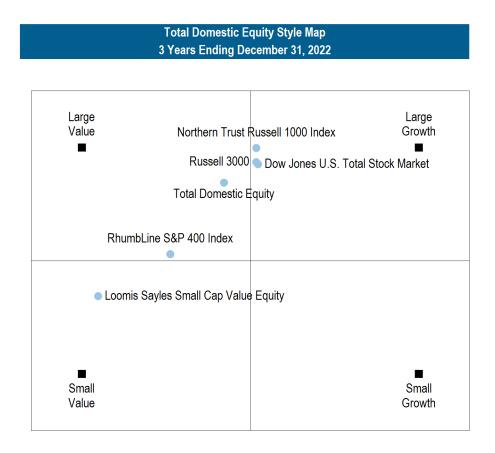
### Global Equity | As of December 31, 2022

Global Equity Region Allocation					
	vs MSCI ACWI				
Region	% of Total	% of Bench	% Diff		
North America ex U.S.	1.8%	3.0%	-1.3%		
United States	66.0%	60.4%	5.6%		
Europe Ex U.K.	13.7%	12.6%	1.2%		
United Kingdom	3.7%	3.9%	-0.2%		
Pacific Basin Ex Japan	1.3%	3.2%	-1.9%		
Japan	0.7%	5.6%	-4.9%		
Emerging Markets	11.9%	11.1%	0.8%		
Other	1.1%	0.3%	0.8%		
Total	100.0%	100.0%	0.0%		



#### Total Domestic Equity | As of December 31, 2022

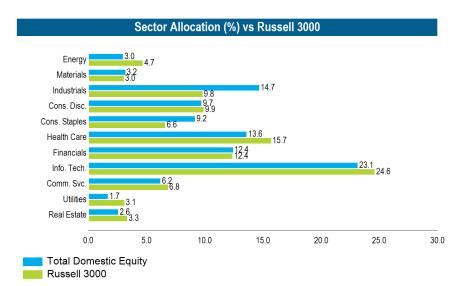
Asset Allocation on December 31, 2022						
	Actual	Actual				
Loomis Sayles Small Cap Value Equity	\$4,275,167	5.3%				
Northern Trust Russell 1000 Index	\$27,703,088	34.6%				
RhumbLine HEDI	\$41,541,043	51.8%				
RhumbLine S&P 400 Index	\$6,647,921	8.3%				
Total	\$80,167,218	100.0%				





#### Total Domestic Equity | As of December 31, 2022

Total Domestic Equity Characteristics						
	Portfolio	Index	Portfolio			
	Q4-22	Q4-22	Q3-22			
Market Value						
Market Value (\$M)	80.2		73.9			
Number Of Holdings	1225	2960	1237			
Characteristics						
Weighted Avg. Market Cap. (\$B)	325.5	360.3	360.4			
Median Market Cap (\$B)	9.0	2.5	8.4			
P/E Ratio	19.4	18.5	18.4			
Yield	1.7	1.7	1.8			
EPS Growth - 5 Yrs.	16.2	17.2	16.7			
Price to Book	3.9	3.6	3.7			

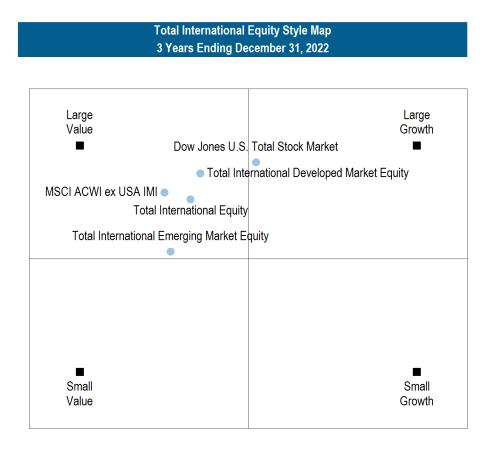


Top Holdings	
APPLE INC	4.7%
MICROSOFT CORP	4.5%
BERKSHIRE HATHAWAY INC	1.5%
AMAZON.COM INC	1.5%
ALPHABET INC	1.4%
ALPHABET INC	1.4%
JOHNSON & JOHNSON	1.3%
UNITEDHEALTH GROUP INC	1.3%
PROCTER & GAMBLE CO (THE)	1.0%
VISA INC	1.0%
Total	19.6%



#### Total International Equity | As of December 31, 2022

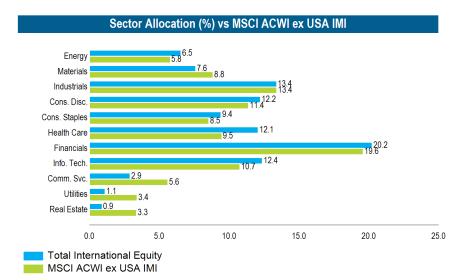
Asset Allocation on December 31, 2022						
	Actual	Actual				
Artisan International Value	\$14,882,343	36.1%				
DFA Emerging Markets Value Fund	\$6,670,163	16.2%				
GQG Partners Emerging Markets Equity	\$6,932,469	16.8%				
WCM Focused Growth International	\$12,683,384	30.8%				
Total	\$41,168,360	100.0%				





### Total International Equity | As of December 31, 2022

Total International Equity Characteristics							
	Portfolio	Index	Portfolio				
	Q4-22	Q4-22	Q3-22				
Market Value							
Market Value (\$M)	41.2		35.7				
Number Of Holdings	3286	6585	3339				
Characteristics							
Weighted Avg. Market Cap. (\$B)	72.2	69.8	66.0				
Median Market Cap (\$B)	0.5	1.6	0.5				
P/E Ratio	13.0	12.6	9.9				
Yield	3.6	3.4	4.4				
EPS Growth - 5 Yrs.	14.3	11.5	12.6				
Price to Book	2.5	2.4	2.1				



Top Holdings	
ARCH CAPITAL GROUP LTD	2.4%
NOVARTIS AG	2.2%
DANONE	2.0%
COMPASS GROUP PLC	1.7%
SAMSUNG ELECTRONICS CO LTD	1.7%
CANADIAN PACIFIC RAILWAY LTD	1.5%
ABB LTD	1.5%
NOVO NORDISK 'B'	1.4%
WILLIS TOWERS WATSON PLC	1.4%
SAFRAN SA	1.3%
Total	17.1%



### Total International Equity | As of December 31, 2022

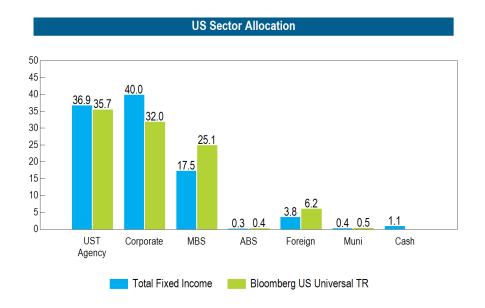
Total International Equity Region Allocation					
vs MSCI ACWI ex USA IMI					
Region	% of Total	% of Bench	% Diff		
North America ex U.S.	5.1%	7.6%	-2.6%		
United States	5.3%	0.0%	5.3%		
Europe Ex U.K.	36.4%	30.5%	5.9%		
United Kingdom	9.7%	9.8%	-0.1%		
Pacific Basin Ex Japan	3.7%	8.4%	-4.7%		
Japan	2.0%	15.0%	-13.0%		
Emerging Markets	35.2%	27.7%	7.6%		
Other	2.5%	0.9%	1.6%		
Total	100.0%	100.0%	0.0%		

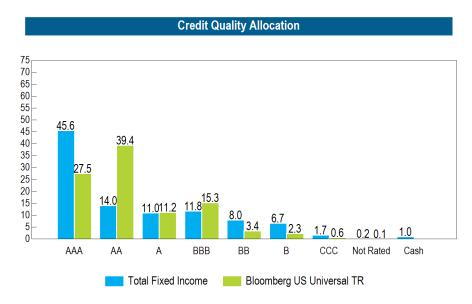


#### Total Fixed Income | As of December 31, 2022

Asset Allocation on December 31, 2022					
	Actual	Actual			
Angelo Gordon Direct Lending IV	\$4,796,721	10.9%			
IR&M 1-10 Year Index	\$4,357,052	9.9%			
Northern Trust 1-5 Year Credit Bond Index Fund	\$3,961,680	9.0%			
Northern Trust Barclays Aggregate Bond Index	\$22,447,430	51.0%			
Sky Harbor High Yield	\$6,654,805	15.1%			
Summit Credit Fund II, L.P.	\$719,885	1.6%			
Summit Partners Credit Fund III, L.P.	\$1,101,571	2.5%			
Total	\$44,039,144	100.0%			

Total Fixed Income Fixed Income Characteristics vs. Bloomberg US Universal TR							
	Portfolio	Index	Portfolio				
	Q4-22	Q4-22	Q3-22				
Fixed Income Characteristics	Fixed Income Characteristics						
Yield to Maturity	5.0	5.1	5.9				
Average Duration	5.5	6.0	4.8				
Average Quality	Α	AA	Α				
Weighted Average Maturity 7.1 12.2 6.8							







Retirement System and VEBA Portfolio Reviews



### RhumbLine HEDI | As of December 31, 2022

Account Information				
Account Name	RhumbLine HEDI			
Account Structure	Separate Account			
Investment Style	Passive			
Inception Date	3/01/20			
Account Type	US Equity			
Benchmark	Russell 1000 HEDI Moderate GR USD			
Universe	eV US Large Cap Core Equity Gross			

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
RhumbLine HEDI	8.6	-15.1					11.5	Mar-20
RhumbLine HEDI (Net)	8.6	-15.1					11.4	
Russell 1000 HEDI Moderate GR USD	8.6	-15.1	8.1	10.7	12.5	13.7	11.5	Mar-20
eV US Large Cap Core Equity Gross Median	8.6	-16.0	8.0	9.4	11.3	12.5	11.8	Mar-20
eV US Large Cap Core Equity Gross Rank	51	42					55	Mar-20

Top 10 Holdings			
MICROSOFT CORP	5.3%		
APPLE INC	5.3%		
BERKSHIRE HATHAWAY INC	1.8%		
ALPHABET INC	1.8%		
ALPHABET INC	1.7%		
JOHNSON & JOHNSON	1.7%		
UNITEDHEALTH GROUP INC	1.6%		
AMAZON.COM INC	1.4%		
PROCTER & GAMBLE CO (THE)	1.3%		
VISA INC	1.2%		

Midnibelie Hebr   As of Seconds of Lore						
RhumbLine HEDI Characteristics						
	Portfolio	Index	Portfolio			
	Q4-22	Q4-22	Q3-22			
Market Value						
Market Value (\$M)	119.1		109.7			
Number Of Holdings	232	1010	230			
Characteristics						
Weighted Avg. Market Cap. (\$B)	367.2	381.2	403.4			
Median Market Cap (\$B)	34.4	12.9	32.1			
P/E Ratio	22.1	19.1	21.0			
Yield	1.6	1.7	1.7			
EPS Growth - 5 Yrs.	15.3	17.3	16.0			
Price to Book	4.8	3.8	4.5			
Sector Distribution						
Energy	0.9	4.5	0.8			
Materials	2.7	3.0	2.6			
Industrials	16.8	9.4	16.3			
Consumer Discretionary	9.2	9.9	9.9			
Consumer Staples	12.2	6.8	11.7			
Health Care	13.1	15.6	12.7			
Financials	11.9	12.1	11.7			
Information Technology	24.6	25.4	25.1			
Communication Services	6.6	7.1	7.4			
Utilities	0.3	3.1	0.3			
Real Estate	1.3	3.1	1.5			



### Northern Trust Russell 1000 Index | As of December 31, 2022

Account Information					
Account Name	Northern Trust Russell 1000 Index				
Account Structure	Commingled Fund				
Investment Style	Passive				
Inception Date	7/01/06				
Account Type	US Stock Large Cap Core				
Benchmark	Russell 1000				
Universe	eV US Large Cap Core Equity Gross				

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Northern Trust Russell 1000 Index	7.2	-19.1	7.3	9.1	11.3	12.4	9.1	Jul-06
Northern Trust Russell 1000 Index (Net)	7.2	-19.1	7.3	9.1	11.2	12.3	9.1	
Russell 1000	7.2	-19.1	7.3	9.1	11.3	12.4	9.1	Jul-06
eV US Large Cap Core Equity Gross Median	8.6	-16.0	8.0	9.4	11.3	12.5	9.4	Jul-06
eV US Large Cap Core Equity Gross Rank	75	78	65	58	54	55	63	Jul-06

Top 10 Holdings			
APPLE INC	5.5%		
MICROSOFT CORP	5.1%		
AMAZON.COM INC	2.1%		
BERKSHIRE HATHAWAY INC	1.6%		
ALPHABET INC	1.5%		
UNITEDHEALTH GROUP INC	1.4%		
ALPHABET INC	1.3%		
JOHNSON & JOHNSON	1.3%		
EXXON MOBIL CORP	1.3%		
JPMORGAN CHASE & CO	1.1%		

	• • · · · · · · · · · ·	7.0 0. D 000	
Northern Trust	Russell 1000	Index Characte	ristics
	Portfolio	Index	Portfolio
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	58.6		54.6
Number Of Holdings	1008	1010	1018
Characteristics			
Weighted Avg. Market Cap. (\$B)	381.5	381.2	425.3
Median Market Cap (\$B)	12.9	12.9	12.3
P/E Ratio	18.8	19.1	17.8
Yield	1.7	1.7	1.8
EPS Growth - 5 Yrs.	17.3	17.3	17.7
Price to Book	3.8	3.8	3.7
Sector Distribution			
Energy	5.2	4.5	4.7
Materials	2.9	3.0	2.7
Industrials	9.3	9.4	8.5
Consumer Discretionary	9.9	9.9	11.5
Consumer Staples	6.8	6.8	6.4
Health Care	15.5	15.6	14.7
Financials	12.0	12.1	11.4
Information Technology	25.1	25.4	25.9
Communication Services	7.1	7.1	7.8
Utilities	3.0	3.1	2.9
Real Estate	3.1	3.1	3.2



### Northern Trust S&P 400 MidCap Index | As of December 31, 2022

Account Information					
Account Name	Northern Trust S&P 400 MidCap Index				
Account Structure	Commingled Fund				
Investment Style	Passive				
Inception Date	6/01/07				
Account Type	US Stock Mid Cap Core				
Benchmark	S&P 400 MidCap				
Universe	eV US Mid Cap Equity Gross				

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Northern Trust S&P 400 MidCap Index	10.8	-13.1	7.2	6.7	9.9	10.8	8.2	Jun-07
Northern Trust S&P 400 MidCap Index (Net)	10.8	-13.1	7.2	6.7	9.9	10.7	-	
S&P 400 MidCap	10.8	-13.1	7.2	6.7	9.9	10.8	8.1	Jun-07
eV US Mid Cap Equity Gross Median	9.1	-15.1	6.7	8.0	10.4	11.5	8.6	Jun-07
eV US Mid Cap Equity Gross Rank	35	42	43	74	58	70	65	Jun-07

Top 10 Holdings					
FAIR ISAAC CORPORATION	0.7%				
FIRST HORIZON CORP	0.6%				
UNITED THERAPEUTICS CORP	0.6%				
HUBBELL INC	0.6%				
RPM INTERNATIONAL INC	0.6%				
CARLISLE COS INC	0.6%				
RELIANCE STEEL & ALUMINUM CO	0.6%				
TORO CO (THE)	0.6%				
AECOM	0.6%				
NEUROCRINE BIOSCIENCES INC	0.6%				

Northern Trust S&P 400 MidCap Index Characteristics							
Northern Trust Se	Portfolio	Index Charac	Portfolio				
	Q4-22	Q4-22	Q3-22				
Market Value	4,22	3,122	40.22				
Market Value (\$M)	10.1		9.1				
Number Of Holdings	403	401	403				
Characteristics							
Weighted Avg. Market Cap. (\$B)	6.6	6.7	6.3				
Median Market Cap (\$B)	5.2	5.2	4.6				
P/E Ratio	13.6	13.5	12.7				
Yield	1.8	1.8	2.0				
EPS Growth - 5 Yrs.	18.2	18.4	18.5				
Price to Book	2.5	2.5	2.4				
Sector Distribution							
Energy	3.8	4.0	3.8				
Materials	6.3	6.9	6.3				
Industrials	19.2	19.1	18.1				
Consumer Discretionary	13.3	14.0	12.8				
Consumer Staples	3.9	4.6	3.9				
Health Care	9.9	10.2	9.9				
Financials	14.7	14.8	15.1				
Information Technology	11.6	12.9	12.1				
Communication Services	2.0	2.0	1.8				
Utilities	4.0	3.9	3.8				
Real Estate	7.9	7.7	7.8				



### Loomis Sayles Small Cap Value | As of December 31, 2022

Account Information						
Account Name	Loomis Sayles Small Cap Value					
Account Structure	Separate Account					
Investment Style	Active					
Inception Date	4/01/97					
Account Type	US Stock Small Cap Value					
Benchmark	Russell 2000 Value					
Universe	eV US Small Cap Value Equity Gross					

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Loomis Sayles Small Cap Value	11.9	-10.8	5.9	4.7	8.5	9.6	10.4	Apr-97
Loomis Sayles Small Cap Value (Net)	11.7	-11.4	5.1	4.0	7.8	8.9		
Russell 2000 Value	8.4	-14.5	4.7	4.1	8.2	8.5	8.6	Apr-97
Russell 2000	6.2	-20.4	3.1	4.1	7.9	9.0	8.0	Apr-97
eV US Small Cap Value Equity Gross Median	11.1	-11.0	7.4	5.7	9.5	10.2	10.7	Apr-97
eV US Small Cap Value Equity Gross Rank	42	48	68	73	71	64	64	Apr-97

Top 10 Holdings				
HERC HOLDINGS INC	2.1%			
WEATHERFORD INTL.	1.7%			
RAMBUS INC	1.5%			
CROCS INC	1.5%			
WINTRUST FINANCIAL CORP.	1.5%			
NORTHERN OIL AND GAS INC	1.5%			
UNITED THERAPEUTICS CORP	1.4%			
AECOM	1.3%			
HOME BANCSHARES INC	1.3%			
AMERIS BANCORP	1.2%			

Loomis Sayles Small Cap Value Characteristics							
<b>,</b>	Portfolio	Index	Portfolio				
	Q4-22	Q4-22	Q3-22				
Market Value							
Market Value (\$M)	18.9		16.9				
Number Of Holdings	117	1383	115				
Characteristics							
Weighted Avg. Market Cap. (\$B)	4.0	2.4	3.8				
Median Market Cap (\$B)	3.0	0.9	2.8				
P/E Ratio	13.3	10.5	13.9				
Yield	1.5	2.3	1.6				
EPS Growth - 5 Yrs.	17.6	13.3	14.2				
Price to Book	2.1	1.6	2.1				
Sector Distribution							
Energy	7.6	6.3	7.8				
Materials	4.3	4.0	4.0				
Industrials	22.0	13.3	20.5				
Consumer Discretionary	7.2	9.8	7.6				
Consumer Staples	3.1	2.7	2.8				
Health Care	11.8	10.5	11.7				
Financials	16.1	28.9	17.6				
Information Technology	13.5	5.6	12.8				
Communication Services	3.3	2.8	3.8				
Utilities	2.7	5.3	2.7				
Real Estate	3.0	10.7	3.6				



### Northern Trust MSCI EAFE Index | As of December 31, 2022

Account Information							
Account Name	Northern Trust MSCI EAFE Index						
Account Structure	Commingled Fund						
Investment Style	Passive						
Inception Date	12/01/14						
Account Type	Non-US Stock Developed						
Benchmark	MSCI EAFE						
Universe	eV EAFE Core Equity Gross						

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Northern Trust MSCI EAFE Index	18.5	-13.9	1.3	2.0	4.9	-	3.7	Dec-14
Northern Trust MSCI EAFE Index (Net)	18.5	-13.9	1.3	2.0	4.9		3.7	
MSCI EAFE	17.3	-14.5	0.9	1.5	4.5	4.7	3.4	Dec-14
eV EAFE Core Equity Gross Median	16.3	-16.4	1.4	1.9	5.2	6.0	4.6	Dec-14
eV EAFE Core Equity Gross Rank	8	30	51	48	62		76	Dec-14

Top 10 Holdings				
NESTLE SA, CHAM UND VEVEY	2.2%			
NOVO NORDISK 'B'	1.6%			
ROCHE HOLDING AG	1.6%			
ASML HOLDING NV	1.5%			
ASTRAZENECA PLC	1.5%			
SHELL PLC	1.4%			
LVMH MOET HENNESSY LOUIS VUITTON SE	1.4%			
NOVARTIS AG	1.4%			
TOTALENERGIES SE	1.1%			
BHP GROUP LTD	1.1%			

Northern Trust MSCI EAFE Index Characteristics								
	Portfolio	Index	Portfolio					
	Q4-22	Q4-22	Q3-22					
Market Value								
Market Value (\$M)	24.5		20.6					
Number Of Holdings	875	796	873					
Characteristics								
Weighted Avg. Market Cap. (\$B)	79.1	78.1	68.4					
Median Market Cap (\$B)	11.1	11.8	9.9					
P/E Ratio	13.8	13.7	12.3					
Yield	3.4	3.4	3.7					
EPS Growth - 5 Yrs.	9.8	9.9	11.1					
Price to Book	2.5	2.4	2.4					
Sector Distribution								
Energy	4.9	5.0	4.8					
Materials	7.8	7.8	7.3					
Industrials	14.7	15.1	14.4					
Consumer Discretionary	11.0	11.1	10.7					
Consumer Staples	10.2	10.5	10.8					
Health Care	13.5	13.6	13.5					
Financials	18.8	18.7	17.4					
Information Technology	7.7	7.8	7.6					
Communication Services	4.5	4.5	4.7					
Utilities	3.5	3.5	3.3					
Real Estate	2.6	2.6	2.7					



### First Eagle Gold Fund | As of December 31, 2022

Account Information					
Account Name	First Eagle Gold Fund				
Account Structure	Mutual Fund				
Investment Style	Active				
Inception Date	7/01/17				
Account Type	Other				
Benchmark	FTSE Gold Mines PR USD				
Universe					

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
First Eagle Gold Fund (Net)	18.1	-1.3	5.8	6.8			6.3	Jul-17
FTSE Gold Mines PR USD	20.2	-15.5	-3.1	2.6	10.3	-4.7	3.4	Jul-17
S&P Global Natural Resources Index TR USD	17.2	10.3	11.6	7.3	12.7	4.9	10.3	Jul-17

Top 10 Holdings	Top 10 Holdings					
WHEATON PRECIOUS METALS CORP	14.5%					
NEWMONT CORPORATION	12.1%					
BARRICK GOLD CORP	9.7%					
ALAMOS GOLD INC	7.2%					
AGNICO EAGLE MINES LTD	7.1%					
NOVAGOLD RESOURCES INC	7.0%					
NEWCREST MINING LTD	6.5%					
ROYAL GOLD INC	6.4%					
FRANCO-NEVADA CORP	6.0%					
B2GOLD CORP	5.6%					

11130 24910 3	ola i alla i	AS OF BOOKIN	DC: O., LULL					
First Eagle Gold Fund Characteristics								
	Portfolio	Index	Portfolio					
	Q4-22	Q4-22	Q3-22					
Market Value								
Market Value (\$M)	10.3		8.7					
Number Of Holdings	20	1508	20					
Characteristics								
Weighted Avg. Market Cap. (\$B)	15.9	295.1	14.0					
Median Market Cap (\$B)	7.7	16.4	5.5					
P/E Ratio	25.5	17.0	20.4					
Yield	2.1	2.3	2.5					
EPS Growth - 5 Yrs.	23.9	15.0	24.3					
Price to Book	1.9	3.3	1.8					
Sector Distribution								
Energy	0.0	5.7	0.0					
Materials	97.3	4.5	93.5					
Industrials	0.0	10.7	0.0					
Consumer Discretionary	0.0	10.0	0.0					
Consumer Staples	0.0	7.9	0.0					
Health Care	0.0	14.5	0.0					
Financials	0.0	14.3	0.0					
Information Technology	0.0	20.2	0.0					
Communication Services	0.0	6.4	0.0					
Utilities	0.0	3.2	0.0					
Real Estate	0.0	2.7	0.0					



### WCM Focused Growth International | As of December 31, 2022

Account Information						
Account Name	WCM Focused Growth International					
Account Structure	Commingled Fund					
Investment Style	Active					
Inception Date	8/01/17					
Account Type	Non-US Stock Developed					
Benchmark	MSCI ACWI ex USA					
Universe	eV EAFE Core Equity Gross					

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
WCM Focused Growth International (Net)	21.9	-22.6	6.6	8.8		-	9.5	Aug-17
MSCI ACWI ex USA	14.3	-16.0	0.1	0.9	4.8	3.8	2.2	Aug-17
MSCI EAFE Growth	15.0	-22.9	0.5	2.5	5.1	5.6	3.7	Aug-17
eV EAFE Core Equity Gross Median	16.3	-16.4	1.4	1.9	5.2	6.0	3.3	Aug-17
eV EAFE Core Equity Gross Rank	1	86	3	1			1	Aug-17

Top 10 Holdings					
CANADIAN PACIFIC RAILWAY LTD	5.1%				
NOVO NORDISK 'B'	4.7%				
AON PLC	4.0%				
FERRARI NV	3.6%				
EXPERIAN PLC	3.5%				
ACCENTURE PLC	3.5%				
ASTRAZENECA PLC	3.4%				
SCHNEIDER ELECTRIC SA	3.3%				
CSL LTD	3.3%				
ALCON INC	3.2%				

	•		·
WCM Focused G	rowth Interna	ational Characte	eristics
	Portfolio	Index	Portfolio
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	26.2		21.5
Number Of Holdings	36	2259	40
Characteristics			
Weighted Avg. Market Cap. (\$B)	91.7	80.7	80.2
Median Market Cap (\$B)	41.0	8.9	31.4
P/E Ratio	31.9	12.8	18.7
Yield	1.1	3.4	2.9
EPS Growth - 5 Yrs.	17.4	11.6	8.3
Price to Book	4.7	2.4	2.4
Sector Distribution			
Energy	0.0	6.0	2.1
Materials	5.2	8.4	8.4
Industrials	21.2	12.3	13.6
Consumer Discretionary	13.8	11.4	10.5
Consumer Staples	5.6	8.9	3.6
Health Care	26.1	9.8	13.0
Financials	9.4	21.0	21.5
Information Technology	18.6	10.8	13.4
Communication Services	0.0	5.9	3.7
Utilities	0.0	3.4	4.4
Real Estate	0.0	2.3	1.3



### Artisan International Value | As of December 31, 2022

Account Information						
Account Name	Artisan International Value					
Account Structure	Mutual Fund					
Investment Style	Passive					
Inception Date	2/01/21					
Account Type	International					
Benchmark	MSCI ACWI ex USA					
Universe	eV EAFE All Cap Value Net					

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Artisan International Value (Net)	19.0	-6.8					5.1	Feb-21
MSCI ACWI ex USA	14.3	-16.0	0.1	0.9	4.8	3.8	-5.1	Feb-21
MSCI EAFE Value	19.6	-5.6	0.6	0.2	3.7	3.5	2.8	Feb-21
eV EAFE All Cap Value Net Median	18.5	-8.4	1.4	1.0	4.0	4.4	0.5	Feb-21
eV EAFE All Cap Value Net Rank	43	19				-	5	Feb-21

Top 10 Holdings	
ARCH CAPITAL GROUP LTD	6.6%
NOVARTIS AG	5.9%
DANONE	5.3%
COMPASS GROUP PLC	4.7%
SAMSUNG ELECTRONICS CO LTD	4.2%
ABB LTD	4.0%
WILLIS TOWERS WATSON PLC	3.7%
SAFRAN SA	3.6%
HCL TECHNOLOGIES LTD	3.4%
HOLCIM LTD	3.1%

	•		<u> </u>					
Artisan International Value Characteristics								
	Portfolio	Index	Portfolio					
	Q4-22	Q4-22	Q3-22					
Market Value								
Market Value (\$M)	30.8		25.9					
Number Of Holdings	40	2259	39					
Characteristics								
Weighted Avg. Market Cap. (\$B)	67.0	80.7	59.9					
Median Market Cap (\$B)	29.6	8.9	25.7					
P/E Ratio	13.2	12.8	10.5					
Yield	2.6	3.4	2.6					
EPS Growth - 5 Yrs.	9.3	11.6	13.4					
Price to Book	2.3	2.4	2.1					
Sector Distribution								
Energy	1.7	6.0	1.8					
Materials	4.4	8.4	4.1					
Industrials	14.6	12.3	13.8					
Consumer Discretionary	18.2	11.4	11.0					
Consumer Staples	12.2	8.9	14.5					
Health Care	9.0	9.8	7.8					
Financials	21.4	21.0	17.3					
Information Technology	11.4	10.8	11.3					
Communication Services	4.3	5.9	5.4					
Utilities	0.0	3.4	0.0					
Real Estate	0.0	2.3	0.0					



### Dimensional Emerging Markets Value | As of December 31, 2022

Account Information						
Account Name	Dimensional Emerging Markets Value					
Account Structure	Mutual Fund					
Investment Style	Active					
Inception Date	2/01/12					
Account Type	Non-US Stock Emerging					
Benchmark	MSCI Emerging Markets					
Universe	eV Emg Mkts Equity Net					

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Dimensional Emerging Markets Value (Net)	10.3	-10.7	1.0	-0.1	6.9	1.8	2.1	Feb-12
MSCI Emerging Markets	9.7	-20.1	-2.7	-1.4	5.2	1.4	1.9	Feb-12
MSCI Emerging Markets Value NR USD	9.8	-15.8	-2.6	-1.6	4.5	0.1	0.3	Feb-12
eV Emg Mkts Equity Net Median	10.3	-19.9	-1.6	-0.7	5.4	2.1	2.7	Feb-12
eV Emg Mkts Equity Net Rank	51	11	28	38	23	59	68	Feb-12

Top 10 Holdings	
RELIANCE INDUSTRIES LTD	3.4%
CHINA CONSTRUCTION BANK CORP	2.6%
PING AN INSURANCE GROUP	1.4%
SK HYNIX INC	1.2%
HON HAI PRECISION INDUSTRY CO LTD	1.2%
INDUSTRIAL AND COMMERCIAL BANK OF CHINA LIMITED	1.1%
AXIS BANK	1.1%
PETROLEO BRASILEIRO S.A PETROBRAS	0.9%
ALIBABA GROUP HOLDING LTD	0.9%
SAMSUNG ELECTRONICS CO LTD	0.9%

Dimensional Em	erging Markets Value	Characte	ristics
	Portfolio	Index	Portfolio
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	23.5		21.3
Number Of Holdings	3174	1375	3228
Characteristics			
Weighted Avg. Market Cap. (\$B)	30.2	95.7	29.9
Median Market Cap (\$B)	0.5	6.5	0.4
P/E Ratio	7.1	11.4	6.4
Yield	5.8	3.4	6.5
EPS Growth - 5 Yrs.	12.5	14.6	11.9
Price to Book	1.6	2.6	1.6
Sector Distribution			
Energy	10.2	4.9	10.4
Materials	15.2	8.9	14.2
Industrials	9.7	6.1	9.2
Consumer Discretionary	8.5	14.1	8.1
Consumer Staples	3.0	6.4	3.1
Health Care	2.5	4.1	2.6
Financials	30.4	22.1	29.6
Information Technology	11.2	18.6	11.6
Communication Services	2.8	9.9	2.9
Utilities	1.5	3.0	1.7
Real Estate	4.7	1.9	4.9



### GQG Partners Emerging Markets Equity | As of December 31, 2022

Account Information						
Account Name	GQG Partners Emerging Markets Equity					
Account Structure	Commingled Fund					
Investment Style	Active					
Inception Date	7/01/17					
Account Type	Non-US Stock Emerging					
Benchmark	MSCI Emerging Markets					
Universe	eV Emg Mkts Equity Gross					

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
GQG Partners Emerging Markets Equity	3.4	-20.7	2.0	2.4			5.2	Jul-17
MSCI Emerging Markets	9.7	-20.1	-2.7	-1.4	5.2	1.4	1.4	Jul-17
MSCI Emerging Markets Growth NR USD	9.6	-24.0	-2.9	-1.3	5.7	2.7	2.0	Jul-17
eV Emg Mkts Equity Gross Median	10.4	-19.4	-1.2	-0.1	6.2	2.9	2.6	Jul-17
eV Emg Mkts Equity Gross Rank	98	62	24	16			13	Jul-17

Top 10 Holdings	
ITC LTD	6.5%
VALE SA	6.1%
HOUSING DEVELOPMENT FINANCE CORP LTD	5.3%
PETROLEO BRASILEIRO S.A PETROBRAS	4.5%
RELIANCE INDUSTRIES LTD	3.9%
TOTALENERGIES SE	3.9%
ITAU UNIBANCO HOLDING PN	3.0%
ICICI BANK	2.9%
CENTRAIS ELETRICAS BRASILEIRAS SA-ELETROBRAS	2.9%
PETROLEO BRASILEIRO S.A PETROBRAS	2.6%

• •	, ,		,
GQG Partners Eme	erging Market	ts Equity Chara	cteristics
	Portfolio	Index	Portfolio
	Q4-22	Q4-22	Q3-22
Market Value			
Market Value (\$M)	14.3		13.8
Number Of Holdings	69	1375	62
Characteristics			
Weighted Avg. Market Cap. (\$B)	88.0	95.7	87.0
Median Market Cap (\$B)	29.4	6.5	44.8
P/E Ratio	8.6	11.4	8.2
Yield	8.1	3.4	7.4
EPS Growth - 5 Yrs.	23.9	14.6	18.5
Price to Book	2.3	2.6	2.5
Sector Distribution			
Energy	24.7	4.9	22.5
Materials	11.2	8.9	8.5
Industrials	0.8	6.1	0.0
Consumer Discretionary	0.3	14.1	4.0
Consumer Staples	16.2	6.4	15.9
Health Care	3.3	4.1	3.2
Financials	26.6	22.1	25.4
Information Technology	4.6	18.6	8.9
Communication Services	4.9	9.9	6.3
Utilities	5.0	3.0	3.5
Real Estate	0.7	1.9	0.0



Ironsides Partnership Fund III, L.P. | As of December 31, 2022

	Account Information
Account Name	Ironsides Partnership Fund III, L.P.
Account Structure	Other
Investment Style	Active
Inception Date	6/01/15
Account Type	Private Equity
Benchmark	

Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Ironsides Partnership Fund III, L.P.	2013	\$6,000,000	\$4,011,754	\$6,120,174	\$7,046,001	\$13,166,175	\$1,988,246
	Total Account		\$6,000,000	\$4,011,754	\$6,120,174	\$7,046,001	\$13,166,175	\$1,988,246

#### **Investment Strategy**

Constitution Capital seeks investments in underlying private equity funds ranging in size from \$200 million to approximately \$1.0 billion, with a few larger potentially. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution targets a variety of fund types (domestic middle-market buyout, special situations, growth equity, distressed, and sector-specific) and will allocate amongst them opportunistically. The group will not invest in early-stage venture capital funds or mega buyout funds. The portfolio will have 12 to 15 underlying fund investments of approximately \$10 million to \$20 million each. For co-investments, it is anticipated that a total of 12-15 co-investments will each range from \$5 million to \$25 million. The enterprise values of the underlying companies are expected to range from \$100 million to \$1.5 billion.

Ironsides Partnership Fund III IRR is 27.6% as of 9/30/2022



Ironsides Co-Investment Fund III, L.P. | As of December 31, 2022

	Account Information
Account Name	Ironsides Co-Investment Fund III, L.P.
Account Structure	Other
Investment Style	Active
Inception Date	6/01/15
Account Type	Private Equity
Benchmark	

	Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment	
Private Equity	Ironsides Co-Investment Fund III, L.P.	2013	\$6,000,000	\$7,349,055	\$13,944,672	\$2,015,269	\$15,959,941	-\$1,349,055	
	Total Account		\$6,000,000	\$7,349,055	\$13,944,672	\$2,015,269	\$15,959,941	-\$1,349,055	

#### **Investment Strategy**

Constitution Capital seeks investments in underlying private equity funds ranging in size from \$200 million to approximately \$1.0 billion, with a few larger potentially. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution targets a variety of fund types (domestic middle-market buyout, special situations, growth equity, distressed, and sector-specific) and will allocate amongst them opportunistically. The group will not invest in early-stage venture capital funds or mega buyout funds. The portfolio will have 12 to 15 underlying fund investments of approximately \$10 million to \$20 million each. For co-investments, it is anticipated that a total of 12-15 co-investments will each range from \$5 million to \$25 million. The enterprise values of the underlying companies are expected to range from \$100 million to \$1.5 billion.

Ironsides Co-Investment Fund II IRR is 20.8% as of 9/30/2022



#### Ironsides Direct Investment Fund V, L.P. | As of December 31, 2022

Account Information					
Account Name	Ironsides Direct Investment Fund V, L.P.				
Account Structure	Other				
Investment Style	Active				
Inception Date	11/01/18				
Account Type	Private Equity				
Benchmark					

Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Ironsides Direct Investment Fund V, L.P.	2018	\$3,000,000	\$3,652,000	\$1,472,289	\$4,581,853	\$6,054,142	-\$652,000
	Total Account		\$3,000,000	\$3,652,000	\$1,472,289	\$4,581,853	\$6,054,142	-\$652,000

#### **Investment Strategy**

Constitution Capital seeks investments in underlying private equity funds ranging in size from \$200 million to approximately \$1.0 billion, with a few larger potentially. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution targets a variety of fund types (domestic middle-market buyout, special situations, growth equity, distressed, and sector-specific) and will allocate amongst them opportunistically. The group will not invest in early-stage venture capital funds or mega buyout funds. The portfolio will have 12 to 15 underlying fund investments of approximately \$10 million to \$20 million each. For co-investments, it is anticipated that a total of 12-15 co-investments will each range from \$5 million to \$25 million. The enterprise values of the underlying companies are expected to range from \$100 million to \$1.5 billion.

Ironsides Direct Investment Fund V IRR is 21.9% as of 9/30/2022



Ironsides Partnership Fund V, L.P. | As of December 31, 2022

Account Information					
Account Name	Ironsides Partnership Fund V, L.P.				
Account Structure	Other				
Investment Style	Passive				
Inception Date	4/01/20				
Account Type	Private Equity				
Benchmark					

Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Ironsides Partnership Fund V, L.P.	2020	\$3,000,000	\$1,940,747	\$2,746	\$2,725,338	\$2,728,084	\$1,059,253
	Total Account		\$3,000,000	\$1,940,747	\$2,746	\$2,725,338	\$2,728,084	\$1,059,253

#### **Investment Strategy**

Constitution Capital seeks investments in underlying private equity funds ranging in size from \$200 million to approximately \$1.0 billion, with a few larger potentially. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution has noted their preference to invest the majority of capital to funds of less than \$1 billion. Constitution targets a variety of fund types (domestic middle-market buyout, special situations, growth equity, distressed, and sector-specific) and will allocate amongst them opportunistically. The group will not invest in early-stage venture capital funds or mega buyout funds. The portfolio will have 12 to 15 underlying fund investments of approximately \$10 million to \$20 million each. For co-investments, it is anticipated that a total of 12-15 co-investments will each range from \$5 million to \$25 million. The enterprise values of the underlying companies are expected to range from \$100 million to \$1.5 billion.

Ironsides Partnership Fund V IRR is 34.8% as of 9/30/2022



### Strategic Investors Fund VIII L.P. | As of December 31, 2022

Account Information						
Account Name	Strategic Investors Fund VIII L.P.					
Account Structure	Other					
Investment Style	Active					
Inception Date	2/01/17					
Account Type	Private Equity					
Benchmark						

Non-Marketable Securities Overview								
As of December 31, 2022								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Strategic Investors Fund VIII L.P.	2017	\$8,000,000	\$6,532,000	\$1,736,000	\$19,241,156	\$20,977,156	\$1,468,000
	Total Account		\$8,000,000	\$6,532,000	\$1,736,000	\$19,241,156	\$20,977,156	\$1,468,000

Strategic Investors Fund VIII IRR is 37.5% as of 6/30/2022



Arboretum Ventures V, L.P. | As of December 31, 2022

Account Information						
Account Name	Arboretum Ventures V, L.P.					
Account Structure	Other					
Investment Style	Active					
Inception Date	6/01/19					
Account Type	Private Equity					
Benchmark						

Non-Marketable Securities Overview								
As of December 31, 2022								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Private Equity	Arboretum Ventures V, L.P.	2019	\$8,000,000	\$5,304,000	\$0	\$5,928,976	\$5,928,976	\$2,696,000
	Total Account		\$8,000,000	\$5,304,000	\$0	\$5,928,976	\$5,928,976	\$2,696,000

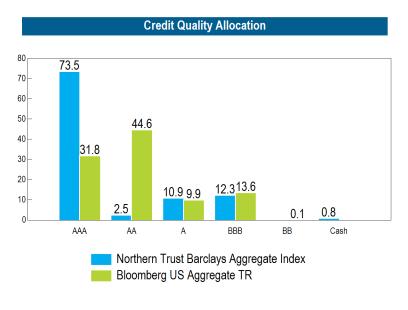


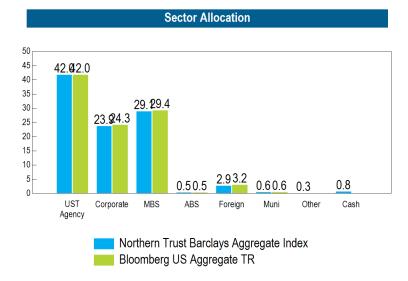
### Northern Trust Barclays Aggregate Index | As of December 31, 2022

Account Information				
Account Name	Northern Trust Barclays Aggregate Index			
Account Structure	Commingled Fund			
Investment Style	Passive			
Inception Date	7/01/98			
Account Type	US Fixed Income Investment Grade			
Benchmark	Bloomberg US Aggregate TR			
Universe	eV US Core Fixed Inc Gross			

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Northern Trust Barclays Aggregate Index	1.9	-13.0	-2.8	0.0	0.9	1.0	3.9	Jul-98
Northern Trust Barclays Aggregate Index (Net)	1.9	-13.0	-2.8	-0.1	0.8	1.0		
Bloomberg US Aggregate TR	1.9	-13.0	-2.7	0.0	0.9	1.1	3.9	Jul-98
eV US Core Fixed Inc Gross Median	1.9	-12.8	-2.1	0.5	1.4	1.5	4.3	Jul-98
eV US Core Fixed Inc Gross Rank	49	64	95	96	97	98	97	Jul-98

Northern Trust Barclays Aggregate Index Characteristics vs. Bloomberg US Aggregate TR						
	Portfolio Index Portfoli					
	Q4-22	Q4-22	Q3-22			
Fixed Income Characteristics						
Yield to Maturity	4.6	4.6	4.6			
Average Duration	6.5	6.2	6.6			
Average Quality	AA	AA	AA			
Weighted Average Maturity	8.8	13.1	8.9			





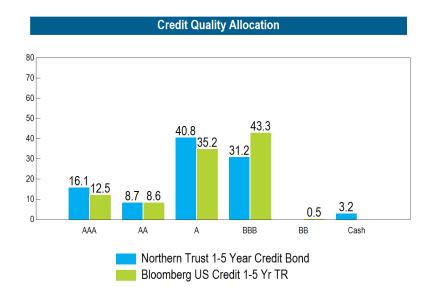


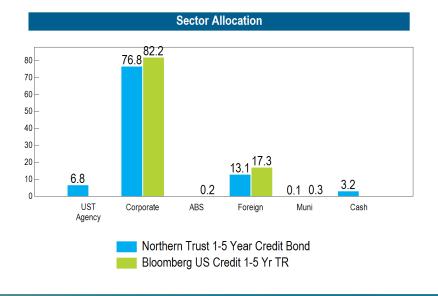
#### Northern Trust 1-5 Year Credit Bond | As of December 31, 2022

Account Information				
Account Name	Northern Trust 1-5 Year Credit Bond			
Account Structure	Commingled Fund			
Investment Style	Passive			
Inception Date	2/01/13			
Account Type	US Fixed Income Investment Grade			
Benchmark	Bloomberg US Credit 1-5 Yr TR			
Universe	eV US Short Duration Fixed Inc Gross			

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Northern Trust 1-5 Year Credit Bond	1.7	-5.8	-0.5	1.2	1.5	1.5	1.5	Feb-13
Northern Trust 1-5 Year Credit Bond (Net)	1.7	-5.9	-0.6	1.1	1.4		1.4	
Bloomberg US Credit 1-5 Yr TR	1.8	-5.6	-0.4	1.3	1.6	1.5	1.6	Feb-13
eV US Short Duration Fixed Inc Gross Median	1.1	-3.4	0.1	1.3	1.4	1.3	1.3	Feb-13
eV US Short Duration Fixed Inc Gross Rank	9	96	90	59	36	27	27	Feb-13

Northern Trust 1-5 Year Credit Bond Characteristics							
vs. Bloomberg US Credit 1-5 Yr TR							
Portfolio Index Po							
	Q4-22	Q4-22	Q3-22				
Fixed Income Characteristics							
Yield to Maturity	5.0	5.1	5.1				
Average Duration	2.6	2.7	2.7				
Average Quality	Α	А	Α				
Weighted Average Maturity 3.2 2.9							







#### Summit Partners Credit Fund II, L.P. | As of December 31, 2022

Account Information					
Account Name	Summit Partners Credit Fund II, L.P.				
Account Structure	Other				
Investment Style	Active				
Inception Date	12/01/14				
Account Type	US Fixed Income High Yield				
Benchmark					

Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
US Fixed Income High Yield	Summit Partners Credit Fund II, L.P.	2011	\$9,200,000	\$13,023,818	\$12,313,985	\$2,879,550	\$15,193,535	-\$3,823,818
	Total Account		\$9,200,000	\$13,023,818	\$12,313,985	\$2,879,550	\$15,193,535	-\$3,823,818

#### **Investment Strategy**

Summit Partners Credit Fund II ("Fund II" or the "Fund") will invest in middle market companies through directly originated, senior secured (first or second lien) loans. When in a second lien position, Summit prefers to be junior to an asset–backed loan from a bank, and ideally a senior lender that it has brought into the transaction itself, often by syndicating a portion of unitranche loan at a lower rate while keeping a portion for itself at a much higher effective interest rate. The Fund will target middle market companies of scale that have stable and recurring revenue, while avoiding highly cyclical companies with high CAPEX requirements. Borrowers' use of proceeds will vary and may include acquisition capital, or refinancing capital. The Fund will seek to reduce repayment risk through call protections and will seek upside through penny warrants.

Summit Partners Credit Fund II IRR is 6.0% as of 9/30/2022



#### Summit Partners Credit Fund III, L.P. | As of December 31, 2022

Account Information					
Account Name	Summit Partners Credit Fund III, L.P.				
Account Structure	Other				
Investment Style	Active				
Inception Date	11/01/18				
Account Type	US Fixed Income High Yield				
Benchmark					

Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
US Fixed Income High Yield	Summit Partners Credit Fund III, L.P.	2018	\$9,000,000	\$9,293,670	\$9,389,579	\$3,965,649	\$13,355,228	-\$293,670
	Total Account		\$9,000,000	\$9,293,670	\$9,389,579	\$3,965,649	\$13,355,228	-\$293,670

#### **Investment Strategy**

Summit Partners Credit Fund III ("Fund III" or the "Fund") seeks to make opportunistic investments in non-sponsored, middle-market companies with business models characterized by stable, predictable cash generation. Summit continue to believe that middle market yields provide compelling value versus the syndicated market, and together with a variety of macroeconomic factors and secular trends, this has helped to create a dynamic market opportunity for alternative capital sources. Through their disciplined approach to credit investing – combining their deep credit market expertise and proactive approach to deal origination with the reach of the broader Summit platform – they remain committed to building a uniquely comprehensive understanding of middle market companies and proactively identifying a differentiated credit investment opportunity set.

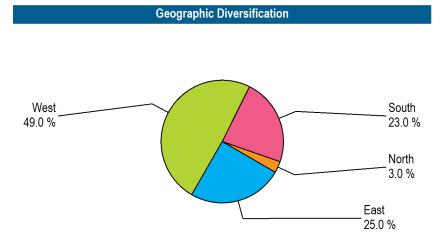
Summit Partners Credit Fund III IRR is 18.0% as of 9/30/2022



#### A.E.W Core Property Trust | As of December 31, 2022

	Account Information	
Account Name		A.E.W Core Property Trust
Account Structure		Separate Account
Investment Style		Active
Inception Date		7/01/13
Account Type		Real Estate
Benchmark		NCREIF ODCE (net)
Universe		

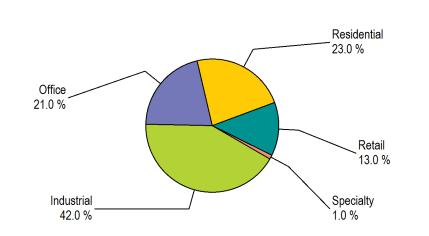
Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
A.E.W Core Property Trust (Net)	-5.1	7.6	9.4	8.0	7.9		8.9	Jul-13
NCREIF ODCE (net)	-5.2	6.5	9.0	7.7	7.6	9.1	8.9	Jul-13



Geographic Diversification: North represents Midwest region

### **Investment Strategy**

AEW employs leverage that is in-line with NFI-ODCE and currently has 10% of the net asset value in non-core investments, but in an investment with primarily core characteristics (mezzanine loan). The strategy invests mostly in the East and South, with significantly less exposure to the Midwest.



**Property Type Allocation** 

AEW Core Property Trust IRR is 8.3% as of 12/31/2022



### INVESCO Mortgage Recovery Loans | As of December 31, 2022

Account Information						
Account Name	INVESCO Mortgage Recovery Loans					
Account Structure	Other					
Investment Style	Active					
Inception Date	3/01/10					
Account Type	Real Estate					
Benchmark						

Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Real Estate	INVESCO Mortgage Recovery Loans	2008	\$11,000,000	\$7,938,905	\$10,599,669	\$40,602	\$10,640,271	\$3,061,095
	Total Account		\$11,000,000	\$7,938,905	\$10,599,669	\$40,602	\$10,640,271	\$3,061,095

#### **Investment Strategy**

Using matching funds provided by the U.S. Treasury under the Public-Private Investment Program (PPIP), the INVESCO Mortgage Recovery Fund will invest, directly or indirectly, in a broad spectrum of mortgage-related assets. The Fund will have a specific focus on legacy residential mortgage-backed securities ("RMBS") and commercial mortgage-backed securities ("CMBS"), residential mortgage and commercial real estate loans, and other distressed mortgage-related assets. The Funds will seek to construct a diverse portfolio of mortgage-related investments with sector allocations that will change as markets evolve and opportunities develop.

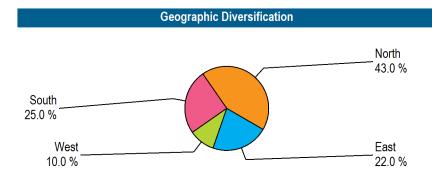
INVESCO Mortgage Recovery Loans IRR is 17.2% as of 9/30/2022

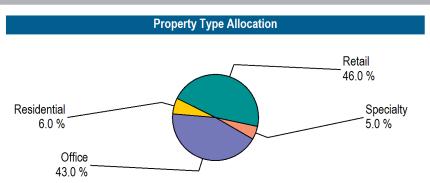


### DRA Growth and Income Fund VIII | As of December 31, 2022

Account Information						
Account Name	DRA Growth and Income Fund VIII					
Account Structure	Other					
Investment Style	Active					
Inception Date	10/01/14					
Account Type	Real Estate					
Benchmark	NCREIF ODCE					

Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Real Estate	DRA Growth and Income Fund VIII	2014	\$8,500,000	\$9,898,456	\$9,910,694	\$2,980,038	\$12,890,732	-\$1,398,456
	Total Account		\$8,500,000	\$9,898,456	\$9,910,694	\$2,980,038	\$12,890,732	-\$1,398,456





Geographic Diversification: North represents Midwest region

#### **Investment Strategy**

Fund VIII will invest in a diversified portfolio of office, retail, multi-family, industrial and other real-estate related properties and assets across the United States and its territories. The Company will seek to generate an attractive return to investors of 12-15%, net of fees, expenses and carried interest, and a significant portion of this return is expected to be from cash flow. Fund VIII will attempt to capitalize on inefficiencies in real estate markets to acquire high quality operating assets at discounts to replacement cost. Such inefficiencies can result from (i) taking advantage of sellers' strategic or financial motivations, (ii) investing in markets or properties that are perceived as out of favor by other investors, (iii) leveraging DRA's financial experience and resources to exploit pricing inefficiencies in complex transactions.

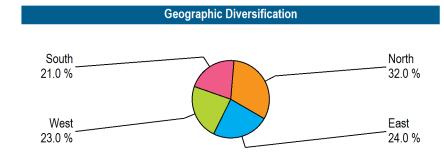
DRA Growth and Income Fund VIII IRR is 8.4% as of 9/30/2022

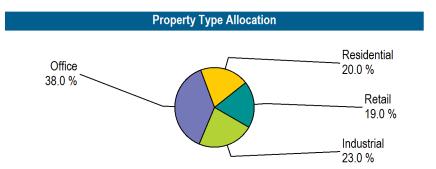


### DRA Growth and Income Fund IX | As of December 31, 2022

Account Information						
Account Name	DRA Growth and Income Fund IX					
Account Structure	Other					
Investment Style	Active					
Inception Date	1/01/17					
Account Type	Real Estate					
Benchmark	NCREIF ODCE					
Universe						

Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Real Estate	DRA Growth and Income Fund IX	2017	\$8,500,000	\$8,975,379	\$7,641,458	\$6,435,364	\$14,076,822	-\$475,379
	Total Account		\$8,500,000	\$8,975,379	\$7,641,458	\$6,435,364	\$14,076,822	-\$475,379





Geographic Diversification: North represents Midwest region

#### **Investment Strategy**

Fund IX will invest in a diversified portfolio of office, retail, multi-family, industrial and other real-estate related properties and assets across the United States and its territories. The Company will seek to generate an attractive return to investors of 12-15%, net of fees, expenses and carried interest, and a significant portion of this return is expected to be from cash flow. Fund IX will attempt to capitalize on inefficiencies in real estate markets to acquire high quality operating assets at discounts to replacement cost. Such inefficiencies can result from (i) taking advantage of sellers' strategic or financial motivations, (ii) investing in markets or properties that are perceived as out of favor by other investors, (iii) leveraging DRA's financial experience and resources to exploit pricing inefficiencies in complex transactions.

DRA Growth and Income Fund IX IRR is 18.8% as of 9/30/2022



Residential

Retail 3.0 %

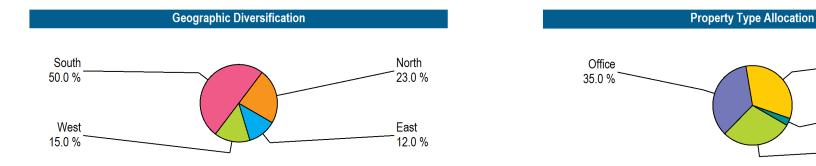
33.0 %

Industrial 29.0 %

### DRA Growth and Income Fund X, LLC | As of December 31, 2022

Account Information							
Account Name	DRA Growth and Income Fund X, LLC						
Account Structure	Commingled Fund						
Investment Style	Passive						
Inception Date	3/25/20						
Account Type	Real Estate						
Benchmark	NCREIF ODCE						
Universe							

	Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment	
Real Estate	DRA Growth and Income Fund X, LLC	2020	\$6,000,000	\$4,551,348	\$735,896	\$4,802,760	\$5,538,656	\$1,448,652	
	Total Account		\$6,000,000	\$4,551,348	\$735,896	\$4,802,760	\$5,538,656	\$1,448,652	



Geographic Diversification: North represents Midwest region

#### **Investment Strategy**

Fund X will invest in a diversified portfolio of office, retail, multi-family, industrial and other real-estate related properties and assets across the United States and its territories. The Company will seek to generate an attractive return to investors of 12-15%, net of fees, expenses and carried interest, and a significant portion of this return is expected to be from cash flow. Fund X will attempt to capitalize on inefficiencies in real estate markets to acquire high quality operating assets at discounts to replacement cost. Such inefficiencies can result from (i) taking advantage of sellers' strategic or financial motivations, (ii) investing in markets or properties that are perceived as out of favor by other investors, (iii) leveraging DRA's financial experience and resources to exploit pricing inefficiencies in complex transactions.

DRA Growth and Income Fund X IRR is 29.0% as of 9/30/2022



## Carlyle Realty Partners VIII, L.P. | As of December 31, 2022

Acco	ount Information
Account Name	Carlyle Realty Partners VIII, L.P.
Account Structure	Other
Investment Style	Active
Inception Date	9/01/17
Account Type	Real Estate
Benchmark	

Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Real Estate	Carlyle Realty Partners VIII, L.P.	2017	\$8,000,000	\$3,281,458	\$2,110,192	\$5,072,009	\$7,182,201	\$4,718,542
	Total Account		\$8,000,000	\$3,281,458	\$2,110,192	\$5,072,009	\$7,182,201	\$4,718,542

Carlyle Raalty Partners IRR is 32.5% as of 9/30/2022



## Torchlight Debt Fund VII, L.P. | As of December 31, 2022

Account Information							
Account Name	Torchlight Debt Fund VII, L.P.						
Account Structure	Other						
Investment Style	Passive						
Inception Date	10/26/20						
Account Type	Real Estate						
Benchmark							

Non-Marketable Securities Overview by Account Type								
Account Type	Account	Vintage Year	Commitment	Cumulative Takedown	Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment
Real Estate	Torchlight Debt Fund VII, L.F	P. 2019	\$9,000,000	\$4,955,503	\$455,503	\$4,726,968	\$5,182,471	\$4,044,497
	Total Account		\$9,000,000	\$4,955,503	\$455,503	\$4,726,968	\$5,182,471	\$4,044,497

Torchlight Debt Fund VII IRR is 5.8% as of 9/30/2022



## RhumbLine S&P 400 Index | As of December 31, 2022

Account Information						
Account Name	RhumbLine S&P 400 Index					
Account Structure	Separate Account					
Investment Style	Passive					
Inception Date	2/01/10					
Account Type	US Stock Mid					
Benchmark	S&P 400 MidCap					
Universe	eV US Mid Cap Equity Gross					

Portfolio Performance								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
RhumbLine S&P 400 Index	10.8	-13.0	7.2	6.7	9.9	10.9	11.9	Feb-10
RhumbLine S&P 400 Index (Net)	10.8	-13.0	7.2	6.7	9.9	10.9	11.8	
S&P 400 MidCap	10.8	-13.1	7.2	6.7	9.9	10.8	11.8	Feb-10
eV US Mid Cap Equity Gross Median	9.1	-15.1	6.7	8.0	10.4	11.5	12.4	Feb-10
eV US Mid Cap Equity Gross Rank	35	41	43	73	58	67	64	Feb-10

Top 10 Holdings	
FAIR ISAAC CORPORATION	0.7%
ISHARES CORE S&P MID-CAP ETF	0.7%
FIRST HORIZON CORP	0.6%
UNITED THERAPEUTICS CORP	0.6%
HUBBELL INC	0.6%
RPM INTERNATIONAL INC	0.6%
AECOM	0.6%
CARLISLE COS INC	0.6%
RELIANCE STEEL & ALUMINUM CO	0.6%
TORO CO (THE)	0.6%

	oo iiiaax i	, o. b o o o			
RhumbLine	S&P 400 Ind	ex Characterist	ics		
	Portfolio	Portfolio Index			
	Q4-22	Q4-22	Q3-22		
Market Value					
Market Value (\$M)	6.6		6.0		
Number Of Holdings	404	401	403		
Characteristics					
Weighted Avg. Market Cap. (\$B)	7.1	6.7	6.5		
Median Market Cap (\$B)	5.2	5.2	4.6		
P/E Ratio	13.6	13.5	12.8		
Yield	1.8	1.8	1.9		
EPS Growth - 5 Yrs.	18.2	18.4	18.5		
Price to Book	2.5	2.5	2.4		
Sector Distribution					
Energy	3.8	4.0	3.6		
Materials	6.4	6.9	6.5		
Industrials	19.2	19.1	18.8		
Consumer Discretionary	13.9	14.0	13.4		
Consumer Staples	4.1	4.6	4.1		
Health Care	10.0	10.2	10.3		
Financials	15.0	14.8	15.6		
Information Technology	11.8	12.9	12.4		
Communication Services	1.8	2.0	1.5		
Utilities	4.1	3.9	4.0		
Real Estate	7.8	7.7	8.0		

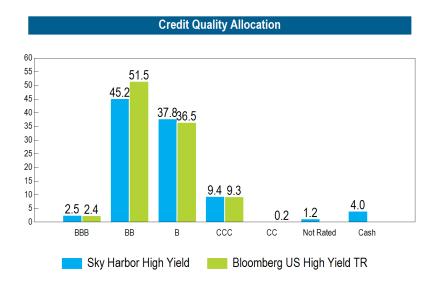


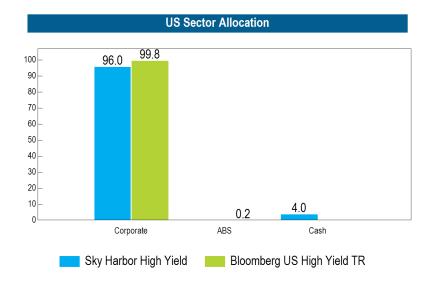
### Sky Harbor High Yield | As of December 31, 2022

Account Information					
Account Name	Sky Harbor High Yield				
Account Structure	Commingled Fund				
Investment Style	Active				
Inception Date	12/01/12				
Account Type	US Fixed Income High Yield				
Benchmark	Bloomberg US High Yield TR				
Universe	eV US High Yield Fixed Inc Gross				

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	S.I. (%)	S.I. Date
Sky Harbor High Yield	3.2	-13.2	-0.2	2.0	4.7	3.9	4.0	Dec-12
Sky Harbor High Yield (Net)	3.1	-13.4	-0.5	1.7	4.3	3.5	3.6	
Bloomberg US High Yield TR	4.2	-11.2	0.0	2.3	5.0	4.0	4.2	Dec-12
eV US High Yield Fixed Inc Gross Median	4.1	-9.5	0.8	2.8	4.9	4.3	4.4	Dec-12
eV US High Yield Fixed Inc Gross Rank	84	96	84	93	64	71	74	Dec-12

Sky Harbor High Yield Fixed Income Characteristics vs. Bloomberg US High Yield TR								
Portfolio Index Portfol								
	Q4-22	Q4-22	Q3-22					
Fixed Income Characteristics								
Yield to Maturity	8.7	8.9	9.1					
Average Duration	4.1	4.3	4.2					
Average Quality	В	В	В					
Weighted Average Maturity	5.1	5.5	5.3					







## Vanguard REIT Index | As of December 31, 2022

Account Information					
Account Name	Vanguard REIT Index				
Account Structure	Mutual Fund				
Investment Style	Active				
Inception Date	3/01/14				
Account Type	REITS				
Benchmark	Spliced Vanguard REIT Benchmark				
Universe	eV US REIT Net				

Portfolio Performance Summary								
	QTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs 1 (%)	0 Yrs (%)	S.I. (%)	S.I. Date
Vanguard REIT Index (Net)	4.3	-26.2	-0.4	3.7	4.5		5.9	Mar-14
Spliced Vanguard REIT Benchmark	4.3	-26.1	-0.3	3.8	4.6	6.5	6.0	Mar-14
eV US REIT Net Median	4.1	-25.4	0.6	4.5	5.1	6.5	6.7	Mar-14
eV US REIT Net Rank	40	66	77	68	55		70	Mar-14

Top 10 Holdings	
PROLOGIS INC	8.4%
AMERICAN TOWER CORP	8.0%
EQUINIX INC	4.8%
CROWN CASTLE INC	4.8%
PUBLIC STORAGE	3.6%
REALTY INCOME CORP.	3.2%
SIMON PROPERTY GROUP INC.	3.0%
SBA COMMUNICATIONS CORP	2.5%
WELLTOWER INC	2.4%
DIGITAL REALTY TRUST INC	2.2%

	<u> </u>					
Vanguard REIT Index Characteristics						
	Portfolio	Portfolio				
	Q4-22	Q3-22				
Market Value						
Market Value (\$M)	4.8	6.5				
Number Of Holdings	166	167				
Characteristics						
Weighted Avg. Market Cap. (\$B)	36.3	15.3				
Median Market Cap (\$B)	2.8	2.7				
P/E Ratio	24.3	20.1				
Yield	3.8	4.5				
EPS Growth - 5 Yrs.	13.3	7.1				
Price to Book	2.4	1.8				
Sector Distribution						
Energy	0.0	0.0				
Materials	0.0	0.0				
Industrials	0.0	0.0				
Consumer Discretionary	0.0	0.0				
Consumer Staples	0.0	0.0				
Health Care	0.0	0.0				
Financials	0.0	0.0				
Information Technology	0.0	0.0				
Communication Services	0.0	0.0				
Utilities	0.0	0.0				
Real Estate	99.1	99.1				



	Investment Expense Analysi	s		
	As Of December 31, 2022			
Name	Fee Schedule	Market Value	Estimated Fee Value	Estimated Fee
Total Domestic Equity		\$206,717,992		
RhumbLine HEDI	0.05% of Assets	\$119,142,865	\$59,571	0.05%
Northern Trust Russell 1000 Index	0.02% of Assets	\$58,568,408	\$11,714	0.02%
Loomis Sayles Small Cap Value	0.70% of First 30.0 Mil, 0.60% of Next 20.0 Mil, 0.50% Thereafter	\$18,947,156	\$132,630	0.70%
Northern Trust S&P 400 MidCap Index	0.02% of Assets	\$10,059,564	\$2,012	0.02%
Total International Equity		\$119,198,281		
Total International Developed Market Equity		\$81,441,545		
Northern Trust MSCI EAFE Index	0.03% of Assets	\$24,450,049	\$7,335	0.03%
WCM Focused Growth International	0.75% of Assets	\$26,195,238	\$196,464	0.75%
Artisan International Value	0.96% of Assets	\$30,796,258	\$295,644	0.96%
Total International Emerging Market Equity		\$37,756,736		
Dimensional Emerging Markets Value	0.38% of Assets	\$23,502,768	\$89,311	0.38%
GQG Partners Emerging Markets Equity	0.65% of Assets	\$14,253,968	\$92,651	0.65%
Total Fixed Income		\$72,356,232		
Total Investment Grade Bonds		\$54,682,920		
Northern Trust Barclays Aggregate Index	0.03% of Assets	\$26,112,474	\$7,834	0.03%
Short Duration Bonds		\$28,570,446		
Northern Trust 1-5 Year Credit Bond	0.05% of Assets	\$28,570,446	\$14,285	0.05%
Total High Yield Bonds		\$6,845,199		
Summit Partners Credit Fund II, L.P.	1.5% management fee on committed; 20% carried interest	\$2,879,550	\$138,000	
Summit Partners Credit Fund III, L.P.	1.5% management fee on committed; 20% carried interest	\$3,965,649	\$135,000	
Total Private Credit		\$11,512,132		
Angelo Gordon Direct Lending IV	0.90% annual management fee and 15% performance fee	\$11,512,132	\$108,000	



Name	Fee Schedule	Market Value	Estimated Fee Value	Estimated Fee
Total Real Estate		\$76,060,856		
A.E.W Core Property Trust	1.10% of First 10.0 Mil, 1.00% of Next 15.0 Mil	\$52,003,115	\$530,031	1.02%
DRA Growth and Income Fund VIII	0.90% on gross cost during investment period; 0.60% thereafter; 8% preferred return and 20% carried interest.	\$2,980,038	\$76,500	
DRA Growth and Income Fund IX	Annual asset mgmt. fee of 0.9% of the gross cost of investments during the Acquisition Period, dropping to 0.6% thereafter, with gross cost reduced by leverage in excess of 65%	\$6,435,364	\$76,500	
DRA Growth and Income Fund X, LLC	0.90% on gross cost during investment period; 0.60% thereafter; 8% preferred return and 20% carried interest.	\$4,802,760	\$54,000	
Carlyle Realty Partners VIII, L.P.	1.50% of Assets	\$5,072,009	\$76,080	1.50%
INVESCO Mortgage Recovery Loans	1.0% management fee on invested capital; 8% preferred return; 20% carried interest	\$40,602	N/A	
Torchlight Debt Fund VII, L.P.	1.50% of Assets	\$4,726,968	\$70,905	1.50%
Total Alternative Assets		\$97,979,445		
Total Natural Resources		\$15,899,183		
First Eagle Gold Fund	0.96% of Assets	\$10,311,650	\$98,992	0.96%
SSGA Global Natural Resources Index	0.13% of Assets	\$5,587,533	\$7,264	0.13%
BlackRock Global Renewable Power Infrastructure Fund III, L.P.	0.75% of available capital commitments and 1.50% of invested capital during investment period; 1.50% of invested capital thereafter.	\$3,070,607	\$80,000	
JP Morgan Infrastructure Fund	0.90% annual management fee based on NAV; 15% carried interest with a 7% preferred return	\$29,635,542	\$266,720	
Total Hedge Funds		\$4,237,855		
Sculptor Credit Opportunities	1.00% of Assets	\$4,237,855	\$42,379	1.00%



Total Private Equity		\$45,169,386		
2.09		773,103,300		
Arboretum Ventures V, L.P. dist	% Management Fee; carried interest tributions of 20% once the fund has urned all capital contributions	\$5,928,976	\$160,000	
Arboretum Ventures VI, L.P. dist	% Management Fee; carried interest tributions of 20% once the fund has urned all capital contributions	\$33,129	\$120,000	
Ironsides ('n-Investment Filad III I P	Management Fee; 8% preferred urn and 15% carried interest	\$2,015,269	\$60,000	
Ironsides Direct Investment Fund V T P	% Management Fee; 8% preferred urn and 15% carried interest	\$4,581,853	\$15,000	
Ironsides Partnership Fund III I P	Management Fee; 8% preferred urn and 5% carried interest	\$7,046,001	\$0	
Ironsides Parthershin Filing V I P	Management Fee; 8% preferred urn and 5% carried interest	\$2,725,338	\$0	
inve Strategic Investors Fund VIII L.P. mill beta 0.75	e management fee is based on the lestor's commitment. 0.95% < \$15 llion; 0.85% on commitments tween \$15 million and \$30 million; 5% > \$30 million. Blended fee of bps over 12 years	\$19,241,156	\$76,000	
Mesirow Financial Private Equity Fund VIII-A inte	1% Management Fee; 10% carried erest on Secondary and Co- estments	\$3,597,664	\$81,000	
Total Cash		\$8,369,357		
Northern Trust Cash Account		\$8,369,357		
Total		\$581,399,311	\$3,181,822	0.54%



Investment Expense Analysis As Of December 31, 2022					
Global Equity		\$121,335,578			
Total Domestic Equity		\$80,167,218			
RhumbLine HEDI	0.05% of Assets	\$41,541,043	\$20,771	0.05%	
Northern Trust Russell 1000 Index	0.03% of Assets	\$27,703,088	\$8,311	0.03%	
RhumbLine S&P 400 Index	0.02% of Assets	\$6,647,921	\$1,330	0.02%	
Loomis Sayles Small Cap Value Equity	0.70% of First 30.0 Mil, 0.60% of Next 20.0 Mil, 0.50% Thereafter	\$4,275,167	\$29,926	0.70%	
Total International Equity		\$41,168,360			
Total International Developed Market Equity		\$27,565,728			
WCM Focused Growth International	0.75% of Assets	\$12,683,384	\$95,125	0.75%	
Artisan International Value	0.96% of Assets	\$14,882,343	\$142,870	0.96%	
Total International Emerging Market Equity		\$13,602,632			
DFA Emerging Markets Value Fund	0.38% of Assets	\$6,670,163	\$25,347	0.38%	
GQG Partners Emerging Markets Equity	0.65% of Assets	\$6,932,469	\$45,061	0.65%	
Total Fixed Income		\$44,039,144			
Total Investment Grade Bonds		\$26,409,110			
Northern Trust 1-5 Year Credit Bond Index Fund	0.06% of Assets	\$3,961,680	\$2,377	0.06%	
Northern Trust Barclays Aggregate Bond Index	0.05% of Assets	\$22,447,430	\$11,224	0.05%	
Total TIPS		\$4,357,052			
IR&M 1-10 Year Index	0.05% of Assets	\$4,357,052	\$2,179	0.05%	
Total High Yield Bonds		\$8,476,261			
Sky Harbor High Yield	0.30% of Assets	\$6,654,805	\$19,964	0.30%	



Summit Credit Fund II, LP.   1.5% management fee on committed; 20% carried interest   5.19,885   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,500   \$34,706,721   \$34,170   \$34	Name	Fee Schedule	Market Value	Estimated Fee Value	Estimated Fee
Total Private Credit Fund III, L.P.   20% carried interest	Summit Credit Fund II, L.P.	•	\$719,885	\$34,500	
Angelo Gordon Direct Lending IV  D. 90% annual management fee and 15% performance fee.  \$29,661,321  Vanguard REIT Index  0.07% of Assets \$4,848,340 \$3,394 0.07%  A.E.W Core Property Trust 11.0% of First 10.0 Mil, 1.0% of Next 15.0 Mil 0.90% on gross cost during investment period; 0.60% thereafter; 8% preferred return and 20% carried interest.  Annual asset mgmt, fee of 0.9% of the gross cost of investments during the DRA Growth and Income Fund IX Acquisition Period, dropping to 0.6% 10.90% on gross cost during investment period; 0.60% thereafter; 8% preferred shapes and the gross cost of investments during the DRA Growth and Income Fund IX Acquisition Period, dropping to 0.6% 10.90% on gross cost during investment period; 0.60% thereafter; 8% preferred shapes and 20% carried interest.  DRA Growth and Income Fund X, LLC period; 0.60% thereafter; 8% preferred shapes	Summit Partners Credit Fund III, L.P.	•	\$1,101,571	\$37,500	
Total Real Estate   S29,661,321   S43,170	Total Private Credit		\$4,796,721		
Vanguard REIT Index         0.07% of Assets         \$4,848,340         \$3,394         0.07%           A.E.W Core Property Trust         1.10% of First 10.0 Mil, 1.00% of Next 15.0 Mil         \$15,473,017         \$164,730         1.06%           DRA Growth and Income Fund VIII         0.90% on gross cost during investment period; 0.60% thereafter; 8% preferred return and 20% carried interest.         \$876,482         \$22,500           DRA Growth and Income Fund IX         Acquisition Period, dropping to 0.6% thereafter, with gross cost of investments during the Acquisition Period, dropping to 0.6% thereafter, with gross cost reduced by leverage in excess of 65%         \$1,892,754         \$22,500           DRA Growth and Income Fund X, LLC         period; 0.60% thereafter; 8% preferred return and 20% carried interest.         \$3,201,839         \$36,000           Carlyle Realty Partners VIII, L.P.         1.50% of Assets         \$1,268,014         \$19,020         1.50%           Torchlight Debt Fund VII, L.P.         1.50% of Assets         \$2,100,875         \$31,513         1.50%           Total Natural Resources         \$7,416,999         \$28,283         0.96%	Angelo Gordon Direct Lending IV	•	\$4,796,721	\$43,170	
A.E.W Core Property Trust  1.10% of First 10.0 Mil, 1.00% of Next 15.0 Mil  0.90% on gross cost during investment period; 0.60% thereafter; 8% preferred return and 20% carried interest.  Annual asset mgmt. fee of 0.9% of the gross cost of investments during the Acquisition Period, dropping to 0.6% \$1,892,754 \$22,500 thereafter, with gross cost reduced by leverage in excess of 65%  DRA Growth and Income Fund X, LLC period; 0.60% thereafter; 8% preferred \$3,201,839 \$36,000 return and 20% carried interest.  Carlyle Realty Partners VIII, L.P. 1.50% of Assets \$1,268,014 \$19,020 1.50% Total Natural Resources  First Eagle Gold Fund 0.96% of Assets \$2,946,186 \$28,283 0.96%	Total Real Estate		\$29,661,321		
A.E.W Core Property Trust  1.00% of Next 15.0 Mil  0.90% on gross cost during investment period; 0.60% thereafter; 8% preferred return and 20% carried interest.  Annual asset mgmt. fee of 0.9% of the gross cost of investments during the Acquisition Period, dropping to 0.6% thereafter, with gross cost reduced by leverage in excess of 65%  0.90% on gross cost during investment  DRA Growth and Income Fund IX  Acquisition Period, dropping to 0.6% \$1,892,754 \$22,500 \$1,892,754 \$22,500 \$1,892,754 \$22,500 \$1,892,754 \$1	Vanguard REIT Index	0.07% of Assets	\$4,848,340	\$3,394	0.07%
DRA Growth and Income Fund VIII         period; 0.60% thereafter; 8% preferred return and 20% carried interest.         \$876,482         \$22,500           DRA Growth and Income Fund IX         Annual asset mgmt. fee of 0.9% of the gross cost of investments during the Acquisition Period, dropping to 0.6% thereafter, with gross cost reduced by leverage in excess of 65%         \$1,892,754         \$22,500           DRA Growth and Income Fund X, LLC         0.90% on gross cost during investment period; 0.60% thereafter; 8% preferred return and 20% carried interest.         \$3,201,839         \$36,000           Carlyle Realty Partners VIII, L.P.         1.50% of Assets         \$1,268,014         \$19,020         1.50%           Torchlight Debt Fund VII, L.P.         1.50% of Assets         \$2,100,875         \$31,513         1.50%           Total Natural Resources         \$7,416,999           First Eagle Gold Fund         0.96% of Assets         \$2,946,186         \$28,283         0.96%	A.E.W Core Property Trust	•	\$15,473,017	\$164,730	1.06%
gross cost of investments during the         DRA Growth and Income Fund IX       Acquisition Period, dropping to 0.6% thereafter, with gross cost reduced by leverage in excess of 65%       \$1,892,754       \$22,500         DRA Growth and Income Fund X, LLC       0.90% on gross cost during investment period; 0.60% thereafter; 8% preferred return and 20% carried interest.       \$3,201,839       \$36,000         Carlyle Realty Partners VIII, L.P.       1.50% of Assets       \$1,268,014       \$19,020       1.50%         Torchlight Debt Fund VII, L.P.       1.50% of Assets       \$2,100,875       \$31,513       1.50%         Total Natural Resources         First Eagle Gold Fund       0.96% of Assets       \$2,946,186       \$28,283       0.96%	DRA Growth and Income Fund VIII	period; 0.60% thereafter; 8% preferred	\$876,482	\$22,500	
DRA Growth and Income Fund X, LLC       period; 0.60% thereafter; 8% preferred return and 20% carried interest.       \$3,201,839       \$36,000         Carlyle Realty Partners VIII, L.P.       1.50% of Assets       \$1,268,014       \$19,020       1.50%         Torchlight Debt Fund VII, L.P.       1.50% of Assets       \$2,100,875       \$31,513       1.50%         Total Natural Resources       \$7,416,999         First Eagle Gold Fund       0.96% of Assets       \$2,946,186       \$28,283       0.96%	DRA Growth and Income Fund IX	gross cost of investments during the Acquisition Period, dropping to 0.6% thereafter, with gross cost reduced by	\$1,892,754	\$22,500	
Torchlight Debt Fund VII, L.P.       1.50% of Assets       \$2,100,875       \$31,513       1.50%         Total Natural Resources       \$7,416,999         First Eagle Gold Fund       0.96% of Assets       \$2,946,186       \$28,283       0.96%	DRA Growth and Income Fund X, LLC	period; 0.60% thereafter; 8% preferred	\$3,201,839	\$36,000	
Total Natural Resources         \$7,416,999           First Eagle Gold Fund         0.96% of Assets         \$2,946,186         \$28,283         0.96%	Carlyle Realty Partners VIII, L.P.	1.50% of Assets	\$1,268,014	\$19,020	1.50%
First Eagle Gold Fund 0.96% of Assets \$2,946,186 \$28,283 0.96%	Torchlight Debt Fund VII, L.P.	1.50% of Assets	\$2,100,875	\$31,513	1.50%
12,200	Total Natural Resources		\$7,416,999		
SSGA Global Natural Resources Index         0.13% of Assets         \$4,470,813         \$5,812         0.13%	First Eagle Gold Fund	0.96% of Assets	\$2,946,186	\$28,283	0.96%
	SSGA Global Natural Resources Index	0.13% of Assets	\$4,470,813	\$5,812	0.13%



Name	Fee Schedule	Market Value	Estimated Fee Value	Estimated Fee
BlackRock Global Renewable Power Infrastructure Fund III, L.P.	0.75% of available capital commitments and 1.50% of invested capital during investment period; 1.50% of invested capital thereafter.	\$1,151,476	\$30,000	
JP Morgan Infrastructure Fund	0.90% annual management fee based on NAV; 15% carried interest with a 7% preferred return	\$9,127,108	\$82,144	
Total Private Equity		\$9,818,654		
Arboretum Ventures V, L.P.	2.0% Management Fee; carried interest distributions of 20% once the fund has returned all capital contributions	\$1,482,245	\$40,000	
Arboretum Ventures VI, L.P.	2.0% Management Fee; carried interest distributions of 20% once the fund has returned all capital contributions	\$11,043	\$40,000	
Ironsides Direct Investment Fund V, L.P.	0.5% Management Fee; 8% preferred return and 15% carried interest	\$1,527,284	\$5,000	
Ironsides Partnership Fund V, L.P.	0% Management Fee; 8% preferred return and 5% carried interest	\$908,446	\$0	
Strategic Investors Fund VIII	The management fee is based on the investor's commitment. 0.95% < \$15 million; 0.85% on commitments between \$15 million and \$30 million; 0.75% > \$30 million. Blended fee of 86bps over 12 years	\$4,810,318	\$19,000	
Mesirow Financial Private Equity Fund VIII-A	0.81% Management fee; 10% carried interest on Secondary and Co-Investments	\$1,079,318	\$24,300	
Total Cash		\$9,852,693		
NT Cash		\$9,852,693		
Total		\$232,402,974	\$1,093,851	0.47%