Retirement System Summary As of December 31, 2017

	Allocation vs. Targets and	d Policy		
	Current Balance	Current Allocation	Policy	Policy Range
US Equity	\$171,116,488	33%	31%	25% - 37%
Developed Market Equity	\$71,270,371	14%	12%	9% - 15%
Emerging Market Equity	\$36,490,452	7%	6%	0% - 9%
Investment Grade Bonds	\$86,454,377	17%	19%	15% - 24%
TIPS	\$20,160,684	4%	8%	0% - 10%
Emerging Market Bonds	\$7,664,505	1%	2%	0% - 4%
High Yield Bonds	\$27,083,431	5%	3%	1% - 5%
Bank Loans	\$15,292,187	3%	2%	0% - 4%
Private Equity	\$10,391,802	2%	3%	0% - 5%
Real Estate	\$36,789,883	7%	9%	2% - 12%
Natural Resources	\$7,420,013	1%	3%	0% - 5%
Hedge Funds	\$17,073,072	3%	2%	1% - 5%
Cash	\$9,076,481	2%	0%	0% - 5%
Total	\$516,283,746	100%	100%	



	Asset Class Pe	erformance	Summ	ary							
	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Total Fund Aggregate	516,283,746	100.0	3.4	6.7	13.7	7.3	8.6	7.9	5.5	8.5	Oct-90
Total Fund Aggregate (Net of Fees)			3.3	6.6	13.5	7.2	8.4	7.6	5.3		
Policy Benchmark			3.8	7.5	14.9	7.3	8.1	7.8	5.7	8.7	Oct-90
Actual Allocation Benchmark			3.8	7.4	15.3	7.5	8.8				Oct-90
60% MSCI ACWI & 40% Barclays Aggregate			3.6	7.1	15.4	6.6	7.4	6.7	4.8	7.6	Oct-90
Total Domestic Equity	171,116,488	33.1	6.2	11.1	19.1	11.3	15.5	13.4	9.2	10.5	Oct-90
Russell 3000			6.3	11.2	21.1	11.1	15.6	13.5	8.6	10.8	Oct-90
Total International Developed Market Equity	71,270,371	13.8	4.0	9.1	26.0	8.2	7.4	5.5	2.7	8.6	Oct-95
MSCI EAFE			4.2	9.9	25.0	7.8	7.9	6.0	1.9	5.3	Oct-95
Total International Emerging Market Equity	36,490,452	7.1	7.2	15.1	35.3	9.9	4.8			5.4	Feb-12
MSCI Emerging Markets			7.4	15.9	37.3	9.1	4.3	2.6	1.7	4.7	Feb-12
Total Investment Grade Bonds	86,454,377	16.7	0.2	0.9	2.9	2.0	2.1	3.2	4.6	6.0	Oct-90
BBgBarc US Aggregate TR			0.4	1.2	3.5	2.2	2.1	3.2	4.0	6.1	Oct-90
Total TIPS	20,160,684	3.9	0.5	1.3	1.9	1.8				1.1	Nov-13
BBgBarc US TIPS TR			1.3	2.1	3.0	2.0	0.1	2.9	3.5	1.7	Nov-13
BBgBarc US TIPS 1-10 Yr TR			0.5	1.2	1.9	1.8	0.1	2.0	2.8	1.1	Nov-13
Total High Yield Bonds	27,083,431	5.2	0.9	2.9	7.9	6.4	6.0	6.6	-	9.3	Jul-09
BBgBarc US High Yield TR			0.5	2.5	7.5	6.4	5.8	7.0	8.0	10.0	Jul-09



	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Total Bank Loans	15,292,187	3.0	0.9	1.8	3.3	4.0	4.3		-	5.2	Apr-12
Credit Suisse Leveraged Loans			1.2	2.2	4.2	4.5	4.3	4.7	4.6	4.8	Apr-12
Total Emerging Market Debt (Net of Fees)	7,664,505	1.5	0.3	3.9	15.4	2.2	-3.1			-0.7	Jun-12
JP Morgan GBI EM Global Diversified TR LCL			0.8	3.0	8.9	7.1	5.8	7.3	8.3	6.9	Jun-12
Total Real Estate	36,789,883	7.1	2.0	4.1	8.3	10.7	13.1	12.8	4.7	8.1	Jul-03
NCREIF ODCE Equal Weighted			2.1	4.1	7.8	10.7	11.6	12.1	4.8	8.0	Jul-03
Total Natural Resources	7,420,013	1.4	-0.2	0.6						0.6	Jul-17
FTSE Gold Mines PR USD			1.4	5.8	9.1	11.0	-11.5	-12.7	-6.4	5.8	Jul-17
S&P Global Natural Resources Index TR USD			8.6	20.3	22.7	7.2	2.5	0.5	-0.4	20.3	Jul-17
Total Hedge Funds	17,073,072	3.3	-1.6	-2.7	-3.8	-2.5	0.9	0.6		2.4	Jul-09
HFRI Fund Weighted Composite Index			2.6	4.9	8.6	4.2	4.9	3.6	3.2	5.3	Jul-09
MSCI ACWI			5.7	11.2	24.0	9.3	10.8	8.7	4.7	11.4	Jul-09
Total Private Equity	10,391,802	2.0									
Total Cash	9,076,481	1.8									



	Trailing Performance Fiscal											
	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Total Fund Aggregate	516,283,746	100.0		3.4	6.7	13.7	7.3	8.6	7.9	5.5	8.5	Oct-90
Total Fund Aggregate (Net of Fees)				3.3	6.6	13.5	7.2	8.4	7.6	5.3		
Policy Benchmark				3.8	7.5	14.9	7.3	8.1	7.8	5.7	8.7	Oct-90
Actual Allocation Benchmark				3.8	7.4	15.3	7.5	8.8				Oct-90
60% MSCI ACWI & 40% Barclays Aggregate				3.6	7.1	15.4	6.6	7.4	6.7	4.8	7.6	Oct-90
Total Domestic Equity	171,116,488	33.1	33.1	6.2	11.1	19.1	11.3	15.5	13.4	9.2	10.5	Oct-90
Russell 3000				6.3	11.2	21.1	11.1	15.6	13.5	8.6	10.8	Oct-90
Northern Trust Russell 1000 Index	147,657,939	28.6	86.3	6.6	11.4	21.7	11.2	15.7	13.7	8.7	9.1	Jul-06
Northern Trust Russell 1000 Index (Net of Fees)				6.6	11.3	21.7	11.2	15.7	13.7	8.7	9.1	
Russell 1000				6.6	11.4	21.7	11.2	15.7	13.7	8.6	9.1	Jul-06
Loomis Sayles Small Cap Value	16,174,287	3.1	9.5	3.2	10.2	10.7	11.1	14.7	12.8	10.0	11.8	Apr-97
Loomis Sayles Small Cap Value (Net of Fees)				3.0	9.8	10.0	10.4	13.9	12.0	9.2		
Russell 2000 Value				2.0	7.3	7.8	9.5	13.0	10.8	8.2	9.8	Apr-97
Russell 2000				3.3	9.2	14.6	10.0	14.1	11.6	8.7	8.9	Apr-97
Northern Trust S&P 400 MidCap Index	7,284,262	1.4	4.3	6.3	9.7	16.2	11.1	15.0	12.9	10.0	8.8	Jun-07
Northern Trust S&P 400 MidCap Index (Net of Fees)				6.2	9.7	16.2	11.1	15.0	12.8	10.0		
S&P 400 MidCap				6.3	9.7	16.2	11.1	15.0	12.8	10.0	8.8	Jun-07



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Total International Developed Market Equity	71,270,371	13.8	13.8	4.0	9.1	26.0	8.2	7.4	5.5	2.7	8.6	Oct-95
MSCI EAFE				4.2	9.9	25.0	7.8	7.9	6.0	1.9	5.3	Oct-95
Northern Trust MSCI EAFE Index	36,742,364	7.1	51.6	3.9	9.6	25.1	8.1				6.6	Dec-14
Northern Trust MSCI EAFE Index (Net of Fees)				3.9	9.6	25.0	8.0				6.5	
MSCI EAFE				4.2	9.9	25.0	7.8	7.9	6.0	1.9	6.4	Dec-14
WCM Focused Growth International	17,206,171	3.3	24.1	5.6							7.9	Aug-17
WCM Focused Growth International (Net of Fees)				5.4							7.4	Ü
MSCI ACWI ex USA				5.0	11.5	27.2	7.8	6.8	4.9	1.8	7.5	Aug-17
Hexavest International Equity	17,321,836	3.4	24.3	2.6							3.2	Aug-17
Hexavest International Equity (Net of Fees)				2.4							3.1	
MSCI EAFE				4.2	9.9	25.0	7.8	7.9	6.0	1.9	6.8	Aug-17
Total International Emerging Market Equity	36,490,452	7.1	7.1	7.2	15.1	35.3	9.9	4.8			5.4	Feb-12
MSCI Emerging Markets				7.4	15.9	37.3	9.1	4.3	2.6	1.7	4.7	Feb-12
Dimensional Emerging Markets Value (Net of Fees)	23,469,908	4.5	64.3	7.9	13.9	33.8	9.2	3.7			3.9	Feb-12
MSCI Emerging Markets				7.4	15.9	37.3	9.1	4.3	2.6	1.7	4.7	Feb-12
GQG Partners Emerging Markets Equity	13,020,544	2.5	35.7	6.0	17.2						17.2	Jul-17
MSCI Emerging Markets				7.4	15.9	37.3	9.1	4.3	2.6	1.7	15.9	Jul-17



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Total Investment Grade Bonds	86,454,377	16.7	16.7	0.2	0.9	2.9	2.0	2.1	3.2	4.6	6.0	Oct-90
BBgBarc US Aggregate TR				0.4	1.2	3.5	2.2	2.1	3.2	4.0	6.1	Oct-90
Northern Trust Barclays Aggregate Index	53,937,468	10.4	62.4	0.4	1.2	3.5	2.2	2.1	3.2	3.9	4.9	Jul-98
Northern Trust Barclays Aggregate Index (Net of Fees)				0.3	1.2	3.4	2.1	2.0	3.1	3.9		
BBgBarc US Aggregate TR				0.4	1.2	3.5	2.2	2.1	3.2	4.0	4.9	Jul-98
Northern Trust 1-5 Year Credit Bond	32,516,909	6.3	37.6	-0.2	0.5	2.2	2.0	1.7			1.8	Feb-13
Northern Trust 1-5 Year Credit Bond (Net of Fees)				-0.2	0.5	2.1	1.9				1.7	
BBgBarc US Credit 1-5 Yr TR				-0.1	0.6	2.3	2.0	1.8	2.5	3.5	1.9	Feb-13
Total TIPS	20,160,684	3.9	3.9	0.5	1.3	1.9	1.8			-	1.1	Nov-13
BBgBarc US TIPS TR				1.3	2.1	3.0	2.0	0.1	2.9	3.5	1.7	Nov-13
BBgBarc US TIPS 1-10 Yr TR				0.5	1.2	1.9	1.8	0.1	2.0	2.8	1.1	Nov-13
IR&M 1-10 Year Index	20,160,684	3.9	100.0	0.5	1.3	1.9	1.8				1.1	Nov-13
IR&M 1-10 Year Index (Net of Fees)				0.5	1.2	1.8	1.7				1.0	
BBgBarc US TIPS 1-10 Yr TR				0.5	1.2	1.9	1.8	0.1	2.0	2.8	1.1	Nov-13
Total High Yield Bonds	27,083,431	5.2	5.2	0.9	2.9	7.9	6.4	6.0	6.6	-	9.3	Jul-09
BBgBarc US High Yield TR				0.5	2.5	7.5	6.4	5.8	7.0	8.0	10.0	Jul-09
Sky Harbor Broad High Yield Market	21,160,419	4.1	78.1	0.9	2.9	7.9	6.4	6.0			6.1	Sep-12
Sky Harbor Broad High Yield Market (Net of Fees)				8.0	2.8	7.6	6.0	5.5			5.6	
BBgBarc US High Yield TR				0.5	2.5	7.5	6.4	5.8	7.0	8.0	6.3	Sep-12
Summit Partners Credit Fund II, L.P.	5,923,012	1.1	21.9									



												,
	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Total Bank Loans	15,292,187	3.0	3.0	0.9	1.8	3.3	4.0	4.3		-	5.2	Apr-12
Credit Suisse Leveraged Loans				1.2	2.2	4.2	4.5	4.3	4.7	4.6	4.8	Apr-12
Beach Point Leveraged Loan	15,292,187	3.0	100.0	0.9	1.8	3.3	4.0	4.3			5.2	Apr-12
Beach Point Leveraged Loan (Net of Fees)				0.7	1.4	2.5	3.3	3.6			4.5	
Credit Suisse Leveraged Loans				1.2	2.2	4.2	4.5	4.3	4.7	4.6	4.8	Apr-12
Total Emerging Market Debt (Net of Fees)	7,664,505	1.5	1.5	0.3	3.9	15.4	2.2	-3.1			-0.7	Jun-12
JP Morgan GBI EM Global Diversified TR LCL				0.8	3.0	8.9	7.1	5.8	7.3	8.3	6.9	Jun-12
Stone Harbor Emerging Markets Local Currency Debt (Net of Fees)	7,664,505	1.5	100.0	0.3	3.9	15.4	2.2	-3.1		-	-0.7	Jun-12
JP Morgan GBI EM Global Diversified TR LCL				0.8	3.0	8.9	7.1	5.8	7.3	8.3	6.9	Jun-12
Total Real Estate	36,789,883	7.1	7.1	2.0	4.1	8.3	10.7	13.1	12.8	4.7	8.1	Jul-03
NCREIF ODCE Equal Weighted				2.1	4.1	7.8	10.7	11.6	12.1	4.8	8.0	Jul-03
A.E.W Core Property Trust (Net of Fees)	25,902,574	5.0	70.4	1.7	3.3	6.8	8.9				9.7	Jul-13
NCREIF ODCE (net)				1.9	3.5	6.7	9.4	10.5	11.0	4.1	10.3	Jul-13
Intercontinental Real Estate Investment Fund III	26,347	0.0	0.1									
DRA Growth and Income Fund VIII	7,161,601	1.4	19.5									
DRA Growth and Income Fund IX	2,893,037	0.6	7.9									
INVESCO Mortgage Recovery Loans	806,324	0.2	2.2									



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Total Natural Resources	7,420,013	1.4	1.4	-0.2	0.6						0.6	Jul-17
FTSE Gold Mines PR USD				1.4	5.8	9.1	11.0	-11.5	-12.7	-6.4	5.8	Jul-17
S&P Global Natural Resources Index TR USD				8.6	20.3	22.7	7.2	2.5	0.5	-0.4	20.3	Jul-17
First Eagle Gold Fund	7,420,013	1.4	100.0	-0.2	0.6						0.6	Jul-17
First Eagle Gold Fund (Net of Fees)				-0.2	0.6						0.6	
FTSE Gold Mines PR USD				1.4	5.8	9.1	11.0	-11.5	-12.7	-6.4	5.8	Jul-17
S&P Global Natural Resources Index TR USD				8.6	20.3	22.7	7.2	2.5	0.5	-0.4	20.3	Jul-17
Total Hedge Funds	17,073,072	3.3	3.3	-1.6	-2.7	-3.8	-2.5	0.9	0.6	-	2.4	Jul-09
HFRI Fund Weighted Composite Index				2.6	4.9	8.6	4.2	4.9	3.6	3.2	5.3	Jul-09
MSCI ACWI				5.7	11.2	24.0	9.3	10.8	8.7	4.7	11.4	Jul-09
36 South Kohinoor Series Three (Net of Fees)	7,510,463	1.5	44.0	-2.6	-5.0	-8.6					-7.2	Feb-15
HFRI Macro (Total) Index				2.4	2.9	2.2	0.6	1.4	0.4	1.9	-0.2	Feb-15
Tse Capital Offshore Fund, Ltd. (Net of Fees)	6,155,316	1.2	36.1	-2.7	-3.8	-4.3				-	0.4	Feb-15
HFRI Macro (Total) Index				2.4	2.9	2.2	0.6	1.4	0.4	1.9	-0.2	Feb-15
Och-Ziff Credit Opportunities (Net of Fees)	3,407,293	0.7	20.0	2.9	4.9	9.9					8.0	Jun-15
BBgBarc US High Yield TR				0.5	2.5	7.5	6.4	5.8	7.0	8.0	5.8	Jun-15
Total Private Equity	10,391,802	2.0	2.0									
Ironsides Co-Investment Fund III, L.P.	7,134,274	1.4	68.7									
Ironsides Partnership Fund III, L.P.	2,210,946	0.4	21.3									



City of Ann Arbor Employees' Retirement System

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Strategic Investors Fund VIII L.P.	1,046,581	0.2	10.1									
Total Cash	9,076,481	1.8	1.8									
Northern Trust Cash Account	9,076,481	1.8	100.0									



	Calendar Yea	ar Perforr	mance							
	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	2011 (%)	2010 (%)	2009 (%)	2008 (%)
Total Fund Aggregate	13.7	8.7	0.1	6.4	15.0	11.6	0.6	15.1	18.8	-26.3
Total Fund Aggregate (Net of Fees)	13.5	8.5	-0.1	6.1	14.7	11.4	0.3	14.8	18.5	-26.4
Policy Benchmark	14.9	8.6	-0.8	5.5	12.9	12.9	1.9	15.6	19.7	-26.0
Actual Allocation Benchmark	15.3	8.1	-0.3	6.1	15.4	12.0				
60% MSCI ACWI & 40% Barclays Aggregate	15.4	5.9	-1.0	5.0	12.3	11.5	-1.1	10.8	23.0	-25.8
Total Domestic Equity	19.1	15.7	0.2	11.7	33.5	16.8	0.5	21.7	32.5	-38.1
Russell 3000	21.1	12.7	0.5	12.6	33.6	16.4	1.0	16.9	28.3	-37.3
Northern Trust Russell 1000 Index	21.7	12.1	0.9	13.2	33.1	16.4	1.6	16.3	28.9	-37.5
Northern Trust Russell 1000 Index (Net of Fees)	21.7	12.1	0.9	13.2	33.1	16.4	1.5	16.3	28.9	-37.6
Russell 1000	21.7	12.1	0.9	13.2	33.1	16.4	1.5	16.1	28.4	-37.6
Loomis Sayles Small Cap Value	10.7	27.0	-2.4	6.4	36.1	17.0	-0.1	25.1	29.5	-31.2
Loomis Sayles Small Cap Value (Net of Fees)	10.0	26.1	-3.0	5.6	35.1	16.2	-0.8	24.3	28.5	-31.5
Russell 2000 Value	7.8	31.7	-7.5	4.2	34.5	18.0	-5.5	24.5	20.6	-28.9
Russell 2000	14.6	21.3	-4.4	4.9	38.8	16.3	-4.2	26.9	27.2	-33.8
Northern Trust S&P 400 MidCap Index	16.2	20.7	-2.2	9.8	33.5	17.9	-1.7	26.7	38.0	-36.3
Northern Trust S&P 400 MidCap Index (Net of Fees)	16.2	20.7	-2.2	9.7	33.5	17.9	-1.7	26.7	38.0	-36.3
S&P 400 MidCap	16.2	20.7	-2.2	9.8	33.5	17.9	-1.7	26.6	37.4	-36.2



	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	2011 (%)	2010 (%)	2009 (%)	2008 (%)
Total International Developed Market Equity	26.0	1.3	-0.6	-5.7	19.5	16.4	-12.4	15.5	37.6	-43.4
MSCI EAFE	25.0	1.0	-0.8	-4.9	22.8	17.3	-12.1	7.8	31.8	-43.4
Northern Trust MSCI EAFE Index	25.1	1.4	-0.5							
Northern Trust MSCI EAFE Index (Net of Fees)	25.0	1.3	-0.6							
MSCI EAFE	25.0	1.0	-0.8	-4.9	22.8	17.3	-12.1	7.8	31.8	-43.4
WCM Focused Growth International										
WCM Focused Growth International (Net of Fees)										
MSCI ACWI ex USA	27.2	4.5	-5.7	-3.9	15.3	16.8	-13.7	11.2	41.4	-45.5
Hexavest International Equity										
Hexavest International Equity (Net of Fees)										
MSCI EAFE	25.0	1.0	-0.8	-4.9	22.8	17.3	-12.1	7.8	31.8	-43.4
Total International Emerging Market Equity	35.3	15.7	-15.1	-0.3	-4.6	8.3			-	
MSCI Emerging Markets	37.3	11.2	-14.9	-2.2	-2.6	18.2	-18.4	18.9	78.5	-53.3
Dimensional Emerging Markets Value (Net of Fees)	33.8	19.8	-18.8	-4.4	-3.8					
MSCI Emerging Markets	37.3	11.2	-14.9	-2.2	-2.6	18.2	-18.4	18.9	78.5	-53.3
GQG Partners Emerging Markets Equity										
MSCI Emerging Markets	37.3	11.2	-14.9	-2.2	-2.6	18.2	-18.4	18.9	78.5	-53.3



As of December 31, 2017

	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	2011 (%)	2010 (%)	2009 (%)	2008 (%)
Total Investment Grade Bonds	2.9	2.4	0.8	5.5	-1.0	6.1	6.1	7.8	11.2	4.2
BBgBarc US Aggregate TR	3.5	2.6	0.5	6.0	-2.0	4.2	7.8	6.5	5.9	5.2
Northern Trust Barclays Aggregate Index	3.5	2.6	0.6	6.1	-2.3	4.3	7.8	6.6	6.6	3.7
Northern Trust Barclays Aggregate Index (Net of Fees)	3.4	2.5	0.5	6.0	-2.3	4.2	7.8	6.6	6.6	3.7
BBgBarc US Aggregate TR	3.5	2.6	0.5	6.0	-2.0	4.2	7.8	6.5	5.9	5.2
Northern Trust 1-5 Year Credit Bond	2.2	2.4	1.3	1.8	1.0					
Northern Trust 1-5 Year Credit Bond (Net of Fees)	2.1	2.3	1.2	1.8						
BBgBarc US Credit 1-5 Yr TR	2.3	2.6	1.1	1.9	1.2	5.5	3.0	5.4	13.5	-1.1
Total TIPS	1.9	4.1	-0.4	0.9						
BBgBarc US TIPS TR	3.0	4.7	-1.4	3.6	-8.6	7.0	13.6	6.3	11.4	-2.4
BBgBarc US TIPS 1-10 Yr TR	1.9	4.0	-0.5	0.9	-5.6	5.0	8.9	5.2	12.0	-2.4
IR&M 1-10 Year Index	1.9	4.1	-0.4	0.9						
IR&M 1-10 Year Index (Net of Fees)	1.8	3.9	-0.5	8.0						
BBgBarc US TIPS 1-10 Yr TR	1.9	4.0	-0.5	0.9	-5.6	5.0	8.9	5.2	12.0	-2.4
Total High Yield Bonds	7.9	15.7	-3.4	1.4	9.3	13.5	3.1	15.0		
BBgBarc US High Yield TR	7.5	17.1	-4.5	2.5	7.4	15.8	5.0	15.1	58.2	-26.2
Sky Harbor Broad High Yield Market	7.9	15.7	-3.4	1.4	9.3					
Sky Harbor Broad High Yield Market (Net of Fees)	7.6	15.1	-3.9	0.8	8.7					
BBgBarc US High Yield TR	7.5	17.1	-4.5	2.5	7.4	15.8	5.0	15.1	58.2	-26.2



Summit Partners Credit Fund II, L.P.

As of December 31, 2017

	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	2011 (%)	2010 (%)	2009 (%)	2008 (%)
Total Bank Loans	3.3	5.9	2.7	2.7	7.1					
Credit Suisse Leveraged Loans	4.2	9.9	-0.4	2.1	6.2	9.4	1.8	10.0	44.9	-28.8
Beach Point Leveraged Loan	3.3	5.9	2.7	2.7	7.1					
Beach Point Leveraged Loan (Net of Fees)	2.5	5.2	2.1	2.0	6.4					
Credit Suisse Leveraged Loans	4.2	9.9	-0.4	2.1	6.2	9.4	1.8	10.0	44.9	-28.8
Total Emerging Market Debt (Net of Fees)	15.4	9.0	-15.2	-8.5	-12.6					
JP Morgan GBI EM Global Diversified TR LCL	8.9	9.4	3.3	8.2	-0.3	13.7	8.4	11.4	10.3	10.8
Stone Harbor Emerging Markets Local Currency Debt (Net of Fees)	15.4	9.0	-15.2	-8.5	-12.6					
JP Morgan GBI EM Global Diversified TR LCL	8.9	9.4	3.3	8.2	-0.3	13.7	8.4	11.4	10.3	10.8
Total Real Estate	8.3	5.4	18.9	22.0	11.5	16.7	7.7	13.6	-33.3	-10.4
NCREIF ODCE Equal Weighted	7.8	9.3	15.2	12.4	13.4	11.0	16.0	16.1	-30.7	-10.4
A.E.W Core Property Trust (Net of Fees)	6.8	7.6	12.4	10.4						
NCREIF ODCE (net)	6.7	7.8	14.0	11.5	12.9	9.8	15.0	15.3	-30.4	-10.7

Intercontinental Real Estate Investment Fund III

DRA Growth and Income Fund VIII

DRA Growth and Income Fund IX

INVESCO Mortgage Recovery Loans



1	45 OI L	December 3	51, 2017
20	10	2009	2008

	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	2011 (%)	2010 (%)	2009 (%)	2008 (%)
Total Natural Resources			0.0	0.0	0.0	0.0				
FTSE Gold Mines PR USD	9.1	59.6	-21.4	-15.2	-53.2	-15.4	-15.9	29.0	29.6	-19.9
S&P Global Natural Resources Index TR USD	22.7	32.3	-24.0	-9.7	1.5	7.2	-14.9	11.0	36.1	-38.3
First Eagle Gold Fund										
First Eagle Gold Fund (Net of Fees)										
FTSE Gold Mines PR USD	9.1	59.6	-21.4	-15.2	-53.2	-15.4	-15.9	29.0	29.6	-19.9
S&P Global Natural Resources Index TR USD	22.7	32.3	-24.0	-9.7	1.5	7.2	-14.9	11.0	36.1	-38.3
Total Hedge Funds	-3.8	1.6	-5.1	5.0	7.4	1.6	-2.1	5.8		
HFRI Fund Weighted Composite Index	8.6	5.4	-1.1	3.0	9.1	6.4	-5.3	10.2	20.0	-19.0
MSCI ACWI	24.0	7.9	-2.4	4.2	22.8	16.1	-7.3	12.7	34.6	-42.2
36 South Kohinoor Series Three (Net of Fees)	-8.6	-6.3								
HFRI Macro (Total) Index	2.2	1.0	-1.3	5.6	-0.4	-0.1	-4.2	8.1	4.3	4.8
Tse Capital Offshore Fund, Ltd. (Net of Fees)	-4.3	5.3								
HFRI Macro (Total) Index	2.2	1.0	-1.3	5.6	-0.4	-0.1	-4.2	8.1	4.3	4.8
Och-Ziff Credit Opportunities (Net of Fees)	9.9	19.3								
BBgBarc US High Yield TR	7.5	17.1	-4.5	2.5	7.4	15.8	5.0	15.1	58.2	-26.2

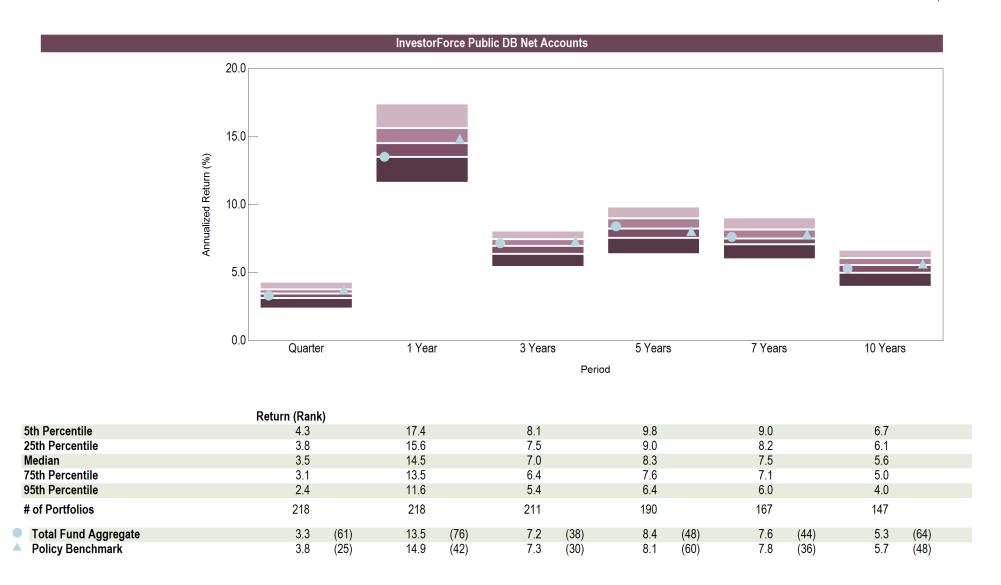
Total Private Equity

Ironsides Co-Investment Fund III, L.P.

Ironsides Partnership Fund III, L.P.

Strategic Investors Fund VIII L.P.

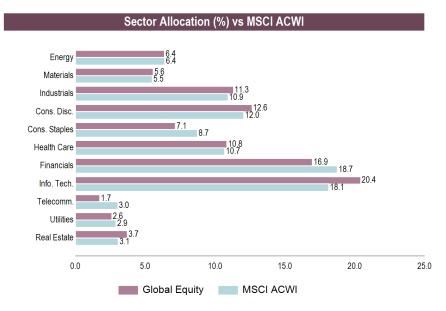






Global Equity

	Global Equity Charac	teristics	
	Portfolio	Index	Portfolio
	Q4-17	Q4-17	Q3-17
Market Value			
Market Value (\$M)	278.9		268.4
Number Of Holdings	3582	2499	4528
Characteristics			
Weighted Avg. Market Cap. (\$B)	122.8	121.5	101.2
Median Market Cap (\$B)	2.0	10.6	3.8
P/E Ratio	26.3	22.8	24.6
Yield	1.8	2.2	2.2
EPS Growth - 5 Yrs.	12.0	8.3	10.1
Price to Book	5.5	3.8	4.3
Beta (holdings; domestic)	1.1	1.1	1.1



Top 10 Holdings	
APPLE	2.4%
MICROSOFT	1.8%
AMAZON.COM	1.3%
FACEBOOK CLASS A	1.1%
BERKSHIRE HATHAWAY 'B'	1.1%
JOHNSON & JOHNSON	1.0%
JP MORGAN CHASE & CO.	1.0%
EXXON MOBIL	1.0%
ALPHABET 'C'	0.9%
ALPHABET A	0.9%
Total	12.5%



Global Equity

Global Equity Region Allocation				
	vs MSCI ACWI			
Region	% of Total	% of Bench	% Diff	
North America ex U.S.	0.6%	3.1%	-2.5%	
United States	81.9%	52.4%	29.5%	
Europe Ex U.K.	2.9%	15.0%	-12.1%	
United Kingdom	0.9%	5.8%	-4.8%	
Pacific Basin Ex Japan	1.6%	3.9%	-2.3%	
Japan	0.5%	7.9%	-7.4%	
Emerging Markets	11.4%	11.7%	-0.2%	
Other	0.1%	0.2%	-0.1%	
Total	100.0%	100.0%	0.0%	

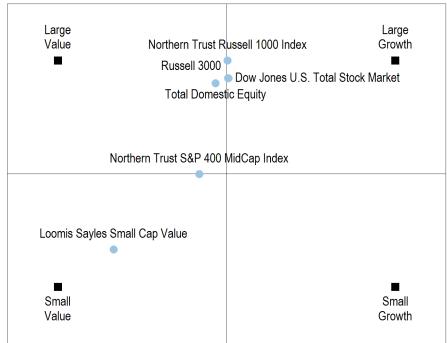


Total Domestic Equity

As of December 31, 2017

Asset Allocation on December 31, 2017				
	Actual	Actual		
Loomis Sayles Small Cap Value	\$16,174,287	9.5%		
Northern Trust Russell 1000 Index	\$147,657,939	86.3%		
Northern Trust S&P 400 MidCap Index	\$7,284,262	4.3%		
Total	\$171,116,488	100.0%		

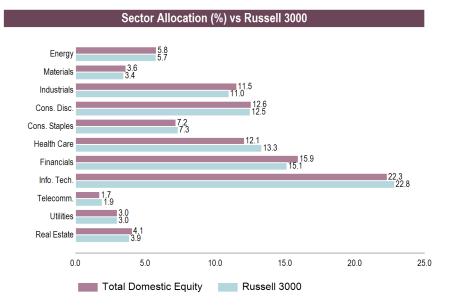
Total Domestic Equity Style Map 3 Years Ending December 31, 2017





Total Domestic Equity

Total Domestic Equity Characteristics						
	Portfolio	Index	Portfolio			
	Q4-17	Q4-17	Q3-17			
Market Value						
Market Value (\$M)	171.1		165.8			
Number Of Holdings	1228	2961	1234			
Characteristics						
Weighted Avg. Market Cap. (\$B)	140.9	150.1	127.4			
Median Market Cap (\$B)	6.2	1.7	5.9			
P/E Ratio	27.0	25.0	25.8			
Yield	1.8	1.7	1.8			
EPS Growth - 5 Yrs.	13.6	10.3	12.8			
Price to Book	5.7	4.6	5.1			
Beta (holdings; domestic)	1.1	1.1	1.1			



Top 10 Holdings	
APPLE	3.0%
MICROSOFT	2.2%
AMAZON.COM	1.6%
FACEBOOK CLASS A	1.4%
BERKSHIRE HATHAWAY 'B'	1.3%
JOHNSON & JOHNSON	1.3%
JP MORGAN CHASE & CO.	1.3%
EXXON MOBIL	1.2%
ALPHABET 'C'	1.1%
ALPHABET A	1.1%
Total	15.4%



Total International Equity

As of December 31, 2017

Asset Allocation on December 31, 2017					
	Actual	Actual			
Dimensional Emerging Markets Value	\$23,469,908	21.8%			
GQG Partners Emerging Markets Equity	\$13,020,544	12.1%			
Hexavest International Equity	\$17,321,836	16.1%			
Northern Trust MSCI EAFE Index	\$36,742,364	34.1%			
WCM Focused Growth International	\$17,206,171	16.0%			
Total	\$107,760,824	100.0%			

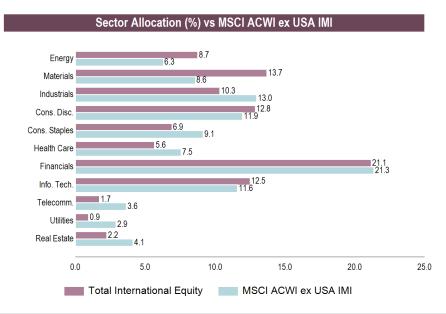
Large Value Northern Trust MSCI EAFE Index MSCI ACWI Total International Equity MSCI ACWI MSCI ACWI Total International Equity MSCI ACWI MSCI ACWI Small Value Small Growth



Total International Equity

As of December 31, 2017

Total	International Equity Cha	racteristics	
	Portfolio	Index	Portfolio
	Q4-17	Q4-17	Q3-17
Market Value			
Market Value (\$M)	107.8		102.6
Number Of Holdings	2358	6221	3300
Characteristics			
Weighted Avg. Market Cap. (\$B)	45.1	57.1	53.5
Median Market Cap (\$B)	0.5	1.6	1.5
P/E Ratio	23.4	20.7	22.3
Yield	2.2	2.6	2.8
EPS Growth - 5 Yrs.	6.7	6.9	5.6
Price to Book	3.9	2.8	3.2
Beta (holdings; domestic)	1.1	1.1	1.1



Top 10 Holdings	
CSL	1.9%
KEYENCE	1.8%
ACCENTURE CLASS A	1.8%
CHUBB	1.7%
CANADIAN PAC.RY. (NYS)	1.7%
RECKITT BENCKISER GROUP	1.6%
HDFC BANK ADR 1:3	1.6%
NESTLE 'R'	1.6%
TAIWAN SEMICON.SPN.ADR 1:5	1.5%
AIA GROUP	1.5%
Total	16.6%



Total International Equity

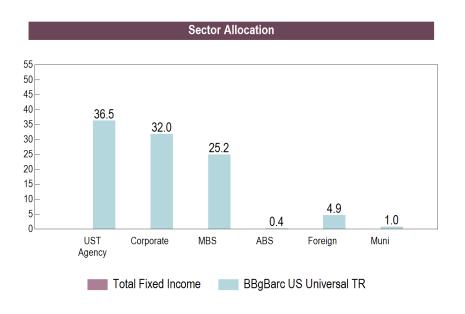
Total International Equity Region Allocation vs MSCI ACWI ex USA IMI											
North America ex U.S.	2.6%	6.6%	-4.0%								
United States	5.7%	0.0%	5.7%								
Europe Ex U.K.	15.3%	30.9%	-15.6%								
United Kingdom	4.6%	12.2%	-7.7%								
Pacific Basin Ex Japan	8.6%	8.2%	0.4%								
Japan	2.7%	17.3%	-14.6%								
Emerging Markets	60.5%	24.1%	36.4%								
Other	0.0%	0.6%	-0.6%								
Total	100.0%	100.0%	0.0%								

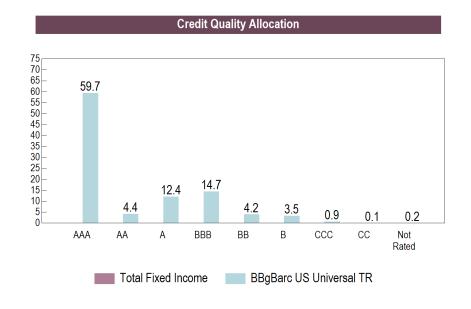


Total Fixed Income

Asset Allocation on December	· 31, 2017	
	Actual	Actual
Beach Point Leveraged Loan	\$15,292,187	9.8%
IR&M 1-10 Year Index	\$20,160,684	12.9%
Northern Trust 1-5 Year Credit Bond	\$32,516,909	20.8%
Northern Trust Barclays Aggregate Index	\$53,937,468	34.4%
Sky Harbor Broad High Yield Market	\$21,160,419	13.5%
Stone Harbor Emerging Markets Local Currency Debt	\$7,664,505	4.9%
Summit Partners Credit Fund II, L.P.	\$5,923,012	3.8%
Total	\$156,655,184	100.0%

Total Fixed Income Characteristics vs. BBgBarc US Universal TR													
	Portfolio	Index	Portfolio										
	Q4-17	Q4-17	Q3-17										
Fixed Income Characteristics													
Yield to Maturity		3.0	3.1										
Average Duration		5.8	4.4										
Average Quality		AA	Α										
Weighted Average Maturity		12.0	6.1										







Name Fee Schedule Total Domestic Equity Northern Trust Russell 1000 Index 0.03% of First \$50.0 Mil, 0.02% Thereafter 0.70% of First \$30.0 Mil, Loomis Sayles Small Cap Value 0.60% of Next \$20.0 Mil,	Market Value \$171,116,488 \$147,657,939 \$16,174,287 \$7,284,262	\$34,532 \$113,220 \$2,185	Estimated Fee 0.02% 0.70%
Northern Trust Russell 1000 Index 0.03% of First \$50.0 Mil, 0.02% Thereafter 0.70% of First \$30.0 Mil, Loomis Sayles Small Cap Value 0.60% of Next \$20.0 Mil,	\$147,657,939 \$16,174,287	\$113,220	
Northern Trust Russell 1000 Index 0.02% Thereafter 0.70% of First \$30.0 Mil, Loomis Sayles Small Cap Value 0.60% of Next \$20.0 Mil,	\$16,174,287	\$113,220	
Loomis Sayles Small Cap Value 0.60% of Next \$20.0 Mil,	. , ,		0.70%
0.50% Thereafter	\$7,284,262	¢2 195	
Northern Trust S&P 400 MidCap Index 0.03% of First \$50.0 Mil, 0.02% Thereafter		φ2,100	0.03%
Total International Equity	\$107,760,824		
Total International Developed Market Equity	\$71,270,371		
Northern Trust MSCI EAFE Index 0.07% of First \$50.0 Mil, 0.05% Thereafter	\$36,742,364	\$25,720	0.07%
WCM Focused Growth International 1.03% of Assets	\$17,206,171	\$177,224	1.03%
0.60% of First \$10.0 Mil, Hexavest International Equity 0.50% of Next \$30.0 Mil, 0.40% Thereafter	\$17,321,836	\$96,609	0.56%
Total International Emerging Market Equity	\$36,490,452		
Dimensional Emerging Markets Value 0.55% of Assets	\$23,469,908	\$129,084	0.55%
GQG Partners Emerging Markets Equity 0.54% of Assets	\$13,020,544	\$70,311	0.54%
Total Fixed Income	\$156,655,184		
Total Investment Grade Bonds	\$86,454,377		
Northern Trust Barclays Aggregate Index 0.06% of First \$100.0 Mil, 0.03% Thereafter	\$53,937,468	\$32,362	0.06%
Short Duration Bonds	\$32,516,909		
Northern Trust 1-5 Year Credit Bond 0.06% of First \$100.0 Mil, 0.03% Thereafter	\$32,516,909	\$19,510	0.06%
Total TIPS	\$20,160,684		



Name	Fee Schedule	Market Value	Estimated Fee Value	Estimated Fee
IR&M 1-10 Year Index	0.08% of Assets	\$20,160,684	\$16,129	0.08%
Total High Yield Bonds		\$27,083,431		
Sky Harbor Broad High Yield Market	0.30% of Assets	\$21,160,419	\$63,481	0.30%
Summit Partners Credit Fund II, L.P.	1.5% management fee; 20% carried interest	\$5,923,012		
Total Bank Loans		\$15,292,187		
Beach Point Leveraged Loan	0.65% of Assets	\$15,292,187	\$99,399	0.65%
Total Emerging Market Debt		\$7,664,505		
Stone Harbor Emerging Markets Local Currency Debt	0.87% of Assets	\$7,664,505	\$66,681	0.87%
Total Real Estate		\$36,789,883		
A.E.W Core Property Trust	1.10% of First \$10.0 Mil, 1.00% of Next \$15.0 Mil	\$25,902,574	\$260,000	1.00%
Intercontinental Real Estate Investment Fund III	1.25% of Assets	\$26,347	\$329	1.25%
DRA Growth and Income Fund VIII	0.90% on gross cost during investment period; 0.60% thereafter; 8% preferred return and 20% carried interest	\$7,161,601		
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% after the Acquisition Period, with gross cost reduced by leverage in excess of 65%	\$2,893,037		
INVESCO Mortgage Recovery Loans	1.0% management fee on invested capital; 8% preferred return; 20% carried interest	\$806,324		
Total Alternative Assets		\$34,884,887		
Total Natural Resources		\$7,420,013		
First Eagle Gold Fund	1.03% of Assets	\$7,420,013	\$76,426	1.03%



Name	Fee Schedule	Market Value	Estimated Fee Value	Estimated Fee
Total Hedge Funds		\$17,073,072		
36 South Kohinoor Series Three	1.75% management, 20.0% performance	\$7,510,463		
Tse Capital Offshore Fund, Ltd.	1.5% management with sliding incentive fees; 10% if returns to 10%; 20% if returns exceed 10%; 30% if returns exceed 20%	\$6,155,316		
Och-Ziff Credit Opportunities	1.25 % management fee; 20% performance fee with a 6% hurdle rate	\$3,407,293		
Ironsides Co-Investment Fund III, L.P.	0.75% management fee; 8% preferred return; 5% carried interest	\$7,134,274		
Ironsides Partnership Fund III, L.P.	0.75% management fee;8% preferred return;5% carried interest	\$2,210,946		
Strategic Investors Fund VIII L.P.	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	\$1,046,581		
Total Cash		\$9,076,481		
Northern Trust Cash Account		\$9,076,481		
Total		\$516,283,746	\$1,283,203	0.25%



VEBA Summary
As of December 31, 2017

City of Ann Arbor Retiree Health Care Benefit Plan &Trust (VEBA)

Total Fund Aggregate

	Allocation vs. Targets a	nd Policy		
	Current Balance	Current Allocation	Policy	Policy Range
US Equity	\$67,129,462	40%	33%	27% - 42%
Developed Market Equity	\$20,676,146	12%	12%	9% - 15%
Emerging Market Equity	\$12,060,837	7%	7%	0% - 10%
Investment Grade Bonds	\$23,635,460	14%	12%	8% - 20%
TIPS	\$6,646,196	4%	7%	0% - 9%
Emerging Market Bonds	\$3,740,229	2%	3%	0% - 5%
High Yield Bonds	\$9,683,758	6%	6%	4% - 8%
Bank Loans	\$5,442,059	3%	4%	0% - 6%
Private Equity	\$261,645	0%	3%	0% - 5%
Real Estate	\$15,545,049	9%	10%	2% - 12%
Natural Resources	\$2,120,072	1%	3%	0% - 5%
Cash	\$1,569,480	1%	0%	0% - 5%
Total	\$168,510,394	100%	100%	



Asset Class Performance Summary												
	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since	
Total Fund Aggregate	168,510,394	100.0	3.9	7.3	15.3	7.4	8.4	8.2	6.7	6.3	Oct-99	
Total Fund Aggregate (Net of Fees)			3.9	7.2	15.1	7.1	8.1	7.9	6.4			
Policy Benchmark			4.0	8.1	16.2	8.0	8.8	8.3	6.6	6.0	Oct-99	
Actual Allocation Benchmark			2.1	5.6	13.3	7.3	8.6	7.1	4.9	2.7	Oct-99	
60% MSCI ACWI & 40% Barclays Agg			3.6	7.1	15.4	6.6	7.4	6.7	4.8	5.4	Oct-99	
Total Domestic Equity	67,129,462	39.8	6.3	10.9	20.6	10.5	14.7	13.3	9.4	7.3	Oct-99	
Russell 3000			6.3	11.2	21.1	11.1	15.6	13.5	8.6	6.6	Oct-99	
Total International Developed Market Equity	20,676,146	12.3	4.1	8.6	27.1	8.5	8.5	6.6		10.4	Jul-09	
MSCI EAFE			4.2	9.9	25.0	7.8	7.9	6.0	1.9	8.4	Jul-09	
Total International Emerging Market Equity	12,060,837	7.2	7.0	15.4	35.7	10.1	5.0			5.6	Feb-12	
MSCI Emerging Markets			7.4	15.9	37.3	9.1	4.3	2.6	1.7	4.7	Feb-12	
Total Investment Grade Bonds	23,635,460	14.0	0.3	1.1	3.1	2.0	2.1	3.5	4.6	5.3	Oct-00	
BBgBarc US Aggregate TR			0.4	1.2	3.5	2.2	2.1	3.2	4.0	4.9	Oct-00	
BBgBarc US Universal TR			0.4	1.4	4.1	2.8	2.5	3.6	4.3	5.2	Oct-00	
Total TIPS	6,646,196	3.9	0.5	1.3	1.9	1.8				1.1	Nov-13	
BBgBarc US TIPS TR			1.3	2.1	3.0	2.0	0.1	2.9	3.5	1.7	Nov-13	
BBgBarc US TIPS 1-10 Yr TR			0.5	1.2	1.9	1.8	0.1	2.0	2.8	1.1	Nov-13	
Total High Yield Bonds*	9,683,758	5.7	0.9	2.9	7.9	6.5	6.0	6.8		9.0	Jul-09	
BBgBarc US High Yield TR	1		0.5	2.5	7.5	6.4	5.8	7.0	8.0	10.0	Jul-09	

^{*} One or more accounts have been excluded from the composite for the purposes of performance calculations and market data.



	Market Value (\$)	% of Portfolio	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Total Bank Loans	5,442,059	3.2	0.9	1.8	3.3	4.0	4.3			5.2	Apr-12
Credit Suisse Leveraged Loans	1		1.2	2.2	4.2	4.5	4.3	4.7	4.6	4.8	Apr-12
Total Emerging Markets Debt	3,740,229	2.2	0.3	3.9	15.4	2.2	-3.1			-0.7	Jun-12
JP Morgan GBI EM Global Diversified TR LCL	1		0.8	3.0	8.9	7.1	5.8	7.3	8.3	6.9	Jun-12
Total Real Estate	15,545,049	9.2	4.9	6.4	10.9	8.4	8.9	10.6	8.0	9.3	Mar-05
NCREIF ODCE Equal Weighted			2.1	4.1	7.8	10.7	11.6	12.1	4.8	7.7	Mar-05
MSCI US REIT	1		1.0	1.7	3.7	4.0	8.0	9.1	6.0		Mar-05
Total Natural Resources	2,120,072	1.3	-0.2	0.7						0.7	Jul-17
FTSE Gold Mines PR USD			1.4	5.8	9.1	11.0	-11.5	-12.7	-6.4	5.8	Jul-17
S&P Global Natural Resources Index TR USD			8.6	20.3	22.7	7.2	2.5	0.5	-0.4	20.3	Jul-17
Total Private Equity	261,645	0.2	-2.3	-6.0						-19.6	Feb-17
Total Cash	1,569,480	0.9									



		Trailing F	Performa	nce							Jecember	
	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Total Fund Aggregate	168,510,394	100.0		3.9	7.3	15.3	7.4	8.4	8.2	6.7	6.3	Oct-99
Total Fund Aggregate (Net of Fees)				3.9	7.2	15.1	7.1	8.1	7.9	6.4		
Policy Benchmark				4.0	8.1	16.2	8.0	8.8	8.3	6.6	6.0	Oct-99
Actual Allocation Benchmark				2.1	5.6	13.3	7.3	8.6	7.1	4.9	2.7	Oct-99
60% MSCI ACWI & 40% Barclays Agg				3.6	7.1	15.4	6.6	7.4	6.7	4.8	5.4	Oct-99
Total Domestic Equity	67,129,462	39.8	39.8	6.3	10.9	20.6	10.5	14.7	13.3	9.4	7.3	Oct-99
Russell 3000				6.3	11.2	21.1	11.1	15.6	13.5	8.6	6.6	Oct-99
Northern Trust Russell 1000 Index	56,618,322	33.6	84.3	6.6	11.4	21.7	11.2	15.7			15.0	Feb-12
Northern Trust Russell 1000 Index (Net of Fees)				6.6	11.3	21.6	11.1	15.6			15.0	
Russell 1000				6.6	11.4	21.7	11.2	15.7	13.7	8.6	15.1	Feb-12
RhumbLine S&P 400 Index	6,629,125	3.9	9.9	6.3	9.6	16.3	11.4	15.3	13.0		15.3	Feb-10
RhumbLine S&P 400 Index (Net of Fees)				6.3	9.6	16.3	11.4	15.2	13.0		15.2	
S&P 400 MidCap				6.3	9.7	16.2	11.1	15.0	12.8	10.0	15.1	Feb-10
Southern Sun Small Cap Equity	3,882,016	2.3	5.8	1.6	8.3	19.4	4.9	9.0	10.3	9.5	9.5	Dec-04
Southern Sun Small Cap Equity (Net of Fees)				1.4	7.9	18.7	4.0	8.0	9.3	8.7	8.7	
Russell 2000				3.3	9.2	14.6	10.0	14.1	11.6	8.7	8.5	Dec-04
Total International Developed Market Equity	20,676,146	12.3	12.3	4.1	8.6	27.1	8.5	8.5	6.6	-	10.4	Jul-09
MSCI EAFE				4.2	9.9	25.0	7.8	7.9	6.0	1.9	8.4	Jul-09
WCM Focused Growth International	10,128,099	6.0	49.0	5.6							7.9	Aug-17
WCM Focused Growth International (Net of Fees)				5.4							7.4	
MSCI ACWI ex USA				5.0	11.5	27.2	7.8	6.8	4.9	1.8	7.5	Aug-17



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Hexavest International Equity	10,548,047	6.3	51.0	2.6							3.2	Aug-17
Hexavest International Equity (Net of Fees)				2.4							3.1	
MSCI EAFE				4.2	9.9	25.0	7.8	7.9	6.0	1.9	6.8	Aug-17
Total International Emerging Market Equity	12,060,837	7.2	7.2	7.0	15.4	35.7	10.1	5.0			5.6	Feb-12
MSCI Emerging Markets				7.4	15.9	37.3	9.1	4.3	2.6	1.7	4.7	Feb-12
DFA Emerging Markets Value Fund (Net of Fees)	5,728,292	3.4	47.5	7.9	13.9	33.8	9.2	3.7			3.9	Feb-12
MSCI Emerging Markets				7.4	15.9	37.3	9.1	4.3	2.6	1.7	4.7	Feb-12
GQG Partners Emerging Markets	6,332,545	3.8	52.5	6.0	17.2						17.2	Jul-17
MSCI Emerging Markets				7.4	15.9	37.3	9.1	4.3	2.6	1.7	15.9	Jul-17
Total Investment Grade Bonds	23,635,460	14.0	14.0	0.3	1.1	3.1	2.0	2.1	3.5	4.6	5.3	Oct-00
BBgBarc US Aggregate TR				0.4	1.2	3.5	2.2	2.1	3.2	4.0	4.9	Oct-00
BBgBarc US Universal TR				0.4	1.4	4.1	2.8	2.5	3.6	4.3	5.2	Oct-00
Northern Trust Barclays Aggregate Bond Index	21,030,818	12.5	89.0	0.4	1.2	3.3	2.0	2.0	3.1	4.0	5.1	Oct-99
Northern Trust Barclays Aggregate Bond Index (Net of Fees)				0.4	1.2	3.2	2.0	1.9	3.1	4.0	5.0	
BBgBarc US Aggregate TR				0.4	1.2	3.5	2.2	2.1	3.2	4.0	5.0	Oct-99
Northern Trust 1-5 Year Credit Bond Index Fund	2,604,642	1.5	11.0	-0.2	0.5	2.1					2.0	Dec-15
Northern Trust 1-5 Year Credit Bond Index Fund (Net of				-0.2	0.4	2.0					1.9	
Fees) BBgBarc US Credit 1-5 Yr TR				-0.1	0.6	2.3	2.0	1.8	2.5	3.5	2.2	Dec-15



	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
Total TIPS	6,646,196	3.9	3.9	0.5	1.3	1.9	1.8				1.1	Nov-13
BBgBarc US TIPS TR				1.3	2.1	3.0	2.0	0.1	2.9	3.5	1.7	Nov-13
BBgBarc US TIPS 1-10 Yr TR				0.5	1.2	1.9	1.8	0.1	2.0	2.8	1.1	Nov-13
IR&M 1-10 Year Index	6,646,196	3.9	100.0	0.5	1.3	1.9	1.8				1.1	Nov-13
IR&M 1-10 Year Index (Net of Fees)				0.5	1.2	1.8	1.7				1.0	
BBgBarc US TIPS 1-10 Yr TR				0.5	1.2	1.9	1.8	0.1	2.0	2.8	1.1	Nov-13
Total High Yield Bonds	9,683,758	5.7	5.7	0.9	2.9	7.9	6.5	6.0	6.8		9.0	Jul-09
BBgBarc US High Yield TR				0.5	2.5	7.5	6.4	5.8	7.0	8.0	10.0	Jul-09
Sky Harbor High Yield	8,203,005	4.9	84.7	0.9	2.9	7.9	6.4	6.0			6.1	Dec-12
Sky Harbor High Yield (Net of Fees)				0.8	2.8	7.6	6.0	5.4			5.6	
BBgBarc US High Yield TR				0.5	2.5	7.5	6.4	5.8	7.0	8.0	6.0	Dec-12
Summit Credit Fund II, L.P.	1,480,753	0.9	15.3									
Total Bank Loans	5,442,059	3.2	3.2	0.9	1.8	3.3	4.0	4.3			5.2	Apr-12
Credit Suisse Leveraged Loans				1.2	2.2	4.2	4.5	4.3	4.7	4.6	4.8	Apr-12
Beach Point Leveraged Loan	5,442,059	3.2	100.0	0.9	1.8	3.3	4.0	4.3			5.2	Apr-12
Beach Point Leveraged Loan (Net of Fees)				0.7	1.4	2.5	3.3	3.6			4.5	
Credit Suisse Leveraged Loans				1.2	2.2	4.2	4.5	4.3	4.7	4.6	4.8	Apr-12



	AS 01 Decemb										Jecember .	ibel 31, 2017	
	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since	
Total Emerging Markets Debt	3,740,229	2.2	2.2	0.3	3.9	15.4	2.2	-3.1			-0.7	Jun-12	
JP Morgan GBI EM Global Diversified TR LCL				0.8	3.0	8.9	7.1	5.8	7.3	8.3	6.9	Jun-12	
Stone Harbor Emerging Markets Local Currency Debt (Net of Fees)	3,740,229	2.2	100.0	0.3	3.9	15.4	2.2	-3.1			-0.7	Jun-12	
JP Morgan GBI EM Global Diversified TR LCL				0.8	3.0	8.9	7.1	5.8	7.3	8.3	6.9	Jun-12	
Total Real Estate	15,545,049	9.2	9.2	4.9	6.4	10.9	8.4	8.9	10.6	8.0	9.3	Mar-05	
NCREIF ODCE Equal Weighted				2.1	4.1	7.8	10.7	11.6	12.1	4.8	7.7	Mar-05	
MSCI US REIT				1.0	1.7	3.7	4.0	8.0	9.1	6.0		Mar-05	
Vanguard REIT Index (Net of Fees)	5,700,724	3.4	36.7	1.4	2.3	4.9	5.2				8.9	Mar-14	
MSCI US REIT				1.0	1.7	3.7	4.0	8.0	9.1	6.0	7.7	Mar-14	
A.E.W Core Property Trust (Net of Fees)	6,475,644	3.8	41.7	2.0	3.6	7.1	9.0				9.8	Jul-13	
NCREIF-ODCE				2.1	4.0	7.6	10.4	11.5	12.1	5.0	11.3	Jul-13	
DRA Growth and Income Fund VIII NCREIF-ODCE	2,517,788	1.5	16.2										
DRA Growth and Income Fund IX NCREIF-ODCE NCREIF-ODCE	850,893	0.5	5.5										
Total Natural Resources	2,120,072	1.3	1.3	-0.2	0.7		-			-	0.7	Jul-17	
FTSE Gold Mines PR USD				1.4	5.8	9.1	11.0	-11.5	-12.7	-6.4	5.8	Jul-17	
S&P Global Natural Resources Index TR USD				8.6	20.3	22.7	7.2	2.5	0.5	-0.4	20.3	Jul-17	



City of Ann Arbor Retiree Health Care Benefit Plan &Trust (VEBA)

Total Fund Aggregate

	Market Value (\$)	% of Portfolio	% of Sector	QTD (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	Return (%)	Since
First Eagle Gold Fund	2,120,072	1.3	100.0	-0.2	0.6						0.6	Jul-17
First Eagle Gold Fund (Net of Fees)				-0.2	0.6						0.6	
FTSE Gold Mines PR USD				1.4	5.8	9.1	11.0	-11.5	-12.7	-6.4	5.8	Jul-17
S&P Global Natural Resources Index TR USD				8.6	20.3	22.7	7.2	2.5	0.5	-0.4	20.3	Jul-17
Total Private Equity	261,645	0.2	0.2	-2.3	-6.0						-19.6	Feb-17
Strategic Investors Fund VIII	261,645	0.2	100.0									
Total Cash	1,569,480	0.9	0.9									
NT Cash	1,569,480	0.9	100.0									



Calendar Year Performance										
	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	2011 (%)	2010 (%)	2009 (%)	2008 (%)
Total Fund Aggregate	15.3	9.0	-1.5	5.1	15.2	12.6	2.7	19.6	21.9	-24.2
Total Fund Aggregate (Net of Fees)	15.1	8.8	-1.8	4.8	14.8	12.3	2.3	19.2	21.6	-24.2
Policy Benchmark	16.2	9.5	-0.8	5.7	14.2	13.0	1.6	15.7	24.6	-25.0
Actual Allocation Benchmark	13.3	9.1	-0.2	6.2	15.3	12.2	-4.4	0.0	0.0	0.0
60% MSCI ACWI & 40% Barclays Agg	15.4	5.9	-1.0	5.0	12.3	11.5	-1.1	10.8	23.0	-25.8
Total Domestic Equity	20.6	14.2	-2.0	9.5	34.6	17.7	2.2	27.4	31.4	-38.7
Russell 3000	21.1	12.7	0.5	12.6	33.6	16.4	1.0	16.9	28.3	-37.3
Northern Trust Russell 1000 Index	21.7	12.1	0.7	13.2	33.1					
Northern Trust Russell 1000 Index (Net of Fees)	21.6	12.1	0.7	13.2	33.1					
Russell 1000	21.7	12.1	0.9	13.2	33.1	16.4	1.5	16.1	28.4	-37.6
RhumbLine S&P 400 Index	16.3	20.6	-1.3	9.8	33.9	17.9	-1.7			
RhumbLine S&P 400 Index (Net of Fees)	16.3	20.5	-1.4	9.8	33.8	17.8	-1.7			
S&P 400 MidCap	16.2	20.7	-2.2	9.8	33.5	17.9	-1.7	26.6	37.4	-36.2
Southern Sun Small Cap Equity	19.4	16.7	-17.1	-6.0	41.6	21.8	6.4	48.4	29.4	-35.1
Southern Sun Small Cap Equity (Net of Fees)	18.7	15.5	-17.9	-7.0	40.2	20.6	5.4	47.6	28.4	-35.1
Russell 2000	14.6	21.3	-4.4	4.9	38.8	16.3	-4.2	26.9	27.2	-33.8



	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	2011 (%)	2010 (%)	2009 (%)	2008 (%)
Total International Developed Market Equity	27.1	1.2	-0.7	-4.8	23.6	17.0	-10.8	17.0		
MSCI EAFE	25.0	1.0	-0.8	-4.9	22.8	17.3	-12.1	7.8	31.8	-43.4
WCM Focused Growth International										
WCM Focused Growth International (Net of Fees)										
MSCI ACWI ex USA	27.2	4.5	-5.7	-3.9	15.3	16.8	-13.7	11.2	41.4	-45.5
Hexavest International Equity										
Hexavest International Equity (Net of Fees)										
MSCI EAFE	25.0	1.0	-0.8	-4.9	22.8	17.3	-12.1	7.8	31.8	-43.4
Total International Emerging Market Equity	35.7	14.5	-14.1	-0.1	-4.4	8.3				
MSCI Emerging Markets	37.3	11.2	-14.9	-2.2	-2.6	18.2	-18.4	18.9	78.5	-53.3
DFA Emerging Markets Value Fund (Net of Fees)	33.8	19.8	-18.8	-4.4	-3.8					
MSCI Emerging Markets	37.3	11.2	-14.9	-2.2	-2.6	18.2	-18.4	18.9	78.5	-53.3
GQG Partners Emerging Markets										
MSCI Emerging Markets	37.3	11.2	-14.9	-2.2	-2.6	18.2	-18.4	18.9	78.5	-53.3
Total Investment Grade Bonds	3.1	2.6	0.3	6.4	-1.6	5.8	8.1	8.2	7.0	6.2
BBgBarc US Aggregate TR	3.5	2.6	0.5	6.0	-2.0	4.2	7.8	6.5	5.9	5.2
Northern Trust Barclays Aggregate Bond Index	3.3	2.5	0.3	6.1	-2.2	4.4	7.8	6.8	5.6	6.2
Northern Trust Barclays Aggregate Bond Index (Net of Fees)	3.2	2.5	0.3	6.0	-2.3	4.3	7.8	6.7	5.6	6.1
BBgBarc US Aggregate TR	3.5	2.6	0.5	6.0	-2.0	4.2	7.8	6.5	5.9	5.2



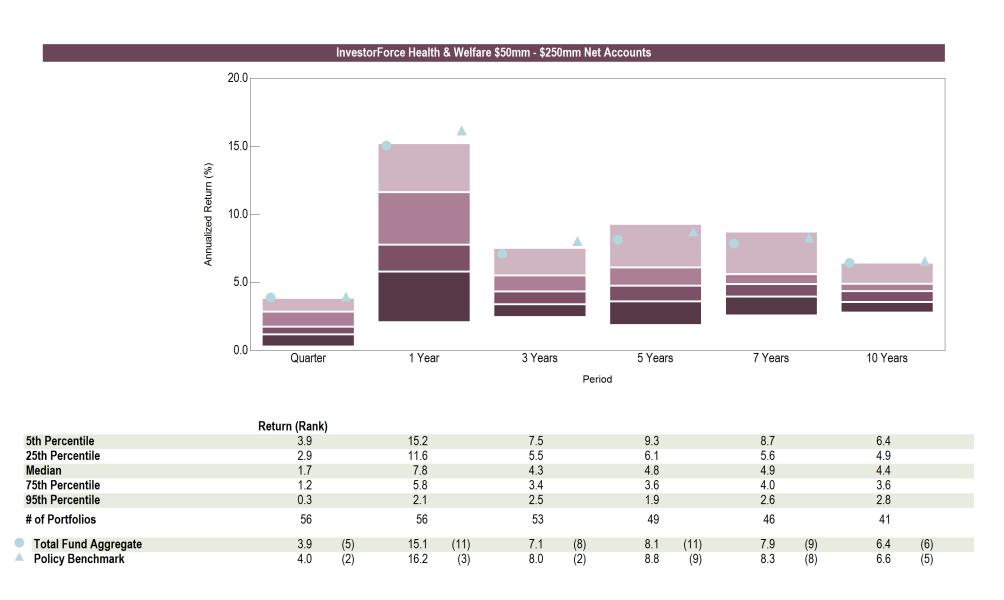
	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	2011 (%)	2010 (%)	2009 (%)	2008 (%)
Northern Trust 1-5 Year Credit Bond Index Fund	2.1	2.4								
Northern Trust 1-5 Year Credit Bond Index Fund (Net of Fees)	2.0	2.3								
BBgBarc US Credit 1-5 Yr TR	2.3	2.6	1.1	1.9	1.2	5.5	3.0	5.4	13.5	-1.1
Total TIPS	1.9	4.1	-0.4	0.9						
BBgBarc US TIPS TR	3.0	4.7	-1.4	3.6	-8.6	7.0	13.6	6.3	11.4	-2.4
IR&M 1-10 Year Index	1.9	4.1	-0.4	0.9						
IR&M 1-10 Year Index (Net of Fees)	1.8	3.9	-0.5	0.8						
BBgBarc US TIPS 1-10 Yr TR	1.9	4.0	-0.5	0.9	-5.6	5.0	8.9	5.2	12.0	-2.4
Total High Yield Bonds [*]	7.9	15.7	-3.4	1.4	9.2	12.4	5.7	12.3		
BBgBarc US High Yield TR	7.5	17.1	-4.5	2.5	7.4	15.8	5.0	15.1	58.2	-26.2
Sky Harbor High Yield	7.9	15.7	-3.4	1.4	9.2					
Sky Harbor High Yield (Net of Fees)	7.6	15.1	-3.9	0.8	8.6					
BBgBarc US High Yield TR	7.5	17.1	-4.5	2.5	7.4	15.8	5.0	15.1	58.2	-26.2
Summit Credit Fund II, L.P.										
Total Bank Loans	3.3	5.9	2.8	2.7	7.1					
Credit Suisse Leveraged Loans	4.2	9.9	-0.4	2.1	6.2	9.4	1.8	10.0	44.9	-28.8
Beach Point Leveraged Loan	3.3	5.9	2.7	2.7	7.1					
Beach Point Leveraged Loan (Net of Fees)	2.5	5.2	2.1	2.0	6.4					
Credit Suisse Leveraged Loans	4.2	9.9	-0.4	2.1	6.2	9.4	1.8	10.0	44.9	-28.8

^{*} One or more accounts have been excluded from the composite for the purposes of performance calculations and market value.



	2017 (%)	2016 (%)	2015 (%)	2014 (%)	2013 (%)	2012 (%)	2011 (%)	2010 (%)	2009 (%)	2008
Total Emerging Markets Debt	15.4	9.0	-15.2	-8.5	-12.6					
JP Morgan GBI EM Global Diversified TR LCL	8.9	9.4	3.3	8.2	-0.3	13.7	8.4	11.4	10.3	10.8
Stone Harbor Emerging Markets Local Currency Debt (Net of Fees)	15.4	9.0	-15.2	-8.5	-12.6					
JP Morgan GBI EM Global Diversified TR LCL	8.9	9.4	3.3	8.2	-0.3	13.7	8.4	11.4	10.3	10.8
Total Real Estate	10.9	6.9	7.4	15.4	4.1	20.1	10.2	29.7	29.6	-36.3
NCREIF ODCE Equal Weighted	7.8	9.3	15.2	12.4	13.4	11.0	16.0	16.1	-30.7	-10.4
Vanguard REIT Index (Net of Fees)	4.9	8.5	2.4							
MSCI US REIT	3.7	7.1	1.3	28.8	1.3	16.5	7.5	27.0	26.3	-39.1
A.E.W Core Property Trust (Net of Fees)	7.1	7.6	12.4	10.4						
NCREIF-ODCE	7.6	8.8	15.0	12.5	13.9	10.9	16.0	16.4	-29.8	-10.0
DRA Growth and Income Fund VIII										
NCREIF-ODCE										
DRA Growth and Income Fund IX										
NCREIF-ODCE										
Total Natural Resources	-			0.0	0.0	0.0				
FTSE Gold Mines PR USD	9.1	59.6	-21.4	-15.2	-53.2	-15.4	-15.9	29.0	29.6	-19.9
First Eagle Gold Fund										
First Eagle Gold Fund (Net of Fees)										
FTSE Gold Mines PR USD	9.1	59.6	-21.4	-15.2	-53.2	-15.4	-15.9	29.0	29.6	-19.9





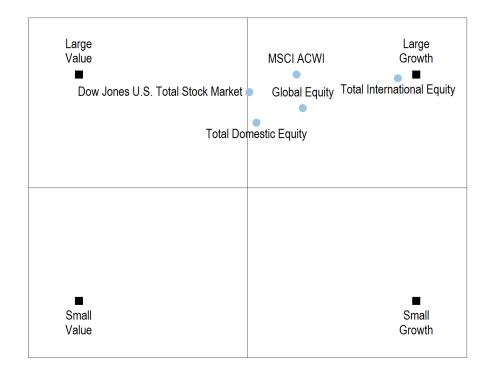


Global Equity

As of December 31, 2017

Asset Allocation on December 31, 2017							
	Actual	Actual					
DFA Emerging Markets Value Fund	\$5,728,292	5.7%					
GQG Partners Emerging Markets	\$6,332,545	6.3%					
Hexavest International Equity	\$10,548,047	10.6%					
Northern Trust Russell 1000 Index	\$56,618,322	56.7%					
RhumbLine S&P 400 Index	\$6,629,125	6.6%					
Southern Sun Small Cap Equity	\$3,882,016	3.9%					
WCM Focused Growth International	\$10,128,099	10.1%					
Total	\$99,866,446	100.0%					

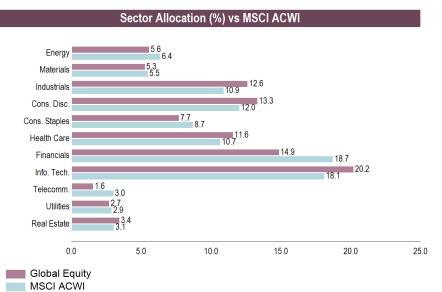
Global Equity Style Map 6 Years Ending December 31, 2017





Global Equity

Global Equity Characteristics								
	Portfolio	Index	Portfolio					
	Q4-17	Q4-17	Q3-17					
Market Value								
Market Value (\$M)	99.9		90.0					
Number Of Holdings	3496	2499	3688					
Characteristics								
Weighted Avg. Market Cap. (\$B)	122.9	121.5	106.9					
Median Market Cap (\$B)	1.9	10.6	2.3					
P/E Ratio	26.8	22.8	25.3					
Yield	1.8	2.2	2.0					
EPS Growth - 5 Yrs.	12.3	8.3	10.8					
Price to Book	5.8	3.8	4.8					
Beta (holdings; domestic)	1.1	1.1	1.0					



Top Holdings	
APPLE	2.4%
MICROSOFT	1.7%
AMAZON.COM	1.3%
FACEBOOK CLASS A	1.1%
BERKSHIRE HATHAWAY 'B'	1.0%
JOHNSON & JOHNSON	1.0%
JP MORGAN CHASE & CO.	1.0%
EXXON MOBIL	1.0%
ALPHABET 'C'	0.9%
ALPHABET A	0.9%
Total	12.2%



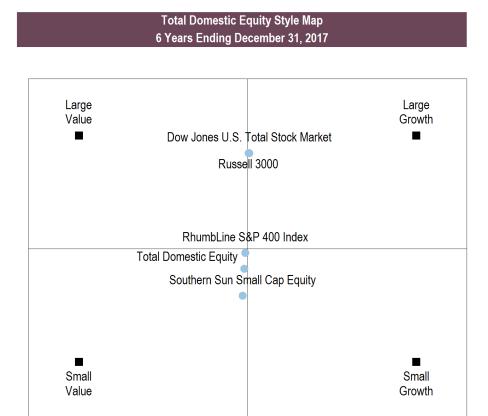
Global Equity

Global Equity Region Allocation								
vs MSCI ACWI								
Region	% of Total	% of Bench	% Diff					
North America ex U.S.	0.74%	3.12%	-2.39%					
United States	82.97%	52.41%	30.56%					
Europe Ex U.K.	4.38%	15.02%	-10.64%					
United Kingdom	1.32%	5.75%	-4.43%					
Pacific Basin Ex Japan	1.83%	3.93%	-2.10%					
Japan	0.77%	7.88%	-7.11%					
Emerging Markets	7.99%	11.66%	-3.67%					
Other	0.00%	0.23%	-0.23%					
Total	100.00%	100.00%						



Total Domestic Equity

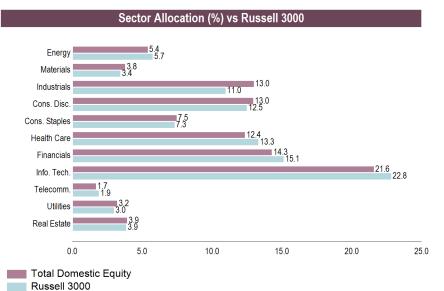
Asset Allocation on December 31, 2017							
	Actual	Actual					
Northern Trust Russell 1000 Index	\$56,618,322	84.3%					
RhumbLine S&P 400 Index	\$6,629,125	9.9%					
Southern Sun Small Cap Equity	\$3,882,016	5.8%					
Total	\$67,129,462	100.0%					





Total Domestic Equity

Total Domestic Equity Characteristics								
	Portfolio	Index	Portfolio					
	Q4-17	Q4-17	Q3-17					
Market Value								
Market Value (\$M)	67.1	-	63.2					
Number Of Holdings	1142	2961	1150					
Characteristics								
Weighted Avg. Market Cap. (\$B)	138.1	150.1	124.3					
Median Market Cap (\$B)	7.0	1.7	6.4					
P/E Ratio	26.8	25.0	25.7					
Yield	1.8	1.7	1.8					
EPS Growth - 5 Yrs.	12.9	10.3	12.0					
Price to Book	5.8	4.6	5.1					
Beta (holdings; domestic)	1.1	1.1	1.0					



Top Holdings	
APPLE	2.9%
MICROSOFT	2.1%
AMAZON.COM	1.6%
FACEBOOK CLASS A	1.4%
BERKSHIRE HATHAWAY 'B'	1.3%
JOHNSON & JOHNSON	1.3%
JP MORGAN CHASE & CO.	1.2%
EXXON MOBIL	1.2%
ALPHABET 'C'	1.1%
ALPHABET A	1.0%
Total	15.0%



Total International Equity

As of December 31, 2017

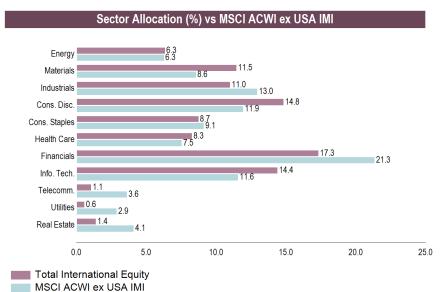
Asset Allocation on December 31, 2017							
	Actual	Actual					
DFA Emerging Markets Value Fund	\$5,728,292	17.5%					
GQG Partners Emerging Markets	\$6,332,545	19.3%					
Hexavest International Equity	\$10,548,047	32.2%					
WCM Focused Growth International	\$10,128,099	30.9%					
Total	\$32,736,984	100.0%					

Total International Equity Style Map 6 Years Ending December 31, 2017 Large Value MSC| ACW| ex USA IM| Dow Jones U.S. Total Stock Market Total International Developed Market Equity Total International Equity Total International Equity Small Value Total Style Map Large Large Value MSC| ACW| ex USA IM| Growth



Total International Equity

Total International Equity Characteristics				
	Portfolio	Index	Portfolio	
	Q4-17	Q4-17	Q3-17	
Market Value				
Market Value (\$M)	32.7		26.8	
Number Of Holdings	2358	6221	2542	
Characteristics				
Weighted Avg. Market Cap. (\$B)	56.7	57.1	57.6	
Median Market Cap (\$B)	0.5	1.6	0.5	
P/E Ratio	27.1	20.7	24.1	
Yield	1.9	2.6	2.6	
EPS Growth - 5 Yrs.	10.0	6.9	7.6	
Price to Book	5.3	2.8	3.9	
Beta (holdings; domestic)	1.0	1.1	1.0	



Top Holdings		
CSL	2.9%	
KEYENCE	2.7%	
ACCENTURE CLASS A	2.7%	
CHUBB	2.6%	
CANADIAN PAC.RY. (NYS)	2.6%	
RECKITT BENCKISER GROUP	2.4%	
HDFC BANK ADR 1:3	2.4%	
NESTLE 'R'	2.4%	
TAIWAN SEMICON.SPN.ADR 1:5	2.4%	
AIA GROUP	2.3%	
Total	25.4%	



Total International Equity

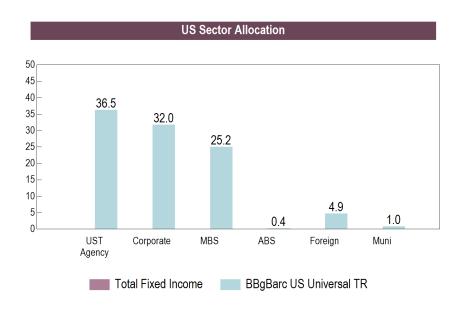
Total International Equity Region Allocation vs MSCI ACWI ex USA IMI			
North America ex U.S.	3.94%	6.60%	-2.66%
United States	8.65%	0.00%	8.65%
Europe Ex U.K.	23.43%	30.89%	-7.46%
United Kingdom	7.02%	12.24%	-5.22%
Pacific Basin Ex Japan	9.83%	8.25%	1.58%
Japan	4.15%	17.31%	-13.15%
Emerging Markets	42.96%	24.11%	18.86%
Other	0.01%	0.60%	-0.59%
Total	100.00%	100.00%	

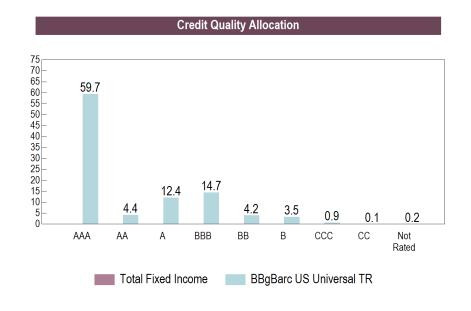


Total Fixed Income

Asset Allocation on December 31, 2017			
	Actual	Actual	
Beach Point Leveraged Loan	\$5,442,059	11.1%	
IR&M 1-10 Year Index	\$6,646,196	13.5%	
Northern Trust 1-5 Year Credit Bond Index Fund	\$2,604,642	5.3%	
Northern Trust Barclays Aggregate Bond Index	\$21,030,818	42.8%	
Sky Harbor High Yield	\$8,203,005	16.7%	
Stone Harbor Emerging Markets Local Currency Debt	\$3,740,229	7.6%	
Summit Credit Fund II, L.P.	\$1,480,753	3.0%	
Total	\$49,147,702	100.0%	

Total Fixed Income Fixed Income Characteristics vs. BBgBarc US Universal TR			
	Portfolio	Index	Portfolio
	Q4-17	Q4-17	Q3-17
Fixed Income Characteristics			
Yield to Maturity		3.0	3.4
Average Duration		5.8	4.8
Average Quality		AA	Α
Weighted Average Maturity		12.0	6.8







Investment Expense Analysis As Of December 31, 2017				
Name	Fee Schedule	Market Value	Estimated Fee Value	Estimated Fee
Global Equity		\$99,866,446		
Total Domestic Equity		\$67,129,462		
Northern Trust Russell 1000 Index	0.03% of First \$50.0 Mil, 0.02% Thereafter	\$56,618,322	\$16,324	0.03%
RhumbLine S&P 400 Index	0.05% of First \$50.0 Mil, 0.04% Thereafter	\$6,629,125	\$3,215	0.05%
Southern Sun Small Cap Equity	1.00% of First \$50.0 Mil, 0.95% of Next \$50.0 Mil, 0.90% of Next \$50.0 Mil, 0.85% Thereafter	\$3,882,016	\$38,820	1.00%
Total International Equity		\$32,736,984		
Total International Developed Market Equity		\$20,676,146		
WCM Focused Growth International	1.03% of Assets	\$10,128,099	\$104,319	1.03%
Hexavest International Equity	0.60% of First \$10.0 Mil, 0.50% of Next \$30.0 Mil, 0.40% Thereafter	\$10,548,047	\$62,740	0.59%
Total International Emerging Market Equity		\$12,060,837		
DFA Emerging Markets Value Fund	0.55% of Assets	\$5,728,292	\$31,506	0.55%
GQG Partners Emerging Markets	0.56% of Assets	\$6,332,545	\$35,462	0.56%
Total Fixed Income		\$49,147,702		
Total Investment Grade Bonds		\$23,635,460		
Northern Trust Barclays Aggregate Bond Index	0.06% of First \$100.0 Mil, 0.03% Thereafter	\$21,030,818	\$12,618	0.06%
Northern Trust 1-5 Year Credit Bond Index Fund	0.10% of First \$25.0 Mil, 0.06% of Next \$75.0 Mil, 0.05% Thereafter	\$2,604,642	\$2,605	0.10%
Total TIPS		\$6,646,196		
IR&M 1-10 Year Index	0.08% of Assets	\$6,646,196	\$5,317	0.08%



Name	Fee Schedule	Market Value	Estimated Fee Value	Estimated Fee
Total High Yield Bonds		\$9,683,758		
Sky Harbor High Yield	0.30% of Assets	\$8,203,005	\$24,609	0.30%
Summit Credit Fund II, L.P.	1.5% management fee; 20% carried interest	\$1,480,753		
Total Bank Loans		\$5,442,059		
Beach Point Leveraged Loan	0.65% of Assets	\$5,442,059	\$35,373	0.65%
Total Emerging Markets Debt		\$3,740,229		
Stone Harbor Emerging Markets Local Currency Debt	0.87% of Assets	\$3,740,229	\$32,540	0.87%
Total Real Estate		\$15,545,049		
Vanguard REIT Index	0.12% of Assets	\$5,700,724	\$6,841	0.12%
A.E.W Core Property Trust	1.10% on first \$10 mm; 1.00% on next \$15 mm	\$6,475,644		
DRA Growth and Income Fund VIII	0.90% on gross cost during investment period;0.60% thereafter; 8% preferred return and20% carried interest	\$2,517,788		
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% after the Acquisition Period, with gross cost reduced by leverage in excess of 65%	\$850,893		
Total Natural Resources		\$2,120,072		
First Eagle Gold Fund	1.03% of Assets	\$2,120,072	\$21,837	1.03%
Total Private Equity		\$261,645		
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	\$261,645		
Total Cash		\$1,569,480		
NT Cash		\$1,569,480		
Total		\$168,510,394	\$434,127	0.26%

