**Q2** 

# Second Quarter 2020 Performance Report

Adams County Retirement Plan August 4, 2020

Dale A. Connors, CFA Senior Consultant



#### CONTENTS

- 1 Capital Markets Exhibits
- 15 Pension Plan Analysis
- 38 Benchmark History
- 39 Manager Roster
- 40 Fee Schedule
- 41 Endnotes

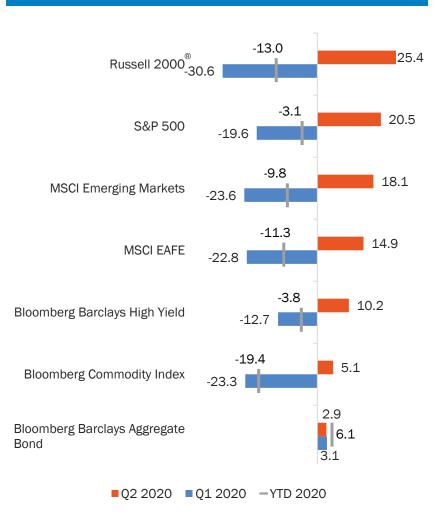


# Second Quarter 2020 Capital Markets Exhibits



# A Return to Risk

Capital Market Returns (%)



Source: Morningstar Direct, S&P Dow Jones Indices, Russell, MSCI, Bloomberg Finance, LP

#### **Equities Rally**

• Risk assets swung back sharply in the second quarter as U.S. stocks experienced their best quarter in more than 20 years.

#### Monetary Policy Boosts Credit Markets

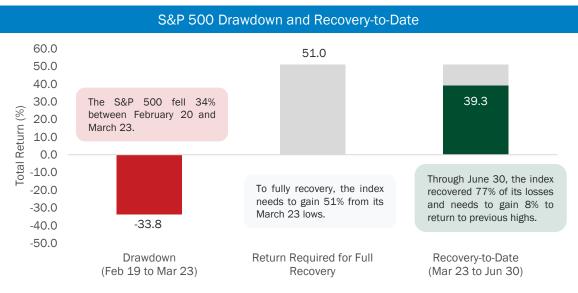
• Unprecedented central bank efforts led to a return to order in the credit markets. These measures resulted in credit spreads moving back towards normalized levels.

#### Fiscal Response Supports the Economy

- After the COVID-19 pandemic brought business around the world to a halt in the first quarter, investors became optimistic that the downturn will be relatively brief given stimulus measures.
- Economic indicators have improved as the world re-opened businesses, but a resurgence in COVID-19 cases poses new risks — leaving the investment outlook highly uncertain.



## Equity Market Recovery By the Numbers



- The S&P 500's second quarter return of 20.5% was the best quarter since 1998 and only the fourth time since 1945 the index produced a quarterly return of at least 20%.
- In each of the previous three occurrences, the next quarter was positive.
- There has been a common theme before, during, and after the COVID-19 drawdown: the dominance of growth-oriented equities.
- While the appetite for risk returned to the market, cyclical and value stocks continued to lag.

Source: S&P Dow Jones Indices

Quarters with S&P	Quarters with S&P 500 Returns Greater Than 20% Since 1945											
Quarter	Current Quarter	Subsequent Quarter										
Q2 2020	20.5%	-										
Q4 1998	21.3%	5.0%										
Q1 1987	21.3%	5.1%										
Q1 1975	22.9%	15.4%										

Returns by Inves	tment Style: Ru	issell U.S. Ind	lices March 23	to June 30

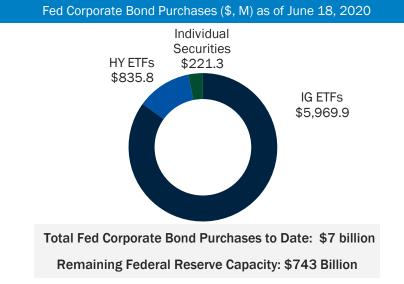
	Value	Core	Growth
Large	30.0%	39.2%	45.5%
Mid	42.3%	46.5%	51.4%
Small	37.4%	44.4%	49.9%

Source: FTSE Russell, Indices used: large cap value: Russell Top 200 Value Index, large cap core: Russell Top 200 Index, large cap growth: Russell Top 200 Growth Index, mid cap value: Russell Mid Cap Value Index, mid cap core: Russell Mid Cap Index, mid cap value: Russell Mid Cap Value Index, small cap value: Russell 2000 Value Index, small cap core: Russell 2000 Index, small cap growth: Russell 2000 Growth Index

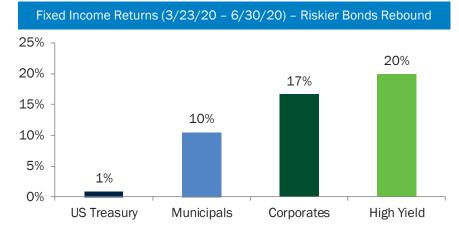
Source: S&P Dow Jones Indices



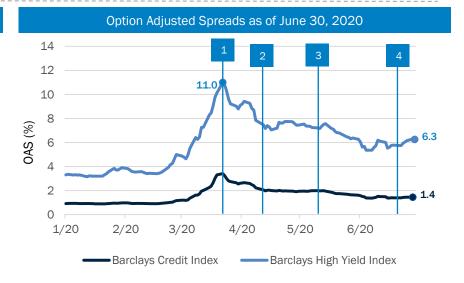
# Fed Actions Support Corporate Debt Markets



Source:, Board of Governors of the Federal Reserve System



Source: Barclays, Board of Governors of the Federal Reserve System



Source: Bloomberg Finance, L.P.

#### Federal Reserve Corporate Bond Purchase Comments

- Fed's purchases of corporate bonds and ETFs have supported the credit markets leading to decreased yields and sizable returns since March 23.
- Going forward, the Fed has substantial assets in its arsenal to continue corporate bond purchases.

	Date	Federal Reserve Announcements & Actions
1	March 23	Fed announces they will begin buying investment grade corporate bonds and bond ETFs
2	April 9	Fed announces bond buying program will include some below investment grade bonds (fallen angels)
3	May 12	Fed begins buying corporate bond ETFs
4	June 15	Fed announces purchases of individual investment grade corporate bonds in addition to ETFs



# Stimulus Programs Support Financial Assets

\$8,000 \$7,000 \$6,000 \$5,000 \$4,000 \$3,000 \$2,000 \$1,000 \$0 Mar-20 Apr-20 May-20 Jun-20

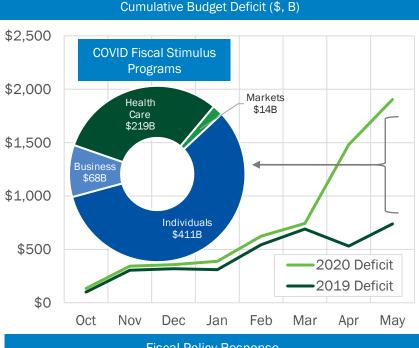
Federal Reserve Balance Sheet Assets (\$, B)

■ Other ■ U.S Treasuries ■ Mortgage Backed Securities ■ Loans & Relief Programs Loans & Relief Programs Includes Credit Facilities, Liquidity Facilities & Central Bank Liquidity Swaps

#### Monetary Policy Response

- The Federal Reserve continued to expand their balance sheet throughout the second quarter with the purchase of Treasuries and mortgage backed securities, as well as the expansion of Loan and Relief Programs targeting COVID-19 disruptions.
- Loans and Relief Programs expanded from \$28 billion on March 18 to a peak of \$640 billion on June 10. These programs included support for corporate bond markets, money markets, central bank liquidity swaps, and support for consumer and business lending programs.

Source: Board of Governors of the Federal Reserve System

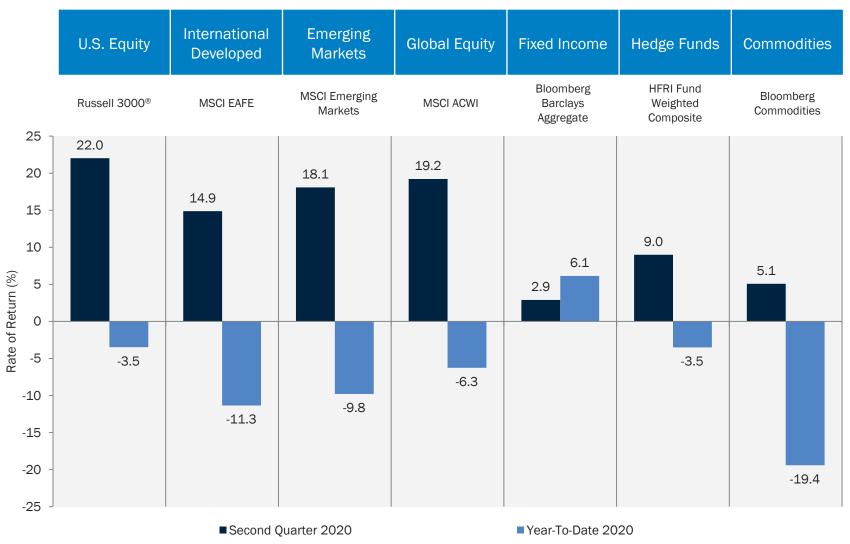


#### Fiscal Policy Response

- The impact of COVID-19 on the U.S. budget deficit has been profound, with its impact seen in the months of April and May.
- The fiscal year-to-date budget deficit as of May 2020 is \$1.9 trillion - \$1.2 trillion larger compared the same period in 2019.
- During the April-May period, receipts were lower by \$351 billion (primarily due to declines in income and payroll taxes received).
- Over the same April-May period, expenditures were \$763 billion higher – the majority of which were COVID-specific fiscal stimulus programs. Funds were allocated to support individuals, businesses, health care and capital markets.

Source: Congressional Budget Office

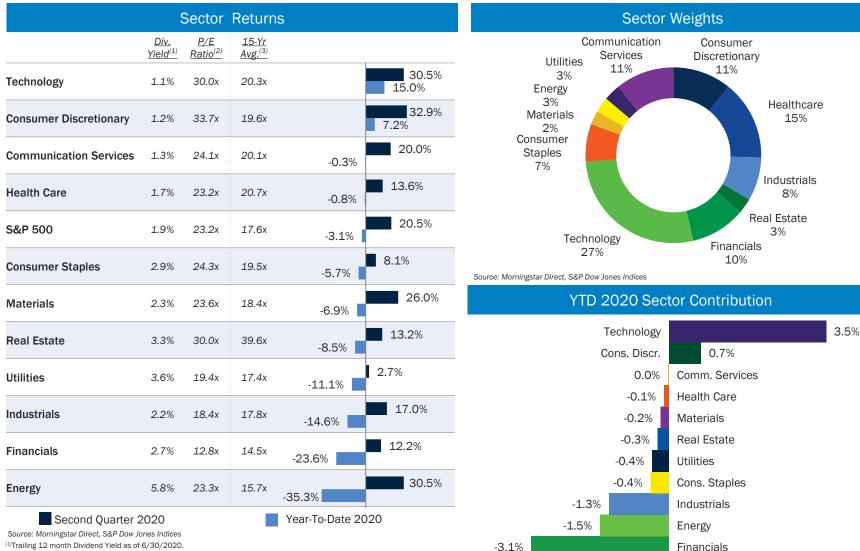
# Market Overview



Source: Morningstar Direct, S&P Dow Jones Indices, Russell, MSCI, Hedge Fund Research, Inc., Bloomberg Finance, L.P.



## S&P 500 Scorecard



<sup>(1)</sup>Trailing 12 month Dividend Yield as of 6/30/2020. <sup>(2)</sup>Trailing 12 month P/E as of 6/30/2020.

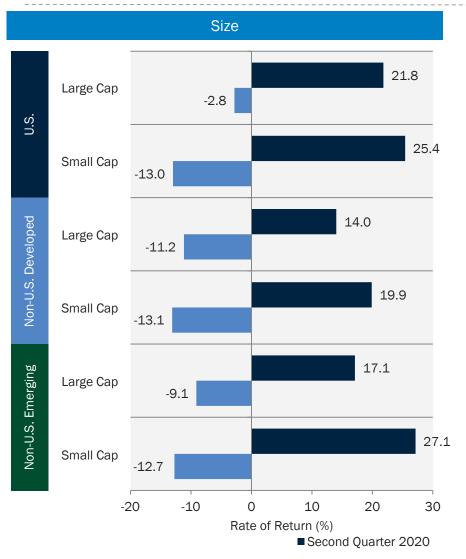
(3)15-year average trailing 12 month P/E as of 6/30/2020.

This presentation is accompanied by additional disclosures which can be found on the last pages. All information herein is confidential and proprietary. 7

Source: Morningstar Direct, S&P Dow Jones Indices, GICS



## **Global Equity Factor Performance**





Note: Indices above are the respective size and style sub-indices of Russell and MSCI. Source: Morningstar Direct, Russell, and MSCI.

FI

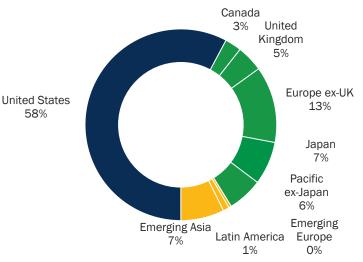
ADVICE. ALIGNED

# Non-U.S. / Global Equity Markets



#### Market Returns

MSCI ACWI Equity Weights



Source: MSCI

YTD 2020 Regional Market Returns (USD)



Source: Morningstar Direct, MSCI.



-5

12/18

03/19

from FRED, Federal Reserve Bank of St. Louis. As of 6/30/2020.

06/19

09/19

Trade Weighted U.S. Dollar Index: Broad

Source: Board of Governors of the Federal Reserve System (US), Trade Weighted U.S. Broad Dollar Index - Goods & Services

12/19

03/20

## **Equity Valuations**

■ 5th - 25th ■ 25th - 50th ■ 50th - 75th ■ 75th - 95th ● Current ● 12/31/2019 40 30 24.3 TTM PE Ratio (x) 23.1 20

16.3

15.8

Developed Non-U.S.

Equities

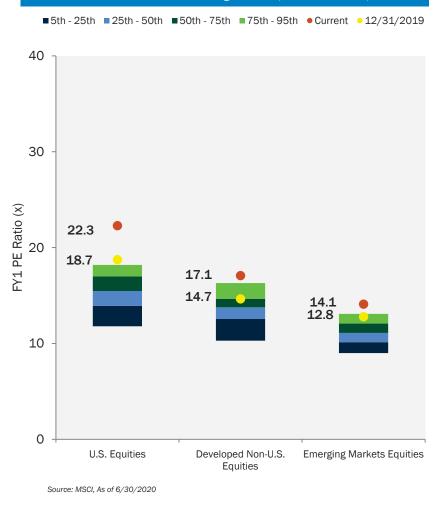
16.0

15.0

**Emerging Markets Equities** 

Trailing Price to Earnings Ratio (Last 20 Years)

#### Forward Price to Earnings Ratio (Last 17 Years)



Source: MSCI, As of 6/30/2020

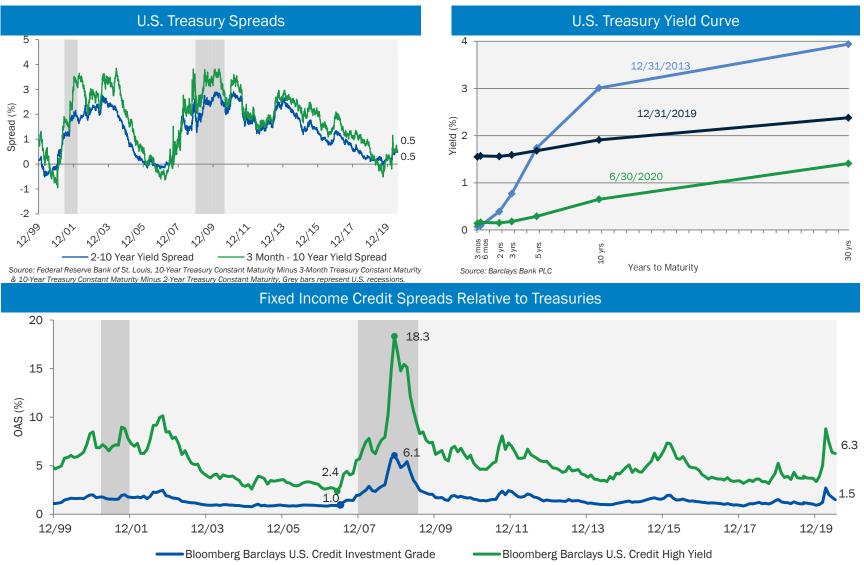
U.S. Equities



10

0

## **Rates and Spreads**

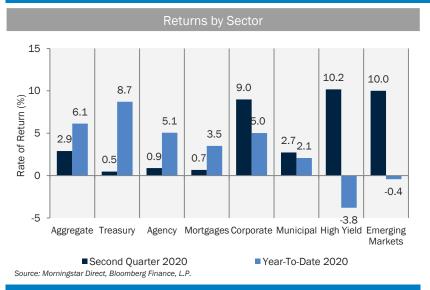


Source: Bloomberg Finance, L.P. Grey bars represent U.S. recessions; As of 6/30/2020

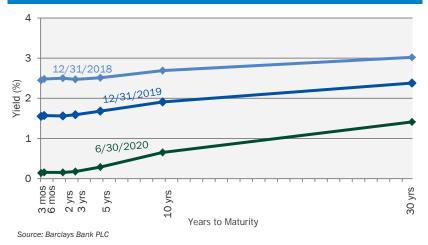


## **Fixed Income Markets**

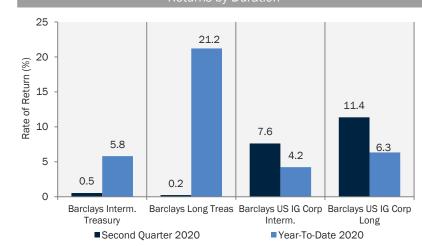
Bond Market Returns



#### U.S. Treasury Yield Curve

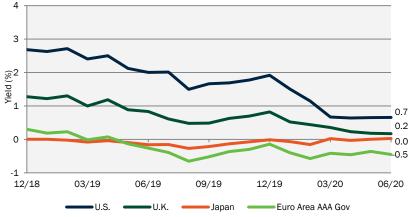


#### Returns by Duration



Source: Morningstar Direct, Bloomberg Finance, L.P.

#### **Global Ten Year Government Spot Yields**



Source: Barclays Bank PLC



## **Real Assets**



Source: Morningstar Direct, Bloomberg Finance, L.P, Barclays, S&P Dow Jones Indices, Alerian, FTSE

#### WTI Crude Oil Prices



#### **United States Breakeven Inflation**





## World Markets Heat Map

	Ca	llendar	Year I	Return	s	_		_	_			Annu	alized Re	eturns				
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		YTD	1-Yr	3-Yr	5-Yr	10-Yr	TTM P/E	Div. Yield
U.S. Equity											U.S. Equity							
S&P 100 Index	3.2%	16.1%	30.4%	12.7%	2.6%	11.4%	22.0%	-3.9%	32.2%	0.0%	S&P 100 Index	0.0%	12.3%	12.5%	11.9%	14.3%	23.1x	2.1%
S&P 500 Index	2.1%	16.0%	32.4%	13.7%	1.4%	12.0%	21.8%	-4.4%	31.5%	-3.1%	S&P 500 Index	-3.1%	7.5%	10.7%	10.7%	14.0%	22.7x	2.1%
Russell 1000 Value Index	0.4%	17.5%	32.5%	13.5%	-3.8%	17.3%	13.7%	-8.3%	26.5%	-16.3%	Russell 1000 Value Index	-16.3%	-8.8%	1.8%	4.6%	10.4%	17.0x	3.0%
Russell 1000 Growth Index	2.6%	15.3%	33.5%	13.0%	5.7%	7.1%	30.2%	-1.5%	36.4%	9.8%	Russell 1000 Growth Index	9.8%	23.3%	19.0%	15.9%	17.2%	32.3x	1.0%
Russell 2000 Index	-4.2%	16.4%	38.8%	4.9%	-4.4%	21.3%	14.6%	-11.0%	25.5%	-13.0%	Russell 2000 Index	-13.0%	-6.6%	2.0%	4.3%	10.5%	15.9x	2.1%
Russell 2000 Value Index	-5.5%	18.1%	34.5%	4.2%	-7.5%	31.7%	7.8%	-12.9%	22.4%	-23.5%	Russell 2000 Value Index	-23.5%	-17.5%	-4.3%	1.3%	7.8%	12.2x	3.6%
Russell 2000 Growth Index	-2.9%	14.6%	43.3%	5.6%	-1.4%	11.3%	22.2%	-9.3%	28.5%	-3.1%	Russell 2000 Growth Index	-3.1%	3.5%	7.9%	6.9%	12.9%	25.8x	0.7%
Russell Micro Cap Index	-9.3%	19.7%	45.6%	3.6%	-5.2%	20.4%	13.2%	-13.1%	22.4%	-11.2%	Russell Micro Cap Index	-11.2%	-4.8%	0.9%	2.9%	9.9%	11.6x	1.8%
Non U.S. Equity											Non U.S. Equity							
MSCI ACWI ex U.S. Index	-13.7%	16.8%	15.3%	-3.9%	-5.7%	4.5%	27.2%	-14.2%	21.5%	-11.0%	MSCI ACWI ex U.S. Index	-11.0%	-4.8%	1.1%	2.3%	5.0%	16.3x	3.7%
MSCI EAFE Index	-12.1%	17.3%	22.8%	-4.9%	-0.8%	1.0%	25.0%	-13.8%	22.0%	-11.3%	MSCI EAFE Index	-11.3%	-5.1%	0.8%	2.1%	5.7%	17.5x	3.8%
MSCI EAFE Small Cap Index	-15.9%	20.0%	29.3%	-4.9%	9.6%	2.2%	33.0%	-17.9%	25.0%	-13.1%	MSCI EAFE Small Cap Index	-13.1%	-3.5%	0.5%	3.8%	8.0%	14.7x	3.6%
MSCI Emerging Markets Index	-18.4%	18.2%	-2.6%	-2.2%	-14.9%	11.2%	37.3%	-14.6%	18.4%	-9.8%	MSCI Emerging Markets Index	-9.8%	-3.4%	1.9%	2.9%	3.3%	14.5x	3.3%
MSCI Emerging Mkts. Small Cap Index	-27.2%	22.2%	1.0%	1.0%	-6.8%	2.3%	33.8%	-18.6%	11.5%	-12.7%	MSCI Emerging Mkts. Small Cap Index	-12.7%	-8.8%	-3.0%	-1.4%	1.8%	13.0x	4.0%
MSCI Frontier Markets Index	-18.7%	8.9%	25.9%	6.8%	-14.5%	2.7%	31.9%	-16.4%	18.0%	-15.8%	MSCI Frontier Markets Index	-15.8%	-11.2%	-1.8%	-0.1%	3.5%	11.0x	5.2%
Global											Global							
MSCI ACWI Index	-7.4%	16.1%	22.8%	4.2%	-2.4%	7.9%	24.0%	-9.4%	26.6%	-6.3%	MSCI ACWI Index	-6.3%	2.1%	6.1%	6.5%	9.2%	19.5x	2.7%
Fixed Income											Fixed Income						Duration	YTW
Barclays US Aggregate Index	7.8%	4.2%	-2.0%	6.0%	0.5%	2.6%	3.5%	0.0%	8.7%	6.1%	Barclays US Aggregate Index	6.1%	8.7%	5.3%	4.3%	3.8%	6.0	1.3%
Barclays US Inv. Grade. Corp. Index	8.1%	9.8%	-1.5%	7.4%	-0.7%	6.1%	6.4%	-2.5%	14.5%	5.0%	Barclays US Inv. Grade. Corp. Index	5.0%	9.5%	6.3%	5.8%	5.5%	8.5	2.1%
Barclays High Yield Index	5.0%	15.8%	7.4%	2.5%	-4.5%	17.1%	7.5%	-2.1%	14.3%	-3.8%	Barclays High Yield Index	-3.8%	0.0%	3.3%	4.8%	6.7%	3.9	6.9%
Barclays US Corp Long AA+ Index	19.1%	9.9%	-7.8%	18.7%	-1.1%	6.9%	10.8%	-3.4%	18.2%	9.9%	Barclays US Corp Long AA+ Index	9.9%	15.1%	9.6%	8.8%	7.8%	17.1	2.5%
Barclays US Treasury Long Index	29.9%	3.6%	-12.7%	25.1%	-1.2%	1.3%	8.5%	-1.8%	14.8%	21.2%	Barclays US Treasury Long Index	21.2%	25.4%	12.0%	9.3%	7.7%	19.4	1.3%
Barclays U.S. Municipal Bond Index	10.7%	6.8%	-2.6%	9.1%	3.3%	0.2%	5.4%	1.3%	7.5%	2.1%	Barclays U.S. Municipal Bond Index	2.1%	4.4%	4.2%	3.9%	4.2%	5.4	1.5%
Barclays Global Agg. ex. U.S. Index	4.4%	4.1%	-3.1%	-3.1%	-6.0%	1.5%	10.5%	-2.1%	5.1%	0.6%	Barclays Global Agg. ex. U.S. Index	0.6%	0.7%	2.5%	2.9%	2.0%	8.3	0.6%
Barclays EM Debt (Local) Gov't Index	0.3%	13.9%	-4.3%	-1.9%	-10.4%	5.9%	14.3%	-3.4%	9.5%	-3.4%	Barclays EM Debt (Local) Gov't Index	-3.4%	-0.1%	2.4%	2.8%	2.8%	7.1	3.1%
Alternatives											Alternatives							
Bloomberg Commodity Index	-13.3%	-1.1%	-9.5%	-17.0%	-24.7%	11.8%	1.7%	-11.2%	7.7%	-19.4%	Bloomberg Commodity Index	-19.4%	-17.4%	-6.1%	-7.7%	-5.8%		
Bloomberg Commodity – Gold	9.6%	6.1%	-28.7%	-1.7%	-10.9%	7.7%	12.8%	-2.8%	18.0%	17.1%	Bloomberg Commodity – Gold	17.1%	25.7%	12.2%	8.1%	3.0%		
Oil	-3.6%	-11.8%	6.8%	-41.7%	-44.3%	7.1%	5.1%	-20.5%	34.4%	-58.6%	Oil	-58.6%	-56.0%	-17.1%	-22.6%	-16.2%		
Bloomberg Commodity – Agriculture	-14.4%	4.0%	-14.3%	-9.2%	-15.6%	2.1%	-11.0%	-10.8%	1.7%	-14.2%	Bloomberg Commodity – Agriculture	-14.2%	-13.8%	-10.5%	-9.6%	-4.0%		
FTSE REIT Index	7.3%	20.1%	3.2%	27.1%	2.3%	9.3%	9.3%	-4.1%	28.1%	-15.0%	FTSE REIT Index	-15.0%	-8.4%	2.7%	6.1%	10.1%		
Source: Morningstar Direct, Bloomberg Fina	nce, L.P.	, Russel	I, S&P Do	ow Jones	Indices,	MSCI, F	TSE; As	of 6/30,	/2020		Source: Morningstar Direct, Bloomberg Fina	nce, L.P., F	Russell, S&P	Dow Jones	Indices, M	ISCI, FTSE;	As of 6/30/.	2020



#### Total Fund

As of June 30, 2020

		Asset Allocat	tion vs. Target				
	Policy Range	Policy	%	Current	%	Difference*	%
Public Equity	35.0% - 5045.0%	\$135,361,364	50.0%	\$131,245,914	48.5%	-\$4,115,450	-1.5%
Vanguard Institutional Index		\$67,680,682	25.0%	\$70,116,754	25.9%	\$2,436,072	0.9%
Vanguard Total International Stock Index		\$27,072,273	10.0%	\$21,699,580	8.0%	-\$5,372,693	-2.0%
American New Perspective Fd R6		\$13,536,136	5.0%	\$13,428,569	5.0%	-\$107,567	0.0%
Dodge & Cox Global Equity Fd		\$13,536,136	5.0%	\$11,892,074	4.4%	-\$1,644,063	-0.6%
FIAM SMID Cap Core		\$13,536,136	5.0%	\$14,108,937	5.2%	\$572,800	0.2%
Private Equity	0.0% - 10.0%	\$13,536,136	5.0%	\$14,117,736	5.2%	\$581,600	0.2%
Adams Street 2012 Global Fund				\$3,248,214	1.2%		
Greenspring Global Partners IX-B				\$2,385,797	0.9%		
Mesirow Private Equity III				\$547,495	0.2%		
Mesirow Private Equity IV				\$1,491,338	0.6%		
NGP Natural Resources XI				\$1,313,960	0.5%		
RCP Fund XI				\$3,414,121	1.3%		
Strategic Value Special Situations III				\$1,716,811	0.6%		
Fixed Rate Debt	0.0% - 20.0%	\$40,608,409	15.0%	\$44,510,335	16.4%	\$3,901,925	1.4%
Segall Bryant & Hamill		\$27,072,273	10.0%	\$28,327,589	10.5%	\$1,255,316	0.5%
BlackRock High Yield Bond		\$13,536,136	5.0%	\$16,182,746	6.0%	\$2,646,610	1.0%
Floating Rate Debt	5.0% - 15.0%	\$27,072,273	10.0%	\$15,354,660	5.7%	-\$11,717,613	-4.3%
Golub Capital Partners 11				\$6,321,954	2.3%		
Principal Real Estate Debt Fund				\$308,478	0.1%		
Principal Real Estate Debt Fund II				\$7,271,673	2.7%		
Principal Real Estate Debt Fund III				\$1,452,556	0.5%		
Low Volatility	0.0% - 10.0%	\$13,536,136	5.0%	\$13,263,232	4.9%	-\$272,904	-0.1%
Grosvenor Institutional Partners		\$13,536,136	5.0%	\$13,263,232	4.9%	-\$272,904	-0.1%
Real Estate	0.0% - 15.0%	\$40,608,409	15.0%	\$45,554,143	16.8%	\$4,945,734	1.8%
Principal US Property Account		\$27,072,273	10.0%	\$26,360,876	9.7%	-\$711,397	-0.3%
Harbert US Real Estate Fund V				\$3,217,702	1.2%		
Harbert US Real Estate Fund VI				\$10,509,581	3.9%		
Harbert US Real Estate Fund VII				\$5,465,984	2.0%		
Cash				\$6,676,708	2.5%	\$6,676,708	2.5%
Operating Account				\$3,541,441	1.3%		
Mill Levy Operating Account				\$3,135,267	1.2%		
Total		\$270,722,728	100.0%	\$270,722,728	100.0%		

\*Difference between Policy and Current Allocation



#### Total Fund

	Cash Flow Summary			
		Quarter Ending	June 30, 2020	
	Beginning Market Value	Net Cash Flow	Net Investment Change	Ending Market Value
Vanguard Institutional Index	\$47,734,011	\$12,479,148	\$9,903,595	\$70,116,754
Vanguard Total International Stock Index	\$18,372,704	\$0	\$3,326,876	\$21,699,580
American New Perspective Fd R6	\$13,530,151	-\$3,000,000	\$2,898,418	\$13,428,569
Dodge & Cox Global Equity Fd	\$9,885,639	\$0	\$2,006,435	\$11,892,074
FIAM SMID Cap Core	\$11,409,393	\$22,213	\$2,677,330	\$14,108,937
Adams Street 2012 Global Fund	\$3,501,540	-\$253,326	\$0	\$3,248,214
Greenspring Global Partners IX-B	\$2,098,297	\$287,500	\$0	\$2,385,797
Mesirow Private Equity III	\$547,495	\$0	\$0	\$547,495
Mesirow Private Equity IV	\$1,603,838	-\$112,500	\$0	\$1,491,338
NGP Natural Resources XI	\$1,313,960	\$0	\$0	\$1,313,960
RCP Fund XI	\$3,114,121	\$300,000	\$0	\$3,414,121
Strategic Value Special Situations III	\$1,716,811	\$0	\$0	\$1,716,811
Segall Bryant & Hamill	\$20,865,128	\$6,056,718	\$1,405,743	\$28,327,589
BlackRock High Yield Bond		\$15,452,317	\$730,429	\$16,182,746
Metropolitan West Total Return	\$21,176,771	-\$21,458,218	\$281,446	
Golub Capital Partners 11	\$5,649,646	\$0	\$672,308	\$6,321,954
Principal Real Estate Debt Fund	\$316,845	-\$7,910	-\$457	\$308,478
Principal Real Estate Debt Fund II	\$7,164,279	\$122,316	-\$14,923	\$7,271,673
Principal Real Estate Debt Fund III		\$1,452,556	\$0	\$1,452,556
Grosvenor Institutional Partners	\$12,315,698	\$0	\$947,534	\$13,263,232
Parametric Defensive Equity Fund	\$12,074,709	-\$13,130,144	\$1,055,435	\$0
Principal US Property Account	\$26,754,743	\$0	-\$393,867	\$26,360,876
Harbert US Real Estate Fund V	\$3,217,702	\$0	\$0	\$3,217,702
Harbert US Real Estate Fund VI	\$10,851,319	-\$341,738	\$0	\$10,509,581
Harbert US Real Estate Fund VII	\$4,798,564	\$667,420	\$0	\$5,465,984
Operating Account	\$3,600,154	-\$59,931	\$1,218	\$3,541,441
Mill Levy Operating Account	\$1,105,951	\$2,028,831	\$485	\$3,135,267
Total	\$244,719,469	\$505,253	\$25,498,006	\$270,722,728



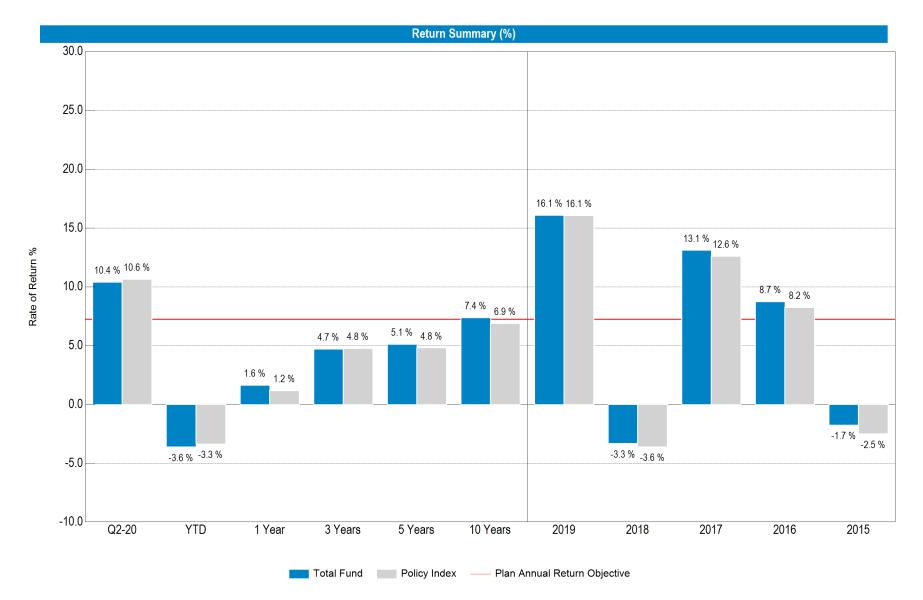
#### Total Fund

	Cash Flow Summary			
		YTD Ending Ju	une 30, 2020	
	Beginning Market Value	Net Cash Flow	Net Investment Change	Ending Market Value
Vanguard Institutional Index	\$59,368,502	\$12,479,148	-\$1,730,896	\$70,116,754
Vanguard Total International Stock Index	\$24,269,361	\$0	-\$2,569,781	\$21,699,580
American New Perspective Fd R6	\$16,540,741	-\$3,000,000	-\$112,171	\$13,428,569
Dodge & Cox Global Equity Fd	\$14,326,849	\$0	-\$2,434,775	\$11,892,074
FIAM SMID Cap Core	\$16,396,372	\$45,102	-\$2,332,537	\$14,108,937
Adams Street 2012 Global Fund	\$3,812,598	-\$253,326	-\$311,058	\$3,248,214
Greenspring Global Partners IX-B	\$2,128,414	\$287,500	-\$30,117	\$2,385,797
Mesirow Private Equity III	\$602,513	\$0	-\$55,018	\$547,495
Mesirow Private Equity IV	\$1,805,703	-\$157,500	-\$156,865	\$1,491,338
NGP Natural Resources XI	\$1,647,428	\$75,490	-\$408,958	\$1,313,960
RCP Fund XI	\$3,027,928	\$600,000	-\$213,807	\$3,414,121
Strategic Value Special Situations III	\$1,931,696	\$0	-\$214,885	\$1,716,811
Segall Bryant & Hamill	\$20,630,113	\$6,072,190	\$1,625,285	\$28,327,589
BlackRock High Yield Bond		\$15,452,317	\$730,429	\$16,182,746
Metropolitan West Total Return	\$20,709,449	-\$21,458,218	\$748,769	
Golub Capital Partners 11	\$7,159,955	-\$159,955	-\$678,046	\$6,321,954
Principal Real Estate Debt Fund	\$322,425	-\$15,822	\$1,875	\$308,478
Principal Real Estate Debt Fund II	\$7,714,806	-\$367,740	-\$75,394	\$7,271,673
Principal Real Estate Debt Fund III	-	\$1,452,556	\$0	\$1,452,556
Grosvenor Institutional Partners	\$13,091,531	\$0	\$171,701	\$13,263,232
Parametric Defensive Equity Fund	\$14,390,257	-\$13,130,144	-\$1,260,113	\$0
Principal US Property Account	\$26,653,779	\$0	-\$292,903	\$26,360,876
Harbert US Real Estate Fund V	\$4,474,598	-\$986,966	-\$269,930	\$3,217,702
Harbert US Real Estate Fund VI	\$11,089,309	-\$588,211	\$8,482	\$10,509,581
Harbert US Real Estate Fund VII	\$4,069,610	\$1,574,013	-\$177,640	\$5,465,984
Operating Account	\$6,491,961	-\$2,962,766	\$12,247	\$3,541,441
Mill Levy Operating Account	\$285,046	\$2,848,505	\$1,716	\$3,135,267
Total	\$282,940,944	-\$2,193,826	-\$10,024,391	\$270,722,728



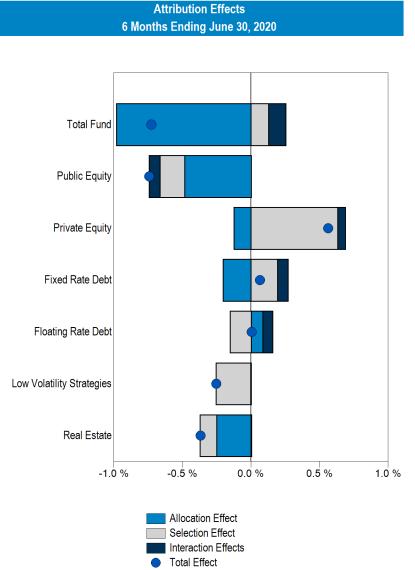
#### Total Fund

As of June 30, 2020





#### Total Fund

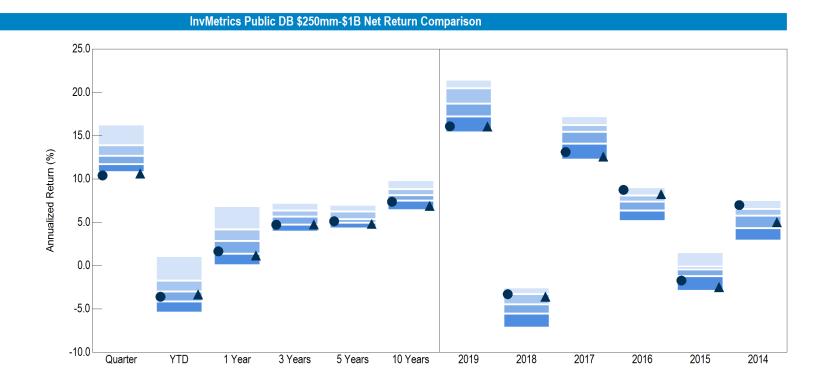


	Attribution Summary												
6 Months Ending June 30, 2020													
	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects						
Public Equity	-7.1%	-6.3%	-0.9%	-0.3%	-0.2%	-0.1%	-0.5%						
Private Equity	-9.1%	-20.9%	11.8%	0.6%	-0.1%	0.1%	0.6%						
Fixed Rate Debt	7.5%	6.1%	1.4%	0.2%	0.0%	0.0%	0.2%						
Floating Rate Debt	-5.7%	-4.8%	-0.9%	-0.1%	0.1%	0.1%	0.0%						
Low Volatility Strategies	-3.6%	-1.1%	-2.5%	-0.2%	0.0%	0.0%	-0.2%						
Real Estate	-1.6%	-0.9%	-0.7%	-0.1%	-0.1%	0.0%	-0.2%						
Total	-3.6%	-3.4%	-0.2%	0.1%	-0.4%	0.1%	-0.2%						



#### Total Fund

As of June 30, 2020



	Return (Ra	nk)										
5th Percentile	16.26	1.11	6.87	7.23	7.02	9.86	21.46	-2.53	17.25	9.04	1.53	7.56
25th Percentile	13.92	-1.73	4.19	6.38	6.27	8.86	20.48	-3.27	16.23	8.10	-0.09	6.57
Median	12.69	-2.96	2.87	5.66	5.39	8.14	18.72	-4.44	15.48	7.41	-0.44	5.78
75th Percentile	11.71	-4.12	1.40	4.75	4.96	7.52	17.24	-5.53	14.11	6.38	-1.20	4.33
95th Percentile	10.80	-5.43	0.04	3.93	4.31	6.40	15.40	-7.15	12.25	5.15	-2.90	2.89
# of Portfolios	37	37	37	33	30	22	77	73	59	57	49	31
Total Fund	10.41 (98)	-3.60 (62)	1.64 (73)	4.71 (79)	5.12 (71)	7.37 (78)	16.08 (91)	-3.30 (26)	13.11 (90)	8.74 (10)	-1.73 (84)	6.98 (13)
Policy Index	10.63 (98)	-3.34 (56)	1.17 (80)	4.76 (75)	4.80 (82)	6.90 (92)	16.06 (91)	-3.59 (30)	12.60 (92)	8.24 (22)	-2.48 (91)	5.01 (60)

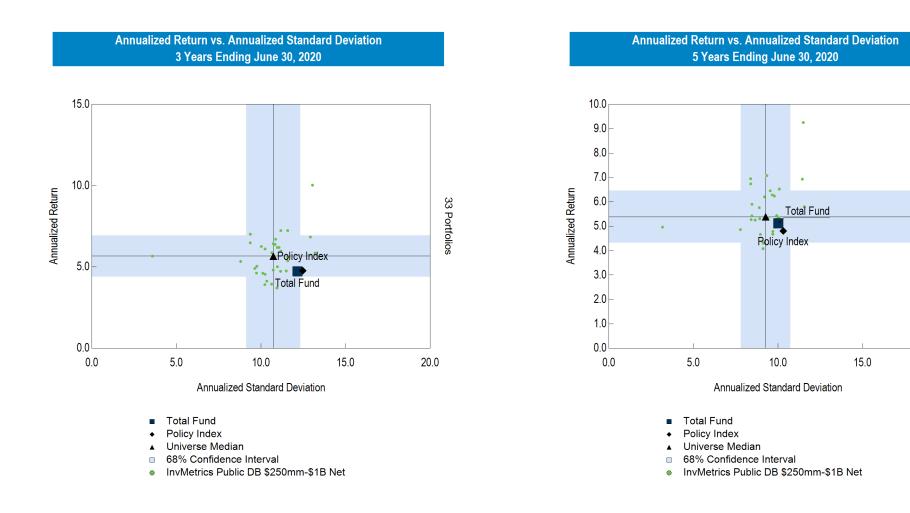
E ADVICE. ALIGNED

#### Total Fund

**30 Portfolios** 

20.0







#### **Total Fund**

As of June 30, 2020



#### 5 Year Risk Statistics vs IF Public DB \$250mm-\$1B Net



#### Total Fund

Performance Summary													
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	2019 (%)	2018 (%)	2017 (%)	2016 (%)	2015 (%)
Total Fund	270,722,728	100.0	10.4	-3.6	1.6	4.7	5.1	7.4	16.1	-3.3	13.1	8.7	-1.7
Policy Index			10.6	-3.3	1.2	4.8	4.8	6.9	16.1	-3.6	12.6	8.2	-2.5
InvMetrics Public DB \$250mm-\$1B Net Median			12.7	-3.0	2.9	5.7	5.4	8.1	18.7	-4.4	15.5	7.4	-0.4
Equity													
Public Equity	131,245,914	48.5	20.5	-7.1	1.9	5.3	5.9		28.5	-11.2	23.7	8.1	-3.2
MSCI ACWI			19.2	-6.3	2.1	6.1	6.5	9.2	26.6	-9.4	24.0	7.9	-2.4
InvMetrics Public DB Total Eq Net Median			19.5	-7.2	0.8	6.3	7.1	10.4	26.9	-8.4	22.6	9.2	-1.4
Private Equity	14,117,736	5.2	0.0	-9.1	-5.9	4.5	6.4	10.8	8.5	8.4	15.5	10.7	4.6
Russell 3000 Less Current Qtr			0.0	-20.9	-12.7	3.0	5.7	11.5	31.0	-5.2	21.1	12.7	0.5
Russell 3000			22.0	-3.5	6.5	10.0	10.0	13.7	31.0	-5.2	21.1	12.7	0.5
Debt													
Fixed Rate Debt	44,510,335	16.4	5.8	7.5	10.3	6.1	4.9		9.5	-0.1	4.3	3.3	0.1
BBgBarc US Aggregate TR			2.9	6.1	8.7	5.3	4.3	3.8	8.7	0.0	3.5	2.6	0.6
Intermediate Core Bond MStar MF Median			4.2	6.0	8.4	5.1	4.2	3.9	8.5	-0.3	3.9	3.2	0.2
Floating Rate Debt	15,354,660	5.7	4.5	-5.7	-1.0	3.7	4.4		9.9	3.9	6.3	8.5	3.3
Credit Suisse Leveraged Loans			9.7	-4.8	-2.3	2.1	2.9	4.3	8.2	1.1	4.2	9.9	-0.4
Alternatives													
Low Volatility Strategies	13,263,232	4.9	8.7	-3.6	0.8	3.0	3.1	3.6	11.1	-2.2	6.5	5.2	0.3
Low Volatility Custom Index			9.1	-1.1	2.8	4.5	2.8	3.5	12.2	-2.5	8.8	0.5	-0.3
Real Estate	45,554,143	16.8	-0.9	-1.6	2.4	6.7	8.5		7.2	9.3	10.6	9.7	13.1
Real Estate Custom Index			-1.6	-0.9	1.6	4.9	6.5		5.1	7.1	6.8	7.8	13.7



## Public Equity

As of June 30, 2020

Performance Summary													
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date			
Public Equity	131,245,914	100.0	20.5	-7.1	1.9	5.3	5.9		5.5	Jul-14			
MSCIACWI			19.2	-6.3	2.1	6.1	6.5	9.2	5.5	Jul-14			
InvMetrics Public DB Total Eq Net Rank			22	45	37	90	91		89	Jul-14			
InvMetrics Public DB Total Eq Net Median			19.5	-7.2	0.8	6.3	7.1	10.4	6.7	Jul-14			
Vanguard Institutional Index	70,116,754	53.4	20.5	-3.1	7.5				10.3	Jul-17			
S&P 500			20.5	-3.1	7.5	10.7	10.7	14.0	10.3	Jul-17			
Large Blend MStar MF Rank			45	30	23				16	Jul-17			
Large Blend MStar MF Median			20.5	-4.0	5.9	9.4	9.3	13.0	8.6	Jul-17			
Vanguard Total International Stock Index	21,699,580	16.5	18.1	-10.6	-4.1				0.0	Jul-17			
FTSE Global All Cap ex US			17.2	-10.9	-4.2	1.4	2.7	5.6	0.2	Jul-17			
Foreign Large Blend MStar MF Rank			31	47	47				25	Jul-17			
Foreign Large Blend MStar MF Median			17.1	-10.7	-4.3	0.7	2.0	5.7	-1.2	Jul-17			
American New Perspective Fd R6	13,428,569	10.2	23.9	1.3	11.1				10.4	Jul-17			
MSCI ACWI			19.2	-6.3	2.1	6.1	6.5	9.2	5.3	Jul-17			
MSCI ACWI Growth NR USD			25.1	5.5	16.6	13.2	10.8	12.0	12.4	Jul-17			
World Large Stock Mstar MF Rank			23	27	24				22	Jul-17			
World Large Stock Mstar MF Median			19.6	-5.4	2.1	5.2	6.0	9.5	4.0	Jul-17			
Dodge & Cox Global Equity Fd	11,892,074	9.1	20.3	-17.0	-8.4				-1.7	Jul-17			
MSCI ACWI			19.2	-6.3	2.1	6.1	6.5	9.2	5.3	Jul-17			
MSCI ACWI Value NR USD			12.7	-17.8	-11.8	-1.0	1.9	6.1	-1.9	Jul-17			
World Large Stock Mstar MF Rank			45	92	88				92	Jul-17			
World Large Stock Mstar MF Median			19.6	-5.4	2.1	5.2	6.0	9.5	4.0	Jul-17			
FIAM SMID Cap Core	14,108,937	10.8	23.5	-14.3	-8.1	1.8	3.8		8.4	Apr-13			
Russell 2500			26.6	-11.1	-4.7	4.1	5.4	11.5	8.2	Apr-13			
SMID Blend MStar MF Rank			49	45	45	40	44		14	Apr-13			
SMID Blend MStar MF Median			23.0	-15.1	-9.6	0.6	3.2	9.8	6.7	Арг-13			

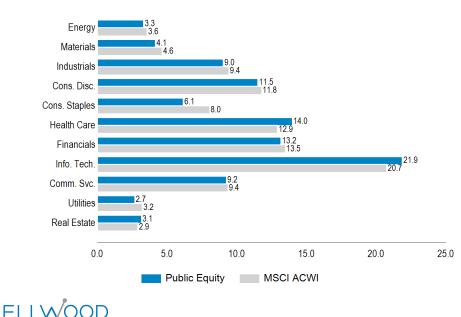


#### **Public Equity**

As of June 30, 2020

	Public Equity Performance Attribution vs.	MSCI ACWI	
		Attribution Effects	
	Total	Selection	Allocation
	Effects	Effect	Effect
Energy	0.28%	0.37%	-0.09%
Materials	-0.18%	-0.07%	-0.11%
Industrials	-0.04%	-0.01%	-0.03%
Consumer Discretionary	0.32%	0.36%	-0.03%
Consumer Staples	-0.13%	0.04%	-0.17%
Health Care	0.45%	0.23%	0.23%
Financials	-0.02%	0.03%	-0.05%
Information Technology	0.68%	0.28%	0.40%
Communication Services	0.04%	0.09%	-0.05%
Utilities	-0.07%	-0.03%	-0.04%
Real Estate	0.01%	-0.01%	0.02%
Cash	0.00%	0.00%	0.00%
Portfolio	1.34% =	1.26% +	0.09%

Sector Allocation (%)



 $\mathcal{D}$ 

ADVICE. ALIGNED

31.9 Energy 19.7 24.4 26.0 Materials 17.4 17.5 Industrials 31.8 Cons. Disc. 28.5 10.2 9.3 Cons. Staples 16.9 15.4 Health Care 12.7 12.5 Financials 31.3 29.9 Info. Tech. 21.0 20.0 Comm. Svc. 6.1 Utilities 11.0 Real Estate 0.0 10.0 20.0 30.0 Public Equity MSCI ACWI

Sector Returns (%)

## Public Equity

As of June 30, 2020

					Country A	Allocation						
				Versus MSCI	ACWI - Qua	rter Ending Ju	ine 30, 202	0				
	Country Allocation						Manager	Inde				
	Manager	Index				Ending Allocation	on (USD) En	ding Allocation (USD	)			
	Ending	Ending	Totals									
	Allocation	Allocation	Developed				92.6%	88.0%	, D			
	(USD)	(USD)	Emerging*				5.6%	12.0%				
Europe			Frontier**				0.0%	0.0%	, D			
Austria	0.0%	0.0%	Other				0.1%					
Belgium	0.1%	0.3%	Cash				1.7%					
Croatia**	0.0%	0.0%	Cours	try Allocation			Country	Allocation			Country Allocation	
Czech Republic*	* 0.0%	0.0%	Coun		المامير		Country		laday		Country Allocation	Indox
Denmark	0.5%	0.6%		Manager Ending	Index Ending			Manager Ending	Index Ending		Manager Ending	Index Ending
Estonia**	0.0%	0.0%		Allocation	Allocation			Allocation	Allocation		Allocation	Allocation
Finland	0.1%	0.3%		(USD)	(USD)			(USD)	(USD)		(USD)	(USD)
France	2.0%	3.0%	Americas			AsiaPacific				Other		
Germany	1.2%	2.5%	Argentina*	0.0%	0.0%	Australia		0.8%	1.9%	Bahrain**	0.0%	0.0%
Greece*	0.0%	0.0%	Brazil*	0.5%	0.6%			0.0%	0.0%	Egypt*	0.0%	0.0%
Hungary*	0.0%	0.0%		1.5%	2.8%	China*		1.3%	4.8%	Israel	0.1%	0.2%
Ireland	0.3%		Chile*	0.0%		Hong Kong		1.2%	0.9%	Jordan**	0.0%	0.0%
Italy	0.4%	0.6%	Colombia*	0.0%		India*		0.7%	1.0%	Kazakhstan**	0.0%	0.0%
Lithuania**	0.0%	0.0%	Mexico*	0.2%		Indonesia*		0.1%	0.2%	Kenya**	0.0%	0.0%
Luxembourg	0.0%	0.0%	Peru*	0.0%	0.0%	Japan		3.5%		Kuwait**	0.0%	0.0%
Netherlands	1.0%	1.2%	United States	74.0%	57.7%	Korea*		0.7%	1.4%	Lebanon**	0.0%	0.0%
Norway	0.1%	0.1%	Total-Americas	76.2%	61.4%	Malaysia*		0.1%	0.2%	Mauritius**	0.0%	0.0%
Poland*	0.0%	0.1%	,			New Zealand		0.1%	0.1%	Morocco**	0.0%	0.0%
Portugal	0.0%	0.0%				Pakistan*		0.0%	0.0%	Nigeria**	0.0%	0.0%
Romania**	0.0%	0.0%				Philippines*		0.0%	0.1%	Oman**	0.0%	0.0%
Russia*	0.2%	0.4%				Singapore		0.1%	0.3%	Other Countries	0.1%	0.0%
Serbia**	0.0%	0.0%				Sri Lanka**		0.0%	0.0%	Qatar*	0.0%	0.1%
Slovenia**	0.0%	0.0%				Taiwan*		0.9%	1.5%	Saudi Arabia*	0.1%	0.3%
Spain	0.5%	0.7%				Thailand*		0.1%	0.3%	South Africa*	0.4%	0.5%
Sweden	0.4%	0.8%				Vietnam**		0.0%	0.0%	Tunisia**	0.0%	0.0%
Switzerland	2.0%	2.8%				Total-AsiaPaci	ific	9.6%	19.7%	Turkey*	0.0%	0.1%
United Kingdom	2.7%	3.9%								United Arab Emira	tes* 0.0%	0.1%
Total-Europe	11.7%	17.7%								Total-Other	0.7%	1.2%



### Private Equity

				No	n-Marketabl	e Securities	Overview						
Account Type	Account	Vintage Year	Commitment		Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment	DPI (dist / takedowns)	RVPI (RV / takedowns)	TVPI (TV / takedown)	Takedown (takedowns / commit)	IRR
Private Equity	Adams Street 2012 Global Fund	2012	\$4,000,000	\$3,427,600	\$1,745,684	\$3,248,214	\$4,993,898	\$572,400	50.93%	94.77%	145.70%	85.69%	9.41
	Greenspring Global Partners IX-B	2019	\$5,750,000	\$2,357,500	\$0	\$2,385,797	\$2,385,797	\$3,392,500	0.00%	101.20%	101.20%	41.00%	1.37
	Mesirow Private Equity	2005	\$4,000,000	\$3,840,000	\$5,821,787	\$547,495	\$6,369,282	\$160,000	151.61%	14.26%	165.87%	96.00%	7.98
	Mesirow Private Equity IV	2006	\$4,500,000	\$4,275,000	\$5,874,475	\$1,491,338	\$7,365,813	\$225,000	137.41%	34.89%	172.30%	95.00%	9.73
	NGP Natural Resources XI	2014	\$2,000,000	\$1,806,695	\$405,869	\$1,313,960	\$1,719,829	\$193,305	22.46%	72.73%	95.19%	90.33%	-1.77
	RCP Fund XI	2016	\$6,000,000	\$3,540,000	\$0	\$3,414,121	\$3,414,121	\$2,460,000	0.00%	96.44%	96.44%	59.00%	-2.52
	Strategic Value Special Situations III	2013	\$2,000,000	\$1,820,000	\$1,004,582	\$1,716,811	\$2,721,393	\$180,000	55.20%	94.33%	149.53%	91.00%	9.74
	Total Account		\$28,250,000	\$21,066,795	\$14,852,397	\$14,117,736	\$28,970,133	\$7,183,205	70.50%	67.01%	137.52%	74.57%	8.07

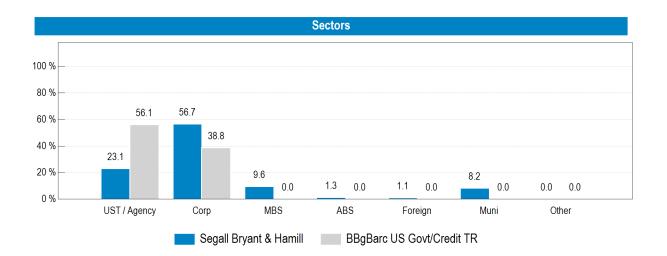


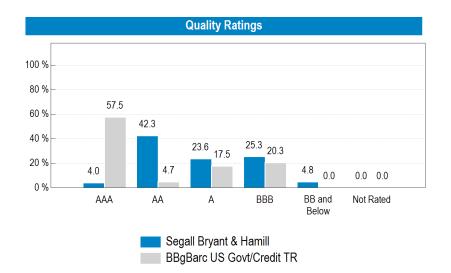
### Fixed Rate Debt

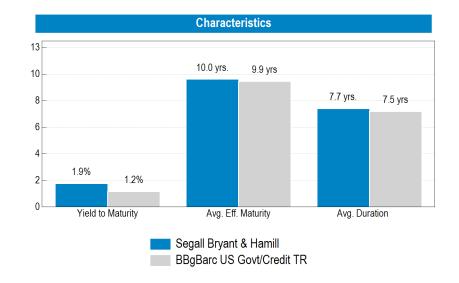
	Performance Summary													
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date				
Fixed Rate Debt	44,510,335	100.0	5.8	7.5	10.3	6.1	4.9		4.3	Jul-14				
BBgBarc US Aggregate TR			2.9	6.1	8.7	5.3	4.3	3.8	3.9	Jul-14				
Intermediate Core Bond MStar MF Rank			12	8	8	6	9		15	Jul-14				
Intermediate Core Bond MStar MF Median			4.2	6.0	8.4	5.1	4.2	3.9	3.8	Jul-14				
Segall Bryant & Hamill	28,327,589	63.6	5.3	6.4	9.1	5.9	4.9	4.5	6.2	Dec-89				
BBgBarc US Govt/Credit TR			3.7	7.2	10.0	5.9	4.7	4.1	6.1	Dec-89				
Intermediate Core Bond MStar MF Rank			24	24	20	9	9	16	4	Dec-89				
Intermediate Core Bond MStar MF Median			4.2	6.0	8.4	5.1	4.2	3.9	5.9	Dec-89				
BlackRock High Yield Bond	16,182,746	36.4							0.6	May-20				
BBgBarc US High Yield TR			10.2	-3.8	0.0	3.3	4.8	6.7	1.0	May-20				
High Yield Bond MStar MF Rank										May-20				
High Yield Bond MStar MF Median			9.4	-4.7	-1.0	2.6	3.8	6.0		May-20				



#### Segall Bryant & Hamill





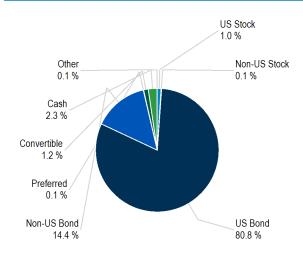




#### BlackRock High Yield Bond

As of June 30, 2020

#### Mutual Fund Allocation as of June 30, 2020



Fund Information as of June 30, 2020										
Fund Name	BLACKROCK HIGH YIELD BOND INSTL									
Ticker	BHYIX									
Morningstar Category	High Yield Bond									
Benchmark	BBgBarc US High Yield TR									
Expense Ratio	0.62%									
Fund Assets (\$mm)	11,352.01									
Share Class Inception Date	11/19/1998									
Manager Tenure	13									

Top Holdings as of June 30, 2020	
TRANSDIGM, INC. 6.25%	1.38%
ISHARES IBOXX \$ HIGH YIELD CORP BD ETF	0.87%
FREEPORT-MCMORAN INC 5.45%	0.63%
VERSCEND ESCROW CORP 9.75%	0.58%
ALTICE FRANCE HOLDINGS S A 10.5%	0.57%
SOLERA, LLC / SOLERA FINANCE, INC. 10.5%	0.56%
ISHARES BROAD USD HIGH YIELD CORP BD ETF	0.55%
ALLIED UNIVERSAL HOLDCO LLC / ALLIED UNIVERSAL FINANCE CORPORATION 6.62%	0.54%
ORACLE CORPORATION 3.85%	0.54%
BOOKING HOLDINGS INC 4.62%	0.53%

Fund Characteristics as of June 30, 2020	
Sharpe Ratio (3 Year)	
Average Duration	3.91
Average Coupon	5.99%
Average Effective Maturity	7.90
R-Squared (3 Year)	
Alpha (3 Year)	
Beta (3 Year)	

Fixed Income Sectors as of June 30, 2020								
GOVERNMENT	0.02%							
MUNICIPAL	0.00%							
CORPORATE	97.57%							
SECURITIZED	0.11%							
CASH & EQUIVALENTS	2.30%							
DERIVATIVE	0.01%							

Maturities as of June 30, 2020		Credit Quality as of June 30, 2020	
1 to 3 Years	6.30%	AAA	2.19%
3 to 5 Years	21.45%	AA	0.09%
5 to 7 Years	33.61%	A	1.88%
7 to 10 Years	22.62%	BBB	9.16%
10 to 15 Years	5.22%	BB	34.95%
15 to 20 Years	1.20%	В	33.82%
20 to 30 Years	7.45%	Below B	15.82%
Greater than 30 Years	1.08%	Not Rated	2.09%



### Floating Rate Debt

	Performance Summary												
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date			
Floating Rate Debt	15,354,660	100.0	4.5	-5.7	-1.0	3.7	4.4		4.3	Jul-14			
Credit Suisse Leveraged Loans			9.7	-4.8	-2.3	2.1	2.9	4.3	2.8	Jul-14			
Golub Capital Partners 11	6,321,954	41.2	11.9	-9.7	-5.6	4.6			4.6	Jul-17			
Principal Real Estate Debt Fund	308,478	2.0	-0.1	0.6	4.2	6.8	7.4		7.9	May-14			
Principal Real Estate Debt Fund II	7,271,673	47.4	-0.2	-1.0	3.9				8.5	Aug-17			
Principal Real Estate Debt Fund III	1,452,556	9.5							0.0	May-20			
Credit Suisse Leveraged Loans			9.7	-4.8	-2.3	2.1	2.9	4.3	5.2	May-20			



### Floating Rate Debt

	Non-Marketable Securities Overview												
Account Type	Account	Vintage Year	Commitment		Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment	DPI (dist / takedowns)	RVPI (RV / takedowns)	TVPI (TV / takedown)	Takedown (takedowns / commit)	IRR
Other	Golub Capital Partners 11	2017	\$8,000,000	\$6,600,000	\$449,926	\$6,321,954	\$6,771,880	\$1,400,000	6.82%	95.79%	102.60%	82.50%	1.56
	Principal Real Estate Debt Fund	2014	\$10,500,000	\$8,090,646	\$9,790,332	\$308,478	\$10,098,810	\$2,409,354	121.01%	3.81%	124.82%	77.05%	8.45
	Principal Real Estate Debt Fund II	2017	\$12,000,000	\$11,015,816	\$4,718,788	\$7,271,673	\$11,990,461	\$984,184	42.84%	66.01%	108.85%	91.80%	6.86
	Principal Real Estate Debt Fund III	2020	\$10,000,000	\$1,452,556	\$0	\$1,452,556	\$1,452,556	\$8,547,444	0.00%	100.00%	100.00%	14.53%	0.00
	Total Account		\$40,500,000	\$27,159,017	\$14,959,047	\$15,354,660	\$30,313,707	\$13,340,983	55.08%	56.54%	111.62%	67.06%	6.58

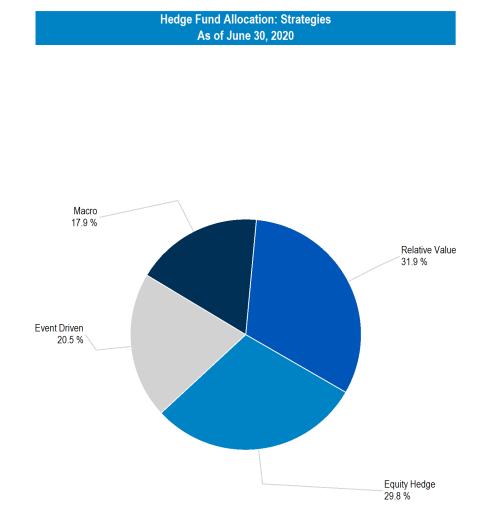


### Low Volatility Strategies

Performance Summary												
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date		
Low Volatility Strategies	13,263,232	100.0	8.7	-3.6	0.8	3.0	3.1	3.6	3.6	Sep-04		
Low Volatility Custom Index			9.1	-1.1	2.8	4.5	2.8	3.5	3.3	Sep-04		
Grosvenor Institutional Partners	13,263,232	100.0	7.7	1.3	3.8	3.2	2.3	4.1	3.9	Sep-04		
HFRI Fund of Funds Composite Index			7.5	-2.0	0.1	2.1	1.4	2.7	2.9	Sep-04		
InvMetrics Public DB Hedge Funds Net Rank			48	15	13	11	20	26		Sep-04		
InvMetrics Public DB Hedge Funds Net Median			7.2	-4.0	-1.4	1.4	0.6	2.8		Sep-04		



#### Grosvenor Institutional Partners



Total Hedge Fund Strategy Allocation									
As of June 30, 2020									
Strategy	Market Value	Percent							
Equity Hedge	\$3,948,464.17	29.77%							
Event Driven	\$2,720,288.88	20.51%							
Macro	\$2,368,813.24	17.86%							
Relative Value	\$4,225,665.72	31.86%							
TOTALS	\$13,263,232.00	100.00%							



#### Real Estate

Performance Summary										
	Market Value (\$)	% of Portfolio	3 Mo (%)	YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	10 Yrs (%)	Inception (%)	Inception Date
Real Estate	45,554,143	100.0	-0.9	-1.6	2.4	6.7	8.5		9.4	Jul-14
Real Estate Custom Index			-1.6	-0.9	1.6	4.9	6.5		7.6	Jul-14
Principal US Property Account	26,360,876	57.9	-1.5	-1.1	1.8	5.6	7.4	10.7	6.8	Sep-04
NCREIF-ODCE Net			-1.7	-1.0	1.3	4.7	6.3	9.8	6.7	Sep-04
Harbert US Real Estate Fund V	3,217,702	7.1	0.0	-7.7	-3.9	4.8	8.9		10.7	Jul-14
NCREIF Property Index			-1.5	-0.8	2.2	5.3	6.7	9.6	7.7	Jul-14
Harbert US Real Estate Fund VI	10,509,581	23.1	0.0	0.1	9.5	12.1			7.8	Apr-16
NCREIF Property Index			-1.5	-0.8	2.2	5.3	6.7	9.6	5.9	Apr-16
Harbert US Real Estate Fund VII	5,465,984	12.0	0.0	-3.6					-12.3	Oct-19
NCREIF Property Index			-1.5	-0.8	2.2	5.3	6.7	9.6	0.8	Oct-19



#### Real Estate

	Non-Marketable Securities Overview												
Account Type	Account	Vintage Year	Commitment		Cumulative Distributions	Value (RV)	Total Value (RV + Dist)	Unfunded Commitment	DPI (dist / takedowns)	RVPI (RV / takedowns)	TVPI (TV / takedown)	Takedown (takedowns / commit)	IRR
	Harbert US Real Estate Fund V		\$11,300,000	\$9,159,759	\$10,423,763	\$3,217,702	\$13,641,465	\$2,140,241	113.80%	35.13%	148.93%	81.06%	12.05
	Harbert US Real Estate Fund VI		\$10,000,000	\$9,050,238	\$1,862,519	\$10,509,581	\$12,372,099	\$949,762	20.58%	116.12%	136.70%	90.50%	10.93
	Harbert US Real Estate Fund VII	2019	\$11,600,000	\$5,791,576	\$0	\$5,465,984	\$5,465,984	\$5,808,424	0.00%	94.38%	94.38%	49.93%	-8.69
	Total Account		\$32,900,000	\$24,001,573	\$12,286,281	\$19,193,267	\$31,479,548	\$8,898,427	51.19%	79.97%	131.16%	72.95%	10.84

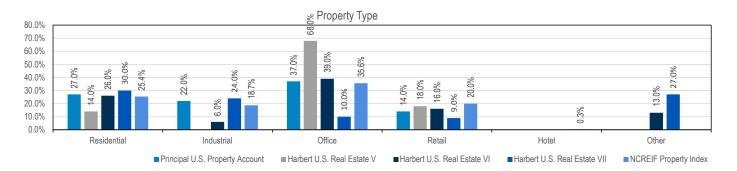


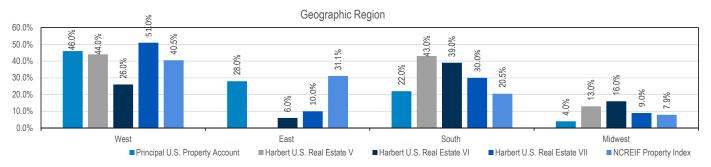
#### Private Equity Real Estate

As of June 30, 2020

#### Private Equity Real Estate Portfolio Characteristics As of March 31, 2020

	Principal U.S. Property Account	*Harbert U.S. Real Estate Fund V, LP	*Harbert U.S. Real Estate Fund VI, LP	*Harbert U.S. Real Estate Fund VII, LP
Gross Asset Value	\$10.35 Billion	N/A	N/A	N/A
Net Asset Value	\$7.99 Billion	\$119.3 Million	\$465.3 Million	\$97.5 Million
Leverage Ratio	20.2%	67.0%	63.0%	63.0%
Number of Investments	133	10	26	5
Number of Markets	41	6	11	5
Portfolio Occupancy	96.0%	82.0%	85.0%	77.0%





\*Information as of 03/31/2020.



#### Benchmark History

As of June 30, 2020

	Benchmark History								
Total Fund									
6/1/2020	Present	MSCI ACWI 50% / Russell 3000 Less Current Qtr 5% / BBgBarc US Aggregate TR 10% / BBgBarc US High Yield TR 5% / Credit Suisse Leveraged Loans 10% / HFRI Fund of Funds Composite Index 5% / NCREIF-ODCE Net 10% / NCREIF Property Index 5%							
12/1/2019	5/31/2020	MSCI ACWI 45% / Russell 3000 Less Current Qtr 5% / BBgBarc US Aggregate TR 15% / Credit Suisse Leveraged Loans 10% / 50% S&P500/50%T-Bills 5% / HFRI Fund of Funds Composite Index 5% / NCREIF-ODCE Net 10% / NCREIF Property Index 5%							
9/1/2019	11/30/2019	MSCI ACWI 40% / Russell 3000 Less Current Qtr 5% / BBgBarc US Aggregate TR 15% / Credit Suisse Leveraged Loans 10% / Alerian MLP TR USD 5% / 50% S&P500/50%T-Bills 5% / HFRI Fund of Funds Composite Index 5% / NCREIF-ODCE Net 10% / NCREIF Property Index 5%							
8/1/2017	8/31/2019	MSCI ACWI 40% / Russell 3000 Less Current Qtr 5% / BBgBarc US Aggregate TR 10% / Credit Suisse Leveraged Loans 15% / Alerian MLP TR USD 5% / 50% S&P500/50%T-Bills 5% / HFRI Fund of Funds Composite Index 5% / NCREIF-ODCE Net 10% / NCREIF Property Index 5%							
10/1/2014	7/31/2017	MSCI ACWI 40% / Russell 3000 5% / BBgBarc US Aggregate TR 10% / Credit Suisse Leveraged Loans 10% / Alerian MLP TR USD 10% / HFRI Fund of Funds Composite Index 10% / NCREIF-ODCE Net 10% / NCREIF Property Index 5%							
7/1/2014	9/30/2014	MSCI ACWI 40% / Russell 3000 5% / BBgBarc US Aggregate TR 15% / Credit Suisse Leveraged Loans 10% / Alerian MLP TR USD 5% / HFRI Fund of Funds Composite Index 10% / NCREIF-ODCE Net 10% / NCREIF Property Index 5%							
10/1/2013	6/30/2014	MSCI ACWI 40% / Russell 3000 5% / BBgBarc US Aggregate TR 25% / Credit Suisse Leveraged Loans 5% / Alerian MLP TR USD 5% / HFRI Fund of Funds Composite Index 10% / NCREIF-ODCE Net 10%							
1/1/2012	9/30/2013	MSCI ACWI 40% / Russell 3000 5% / BBgBarc US Aggregate TR 25% / Alerian MLP TR USD 5% / HFRI Fund of Funds Composite Index 15% / NCREIF-ODCE Net 10%							
10/1/2010	12/31/2011	MSCI ACWI 45% / Russell 3000 5% / BBgBarc US Aggregate TR 25% / HFRI Fund of Funds Composite Index 15% / NCREIF-ODCE Net 10%							
9/1/2009	9/30/2010	MSCI ACWI 55% / Russell 3000 5% / BBgBarc US Aggregate TR 20% / HFRI Fund of Funds Composite Index 10% / NCREIF-ODCE Net 10%							
7/1/2007	8/31/2009	Russell 3000 40% / MSCI ACWI ex USA 20% / BBgBarc US Aggregate TR 20% / HFRI Fund of Funds Composite Index 10% / NCREIF-ODCE Net 10%							
7/1/2005	6/30/2007	Russell 3000 45% / MSCI EAFE 15% / BBgBarc US Aggregate TR 20% / HFRI Fund of Funds Composite Index 10% / NCREIF-ODCE Net 10%							
10/1/2004	6/30/2005	S&P 500 38% / Russell 2000 12% / MSCI EAFE 10% / BBgBarc US Aggregate TR 10% / BBgBarc US Govt/Credit TR 10% / HFRI Fund of Funds Composite Index 10% / NCREIF-ODCE Net 10%							
1/1/2004	9/30/2004	S&P 500 38% / Russell 2000 12% / MSCI EAFE 10% / BBgBarc US Aggregate TR 20% / BBgBarc US Govt/Credit TR 20%							
7/1/2001	12/31/2003	S&P 500 40% / Russell 2000 Growth 10% / MSCI EAFE 10% / BBgBarc US Aggregate TR 20% / BBgBarc US Govt/Credit TR 20%							
4/1/2000	6/30/2001	S&P 500 40% / Russell 2000 Growth 10% / MSCI EAFE 10% / BBgBarc US Govt/Credit Int TR 30% / BBgBarc US Govt/Credit TR 10%							
1/1/1998	3/31/2000	S&P 500 40% / Russell 2000 10% / MSCI EAFE 10% / BBgBarc US Govt/Credit Int TR 30% / BBgBarc US Govt/Credit TR 10%							
1/1/1995	12/31/1997	S&P 500 35% / MSCI EAFE 10% / BBgBarc US Govt/Credit Int TR 41% / BBgBarc US Govt/Credit TR 14%							
1/1/1992	12/31/1994	S&P 500 40% / BBgBarc US Govt/Credit Int TR 45% / BBgBarc US Govt/Credit TR 15%							
1/1/1990	12/31/1991	S&P 500 40% / BBgBarc US Govt/Credit Int TR 60%							

#### Low Volatility Strategies

6/1/2020	Present	HFRI Fund of Funds Composite Index 100%
9/1/2017	5/31/2020	HFRI Fund of Funds Composite Index 50% / 50% S&P500/50%T-Bills 50%
9/1/2004	8/31/2017	HFRI Fund of Funds Composite Index 100%

#### Real Estate

EL

7/1/2014

ADVICE. ALIGNED.

\_WOOD

Present NCREIF-ODCE Net 67% / NCREIF Property Index 33%

#### Manager Roster

As of June 30, 2020

Manager Roster									
	Account Type	Benchmark	Universe	Market Value	Allocation	Inception			
Adams Street 2012 Global Fund	Private Equity			\$3,248,214	1.2%	2/1/2012			
American New Perspective Fd R6	Public Equity	MSCI ACWI	World Large Stock Mstar MF	\$13,428,569	5.0%	7/31/2017			
BlackRock High Yield Bond	Fixed Rate Debt	BBgBarc US High Yield TR	High Yield Bond MStar MF	\$16,182,746	6.0%	5/31/2020			
Dodge & Cox Global Equity Fd	Public Equity	MSCI ACWI	World Large Stock Mstar MF	\$11,892,074	4.4%	7/31/2017			
FIAM SMID Cap Core	Public Equity	Russell 2500	SMID Blend MStar MF	\$14,108,937	5.2%	4/1/2013			
Golub Capital Partners 11	Floating Rate Debt			\$6,321,954	2.3%	7/1/2017			
Greenspring Global Partners IX-B	Private Equity			\$2,385,797	0.9%	2/1/2019			
Grosvenor Institutional Partners	Low Volatility	HFRI Fund of Funds Composite Index	x InvMetrics Public DB Hedge Funds Net	\$13,263,232	4.9%	9/1/2004			
Harbert US Real Estate Fund V	Real Estate	NCREIF Property Index		\$3,217,702	1.2%	7/1/2014			
Harbert US Real Estate Fund VI	Real Estate	NCREIF Property Index		\$10,509,581	3.9%	4/1/2016			
Harbert US Real Estate Fund VII	Real Estate	NCREIF Property Index		\$5,465,984	2.0%	10/1/2019			
Mesirow Private Equity III	Private Equity			\$547,495	0.2%	9/1/2005			
Mesirow Private Equity IV	Private Equity			\$1,491,338	0.6%	3/1/2007			
Mill Levy Operating Account	Cash			\$3,135,267	1.2%	2/28/2018			
NGP Natural Resources XI	Private Equity			\$1,313,960	0.5%	11/1/2014			
Operating Account	Cash			\$3,541,441	1.3%	10/1/1998			
Principal Real Estate Debt Fund	Floating Rate Debt			\$308,478	0.1%	5/1/2014			
Principal Real Estate Debt Fund II	Floating Rate Debt			\$7,271,673	2.7%	8/1/2017			
Principal Real Estate Debt Fund III	Floating Rate Debt	Credit Suisse Leveraged Loans		\$1,452,556	0.5%	5/1/2020			
Principal US Property Account	Real Estate	NCREIF-ODCE Net		\$26,360,876	9.7%	9/1/2004			
RCP Fund XI	Private Equity			\$3,414,121	1.3%	12/1/2016			
Segall Bryant & Hamill	Fixed Rate Debt	BBgBarc US Govt/Credit TR	Intermediate Core Bond MStar MF	\$28,327,589	10.5%	12/31/1989			
Strategic Value Special Situations III	Private Equity			\$1,716,811	0.6%	10/1/2014			
Vanguard Institutional Index	Public Equity	S&P 500	Large Blend MStar MF	\$70,116,754	25.9%	7/31/2017			
Vanguard Total International Stock Index	Public Equity	FTSE Global All Cap ex US	Foreign Large Blend MStar MF	\$21,699,580	8.0%	7/31/2017			
Total		Policy Index	InvMetrics Public DB \$250mm-\$1B Net	\$270,722,728	100.0%	1/1/1990			



### Fee Schedule

As of June 30, 2020

	Fee Schedu	le			
Account	Fee Schedule	Market Value As of 6/30/2020	% of Portfolio	Estimated Annual Fee (\$)	Estimated Annual Fee (%)
Vanguard Institutional Index	0.04% of Assets	\$70,116,754	25.9%	\$28,047	0.04%
Vanguard Total International Stock Index	0.09% of Assets	\$21,699,580	8.0%	\$19,530	0.09%
American New Perspective Fd R6	0.45% of Assets	\$13,428,569	5.0%	\$60,429	0.45%
Dodge & Cox Global Equity Fd	0.63% of Assets	\$11,892,074	4.4%	\$74,920	0.63%
FIAM SMID Cap Core	0.65% of Assets	\$14,108,937	5.2%	\$91,708	0.65%
Adams Street 2012 Global Fund	1.00% of Assets	\$3,248,214	1.2%	\$32,482	1.00%
Greenspring Global Partners IX-B	14,375 Quarterly	\$2,385,797	0.9%	\$57,500	2.41%
Mesirow Private Equity III	1.00% of Assets	\$547,495	0.2%	\$5,475	1.00%
Mesirow Private Equity IV	1.00% of Assets	\$1,491,338	0.6%	\$14,913	1.00%
NGP Natural Resources XI	7,500 Quarterly	\$1,313,960	0.5%	\$30,000	2.28%
RCP Fund XI	15,000 Quarterly	\$3,414,121	1.3%	\$60,000	1.76%
Strategic Value Special Situations III	8,750 Quarterly	\$1,716,811	0.6%	\$35,000	2.04%
Segall Bryant & Hamill	0.30% of First 25.0 Mil, 0.25% Thereafter	\$28,327,589	10.5%	\$83,319	0.29%
BlackRock High Yield Bond	0.62% of Assets	\$16,182,746	6.0%	\$100,333	0.62%
Golub Capital Partners 11	1.00% of Assets	\$6,321,954	2.3%	\$63,220	1.00%
Principal Real Estate Debt Fund	0.65% of Assets	\$308,478	0.1%	\$2,005	0.65%
Principal Real Estate Debt Fund II	0.85% of Assets	\$7,271,673	2.7%	\$61,809	0.85%
Principal Real Estate Debt Fund III	0.95% of Assets	\$1,452,556	0.5%	\$13,799	0.95%
Grosvenor Institutional Partners	1.25% of First 25.0 Mil, 1.00% of Next 25.0 Mil	\$13,263,232	4.9%	\$165,790	1.25%
Principal US Property Account	1.00% of Assets	\$26,360,876	9.7%	\$263,609	1.00%
Harbert US Real Estate Fund V	1.50% of Assets	\$3,217,702	1.2%	\$48,266	1.50%
Harbert US Real Estate Fund VI	31,250 Quarterly	\$10,509,581	3.9%	\$125,000	1.19%
Harbert US Real Estate Fund VII	39,150 Quarterly	\$5,465,984	2.0%	\$156,600	2.86%
Operating Account	0.18% of Assets	\$3,541,441	1.3%	\$6,375	0.18%
Mill Levy Operating Account	0.18% of Assets	\$3,135,267	1.2%	\$5,643	0.18%
Investment Management Fee		\$270,722,728	100.0%	\$1,605,771	0.59%



# Endnotes

- As a service to clients, Ellwood may provide reporting information on all assets held in your account, including assets for which it does not provide advisory services. Such assets may include legacy assets, assets for which you have engaged other advisors and, with respect to retirement plans, (i) self-directed brokerage, mutual fund window and similar options, (ii) employer securities, and (iii) real property. While Ellwood seeks to identify such assets as "excluded assets" in your reports and/or in your Consulting Services Agreement, Ellwood shall not be liable or responsible in any respect for the supervision or oversight of such assets.
- The historical information included herein regarding the performance by various funds and managers is historical only and is not a guarantee of future performance.
- Included in this report are various indices and market information as well as, in some cases, prior investment manager data regarding your plan ("Third Party Data"). Such information may
  include, but is not limited to, information that Ellwood purchases from commercial sources and information that is provided to Ellwood at no cost. Ellwood Associates has no duty to investigate
  or inquire into the accuracy or reliability of Third Party Data, and Ellwood may rely fully and completely on any and all such information.
- Regarding asset allocations, Ellwood obtains information from multiple sources believed to be reliable as of the date of publication; Ellwood, however, makes no representations as to the
  accuracy or completeness of such third party information. Ellwood has no obligation to update, modify or amend this information or to otherwise notify a reader thereof in the event that any
  such information becomes outdated, inaccurate, or incomplete. Specific needs of a client must be reviewed and assessed before determining the proper allocation for a client and must be
  adjusted to market circumstances. Any opinions herein reflect our judgment as of this date and are subject to change.
- Hypothetical performance results have many inherent limitations. No representation is being made that any performance will or is likely to achieve profits or losses similar to those shown. In fact, there are frequently sharp differences between hypothetical performance results and the actual results subsequently achieved by any particular trading program. One of the limitations of a hypothetical performance record is that decisions relating to the selection of managers and the allocation of assets among those managers were made with the benefit of hindsight based upon the historical rates of return of the selected trading advisors. Therefore, performance records invariably show positive rates of return. Another inherent limitation of these results is that the allocation decisions reflected in the performance record were not made under actual market conditions and, therefore, cannot completely account for the impact of financial risk in actual trading.
- Ellwood's calculations and liability output may differ from the client's actuary's calculations and liability output. This information is not to be used for client financial reporting and is intended for investment analysis purposes only.
- Russell Investment Group is the source and owner of the Russell Index data contained or reflected in this material and all trademarks and copyrights related thereto. The material may contain confidential information and unauthorized use, disclosure, copying, dissemination or redistribution is strictly prohibited. This is an Ellwood presentation of the data. Russell Investment Group is not responsible for the formatting or configuration of this material or for any inaccuracy in presentation thereof.
- Information has been obtained from sources believed to be reliable but J.P. Morgan does not warrant its completeness or accuracy. The Index is used with permission. The Index may not be copied, used, or distributed without J.P. Morgan's prior written approval. Copyright 2020, JPMorgan Chase & Co. All rights reserved.
- Manager and universe returns are shown net of investment management expenses. Index returns are shown gross of investment management expenses. All figures shown are gross the fees
  and expenses of Ellwood.
- Performance for the Ellwood direct hedge fund Platforms is illustrative prior to client investment. Illustrative performance is provided solely to demonstrate Ellwood's investment process and performance of the underlying asset class, and does not represent client's actual investment results. Illustrative performance is derived from applying the stated allocation during the period shown to actual historical performance data of the underlying hedge funds. Actual allocations and underlying funds selected may differ based on the circumstances of individual clients. Illustrative performance information is not meant to be a historical description of results or a prediction of future performance. Actual results may vary from the results illustrated herein and such variations may be material.
- In presenting the information of a private fund (e.g., hedge fund, private equity fund, venture capital fund or real estate fund), Ellwood will generally rely on information obtained directly from
  the private fund's manager, including valuation, performance, capital call and distribution information. Such information typically lags at least one quarter but not more than two quarters due
  to time necessary to complete the valuation process; however valuations presented in this report may be adjusted by Ellwood to reflect capital calls and distributions made by a private fund
  through the reporting date shown. Valuation and performance information of private funds are subject to a number of assumptions and judgments, and are highly subjective in nature. Ellwood
  makes no representations or warranties as to the information included herein and is under no obligation to update this report for subsequent changes in such information.
- Confidentiality: All information contained herein is the confidential and proprietary information of Ellwood and/or the underlying investment managers. Such information may be used only for
  your investment purposes and may not be disseminated to third parties without the written consent of Ellwood Associates.



# Endnotes

- Indices (and associated data) published, administered and/or owned and/or controlled by S&P Dow Jones Indices LLC, its affiliates, and/or their third party licensors and used in this publication have been licensed for use by J.H. Ellwood & Associates, Inc. Copyright © 2020 S&P Dow Jones Indices LLC, its affiliates and/or third party licensors. All rights reserved. Redistribution or reproduction in whole or in part are prohibited without written permission of S&P Dow Jones Indices LLC. For more information on any of S&P Dow Jones Indices LLC's indices please visit www.spdji.com. S&P® is a registered trademark of S&P Global and Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC. Neither S&P Dow Jones Indices LLC, Dow Jones Trademark Holdings LLC, their affiliates nor their third party licensors make any representation or warranty, express or implied, as to the ability of any index to accurately represent the asset class or market sector that it purports to represent and neither S&P Dow Jones Indices LLC, Dow Jones Trademark Holdings LLC, their affiliates nor their third party licensors shall have any liability for any errors, omissions, or interruptions of any index or the data included therein.
- Copyright ©2020 MSCI. Unpublished. All Rights Reserved. This information may only be used for your internal use, may not be reproduced or redisseminated in any form and may not be used to create any financial instruments or products or any indices. This information is provided on an "as is" basis and the user of this information assumes the entire risk of any use it may make or permit to be made of this information. Neither MSCI, any or its affiliates or any other person involved in or related to compiling, computing or creating this information makes any express or implied warranties or representations with respect to such information or the results to be obtained by the use thereof, and MSCI, its affiliates and each such other person hereby expressly disclaim all warranties (including, without limitation, all warranties of originality, accuracy, completeness, timeliness, non-infringement, merchantability and fitness for a particular purpose) with respect to this information. Without limiting any of the foregoing, in no event shall MSCI, any of its affiliates or any other person involved in or related to compiling, computing, without limitation, lost profits) even if notified of, or if it might otherwise have anticipated, the possibility of such damages.
- CRSP: Calculated/Derived based upon data from CRSP® Indexes Data Center for Research in Security Prices (CRSP®), The University of Chicago Booth School of Business.
- FTSE International Limited ("FTSE") © FTSE 2020. FTSE® is a trade mark of the London Stock Exchange Group companies and is used by FTSE under license. All rights in the FTSE indices and / or FTSE ratings vest in FTSE and/or its licensors. Neither FTSE nor its licensors accept any liability for any errors or omissions in the FTSE indices and / or FTSE ratings or underlying data. No further distribution of FTSE Data is permitted without FTSE's express written consent. FTSE does not promote, sponsor nor endorse the research report.
- Copyright © 2020 PitchBook Data, Inc. All rights reserved. PitchBook Data, Inc. makes no representation or warranty, express or implied, regarding any data it provides, and PitchBook Data, Inc. shall have no liability for any errors, omissions, or interruptions of any data so provided, directly or indirectly, by PitchBook Data, Inc.
- NCREIF (National Council of Real Estate Investment Fiduciaries)
- The HFRI index(es) listed in this report is being used under license from Hedge Fund Research, Inc., which does not approve of or endorse the contents of this report. www.hedgefundreasearch.com
- "Alerian MLP Index", "Alerian MLP Total Return Index", "AMZ", and "AMZX" are trademarks of GKD Index Partners d/b/a Alerian ("Alerian") and their use is granted under a license from Alerian. Alerian does not guarantee the accuracy and/or completeness of the Alerian MLP Index or any data included therein and Alerian shall have no liability for any errors, omissions, interruptions or defects therein. Alerian makes no warranty, express or implied, representations or promises, as to results to be obtained by Licensee, or any other person or entity from the use of the Alerian MLP Index or any data included therein. Alerian makes no express or implied warranties, representations or promises, regarding the originality, merchantability, suitability, or fitness for a particular purpose or use with respect to the Alerian MLP Index or any data included therein. Without limiting any of the foregoing, in no event shall Alerian have any liability for any direct, indirect, special, incidental, punitive, consequential, or other damages (including lost profits), even if notified of the possibility of such damages.
- Source ICE Data Indices, LLC ("ICE DATA"), is used with permission. ICE DATA, its affiliates and their respective third party suppliers disclaim any and all warranties and representations, express and/or implied, including any warranties of merchant ability or fitness for a particular purpose or use, including the indices, index data and any data included in, related to, or derived therefrom. Nether ICE DATA, its affiliates nor their respective third party providers shall be subject to any damages or liability with respect to the adequacy, accuracy, timeliness or completeness of the indices or the index data or any component thereof, and the indices and index data and all components thereof are provided on an "as is" basis and your use is at your own risk. ICE DATA, its affiliates and their respective third party suppliers do not sponsor, endorse, or recommend Ellwood, or any of its products or services.

Updated 04/01/20

