



MONTHLY PERFORMANCE REPORT

HOWARD COUNTY RETIREMENT PLAN

SEPTEMBER 30, 2022

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TOTAL FUND PERFORMANCE SUMMARY (GROSS)

	Allocation			Performance (%)								
	Market Value (\$)	% of Portfolio	Policy (%)	1 Mo (%)	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Fund Composite	1,276,351,506	100.0	100.0	-4.9	-3.3	-14.5	-11.6	5.3	5.8	7.3	7.1	Apr-97
Policy Index				-5.6	-3.7	-13.9	-10.7	4.4	5.0	6.4	6.9	
Allocation Index Howard				-5.6	-4.0	-14.6	-11.4	4.9				
Total US Equity Composite	328,491,272	25.7	27.5	-9.9	-5.5	-25.9	-20.1	6.2	7.4	11.6		Jul-97
Russell 3000 Index				-9.3	-4.5	-24.6	-17.6	7.7	8.6	11.4	7.8	
US Equity Allocation Index				-9.3	-4.2	-24.9	-18.3	7.5	8.2	11.1		
Total International Equity	185,027,729	14.5	17.5	-10.0	-10.5	-27.9	-27.1	0.1	0.7	3.9	4.0	Jul-97
MSCI AC World ex USA (Net)				-10.0	-9.9	-26.5	-25.2	-1.5	-0.8	3.0	3.7	
Total Fixed Income Composite	318,923,655	25.0	23.0	-2.5	-1.7	-12.5	-13.1	-1.6	0.5	2.0	4.6	Jul-97
Blmbg. U.S. Aggregate Index				-4.3	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	4.1	
Total Real Assets Composite	58,263,395	4.6	6.0	0.0	-1.2	11.0	16.1	7.1	8.2	7.8	7.2	Jul-03
NCREIF Property Index 1 Qtr. Lag				3.2	3.2	15.4	21.5	10.2	8.9	9.7	9.0	
Cash Composite	29,799,211	2.3	0.0	0.1	0.4	0.5	0.5	0.3	0.9	0.5	1.2	Dec-03
90 Day U.S. Treasury Bill				0.2	0.5	0.6	0.6	0.6	1.1	0.7	1.2	
Hedge Fund Composite	128,585,562	10.1	8.0	0.0	1.9	4.4	5.7	7.7	6.4	5.8	5.4	Jan-11
HFRI FOF: Conservative Index				-0.5	0.2	-1.4	-0.7	4.7	3.8	3.6	3.0	
Private Equity Composite	215,916,662	16.9	13.0	0.0	-6.6	-3.4	2.5	21.9	20.2	17.8	14.9	Jul-08
CJA US All PE (1 Qtr Lag)				-3.4	-3.4	2.9	8.8	19.9	17.7	15.5	12.5	
Private Debt	11,344,020	0.9	5.0	0.0	0.0	-3.5	-3.0				4.7	Jul-20
Morningstar LSTA US Leveraged Loan				-2.3	1.4	-3.3	-2.5	2.2	3.0	3.5	4.3	

- Fiscal year end 6/30.

- All history prior to 2/1/2019 was provided by AndCo.

- Policy index consists of: 22% Russell 1000 / 5.5% Russell 2500 / 11% MSCI EAFE / 6.5% MSCI Emerging Markets / 9% Bloomberg US Aggregate TR / 2% Bloomberg US TIPS TR / 4% 90 Day U.S. Treasury Bill / 4% Bloomberg US High Yield TR / 4% JP Morgan GBI EM Global Diversified TR USD / 5% S&P/LSTA Leveraged Loan TR / 6.0% NCREIF Property Index 1 Qtr. Lag / 8% HFRI FOF: Conservative Index / 13% Private Equity Composite. Allocation index consists of: Weighted index of underlying managers to their respective benchmark.

- The following managers market values are carried over from August: Payden, Blackstone, and Magnitude

- Report is preliminary.

- Real Estate, Real Assets and Private Equity investments are valued as of 3/31/2022 and adjusted for capital calls and distributions through 9/30/2022.

TOTAL FUND PERFORMANCE DETAIL (GROSS)

	Allocation			Performance (%)								
	Market Value (\$)	% of Portfolio	Policy (%)	1 Mo (%)	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Total Fund Composite	1,276,351,506	100.0	100.0	-4.9	-3.3	-14.5	-11.6	5.3	5.8	7.3	7.1	Apr-97
Policy Index				-5.6	-3.7	-13.9	-10.7	4.4	5.0	6.4	6.9	
Allocation Index Howard				-5.6	-4.0	-14.6	-11.4	4.9				
Total Equity Composite	513,519,001	40.2	45.0	-9.9	-7.3	-26.6	-22.7	3.8	4.6	8.3	6.5	Apr-00
MSCI ACWI IMI				-9.7	-6.6	-25.7	-21.2	3.6	4.2	7.2	4.3	
Total US Equity Composite	328,491,272	25.7	27.5	-9.9	-5.5	-25.9	-20.1	6.2	7.4	11.6		Jul-97
Russell 3000 Index				-9.3	-4.5	-24.6	-17.6	7.7	8.6	11.4	7.8	
US Equity Allocation Index				-9.3	-4.2	-24.9	-18.3	7.5	8.2	11.1		
Large Cap Composite	269,775,449	21.1	22.0	-10.2	-6.0	-25.7	-19.1	7.1	7.8	11.6	8.2	Apr-01
Russell 1000 Index				-9.3	-4.6	-24.6	-17.2	7.9	9.0	11.6	7.6	
LSV Asset Management SMA	85,625,473	6.7		-12.1	-10.3	-21.7	-16.2	2.9	3.5	9.8	8.7	May-00
Russell 1000 Value Index				-8.8	-5.6	-17.8	-11.4	4.4	5.3	9.2	6.5	
Westfield Capital Management SMA	95,160,905	7.5		-9.3	-3.0	-30.6	-24.8	9.5	10.8	13.2	13.9	Jul-10
Russell 1000 Growth Index				-9.7	-3.6	-30.7	-22.6	10.7	12.2	13.7	14.9	
BlackRock Equity Index Non-Lendable Fund	88,989,071	7.0		-9.2	-4.9	-23.9	-15.5				6.5	Dec-19
S&P 500 Index				-9.2	-4.9	-23.9	-15.5	8.2	9.2	11.7	6.5	
Small/Mid Cap Composite	58,715,823	4.6	5.5	-8.7	-3.1	-27.3	-24.9	2.2	5.4	11.2	11.1	Apr-93
Russell 2500 Index				-9.5	-2.8	-24.0	-21.1	5.4	5.5	9.6	9.7	
William Blair SMA	19,977,528	1.6		-8.3	-1.0	-28.6	-27.4	2.0	7.0	12.3	10.3	Jun-06
Russell 2500 Growth Index				-8.6	-0.1	-29.5	-29.4	4.8	6.3	10.3	8.4	
William Blair S/C Value R6	20,644,494	1.6		-10.0	-5.1	-19.2	-13.7	5.4	4.6	10.2	11.1	Apr-93
Russell 2000 Value Index				-10.2	-4.6	-21.1	-17.7	4.7	2.9	7.9	9.1	
Brown Capital Small Company Strategy SMA	18,093,801	1.4		-7.6	-2.8	-34.1	-33.2	-0.9	5.5	12.5	12.7	Aug-11
Russell 2000 Growth Index				-9.0	0.2	-29.3	-29.3	2.9	3.6	8.8	8.4	

ICM Small Company - ICSCX was renamed to William Blair S/C Value I in 7/2021 and changed share class in 9/2021 to share class R6.

TOTAL FUND PERFORMANCE DETAIL (GROSS)

	Allocation			Performance (%)									Inception Date
	Market Value (\$)	% of Portfolio	Policy (%)	1 Mo (%)	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)		
Total International Equity	185,027,729	14.5	17.5	-10.0	-10.5	-27.9	-27.1	0.1	0.7	3.9	4.0	Jul-97	
<i>MSCI AC World ex USA (Net)</i>				-10.0	-9.9	-26.5	-25.2	-1.5	-0.8	3.0	3.7		
International Developed Markets Composite	112,820,507	8.8	11.0	-11.1	-11.9	-32.7	-31.3	-2.1	-0.9	3.8	1.8	Mar-08	
<i>MSCI EAFE (Net)</i>				-9.4	-9.4	-27.1	-25.1	-1.8	-0.8	3.7	1.3		
Mondrian International Equity Fund, L.P.	58,882,935	4.6		-9.8	-14.2	-23.3	-22.6	-2.6	-1.6	3.3	0.7	Dec-07	
<i>MSCI EAFE (Net)</i>				-9.4	-9.4	-27.1	-25.1	-1.8	-0.8	3.7	0.6		
Baillie Gifford EAFE Pure K - BGPKX	53,937,572	4.2		-12.3	-9.3	-41.4	-39.5	-2.8			-1.7	May-18	
<i>MSCI EAFE (Net)</i>				-9.4	-9.4	-27.1	-25.1	-1.8	-0.8	3.7	-2.0		
International Emerging Markets Composite	72,207,222	5.7	6.5	-8.4	-8.0	-18.9	-19.5	3.8	3.4	3.7	5.4	Feb-06	
<i>MSCI Emerging Markets (Net)</i>				-11.7	-11.6	-27.2	-28.1	-2.1	-1.8	1.0	3.1		
GQG Partners Emerging Markets Equity Fund	35,352,038	2.8		-7.2	-6.5	-23.3	-23.3	3.0			6.3	Dec-18	
<i>MSCI Emerging Markets (Net)</i>				-11.7	-11.6	-27.2	-28.1	-2.1	-1.8	1.0	-0.8		
Arga Emerging Markets Equity Fund	36,855,184	2.9		-9.5	-9.5	-14.5	-15.6				-3.1	Jan-21	
<i>MSCI Emerging Markets Value NR USD</i>				-10.2	-11.0	-23.3	-23.6	-2.6	-2.1	-0.4	-12.1		
Total Fixed Income Composite	318,923,655	25.0	23.0	-2.5	-1.7	-12.5	-13.1	-1.6	0.5	2.0	4.6	Jul-97	
<i>Blmbg. U.S. Aggregate Index</i>				-4.3	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	4.1		
Core Fixed Income Composite	168,981,104	13.2	11.0	-2.6	-2.6	-14.0	-14.8	-2.0			0.1	Mar-19	
<i>Blmbg. U.S. Aggregate Index</i>				-4.3	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	-0.8		
Core Fixed Income	145,635,181	11.4	9.0	-1.9	-2.2	-14.0	-15.1	-2.3			-0.1	Mar-19	
<i>Blmbg. U.S. Aggregate Index</i>				-4.3	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	-0.8		
Dodge & Cox SMA	76,044,769	6.0		0.9	0.9	-10.1	-10.1	-0.3	1.7	2.7	3.5	May-10	
<i>Blmbg. U.S. Aggregate Index</i>				-4.3	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	1.9		
PIMCO 10 Year Treasury SMA	69,590,412	5.5		-4.8	-5.4	-15.3	-14.8	-2.6	0.0	1.3	2.5	May-10	
<i>PIMCO Blended Benchmark</i>				-5.0	-5.8	-16.9	-16.3	-4.2	-0.9	0.6	1.7		
State Street Global Advisors TIPS	23,345,923	1.8		-6.6	-5.1	-13.6	-11.6	0.7	1.9	1.0	2.7	Nov-09	
<i>Blmbg. U.S. TIPS</i>				-6.6	-5.1	-13.6	-11.6	0.8	2.0	1.0	2.8		

- The PIMCO Blended Benchmark consists of Bloomberg US Aggregate Index through 8/31/2021 and Bloomberg U.S. Treasury Bellwethers: 10 Year thereafter.

TOTAL FUND PERFORMANCE DETAIL (GROSS)

	Allocation			Performance (%)									Inception Date
	Market Value (\$)	% of Portfolio	Policy (%)	1 Mo (%)	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)		
Emerging Markets Debt Composite	48,749,885	3.8	4.0	-2.9	-2.4	-15.8	-17.2	-4.7				-3.2	Mar-19
<i>JPM GBI-EM Global Diversified</i>				-4.9	-4.7	-18.6	-20.6	-7.1	-3.9	-2.4		-5.1	
Colchester Local Markets Debt Fund	48,749,885	3.8		-2.9	-2.4	-15.8	-17.2	-4.7	-2.1			2.6	Oct-15
<i>JPM GBI-EM Global Diversified</i>				-4.9	-4.7	-18.6	-20.6	-7.1	-3.9	-2.4		0.4	
Absolute Return Fixed Income	52,598,916	4.1	4.0	0.0	1.6	-2.9	-3.2					0.4	Mar-20
<i>90 Day U.S. Treasury Bill</i>				0.2	0.5	0.6	0.6	0.6	1.1	0.7		0.4	
Payden Absolute Return Bond Fund PYAIX	52,598,916	4.1		0.0	1.6	-2.9	-3.2					0.4	Mar-20
<i>90 Day U.S. Treasury Bill</i>				0.2	0.5	0.6	0.6	0.6	1.1	0.7		0.4	
High Yield	48,593,750	3.8	4.0	-4.1	-1.4	-12.5	-12.0					-10.1	Aug-21
<i>Blmbg. U.S. Corp: High Yield Index</i>				-4.0	-0.6	-14.7	-14.1	-0.5	1.6	3.9		-11.8	
Artisan High Income Trust	48,593,750	3.8		-4.1	-1.4	-12.5	-12.0					-10.1	Aug-21
<i>ICE BofA US High Yield Master II Constrained</i>				-4.0	-0.7	-14.6	-14.1	-0.7	1.4	3.9		-11.7	
Total Real Assets Composite	58,263,395	4.6	6.0	0.0	-1.2	11.0	16.1	7.1	8.2	7.8	7.2		Jul-03
<i>NCREIF Property Index 1 Qtr. Lag</i>				3.2	3.2	15.4	21.5	10.2	8.9	9.7		9.0	
Cash Composite	29,799,211	2.3	0.0	0.1	0.4	0.5	0.5	0.3	0.9	0.5	1.2		Dec-03
<i>90 Day U.S. Treasury Bill</i>				0.2	0.5	0.6	0.6	0.6	1.1	0.7		1.2	
Hedge Fund Composite	128,585,562	10.1	8.0	0.0	1.9	4.4	5.7	7.7	6.4	5.8	5.4		Jan-11
<i>HFRI FOF: Conservative Index</i>				-0.5	0.2	-1.4	-0.7	4.7	3.8	3.6		3.0	
Magnitude International Class A Eligible	66,600,226	5.2		0.0	2.3	6.2	8.3	8.8	6.9	5.8		5.6	Jan-11
<i>HFRI FOF: Conservative Index</i>				-0.5	0.2	-1.4	-0.7	4.7	3.8	3.6		3.0	
Blackstone Partners Offshore Fund LTD	61,985,337	4.9		0.0	1.6	2.7	3.2	6.5	5.7	5.8		5.2	Mar-11
<i>HFRI FOF: Conservative Index</i>				-0.5	0.2	-1.4	-0.7	4.7	3.8	3.6		2.9	
Private Equity Composite	215,916,662	16.9	13.0	0.0	-6.6	-3.4	2.5	21.9	20.2	17.8	14.9		Jul-08
<i>CJA US All PE (1 Qtr Lag)</i>				-3.4	-3.4	2.9	8.8	19.9	17.7	15.5		12.5	
Private Debt	11,344,020	0.9	5.0	0.0	0.0	-3.5	-3.0				4.7		Jul-20
<i>Morningstar LSTA US Leveraged Loan</i>				-2.3	1.4	-3.3	-2.5	2.2	3.0	3.5		4.3	

DISCLAIMERS & DISCLOSURES

Past performance is no guarantee of future results.

Returns for pooled funds, e.g. mutual funds and collective investment trusts, are collected from third parties; they are not generally calculated by NEPC. Returns for separate accounts, with some exceptions, are calculated by NEPC. Returns are reported net of manager fees unless otherwise noted.

A “since inception” return, if reported, begins with the first full month after funding, although actual inception dates (e.g. the middle of a month) and the timing of cash flows are taken into account in Composite return calculations.

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Source of private fund performance benchmark data: Cambridge Associates, via Refinitiv