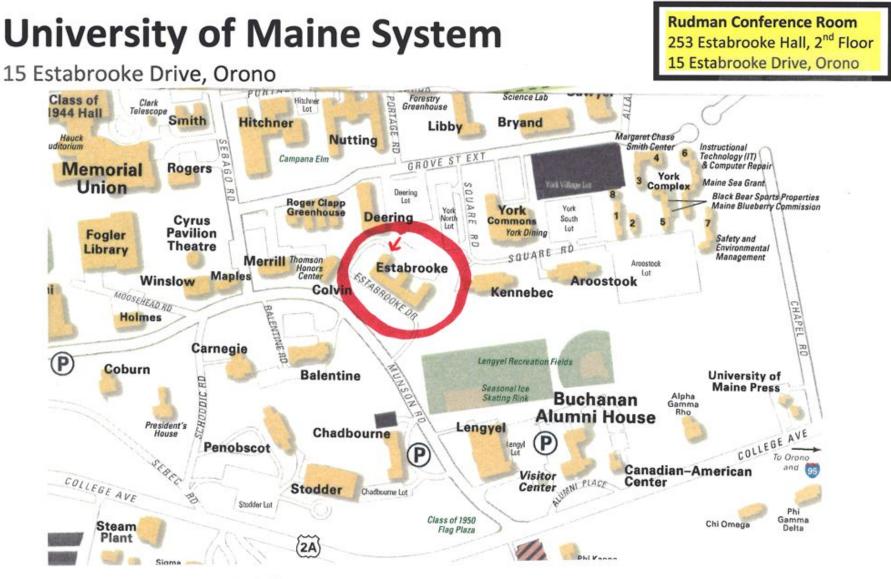


Board of Trustees 15 Estabrooke Drive Orono, ME 04469	Febru	ary 19, 2020					
Tel: 207-581-5844 Fax: 207-581-9212	TO:	Members of the Investment Committee					
www.maine.edu	FR:	Ellen N. Doughty, Clerk of the Board Ellen N. Doughty					
	RE:	February 27, 2020 – Investment Committee Meeting					
The University of Maine		nvestment Committee will meet from <u>9:00 am to 12:00 pm on February 27</u> . The meeting will be held at the University of Maine System Executive					
University of Maine at Augusta	Offices in the Rudman Conference Room, 253 Estabrooke Hall, 15 Estabrooke Drive in Orono. The following Polycom sites will also be available:						
University of Maine at Farmington	UMA – Room 125, Robinson Hall UMF – Executive Conference Room 103, Merrill Hall						
University of Maine at Fort Kent	UMFK – Alumni Conference Room, Nadeau Hall USM – Room 423/424, Glickman Library						
University of Maine at Machias		Phone – 1-800-605-5167 Passcode 743544#					
University of Maine at Presque isle		shments will be provided at the UMS & USM locations. The meeting materials been posted to the Diligent Board Portal and on the Board of Trustees website:					
University of Southern Maine	_	/www.maine.edu/about-the-system/board-of-trustees/meeting- las/investment-committee/					
	If you	have questions about the meeting arrangements or accessing the meeting					

If you have questions about the meeting arrangements or accessing the meeting materials please call me at 581-5840. If you have any questions or desire additional information about the agenda items, please call Tracy Elliott at 581-5492.

cc: Chancellor Dannel Malloy Board of Trustees System Staff Campus Presidents



Directions to the UMS located on the UMaine Campus

From the South on I-95: take exit 191 to Kelly Road and turn right. Continue on Kelly Road for 1 mile until you reach the traffic light, then turn left onto Route 2 and go through downtown Orono. Cross the river. Turn left at the lights onto College Avenue. Buchanan Alumni House will be the first campus-related building on your right. Right after the Buchanan Alumni House, take a right onto Muson Road. Estabrooke Hall is the building on the right after Lengyel.

From the North on I-95: take exit 191 to Kelly Road and turn left. Continue on Kelly Road for 1 mile until you reach the traffic light, then turn left onto Route 2 and go through downtown Orono. Cross the river. Turn left at the lights onto College Avenue. Buchanan Alumni House will be the first campus-related building on your right. Right after the Buchanan Alumni House, take a right onto Muson Road. Estabrooke Hall is the building on the right after Lengyel.

The UMS is located on the 2nd floor of Estabrooke Hall. Enter Estabrooke Hall from the back of the building, the entrance closes to Deering Hall.

Board of Trustees

Investment Committee

February 27, 2020, 9:00 am to 12:00 pm Rudman Conference Room, 253 Estabrooke Hall, Orono

AGENDA

- TAB 1 FY2021 UMS Endowment Spending Rate
- TAB 2Asset Allocation Review
- TAB 3 Performance Review- Managed Investment Pool, Pension Fund & Operating Fund
- TAB 4 Defined Contribution Plan Quarterly Review
- TAB 5 Contributory Retirement Plans Investment Advisory Services Contract Extension

Action items within the Committee purview are noted in green. Items for Committee decisions and recommendations are noted in red.

Note: Times are estimated based upon the anticipated length for presentation or discussion of a particular topic. An item may be brought up earlier or the order of items changed for effective deliberation of matters before the Committee.



AGENDA ITEM SUMMARY

- 1. NAME OF ITEM: FY2021 Endowment Spending Rate
- 2. INITIATED BY: Sven P. Bartholomew, Chair Pro tem
- **3. BOARD INFORMATION: X**
- 4. OUTCOME: Primary Outcome: Enhance fiscal positioning

BOARD ACTION:

BOARD POLICY: Section 709 - Investments

5. BACKGROUND:

At its December 2, 2019 meeting, the Investment Committee reviewed and supported the recommended fiscal year 2021 (FY21) endowment spending rate of 4.5%. This rate is estimated to generate nearly \$5.9 million for the fiscal year, including \$4.7 million for endowed spending and \$1.2 million for management fees. The enclosed materials provides additional summary information related to the estimated annual distributions.

1

UNIVERSITY OF MAINE SYSTEM ENDOWMENT SPENDING RATE - FY21

Market Value - Per GL for Endowments Subject to UMSystem Spending Rule:

MV
\$ 128,504,394
\$ 126,592,794
\$ 135,431,886
\$ 130,176,358
4.50%
\$ 5,857,936

Annual Distribution Rate Per Share for FY21:*	UM	USM	GUS	All Others
Dist. Rate Per Share for FY21 = Net Estimated Endow Amount to be Distrib/Total Shares:				
FY21 Share Rate - Gift Accounts	\$ 10.87347	\$ 10.87347	\$ 14.21916	\$ 15.05558
FY21 Share Rate - Management Fee Accounts	\$ 4.18211	\$ 4.18211	\$ 0.83642	\$ -
FY21 Share Rate - Gross	\$ 15.05558	\$ 15.05558	\$ 15.05558	\$ 15.05558

Total Estimated Shares for FY21:	Total	UM	USM	GUS	All Others
Shares subject to UMS spending rule and not underwater	389,055	240,964	47,651	22,058	78,383
Shares subject to UMS spending rule and underwater	32	-	-	-	32
Total Shares as of October 2019	389,087	240,964	47,651	22,058	78,415

Calculation of Annual Distribution for FY21:	Total	UM**	USM	GUS***		All Others
Amount Distributed for Endowed Spending	\$ 4,694,160	\$ 2,682,224	\$ 518,131	\$ 313,7	04	\$ 1,180,101
Amount Distributed for the Management Fee	1,163,290	945,622	199,282	18,3	86	-
Amount Distributed Including Management Fee (rate per share X number of shares)	5,857,451	3,627,847	717,413	332,0	90	1,180,101
Amount Reinvested Back into Underwater Investments	486	-	-		-	486
Total Allocation (Distributed Plus Amount Returned to Principal for Underwater Investments)	\$ 5,857,936	\$ 3,627,847	\$ 717,413	\$ 332,0	90	\$ 1,180,587

* In FY17 the UM and USM share rate for management fee accounts increased from .25% to 1.25% and remained the same for FY18 thru FY21.

Governance and University Services (GUS) stayed at .25% . No other campus applies a management fee.

** UM's shares subject to the spending rate and above water include two endowments (totaling 14,852.25 shares) that do not allow a management fee. Therefore, the amount distributed for the UM management fee differs from the amount that would be obtained simply by multiplying the management fee per share by the number of shares.

*** GUS' shares subject to the spending rate and above water include one endowment (76.08 shares) that does not allow a management fee. Therefore, the amount distributed for the GUS management fee differs from the amount that would be obtained simply by multiplying the management fee per share by the number of shares.



AGENDA ITEM SUMMARY

- 1. NAME OF ITEM: Asset Allocation Review
- 2. INITIATED BY: Sven P. Bartholomew, Chair Pro tem
- 3. **BOARD INFORMATION:**
- 4. **OUTCOME:** Primary Outcome: Enhance fiscal positioning

5. **BACKGROUND:**

Kelly Regan and Jay Roney, with NEPC, will review the asset allocation for all three portfolios (Managed Investment Pool, Pension Fund and Operating Fund). There are no recommendations for the Pension Fund and Operating Fund. There are three recommendations for the Managed Investment Pool as outlined in the proposed resolution.

6. **TEXT OF PROPOSED RESOLUTION:**

That the Board of Trustees, acting through the Investment Committee, approves the following asset allocation recommendations:

Managed Investment Pool

- 1. Add a 10% allocation to global equity by reducing large cap equity (5%), small cap equity (1%), international developed equity (3%) and international small cap equity (1%).
- 2. Implement the global equity allocation through Walter Scott's Global Equity strategy which is currently utilized in the Pension Fund.
- 3. Diversify the international developed equity manager line-up with the addition of JO Hambro International Select and elimination of Globeflex International All Cap.

BOARD ACTION: X

Section 709 - Investments

BOARD POLICY:

ASSET ALLOCATION REVIEW



UNIVERSITY OF MAINE SYSTEM

February 27, 2019

Jay Roney, Partner Kelly Regan, Senior Consultant



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NEPC THOUGHTS TO START THE NEXT DECADE

A renewed emphasis on strategic asset allocation

10-year capital market return assumptions provide a greater focus on the strategic asset allocation process as the asset class assumptions are representative of a long-term view

Look to *reassess* overall portfolio *return expectations* in 2020

Return assumptions relative to 2019 have declined considerably both for a 10-year and a 30-year time horizon due to a significant shift in interest rates and inflation expectations

	Asset Class Return Assumptions	2020 10-Year	2019 10-Year	Annual Change
	Cash	1.8%	2.6%	-0.8%
	Large Cap Equities	5.0%	6.2%	-1.2%
>	International Equities (Unhedged)	6.0%	7.3%	-1.3%
Equity	Emerging International Equities	9.0%	9.2%	-0.2%
ш	Global Equity*	6.2%	7.3%	-1.1%
	Private Equity*	9.4%	10.1%	-0.7%
	Treasuries	1.9%	2.5%	-0.6%
Fixed ncome	Core Bonds*	2.5%	3.2%	-0.7%
Fix Ince	TIPS	2.2%	3.2%	-1.0%
	High Yield Bonds	4.1%	5.5%	-1.4%
le si	Core Real Estate	5.2%	6.0%	-0.8%
Real Assets	Private Real Assets: Infrastructure/Land	5.9%	6.4%	-0.5%
بين ا	US 60/40*	4.3%	5.2%	-0.9%
Multi- Asset	Global 60/40*	4.4%	5.1%	-0.7%
24	Hedge Funds*	5.0%	6.0%	-1.0%



*Calculated as a blend of other asset classes

OPERATING & PENSION FUNDS

NEPC, LLC -

OPERATING FUND ASSET ALLOCATION

	12/31/19 Allocation	Policy Targets
Total Cash	19%	30%
Global Equity	12%	10%
Hedge Funds - Long/Short	6%	5%
Total Equity	18%	15%
Core Bonds	8%	8%
Bank Loans	8%	7%
Absolute Return Fixed Income	8%	7%
Short Term Bonds	30%	26%
Total Fixed Income	54%	48%
Newton Global Real Return	5%	4%
PIMCO All Asset	5%	4%
Total Multi Asset	9%	8%
Expected Return 10 yrs	3.6%	3.3%
Expected Return 30 yrs	4.3%	4.0%
Standard Dev	4.4%	3.7%
Sharpe Ratio (10 years)	0.40	0.40

• NEPC is not recommending any changes to the asset allocation

 It is important to note the Policy Target expected return <u>supports</u> the 4.0% return goal

- 30 year expected return: 4.0%
- Alpha assumption: 0.2% 0.3%
- Overall assumption: 4.2% 4.3%

<u>Note</u>

•

- Actual allocation drifts from policy targets due to sizable cash flows
- Sizable cash inflow expected in January



Note: NEPC's Expected Returns are beta only and do not assume alpha from the Plan's active managers

PENSION FUND ASSET ALLOCATION

	12/31/19 Allocation	Policy Targets
Cash	0%	3%
Total Cash	0%	3%
Emerging Int'l Sm Cap Equities	4%	3%
Global Equity	32%	30%
Hedge Funds - Long/Short	5%	5%
Total Equity	41%	38%
TIPS	4%	4%
Core Bonds	27%	26%
Bank Loans	5%	5%
Absolute Return Fixed Income	5%	5%
Short TIPS (1-5 yr)	4%	4%
Total Fixed Income	44%	43%
Core Real Estate	8%	8%
Total Real Assets	8%	8%
Newton Global Real Return	7%	8%
Total Multi Asset	7%	8%
Expected Return 10 yrs	4.9%	4.8%
Expected Return 30 yrs	5.9%	5.7%
Standard Dev	8.8%	8.2%
Sharpe Ratio (10 years)	0.35	0.36

• NEPC is not recommending any changes to the asset allocation

 It is important to note the Policy Target expected return <u>marginally</u> <u>supports</u> the 6.25% return goal

- 30 year expected return: 5.7%
- Alpha assumption: 0.4% 0.5%
- Overall assumption: 6.1% 6.2%

Fund Information

Closed Plan

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- Annual Benefit Payments:
 \$4.3m/year or 16% of total assets
- Annual Contribution: ~\$750k/year

Note: NEPC's Expected Returns are beta only and do not assume alpha from the Plan's active managers



NEPC, LLC -

MIP ASSET ALLOCATION

	12/31/19	Policy	
	Allocation	, Targets	Option 1
Total Cash	0%	0%	0%
Large Cap Equities	23%	22%	17%
Small/Mid Cap Equities	8%	8%	7%
Int'l Equities (Unhedged)	13%	13%	10%
Int'l Sm Cap Equities (Unhedged)	5%	5%	4%
Emerging Int'l Equities	4%	4%	4%
Emerging Int'l Sm Cap Equities	3%	4%	4%
Global Equity	0%	0%	10%
Hedge Funds - Long/Short	6%	6%	6%
Private Equity	1%	0%	0%
Total Equity	62%	61%	61%
TIPS	4%	4%	4%
Core Bonds	7%	7%	7%
Bank Loans	4%	5%	5%
Absolute Return Fixed Income	5%	5%	5%
Short TIPS (1-5 yr)	3%	4%	4%
Total Fixed Income	23%	24%	24%
GMO Global Balanced	7%	8%	8%
Newton Global Real Return	8%	8%	8%
Total Multi Asset	15%	15%	15%
Expected Return 10 yrs	5.4%	5.4%	5.5%
Expected Return 30 yrs	6.5%	6.5%	6.5%
Standard Dev	12.2%	12.1%	12.1%
Sharpe Ratio (10 years)	0.30	0.30	0.30

Note: NEPC's Expected Returns are beta only and do not assume alpha from the Plan's active managers

- NEPC is not recommending wholesale changes to the asset allocation
- Instead, the focus should be on improving portfolio construction

Recommendation:

- Add a 10% allocation to Global Equity with reductions across large cap, small cap and international equity
- Hire a Global Equity manager (same manager in the Pension Fund)
- Review/hire an International Equity manager to improve portfolio diversification

It is important to note the Policy Target expected return <u>does not</u> <u>support</u> the 7.5% return goal

- 30 year expected return: 6.5%
- Alpha assumption: 0.4% 0.5%
- Overall assumption: 6.9% 7.0%

•

EQUITY PORTFOLIO CONSTRUCTION SUMMARY

Objectives

- **1)** Understand composition of the current portfolio; identify each managers role and contribution to volatility
- 2) Evaluate manager options including the addition of Global Equity, both quantitatively and qualitatively
- 3) Create a balanced portfolio of well fitting managers

Process

- Active Risk Budgeting Analysis
 - By estimating the level of market exposure that a particular strategy is taking over time, we can strip Beta (index exposure) away and analyze the contribution from Alpha (manager outperformance) strategies to total active risk
 - Through this exercise, we can understand a portfolio's historical quantitative profile, and pair with both qualitative manager due diligence and forward looking capital markets thoughts



- The current portfolio is nicely constructed, but there are other options to consider to potentially improve alpha and portfolio construction
 - The addition of a global equity strategy has the potential to improve alpha and diversify the equity portfolio
 - The international equity portfolio has two managers with similar risk/return characteristics and there is potential to diversify and improve alpha expectations

Managers	Current Portfolio	Option 1
Total Equity	55%	55%
SSgA	22%	17%
Westfield	4%	3.5%
DFA	4%	3.5%
Morgan Stanley	6.5%	5%
Globeflex	6.5%	0%
JO Hambro	0%	5%
Kabouter	5.0%	4%
Aberdeen	3.5%	3.5%
Mondrian	3.5%	3.5%
Walter Scott	0%	10%
Portfolio Metric	Current Portfolio	Option 1
Annualized Tracking Error (Volatility of Excess Return)	1.0	1.3
Annualized Alpha (Manager Excess Return)	0.3	0.9
Information Ratio (Risk Adjusted Return)	0.3	0.7



Note: Portfolio metrics and risk allocations based on least common denominator

of manager returns, reflects 8 years of history

RETURNS: ACTIVE RISK ANALYSIS

- Introduction of new managers may bring potential alpha opportunity to the portfolio, with little change to portfolio tracking error
 - At similar levels of alpha and tracking error, Morgan Stanley and Globeflex have similar roles within the portfolio
 - The addition of a high quality, higher tracking error strategies drives potential for outperformance over the benchmark (JO Hambro)





Note: Data based on manager's full historical track record. Information Ratio "IR" defined as alpha/tracking error

CORRELATION ANALYSIS

- Diversifying active risk and return with unique managers improves portfolio construction
 - JO Hambro and Walter Scott bring uncorrelated alpha to the portfolio, increasing the balance in active risk
 - Walter Scott is moderately correlated to Morgan Stanley
 - JO Hambro has no alpha correlation with managers

Correlations	SSgA	Westfield	DFA	Morgan Stanley	Globeflex	JO Hambro	Kabouter	Aberdeen	Mondrian	Walter Scott
SSgA	1.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.14	0.03	0.14
Westfield	0.00	1.00	0.40	0.00	0.00	0.00	-0.02	0.00	0.00	0.00
DFA	0.00	0.40	1.00	-0.01	0.00	0.00	-0.20	-0.08	-0.13	0.00
Morgan Stanley	0.00	0.00	-0.01	1.00	-0.01	0.13	0.26	0.14	0.07	0.32
Globeflex	0.00	0.00	0.00	-0.01	1.00	0.25	0.00	-0.28	-0.10	-0.01
JO Hambro	0.00	0.00	0.00	0.13	0.25	1.00	0.00	0.00	0.00	0.21
Kabouter	0.00	-0.02	-0.20	0.26	0.00	0.00	1.00	0.00	0.13	0.00
Aberdeen	-0.14	0.00	-0.08	0.14	-0.28	0.00	0.00	1.00	0.46	0.02
Mondrian	0.03	0.00	-0.13	0.07	-0.10	0.00	0.13	0.46	1.00	0.00
Walter Scott	0.14	0.00	0.00	0.32	-0.01	0.21	0.00	0.02	0.00	1.00

Highly Negative (<-0.25) Relatively Uncorrelated (-0.25 – 0.25) Moderately Positive (0.25 - 0.50) Highly Positive (>0.50)



Note: Portfolio metrics and risk allocations based on least common denominator of manager returns, reflects 8 years of history

MANAGER SUMMARY

Firm/Product	NEPC Rating	Asset Class/ Benchmark	Investment Style/Strategy	Performance Expectations	Investment Thesis
JO Hambro International Select	1	International Equity MSCI EAFE	All-cap, bottom-up and top down, concentrated, with a growth tilt.	They will underperform in the short term after a market peak or trough as they focus on earnings revisions and share price momentum. They have demonstrated outperformance in both rising and falling markets.	Christopher Lees and Nudgem Richyal are able to leverage the transparent culture at JOHCM to get a look-through at what stocks other portfolio management teams are buying and selling. They combine those overlapping best ideas with their own fundamental research. The 2-member team deploys a bottom-up and top-down view using an innovative method that targets multiple sources of performance. Their "4- Dimensional" approach takes into account the historical influence that company, sector and country specific factors have on the movement of each individual stock and how these influences change with time.
Walter Scott Global Equity	1	Global Equity MSCI World	Bottom up stock selection with low turnover.	Being a quality growth manager, with a low downside market capture, expect to outperform in weak and volatile markets.	Walter Scott's fundamental, bottom-up investment approach combines detailed financial research with business and industry analysis. The primary focus is upon stock selection, finding companies capable of generating wealth internally at 20% per annum, and compounding at this rate into the future. Meetings with company management are central to the process. They do interesting, intensive research projects that help them identify long term trends and investment ideas.

OVERALL TAKEAWAYS

1. Walter Scott

- Provide flexible exposures to US and International Equity
- Increases active management of the portfolio
- Consider an allocation to Walter Scott (Current manager in Pension Fund)

2. JO Hambro

- JO Hambro is a strategy that brings some core/growth exposure to balance the value/quality bias currently in the portfolio
- JO Hambro is less correlated with other managers and pairs well with Morgan Stanley and Kabouter
- Consider an allocation to JO Hambro
- A full search book and an in-person meeting can be scheduled if desired

3. Impact on Portfolio

- The addition of high quality, high tracking error strategies may create greater alpha opportunity over the current portfolio, with little projected change to overall portfolio volatility
- Further diversifying investment management styles reduces the concentration of alpha risk, creating a more risk balanced portfolio
- Shifts portfolio towards more flexible opportunities in the market (Walter Scott)
- Both Walter Scott and JO Hambro utilize ESG and have the potential to improve overall ESG scores
- Overall estimated equity managers fees would increase slightly from 0.51% to 0.55%
 - Majority of fee increase is a result of reducing passive allocation (SSgA) and increasing active management exposure







DISCLAIMERS

- Past performance is no guarantee of future results.
- The opinions presented herein represent the good faith views of NEPC as of the date of this report and are subject to change at any time.
- Data used to prepare this report was obtained directly from various sources. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.
- All investments carry some level of risk. Diversification and other asset allocation techniques do not ensure profit or protect against losses.
- NEPC may provide background information on fund structures or the impact of taxes but you should contact your legal counsel or tax professional for specific advice on such matters.
- This report is provided as a management aid for the client's internal use only. This report may contain confidential or proprietary information and may not be copied or redistributed to any party not legally entitled to receive it.



ALTERNATIVE INVESTMENT DISCLOSURES

It is important that investors understand the following characteristics of non-traditional investment strategies including hedge funds and private equity:

- 1. Performance can be volatile and investors could lose all or a substantial portion of their investment
- 2. Leverage and other speculative practices may increase the risk of loss
- 3. Past performance may be revised due to the revaluation of investments
- 4. These investments can be illiquid, and investors may be subject to lock-ups or lengthy redemption terms
- 5. A secondary market may not be available for all funds, and any sales that occur may take place at a discount to value
- 6. These funds are not subject to the same regulatory requirements as registered investment vehicles
- 7. Managers may not be required to provide periodic pricing or valuation information to investors
- 8. These funds may have complex tax structures and delays in distributing important tax information
- 9. These funds often charge high fees
- 10.Investment agreements often give the manager authority to trade in securities, markets or currencies that are not within the manager's realm of expertise or contemplated investment strategy





AGENDA ITEM SUMMARY

- NAME OF ITEM:
 Performance Review- Managed Investment Pool, Pension

 Fund and Operating Fund
 Fund
- 2. INITIATED BY: Sven P. Bartholomew, Chair Pro tem
- **3. BOARD INFORMATION:** X
- 4. OUTCOME: Primary Outcomes: Enhance fiscal positioning

BOARD POLICY: Section 709 - Investments

BOARD ACTION:

5. BACKGROUND:

Kelly Regan and Jay Roney of NEPC will provide a brief overview of performance for all three portfolios for the quarter ended December 30, 2019.

NEPC will refer to the enclosed executive summary performance report during the February 27, 2020 Investment Committee meeting. The supplemental performance materials for the quarter ended December 30, 2019 are for reference purposes only and will not be reviewed during the meeting.

FOURTH QUARTER 2019 INVESTMENT REVIEW UNIVERSITY OF MAINE SYSTEM

February 27, 2020

Jay E. Roney, Partner Kelly Regan, Senior Consultant



BOSTON | ATLANTA | CHARLOTTE | CHICAGO | DETROIT | LAS VEGAS | PORTLAND | SAN FRANCISCO



NEPC's 25th Annual Investment Conference

- Please save the date for our 25th Annual Investment Conference on Wednesday, May 20 and Thursday, May 21 at the Renaissance Boston Waterfront Hotel.
- Our theme for the conference this year is the Future in Focus. Please join us as we and our distinguished lineup of industry experts explore the potential changes and challenges facing markets in the new decade. We look forward to discussing innovative investment ideas and concepts, and new key areas of focus such as sustainability and diversity.
- We are pleased to announce that Howard Marks, Co-Chairman of Oaktree Capital Management will be our keynote speaker.
- Please reach out to Sarah Winrow: <u>swinrow@nepc.com</u> if you have any questions.



3.1

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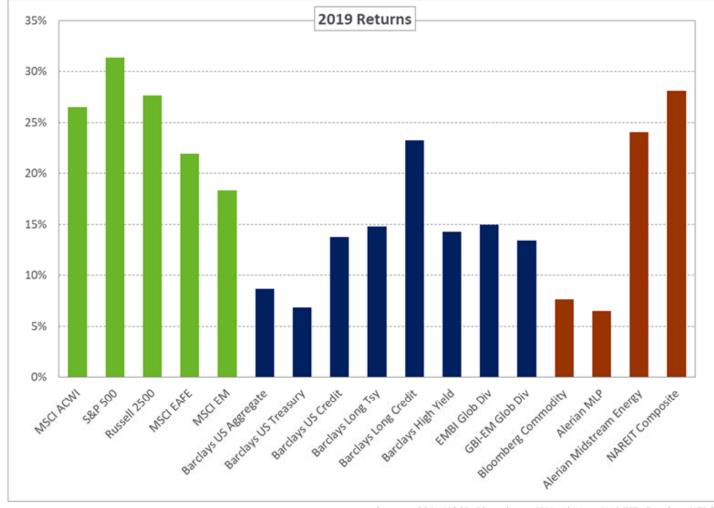


December 31, 2019

MARKET IN REVIEW

NEPC, LLC —

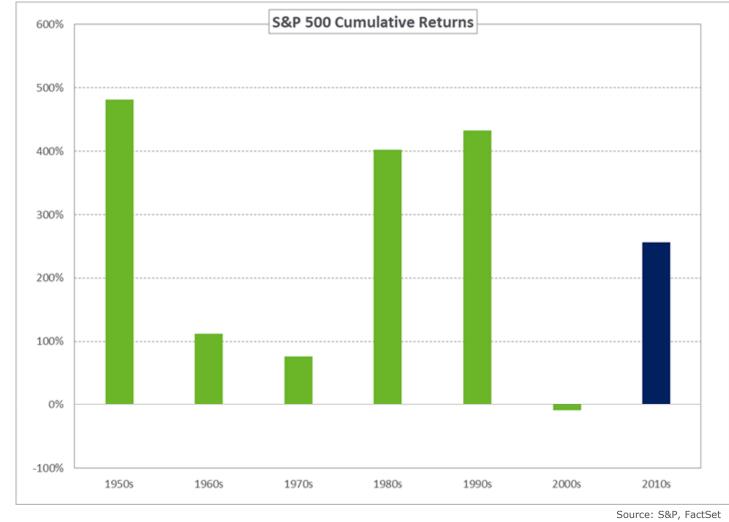
2019: A YEAR OF STRONG, POSITIVE RETURNS





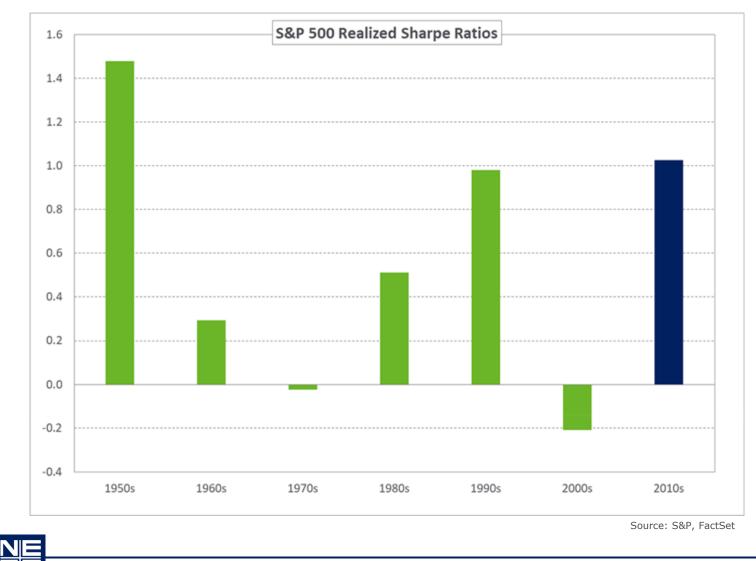
December 31, 2019

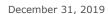
WHAT WILL THE 20'S BRING?





BEST RISK-ADJUSTED DECADE SINCE THE 1950S





CALENDAR YEAR INDEX PERFORMANCE

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Jan	YTD
S&P 500	15.1%	2.1%	16.0%	32.4%	13.7%	1.4%	12.0%	21.8%	-4.4%	31.5%	0.0%	0.0%
Russell 1000	16.1%	1.5%	16.4%	33.1%	13.2%	0.9%	12.1%	21.7%	-4.8%	31.4%	0.1%	0.1%
Russell 2000	26.9%	-4.2%	16.3%	38.8%	4.9%	-4.4%	21.3%	14.6%	-11.0%	25.5%	-3.2%	-3.2%
Russell 2500	26.7%	-2.5%	17.9%	36.8%	7.1%	-2.9%	17.6%	16.8%	-10.0%	27.8%	-2.0%	-2.0%
MSCI EAFE	7.8%	-12.1%	17.3%	22.8%	-4.9%	-0.8%	1.0%	25.0%	-13.8%	22.0%	-2.1%	-2.1%
MSCI EM	18.9%	-18.4%	18.2%	-2.6%	-2.2%	-14.9%	11.2%	37.3%	-14.6%	18.4%	-4.7%	-4.7%
MSCI ACWI	12.7%	-7.3%	16.1%	22.8%	4.2%	-2.4%	7.9%	24.0%	-9.4%	26.6%	-1.1%	-1.1%
Private Equity	19.8%	9.5%	12.6%	22.3%	14.6%	10.4%	10.3%	21.0%	13.1%	11.0%	-	11.0%
BC TIPS	6.3%	13.6%	7.0%	-8.6%	3.6%	-1.4%	4.7%	3.0%	-1.3%	8.4%	2.1%	2.1%
BC Municipal	2.4%	10.7%	6.8%	-2.6%	9.1%	3.3%	0.2%	5.4%	1.3%	7.5%	1.8%	1.8%
BC Muni High Yield	7.8%	9.2%	18.1%	-5.5%	13.8%	1.8%	3.0%	9.7%	4.8%	10.7%	2.5%	2.5%
BC US Corporate HY	15.1%	5.0%	15.8%	7.4%	2.5%	-4.5%	17.1%	7.5%	-2.1%	14.3%	0.0%	0.0%
BC US Agg Bond	6.5%	7.8%	4.2%	-2.0%	6.0%	0.5%	2.6%	3.5%	0.0%	8.7%	1.9%	1.9%
BC Global Agg	5.5%	5.6%	4.3%	-2.6%	0.6%	-3.2%	2.1%	7.4%	-1.2%	6.8%	1.3%	1.3%
BC Long Treasuries	9.4%	29.9%	3.6%	-12.7%	25.1%	-1.2%	1.3%	8.5%	-1.8%	14.8%	6.8%	6.8%
BC US Long Credit	10.7%	17.1%	12.7%	-6.6%	16.4%	-4.6%	10.2%	12.2%	-6.8%	23.4%	4.1%	4.1%
BC US STRIPS 20+ Yr	10.9%	58.5%	3.0%	-21.0%	46.4%	-3.7%	1.4%	13.7%	-4.1%	20.9%	9.5%	9.5%
JPM GBI-EM Global Div	15.7%	-1.8%	16.8%	-9.0%	-5.7%	-14.9%	9.9%	15.2%	-6.2%	13.5%	-1.3%	-1.3%
JPM EMBI Glob Div	12.2%	7.3%	17.4%	-5.3%	7.4%	1.2%	10.2%	10.3%	-4.3%	15.0%	1.5%	1.5%
CS Hedge Fund	10.9%	-2.5%	7.7%	9.7%	4.1%	-0.7%	1.2%	7.1%	-3.2%	9.3%	-	9.3%
BBG Commodity	16.8%	-13.3%	-1.1%	-9.5%	-17.0%	-24.7%	11.8%	1.7%	-11.2%	7.7%	-7.4%	-7.4%
Alerian MLP	35.9%	13.9%	4.8%	27.6%	4.8%	-32.6%	18.3%	-6.5%	-12.4%	6.6%	-5.6%	-5.6%
FTSE NAREIT Equity REITs	28.0%	8.3%	18.1%	2.5%	30.1%	3.2%	8.5%	5.2%	-4.6%	26.0%	1.2%	1.2%

Source: FactSet, Barclays, Thomson One

*Private Equity return represents calendar year pooled IRR and is subject to a one quarter lag



January 31, 2020

KEY MARKET THEMES

NEPC, LLC —

KEY MARKET THEMES (KMT) OVERVIEW

Key Market Themes are factors that define global markets and can be expected to both evolve and remain relevant without a clear timeline of conclusion. At times, themes may be challenged or disrupted and generate market volatility. The conclusion of a theme likely alters both market dynamics and our market outlook. Our intent is for clients to be aware of these themes and understand their implications for asset allocation and portfolio implementation.

NEPC currently has four Key Market Themes:





December 31, 2019

KMT: PERMANENT INTERVENTIONS

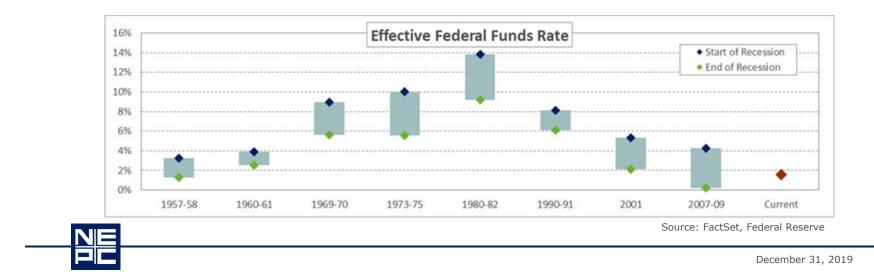
We believe central banks across the globe will continue to expand balance sheet assets to sustain an environment of excess liquidity

Low to negative interest rates and a fragile economic environment force central banks to continue to grow balance sheets and liquify the global financial system

Weak economic growth trends in the developed world underpin political tensions, which we believe will motivate significant fiscal debt expansion

Permanent Interventions suggest low yields and higher P/E multiples and a supportive policy environment would appear favorable to equities

However, there is a low margin of error if an economic downturn is on the horizon as current low interest rates can be reduced only so far

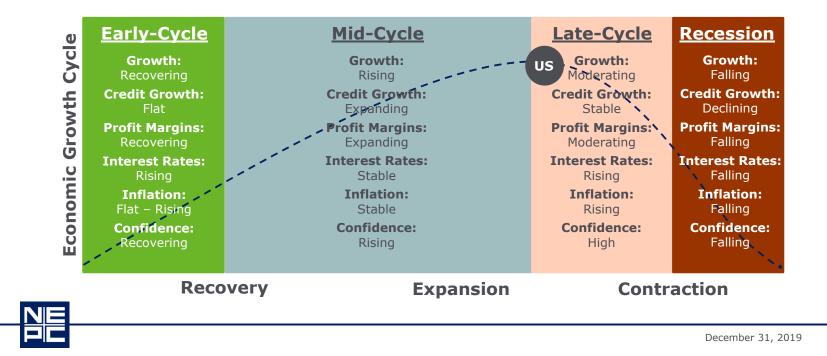


KMT: LATE CYCLE DYNAMICS

The US economy is in the late stage of the economic cycle as evidenced by classic late-cycle indicators including a tight labor market, a flat yield curve, and strong investment returns

Late cycle does not mean end of cycle; equity markets can offer strong returns and abandoning long-term allocations may detract from results

There is minimal evidence in economic/financial indicators to suggest that a US recession is imminent



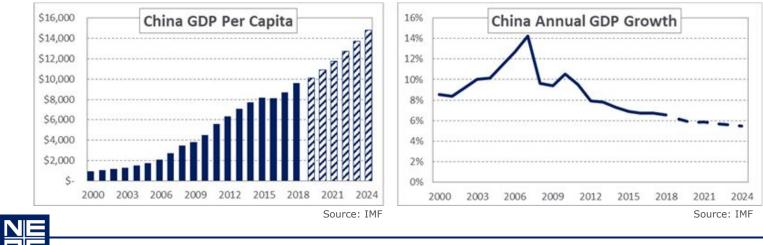
KMT: CHINA TRANSITIONS

China is undergoing a multi-faceted evolution as the economy transitions to a services and consumption-based model, while China's role on the global stage shifts to reflect its ascending geopolitical power

China's ascendancy as a strategic competitor to the US across innovative fields, such as artificial intelligence and 5G technologies, has provoked social and political angst regarding China's transition to a global power

China continues to experience slowing economic growth, but remains on a growth path to equal the size of the US economy over the next 25 years

China is the global growth engine and any disruption to these significant transitions will be transmitted globally due to the country's expanding role in the world economy



KMT: GLOBALIZATION BACKLASH

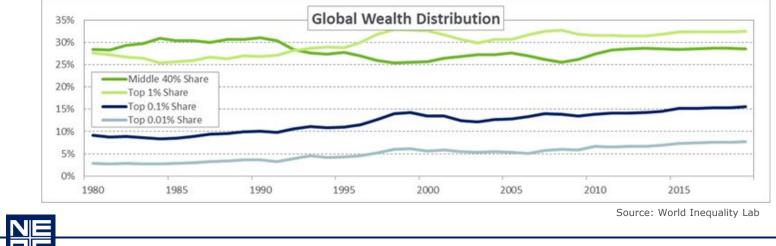
Stagnant wage growth and growing wealth inequality are fueling political discontent across the developed and emerging world

Globalization is viewed with suspicion by a growing percentage of voters, shifting multiple countries to more nationalist policies

Fatigue over globalization is changing political platforms and increasing trade tensions. A reevaluation of established multilateral relationships likely increases geopolitical risks

The growth of populist movements, on the "left" and "right", destabilizes the political order and materializes as Globalization Backlash

The extremes of the political spectrum across the developed world are likely to have a greater role in government as moderation is stretched



US-China trade tensions are a full expression of our backlash theme

December 31, 2019

3.1

CURRENT OPPORTUNITIES

NEPC, LLC —

CURRENT OPPORTUNITIES OVERVIEW

Current Opportunities are investment ideas that represent an action with the goal of improving investment outcomes relative to an investor's strategic asset allocation. It is not our intent that the full list of opportunities be implemented. Rather, we encourage a focus on the actions that offer a material benefit to each client's strategic allocation relative to their unique objectives and constraints. These investment ideas are likely to change more frequently as market dynamics and valuations shift over time.

NEPC currently has five Current Opportunities:



December 31, 2019

3.1

CORE GEOMETRIC RETURN ASSUMPTIONS

	Asset Class Return Assumptions	2020 10-Year	2019 10-Year	Annual Change
	Cash	1.8%	2.6%	-0.8%
	Large Cap Equities	5.0%	6.2%	-1.2%
>	International Equities (Unhedged)	6.0%	7.3%	-1.3%
Equity	Emerging International Equities	9.0%	9.2%	-0.2%
ш	Global Equity*	6.2%	7.3%	-1.1%
	Private Equity*	9.4%	10.1%	-0.7%
	Treasuries	1.9%	2.5%	-0.6%
me	Core Bonds*	2.5%	3.2%	-0.7%
Fixed Income	TIPS	2.2%	3.2%	-1.0%
Ιp	Municipal Bonds (1–10 Year)	1.9%	3.0%	-1.1%
Fixe	High Yield Bonds	4.1%	5.5%	-1.4%
	Private Debt*	6.7%	7.6%	-0.9%
	Commodities	4.0%	4.4%	-0.4%
Real Assets	REITs	5.4%	6.9%	-1.5%
Re Ass	Core Real Estate	5.2%	6.0%	-0.8%
	Private Real Assets: Infrastructure/Land	5.9%	6.4%	-0.5%
노光	US 60/40*	4.3%	5.2%	-0.9%
Multi- Asset	Global 60/40*	4.4%	5.1%	-0.7%
Σ٩	Hedge Funds*	5.0%	6.0%	-1.0%



*Calculated as a blend of other asset classes

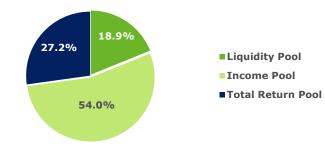
OPERATING FUND PERFORMANCE REVIEW

NEPC, LLC -

EXECUTIVE SUMMARY

ASSET ALLOCATION





FUND PERFORMANCE: NET OF FEES										
	QTR (%)	FYTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)				
COMPOSITE	2.0	2.6	7.3	3.8	2.8	2.8				

7.4

4.0

2.9

2.7

2.6

Asset Allocation

The Fund's assets as of December 31, 2019 were \$259.3million. This represents a \$38 million decrease from the previous quarter.

The Liquidity Pool (18.9% vs. 30.0%), Income Pool (54.0% vs. 47.5%) and Total Return Pool (27.2% vs. 22.5%) are within policy ranges. Throughout the year, asset allocation will change based on cash inflows and outflows. NEPC reviews this on a monthly basis.

Performance (Net of Fees)

The Fund returned 2.0% during the fourth quarter and 2.6% fiscal year-to-date. During these time periods, all managers posted positive returns and were in line with benchmarks (in aggregate). The Total Return Pool contributed the most to the overall Fund return.



RECENT ACTIONS/RECOMMENDATIONS

Recent Actions

ALLOCATION INDEX

Rebalancing occurred from the Total Return Pool to the Income Pool during the quarter.

Recommendations

There are no recommendations at this time.

1.9

Investment Manager Updates

Manager updates are detailed in the due diligence section of the report.

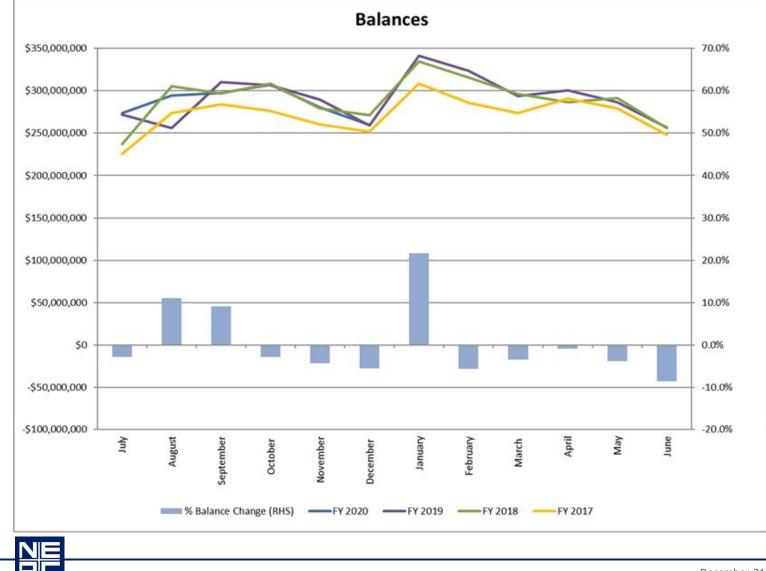
OPERATING FUND PERFORMANCE REVIEW

Ending December 31, 2019

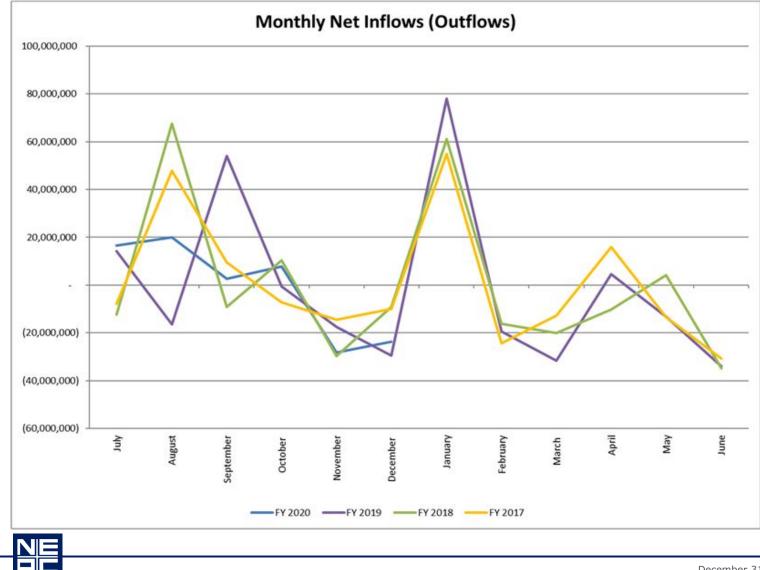
	Market Value (\$)	% of Portfolio	Policy %	Universe	Qtr (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Operating Funds Composite	\$259,342,614	100.0%	100.0%		2.0		2.6		7.3		3.8		2.8		2.8	
Allocation Index					1.9		2.6		7.4		4.0		2.9		2.7	
Liquidity Pool Composite	\$48,962,664	18.9%	30.0%		0.5		1.0		2.1		1.5		1.0		0.6	
State Pool	\$25,011,423	9.6%			0.5		1.1		2.2		1.6		1.1		0.7	
BOA General Fund	\$1,768,743	0.7%			0.1		0.2		0.8		0.5		0.3			
Federated Gov't Obligations	\$18,902,714	7.3%			0.4		1.0		2.2		1.5					
JP Morgan US Gov't Money Market Fund	\$3,279,783	1.3%			0.4		1.0		2.1		1.5					
FTSE T-Bill 3 Months TR					0.5		1.0		2.3		1.7		1.0		0.6	
Income Pool Composite	\$139,950,447	54.0%	47.5%		0.7		1.8		5.9		2.9		2.5		2.9	
Income Research + Management	\$77,313,856	29.8%	26.0%	eV US Short Duration Fixed Inc	0.6	36	1.3	46	4.2	61	2.2	68	1.8	66		
BBgBarc US Govt/Credit 1-3 Yr. TR					0.6		1.3		4.0		2.1		1.7		1.5	
BlackRock Strategic Income Opportunities	\$20,804,435	8.0%	7.0%	eV US Enh Fixed Inc	1.6	1	2.5	21	7.8	31	4.0	30				
3-Month Libor Total Return USD					0.5		1.0		2.4		2.0		1.4		0.9	
Loomis Sayles Bank Loans	\$21,206,470	8.2%	7.0%	eV US Bank Loan Fixed Inc	1.0	86	2.3	77	7.8	59	3.5	89	3.8	81	4.3	90
Loomis Bank Loans Custom Index					1.4		2.9		9.3		4.0		4.3		5.0	
Vanguard Total Bond Market Instl' Fund	\$20,625,686	8.0%	7.5%	eV All US Fixed Inc	0.0	90	2.5	43	8.7	45	4.0	49	3.0	55	3.7	57
BBgBarc US Aggregate TR					0.2		2.5		8.7		4.0		3.0		3.7	
Total Return Pool Composite	\$70,429,503	27.2%	22.5%		6.4		6.0		16.7		8.0		5.4		5.7	
Lighthouse	\$15,414,608	5.9%	5.0%	eV Alt - Long/Short Equity	7.3	33	5.4	43	13.4	53	5.5	60				
Credit Suisse Long Shrt Eqt USD					5.1		5.2		12.2		6.7		3.9		5.2	
Newton Global Real Return	\$12,186,729	4.7%	4.0%	eV Global TAA	2.0	84	2.6	78	11.8	68	5.7	66				
60% MSCI ACWI (Net)/ 40% BBgBarc Global A	g				5.5		5.8		18.6		9.3		6.1		6.4	
PIMCO All Asset	\$12,314,560	4.7%	4.0%	eV Global TAA	4.3	48	3.7	66	12.2	63	6.7	49	4.7	51	5.5	62
Blended Index					1.9		3.1		11.3		5.1		4.3		5.1	
Vanguard Total World Stock Index	\$30,513,606	11.8%	9.5%	eV Global All Cap Equity	9.0	45	9.0	31	26.8	47	12.5	46	8.7	42		
FTSE Global All Cap Index					9.2		9.2		26.8		12.3		7.6		7.4	



BALANCES AND MONTHLY CHANGES



MONTHLY NET INFLOWS (OUTFLOWS)

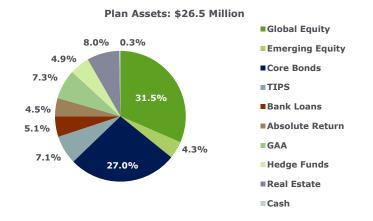


PENSION FUND PERFORMANCE REVIEW

NEPC, LLC -

EXECUTIVE SUMMARY

ASSET ALLOCATION



FUND PERFORMANCE: NET OF FEES								
	QTR (%)	FYTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)		
COMPOSITE	3.6	4.8	13.6	6.5	4.7	6.0		
ALLOC. INDEX	3.9	4.7	14.0	7.4	5.4	6.5		
POLICY INDEX	3.9	4.8	14.7	7.6	5.7	6.9		

FUND COMMENTS

Asset Allocation

The Fund's assets were \$26.5 million as of December 31, 2019 a \$90 thousand decrease during the fourth quarter. During the quarter, there was a net cash outflow of \$1.06 million and investment gains of \$970 thousand. All asset classes are within policy ranges.

Performance (Net of Fees)

The Fund returned 3.6% in the $4^{\rm th}$ quarter and 4.8% fiscal year-to-date.

Over the fiscal year-to-date period, managers in aggregate matched benchmarks (Composite vs. Allocation Index).

RECENT ACTIONS/RECOMMENDATIONS

Recent Actions

Rebalancing was provided over the quarter to cover benefit payments and expenses.

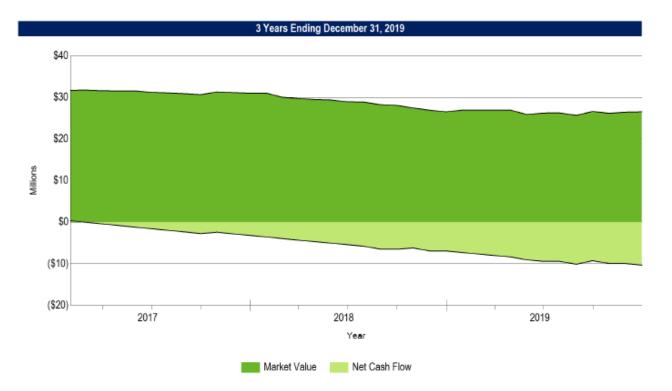
Recommendations

There are no recommendations at this time.

Investment Manager Updates

Manager updates are detailed in the due diligence section of the report.

ASSET GROWTH SUMMARY



	Quarter-To-Date	Fiscal Year-To-Date	One Year	Three Years
Beginning Market Value	\$26,610,506	\$26,231,215	\$26,520,627	\$31,010,184
Net Cash Flow	-\$1,057,917	-\$898,171	-\$3,381,071	-\$10,316,805
Net Investment Change	\$969,338	\$1,188,883	\$3,382,371	\$5,828,548
Ending Market Value	\$26,521,927	\$26,521,927	\$26,521,927	\$26,521,927

PENSION PERFORMANCE OVERVIEW

Ending December 31, 2019

	Market Value(\$)	% of Portfolio	Policy %	Universe	Qtr (%)	Rank	Fiscal YTD (%)	Rank 1	Yr (%)		Yrs (%)	Rank ⁵	5 Yrs (%)	Rank [:]	10 Yrs (%)	Rank
Pension Composite	\$26,521,927	100.0%	100.0%		3.6		4.8		13.6		6.5		4.7		6.0	
Allocation Index					3.9		4.7		14.0		7.4		5.4		6.5	
Policy Index					3.9		4.8		14.7		7.6		5.7		6.9	
Total Global Equity	\$8,366,893	31.5%	30.0%	eA Global All Cap Equity	8.3											
MSCI World					8.6		9.1		27.7	I	2.6		8.7		9.5	
Walter Scott Global Equity Fund	\$8,366,893	31.5%	30.0%	eA Global All Cap Equity	8.3	62										
MSCI World					8.6		9.1		27.7	1	2.6		8.7		9.5	
Emerging Markets Equity	\$1,143,837	4.3%	3.0%	eV Emg Mkts Equity Net Median	8.2	86	5.9	65	9.4	96	3.5	99	-0.7	99		
MSCI Emerging Markets					11.8		7.1		18.4	i	1.6		5.6		3.7	
Mondrian EM Small Cap	\$1,143,837	4.3%	3.0%	eV Emg Mkts Equity	8.2	86	5.9	65	9.4	96	3.5	99	-0.7	99		
MSCI Emerging Markets Small Cap					9.5		4.5		11.5		6.7		3.0		2.9	
Total Fixed Income	\$11,570,251	43.6%	43.0%	eV All US Fixed Inc Net Median	0.5	65	2.3	49	8.3	49	4.0	51	3.1	54	4.1	48
BBgBarc US Aggregate TR					0.2		2.5		8.7		4.0		3.0		3.7	
Vanguard Total Bond Market Index	\$7,149,324	27.0%	26.0%	eV US Core Fixed Inc	0.0	70	2.5	54	8.7	69	4.0	57	3.0	72		
BBgBarc US Aggregate TR					0.2		2.5		8.7		4.0		3.0		3.7	
Vanguard Inflation-Protected Securities	\$942,397	3.6%	3.5%	eV US TIPS / Inflation Fixed Inc	0.5	87	2.0	64	8.2	64						
BBgBarc US TIPS TR					0.8		2.1		8.4		3.3		2.6		3.4	
Vanguard Short-Term Inflation-Protected Securities - VTS	\$921,872	3.5%	3.5%	eV US TIPS / Inflation Fixed Inc	1.0	26	1.5	93								
BBgBarc US TIPS 1-5 Yr TR					1.2		1.4		5.1		2.1		1.8		1.7	
BlackRock Strategic Income Opportunities	\$1,199,069	4.5%	5.0%	eV US Enh Fixed Inc	1.6	1	2.5	21	7.8	30						
3-Month Libor Total Return USD					0.5		1.0		2.4		2.0		1.4		0.9	
Bain Capital Senior Loan Fund	\$1,357,588	5.1%	5.0%	eV US Bank Loan Fixed Inc	1.2	82	1.9	84	7.7	71						
Credit Suisse Leveraged Loans					1.7		2.6		8.2		4.5		4.5		5.2	



December 31, 2019

3.1

PENSION PERFORMANCE OVERVIEW

Ending December 31, 2019

	Market Value(\$)	% of Portfolio	Policy %	Universe	Qtr (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank 10	Yrs %) Rank
Total GAA	\$1,945,713	7.3%	8.0%	eV Global TAA Net Median	2.0	83	2.7	78	13.9	58	6.1	57	3.7	65 4	.5 73
65% MSCI ACWI (Net) / 35% BBgBarc Global Agg					5.9		6.2		19.6		9.7		6.4	6	.7
Newton Global Real Return	\$1,945,713	7.3%	8.0%	eV Global TAA	2.0	83	2.7	78	11.8	69	5.7	66			
60% MSCI ACWI (Net) / 40% FTSE WGBI					5.2		5.6		18.2		9.2		6.0	6	.2
Total Alternative Investments	\$1,288,884	4.9%	5.0%		7.3		5.4		13.4		4.2		2.7	2	.7
HFRI Fund of Funds Composite Index					3.0		2.1		8.3		3.9		2.4	2	.8
Lighthouse	\$1,288,884	4.9%	5.0%	eV Alt - Long/Short Equity	7.3	33	5.4	43	13.4	53	5.5	60			
Credit Suisse Long Shrt Eqt USD					5.1		5.2		12.2		6.7		3.9	5	.2
Total Real Assets	\$2,126,944	8.0%	8.0%												
Principal	\$2,126,944	8.0%	8.0%		1.3		2.9		5.8		7.2		8.8	11	1.3
NCREIF ODCE					1.5		2.8		5.3		7.1		9.0	11	1.4
Total Cash	\$79,405	0.3%	3.0%												
Distribution Account	\$79,405	0.3%	3.0%		0.3		0.8		1.9		1.3		0.8	0	.4
91 Day T-Bills					0.4		0.9		2.1		1.6		1.1	0	.6



December 31, 2019

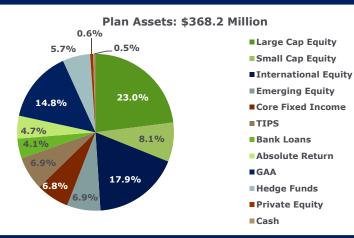
3.1

MANAGED INVESTMENT POOL PERFORMANCE REVIEW

NEPC, LLC -

EXECUTIVE SUMMARY

ASSET ALLOCATION



MIP PERFORMANCE: NET OF FEES									
	QTR (%)	FYTD (%)	1 YR (%)	3 YR (%)	5 YR (%)	10 YR (%)			
COMPOSITE	6.1	5.7	16.7	7.8	5.2	6.6			
ALLOC. INDEX	6.1	6.3	18.2	8.8	6.1	6.8			
POLICY INDEX	6.3	6.3	18.3	9.2	6.5	7.1			
RANK (E&F \$100- 500M)	24	54	72	83	89	87			

FUND COMMENTS

Asset Allocation

MIP assets were \$368.2 million as of December 31, 2019, a \$23.5 million increase over the quarter. During the quarter there was a \$1.5 million net cash inflow and investment gains of \$22 million. All asset classes are within policy ranges.

Performance (Net of Fees)

The Fund returned 6.1% in the 4th quarter and 5.7% fiscal year-to-date, ranking in the 24th and 54th percentiles, respectively.

During these time periods, all managers posted positive returns and US Equities contributed the most to the overall Fund return.

RECENT ACTIONS/RECOMMENDATIONS

Recent Actions

Rebalancing was provided over the quarter to invest 3^{rd} party contributions and other distributions.

Recommendations

A recommendation for the equity portfolio is provided in the separate asset allocation presentation.

Investment Manager Updates

Manager updates are detailed in the due diligence section of the report.



PRIVATE MARKETS UPDATE

 The System invests in a number of private markets assets, committing capital for longer time periods to obtain illiquidity premiums and exposure to alternative markets

• Landmark Equity Partners XV

- Secondary Private Equity fund, purchasing interests in venture capital, growth equity and buyout funds, and to a lesser extent, special situation and energy funds
- Strategy is diversified, investing in ~200 partnerships
- Fund has a 4 year investment period and 10 year term
- The System committed \$5 million in 2014 and has a remaining commitment of \$1.8 million
- Since inception, the strategy has an IRR of 14.7%, net of fees (6/30/19)

• Hancock Timberland VII

- Private Real Asset Timber Fund structured for the purpose of making direct and indirect investments in commercial timberland
- The System has been invested in the strategy since 2005
- The Fund distributed all remaining capital back to investors in December 2019
- The System committed \$5 million in 2005
- Since inception, the strategy has an IRR of 1.1%, net of fees (9/30/19)

MIP PERFORMANCE OVERVIEW

As of December 31, 2019

	Market Value(\$)	% of Portfolio	Policy %	Universe	Qtr (%)	Rank	Fiscal YTD (%)	Rank 1	L Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Ranl
MIP Composite	\$368,154,057	100.0%	100.0%		6.1	24	5.7	54	16.7	72	7.8	83	5.2	89	6.6	92
Allocation Index					6.1	24	6.3	25	18.2	48	8.8	52	6.1	60	6.8	71
Policy Index					6.3	19	6.3	26	18.3	45	9.2	42	6.5	38	7.1	60
InvMetrics All E&F \$100mm - \$500mm Net Median					5.7		5.9		18.0		8.9		6.3		7.6	
Total Domestic Large Cap	\$84,556,334	23.0%	22.0%	eV US Large Cap Core Equity	9.1	30	10.9	25	31.4	28	15.2	26	11.6	20	13.4	15
S&P 500					9.1		10.9		31.5		15.3		11.7		13.6	
SSgA S&P 500	\$84,556,334	23.0%	22.0%	eV US Large Cap Core Equity	9.1	30	10.9	25	31.4	28	15.2	26	11.6	20	13.5	14
S&P 500					9.1		10.9		31.5		15.3		11.7		13.6	
Total Domestic Small/Mid Cap	\$29,776,947	810.0%	8.0%	eV US Small-Mid Cap Equity	11.5	9	9.4	19	28.0	56	10.8	44	8.5	47	12.5	41
Russell 2500					8.5		7.1		27.8		10.3		8.9		12.6	
Westfield Capital	\$15,569,883	4.2%	4.0%	eV US Small-Mid Cap Growth Equity	14.3	6	11.4	7	34.5	29	17.5	41	10.4	60	14.2	33
Russell 2500 Growth					10.6		7.1		32.7		15.2		10.8		14.0	
DFA	\$14,207,064	3.9%	4.0%	eV US Small Cap Value Equity	8.6	32	7.3	53	21.5	68	3.9	65	6.1	60		
Russell 2000 Value					8.5		7.9		22.4		4.8		7.0		10.6	
Total International Equity (including emerging markets)	\$91,658,759	24.9%	25.0%	eV All ACWI ex-US Equity	8.2	87	5.0	95	16.6	91	7.6	85	4.0	90	5.0	84
MSCI EAFE					8.2		7.0		22.0		9.6		5.7		5.5	
Morgan Stanley	\$23,668,907	6.4%	6.5%	eV All EAFE Equity	7.4	84	5.6	85	20.4	67	9.1	57	5.0	75	5.4	84
Globeflex	\$23,289,308	6.3%	6.5%	eV All EAFE Equity	7.6	81	4.0	96	14.2	97	6.9	87	4.5	87	5.5	80
MSCI EAFE					8.2		7.0		22.0		9.6		5.7		5.5	
Kabouter International Opportunities Offshore Fund II	\$19,126,748	5.2%	5.0%	eV EAFE Small Cap Equity	9.3	91	5.0	95	17.9	93						
MSCI EAFE Small Cap					11.5		11.0		25.0		10.9		8.9		8.7	
Emerging Markets Equity	\$25,573,796	6.9%	7.0%	eV Emg Mkts Equity	8.9	82	5.3	73	14.9	78	7.0	93	2.3	95		
MSCI Emerging Markets					11.8		7.1		18.4		11.6		5.6	46		
Aberdeen Emerging Mrkts	\$13,254,683	3.6%	3.5%	eV Emg Mkts Equity	9.4	78	4.9	77	20.4	46	10.2	60	5.3	57	5.3	29
MSCI Emerging Markets					11.8		7.1		18.4		11.6		5.6		3.7	
Mondrian EM Small Cap	\$12,319,113	3.3%	3.5%	eV Emg Mkts Equity	8.2	86	5.9	65	9.4	96	3.5	99	-0.7	99		
MSCI Emerging Markets Small Cap					9.5		4.5		11.5		6.7		3.0		2.9	



MIP PERFORMANCE OVERVIEW

As of December 31, 2019

	Market Value(\$)	% of Portfolio	Policy %	Universe	Qtr (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Ranl
Total Fixed Income	\$82,701,570	22.5%	24.0%	eV All US Fixed Inc	1.0	26	2.3	49	8.0	51	4.2	44	3.1	51	4.8	36
BBgBarc US Aggregate TR					0.2		2.5		8.7		4.0		3.0		3.7	
Commonfund	\$25,180,735	6.8%	7.0%	eV US Core Fixed Inc	0.8	2	2.9	6	9.4	30	4.8	5	3.5	19	4.6	15
BBgBarc US Aggregate TR					0.2		2.5		8.7		4.0		3.0		3.7	
Vanguard Inflation-Protected Securities	\$12,845,012	3.5%	3.5%	eV US TIPS / Inflation Fixed Inc	0.5	87	2.0	64	8.2	64	3.2	62				
BBgBarc US TIPS TR					0.8		2.1		8.4		3.3		2.6		3.4	
Vanguard Short-Term Inflation-Protected Securities	\$12,372,130	3.4%	3.5%	eV US TIPS / Inflation Fixed Inc Net Median	1.0	26	1.5	93								
BBgBarc US TIPS 1-5 Yr TR					1.2		1.4		5.1		2.1		1.8		1.7	
Blackrock Strategic Income Opportunities	\$17,178,823	4.7%	5.0%	eV US Enh Fixed Inc	1.6	1	2.5	21	7.8	31						
3-Month Libor Total Return USD					0.5		1.0		2.4		2.0		1.4		0.9	
Bain Capital Senior Loan Fund	\$15,124,870	4.1%	5.0%	eV US Bank Loan Fixed Inc	1.2	82	1.9	84	7.7	71						
Credit Suisse Leveraged Loans					1.7		2.6		8.2		4.5		4.5		5.2	
Total GAA	\$54,596,400	14.8%	15.0%	eV Global TAA	3.6	57	3.2	74	12.2	63	5.7	66	3.4	68	4.1	76
65% MSCI ACWI (Net) / 35% BBgBarc Global Agg					5.9		6.2		19.6		9.7		6.4		6.7	
GMO Global Absolute Return	\$27,099,707	7.4%	7.5%	eV Global TAA	5.2	34	3.7	66	10.7	71	5.7	66	3.3	69	4.5	73
Blended Index					1.9		3.1		11.3		5.1		4.3		5.1	
Newton Global Real Return	\$27,496,693	7.5%	7.5%	eV Global TAA	2.0	83	2.7	78	11.8	69	5.7	66				
60% MSCI ACWI (Net)/ 40% BBgBarc Global Agg					5.5		5.8		18.6		9.3		6.1		6.4	
Total Hedge Funds	\$20,998,756	5.7%	6.0%		7.3	33	5.4	44	13.4	53	4.2	69	2.4	79	2.5	93
HFRI Fund of Funds Composite Index					3.0		2.1		8.3		3.9		2.4		2.8	
Lighthouse	\$20,998,756	5.7%	6.0%	eV Alt - Long/Short Equity	7.3	33	5.4	44	13.4	53	5.5	60				
Credit Suisse Long Shrt Eqt USD					5.1		5.2		12.2		6.7		3.9		5.2	
Private Equity	\$2,073,915	0.6%	0.0%		0.0		7.4		11.1		11.3		10.3			
Landmark Equity Partners XV	\$2,073,915	0.6%	0.0%		0.0		7.4		11.1		11.3		10.3			
Cambridge Associates US All PE (1 Qtr Lag)					2.2		5.7		9.0		14.6		11.6		14.1	
Total Cash	\$1,791,377	0.5%	0.0%													
Distribution Account	\$1,791,377	0.5%	0.0%		0.3		0.7		1.8		1.3		0.8		0.5	
91 Day T-Bills					0.4		0.9		2.1		1.6		1.1		0.6	



December 31, 2019

3.1

INVESTMENT MANAGER DUE DILIGENCE

NEPC, LLC -

DUE DILIGENCE MONITOR

The items below summarize the recent quarter's performance and any changes or announcements from your Plan managers/funds. A "-" indicates there were no material announcements. A "Yes" indicates there was an announcement and a summary is provided separately. NEPC's Due Diligence Committee meets every two weeks to review events as they relate to investment managers and determines if any action should be taken by NEPC and/or by our clients. They rate events: No Action, Watch, Hold, Client Review or Terminate. With respect to Performance, a "-" indicates the manager/fund performed in line with the majority of managers/funds in the category; only outliers (placement in the Top or Bottom Quartile) are highlighted. Your Consultant's Recommendation is refreshed quarterly in view of the recent quarter's developments (performance, manager events, and any of the longer-term trending data). NEPC considers ourselves to be a fiduciary, as ERISA defines the term in Section 3(21).

Fund	Portfolio	Manager Changes/ Announcements (Recent Quarter)	NEPC Due Diligence Committee Recommendations
Aberdeen	MIP & Pension	No	Maintain Hold
Lighthouse	MIP, Pension & Operating	No	Maintain Watch
PIMCO	Operating	Yes	No Action

	NEPC Due Diligence Committee Recommendation Key
No Action	Informational items have surfaced; no action is recommended.
Watch	Issues have surfaced to be concerned over; manager can participate in future searches, but current and prospective clients must be made aware of the issues.
Hold	Serious issues have surfaced to be concerned over; manager cannot be in future searches unless a client specifically requests, but current and prospective clients must be made aware of the issues.
Client Review	Very serious issues have surfaced with a manager; manager cannot be in future searches unless a client specifically requests. Current clients must be advised to review the manager.
Terminate	We have lost all confidence in the product; manager would not be recommended for searches and clients would be discouraged from using. The manager cannot be in future searches unless a client specifically requests. Current clients must be advised to replace the manager.



December 31, 2019

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APPENDIX & DISCLAIMERS

NEPC, LLC —

HIGHLIGHTS OF 2019 FOURTH QUARTER HAPPENINGS AT NEPC

NEPC INSIGHTS

- 2019 Third Quarter Market Thoughts
- White Paper: "The Late Stage of a Market Cycle: Been There, Done That?"
- White Paper: "Direct Investments"
- White Paper: "Family Office Best Practices"
- Market Chatter: "To the Venturesome Go the Spoils: Venture Capital Opportunities in China"
- Market Chatter: "To the Venturesome Go the Spoils: Venture Capital Opportunities in China (Part 2)"
- Market Chatter: "The Privates Drive It: Fiscal Year 2019 Mega Endowment Returns"
- Taking Stock: "The Other New Entrant in an Emerging Markets Benchmark"
- Taking Stock: "Draghi's Final Act"
- Taking Stock: "NEPC's Third Quarter Pension Monitor"
- Taking Stock: "Public Markets Dole Out a Dose of Reality"
- Taking Stock: "Is it Time to Worry about BBB Bonds?"
- NEPC's Fall 2019 Endowments & Foundations Survey Results & Infographic
- Diverse Manager Policy Infographic
- Diverse Manager Policy Press Release
- NEPC's 2019 Hedge Fund Operational Due Diligence Survey Results
- 2019 Defined Benefit Plan Trends Survey Results and Infographic
- 2019 Defined Benefit Plan Trends Survey Results and Infographic Healthcare

WEBINAR REPLAYS

• NEPC's 2019 Q3 Quarterly Market Thoughts Call



To download NEPC's recent insights and webinar replays, visit: www.NEPC.com/insights

HIGHLIGHTS OF 2019 FOURTH QUARTER HAPPENINGS AT NEPC

FUTURE FUNDAMENTALS CAMPAIGN

In October, we introduced the *Future Fundamentals of Investing*. Future Fundamentals is a simple phrase that highlights what we do best: staying ahead of the curve with regards to industry trends and research. While there are many concepts and ideas floating through the investment world, we believe the following will be the largest drivers of success in the coming years:

- 1. Sustainability
- 2. Diversity and Inclusion
- 3. Innovation

While we expect these concepts to drive investment trends for some time, we also expect these fundamentals to evolve over time. You can rely on us to identify when these fundamentals evolve or change, and to be positioning your portfolio and our business for success.

In a Wealth Management Op-Ed, the Co-Head of NEPC's Impact Investing Committee, Krissy Pelletier, defines the three pillars that will be the largest drivers of investment success. Read more here: <u>New Decade, New Fundamentals for Investing</u>

To learn more about the Future Fundamentals of Investing, visit: <u>https://futurefundamentals.nepc.com/</u>



GLOSSARY OF TERMS

Alpha - Measures the relationship between the fund performance and the performance of another fund or benchmark index and equals the excess return while the other fund or benchmark index is zero.

Alpha Jensen - The average return on a portfolio over and above that predicted by the capital asset pricing model (CAPM), given the portfolio's beta and the average market return. Also known as the abnormal return or the risk adjusted excess return.

Annualized Excess Return over Benchmark - Annualized fund return minus the annualized benchmark return for the calculated return.

Annualized Return - A statistical technique whereby returns covering periods greater than one year are converted to cover a 12 month time span.

Beta - Measures the volatility or systematic risk and is equal to the change in the fund's performance in relation to the change in the assigned index's performance.

Information Ratio - A measure of the risk adjusted return of a financial security, asset, or portfolio.

Formula:

(Annualized Return of Portfolio - Annualized Return of Benchmark)/Annualized Standard Deviation(Period Portfolio Return – Period Benchmark Return). To annualize standard deviation, multiply the deviation by the square root of the number of periods per year where monthly returns per year equals 12 and quarterly returns is four periods per year.

R-Squared – Represents the percentage of a fund's movements that can be explained by movements in an index. R-Squared values range from 0 to 100. An R-Squared of 100 denotes that all movements of a fund are completely explained by movements in the index.

Sharpe Ratio - A measure of the excess return or risk premium per unit of risk in an investment asset or trading strategy.

Sortino Ratio - A method to differentiate between good and bad volatility in the Sharpe Ratio. The differentiation of up and down volatility allows the calculation to provide a risk adjusted measure of a security or fund's performance without upward price change penalties.

Formula:

Calculation Average (X-Y)/Downside Deviation (X-Y) * 2 Where X=Return Series X Y = Return Series Y which is the risk free return (91 day T-bills) Standard Deviation - The standard deviation is a statistical term that describes the distribution of results. It is a commonly used measure of volatility of returns of a portfolio, asset class, or security. The higher the standard deviation the more volatile the returns are.

Formula:

(Annualized Return of Portfolio – Annualized Return of Risk Free) / Annualized Standard Deviation (Portfolio Returns)

Tracking Error - Tracking error, also known as residual risk, is a measure of the degree to which a portfolio tracks its benchmark. It is also a measure of consistency of excess returns. Tracking error is computed as the annualized standard deviation of the difference between a portfolio's return and that of its benchmark.

Formula:

Tracking Error = Standard Deviation $(X-Y) * \sqrt{(\# of periods per year)}$ Where X = periods portfolio return and Y = the period's benchmark return For monthly returns, the periods per year = 12 For quarterly returns, the periods per year = 4

Treynor Ratio - A risk-adjusted measure of return based on systematic risk. Similar to the Sharpe ratio with the difference being the Treynor ratio uses beta as the measurement of volatility.

Formula:

(Portfolio Average Return - Average Return of Risk-Free Rate)/Portfolio Beta

Up/Down Capture Ratio - A measure of what percentage of a market's returns is "captured" by a portfolio. For example, if the market declines 10% over some period, and the manager declines only 9%, then his or her capture ratio is 90%. In down markets, it is advantageous for a manager to have as low a capture ratio as possible. For up markets, the higher the capture ratio the better. Looking at capture ratios can provide insight into how a manager achieves excess returns. A value manager might typically have a lower capture ratio in both up and down markets, achieving excess returns by protecting on the downside, whereas a growth manager might fall more than the overall market in down markets, but achieve above-market returns in a rising market.

 $\label{eq:upsideCapture} UpsideCapture = TotalReturn(FundReturns)/TotalReturns(BMReturn) \ when \ Period Benchmark \ Return \ is \ > = 0$

DownsideCapture = TotalReturn(FundReturns)/TotalReturns(BMReturn) when Benchmark <0

Data Source: InvestorForce

INFORMATION DISCLAIMER AND REPORTING METHODOLOGY

Information Disclaimer

- Past performance is no guarantee of future results.
- All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.
- Some index returns displayed in this report or used in calculation of a policy, allocation or custom benchmark may not be available from the source or may be preliminary and subject to change.
- NEPC's source for portfolio pricing, calculation of accruals, and transaction information is the plan's custodial bank. Information on market indices and security characteristics is received from other sources external to NEPC. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.
- This report is provided as a management aid for the client's internal use only. Performance contained in this report does not constitute a recommendation by NEPC.
- This report may contain confidential or proprietary information and may not be copied or redistributed to any party not legally entitled to receive it.

Reporting Methodology

- The client's custodian bank is NEPC's preferred data source unless otherwise directed. NEPC reconciles custodian data to manager data. If the custodian cannot provide accurate data, manager data may be used.
- Trailing time period returns are determined by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of Return are annualized when the time period is longer than a year. Performance is presented gross and/or net of manager fees as indicated on each page.
- For managers funded in the middle of a month, the "since inception" return will start with the first full month, although actual inception dates and cash flows are taken into account in all Composite calculations.
- This report may contain forward-looking statements that are based on NEPC's estimates, opinions and beliefs, but NEPC cannot guarantee that any plan will achieve its targeted return or meet other goals.

FOURTH QUARTER 2019 SUPPLEMENTAL PERFORMANCE

UNIVERSITY OF MAINE SYSTEM MANAGED INVESTMENT POOL

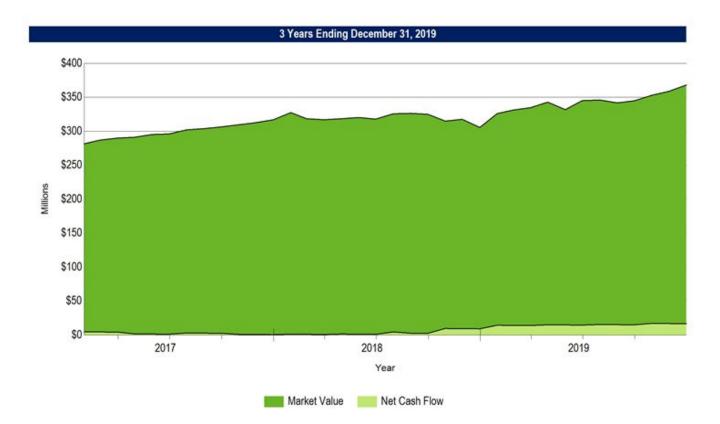
February 27, 2020

Jay E. Roney, Partner Kelly Regan, Senior Consultant



BOSTON | ATLANTA | CHARLOTTE | CHICAGO | DETROIT | LAS VEGAS | PORTLAND | SAN FRANCISCO

ASSET GROWTH SUMMARY



	Last Three Months	Fiscal Year-To-Date	One Year	Three Years
Beginning Market Value	\$344,884,241	\$345,152,104	\$305,625,905	\$271,766,432
Net Cash Flow	\$1,494,255	\$1,911,648	\$7,353,209	\$16,459,130
Net Investment Change	\$21,775,561	\$21,090,306	\$55,174,943	\$79,928,496
Ending Market Value	\$368,154,057	\$368,154,057	\$368,154,057	\$368,154,057

NE	
PIC	
	December 21, 2010

CASH FLOW SUMMARY

			3 Months Ending Dec	ember 31, 2019		
	Beginning Market Value	Contributions	Withdrawals	Net Cash Flow	Net Investment Change	Ending Market Value
Aberdeen Emerging Mrkts	\$12,111,153	\$0	-\$34,860	-\$34,860	\$1,178,390	\$13,254,683
Bain Capital Senior Loan Fund	\$14,942,871	\$0	-\$18,781	-\$18,781	\$200,780	\$15,124,870
Blackrock Strategic Income Opportunities	\$16,905,812	\$0	-\$22,592	-\$22,592	\$295,602	\$17,178,823
Commonfund	\$24,976,992	\$0	-\$10,051	-\$10,051	\$213,794	\$25,180,735
DFA	\$13,082,879	\$0	-\$14,073	-\$14,073	\$1,138,257	\$14,207,064
Distribution Account	\$251,721	\$4,203,283	-\$2,666,668	\$1,536,615	\$3,041	\$1,791,377
Globeflex	\$21,032,599	\$636,000	-\$42,617	\$593,383	\$1,663,326	\$23,289,308
GMO Global Absolute Return	\$25,696,969	\$0	-\$66,212	-\$66,212	\$1,468,950	\$27,099,707
John Hancock Timber Fund	\$1,522,388	\$0	-\$1,522,388	-\$1,522,388	\$0	\$0
Kabouter International Opportunities Offshore Fund II	\$17,500,592	\$0	-\$46,436	-\$46,436	\$1,672,593	\$19,126,748
Landmark Equity Partners XV	\$2,103,352	\$57,375	-\$86,812	-\$29,437	\$0	\$2,073,915
Lighthouse	\$18,586,057	\$1,000,000	\$0	\$1,000,000	\$1,412,698	\$20,998,756
Mondrian EM Small Cap	\$10,901,483	\$500,000	-\$57,648	\$442,352	\$975,278	\$12,319,113
Morgan Stanley	\$21,627,219	\$400,000	-\$54,891	\$345,109	\$1,696,578	\$23,668,907
Newton Global Real Return	\$26,956,854	\$0	-\$54,426	-\$54,426	\$594,264	\$27,496,693
SSgA S&P 500	\$78,021,514	\$0	-\$543,395	-\$543,395	\$7,078,215	\$84,556,334
Vanguard Inflation-Protected Securities	\$12,779,009	\$0	-\$2,240	-\$2,240	\$68,243	\$12,845,012
Vanguard Short-Term Inflation-Protected Securities	\$12,244,139	\$0	-\$1,231	-\$1,231	\$129,222	\$12,372,130
Westfield Capital	\$13,640,637	\$17,383	-\$74,467	-\$57,084	\$1,986,330	\$15,569,883
Total	\$344,884,241	\$6,814,041	-\$5,319,787	\$1,494,255	\$21,775,561	\$368,154,057



ASSET CLASS ALLOCATIONS

Current

8.1%

18.0%

6.9%

6.8%

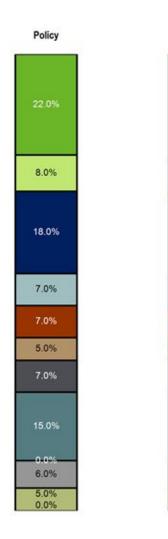
4.1%

6.8%

0.6%

5.7%

4.7%



Asset Allocation vs. Target													
	Current	Policy	Current	Difference	Policy Range	Within Range							
Large Cap Equity	\$84,556,334	22.0%	23.0%	1.0%	17.0% - 27.0%	Yes							
Small/Mid Cap Equity	\$29,776,947	8.0%	8.1%	0.1%	3.0% - 13.0%	Yes							
International Equity	\$66,084,963	18.0%	18.0%	0.0%	8.0% - 28.0%	Yes							
Emerging Markets Equity	\$25,573,796	7.0%	6.9%	-0.1%	0.0% - 14.0%	Yes							
Core Bonds	\$25,180,735	7.0%	6.8%	-0.2%	2.0% - 12.0%	Yes							
Bank Loans	\$15,124,870	5.0%	4.1%	-0.9%	0.0% - 10.0%	Yes							
TIPS	\$25,217,143	7.0%	6.8%	-0.2%	0.0% - 14.0%	Yes							
Global Asset Allocation	\$54,596,400	15.0%	14.8%	-0.2%	10.0% - 20.0%	Yes							
Private Equity	\$2,073,915	0.0%	0.6%	0.6%	0.0% - 5.0%	Yes							
Hedge Funds	\$20,998,756	6.0%	5.7%	-0.3%	0.0% - 10.0%	Yes							
Absolute Return	\$17,178,823	5.0%	4.7%	-0.3%	0.0% - 10.0%	Yes							
Cash	\$1,791,377	0.0%	0.5%	0.5%	0.0% - 10.0%	Yes							
Total	\$368,154,057	100.0%	100.0%										

Note: International equity policy targets and ranges include international small cap equity. Emerging market equity policy targets and ranges include emerging market small cap equity. TIPS policy targets and ranges include short-term TIPS.



December 31, 2019

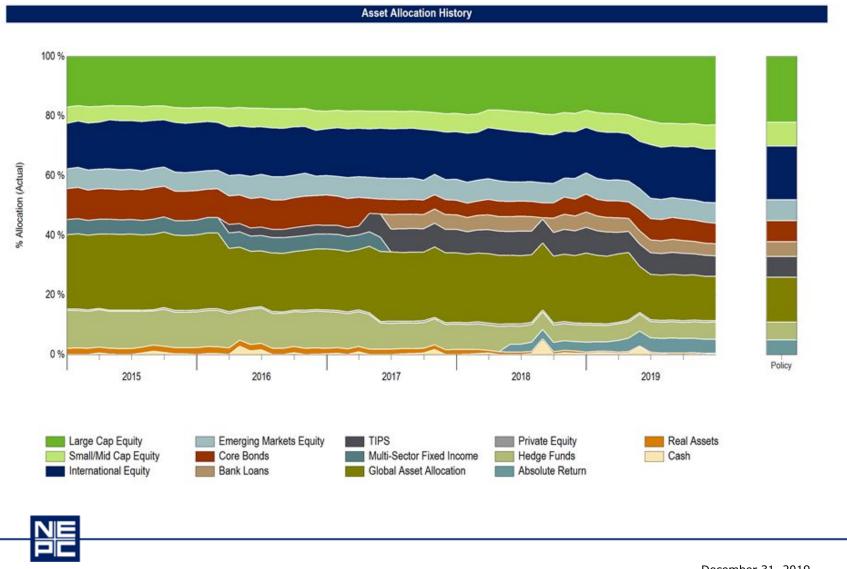
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ASSET CLASS ALLOCATIONS

			Asset	Allocation		
Policy	Current	Look Through		Policy	Current	Look Through
			Large Cap Equity	22.0%	23.0%	23.6%
			Small/Mid Cap Equity	8.0%	8.1%	8.1%
			International Equity	18.0%	18.0%	20.9%
22.0%	23.0%	23.6%	Emerging Markets Equity	7.0%	6.9%	9.0%
			Core Bonds	7.0%	6.8%	7.8%
			Bank Loans	5.0%	4.1%	
	_		TIPS	7.0%	6.8%	6.8%
8.0%	8.1%	8.1%	Multi-Sector Fixed Income			4.6%
	0.170	8.1%	Fixed Income - Emerging			1.1%
			Global Bonds	-		1.6%
			Global Asset Allocation	15.0%	14.8%	
18.0%	18.0%		Private Equity	0.0%	0.6%	0.6%
		20.9%	Hedge Funds	6.0%	5.7%	8.8%
			Absolute Return	5.0%	4.7%	
			Real Assets			0.8%
7.0%	6.9%		Cash	0.0%	0.5%	6.3%
-		9.0%	Total	100.0%	100.0%	100.0%
7.0%	6.8%					
5.0%	4.1%	2.00	Net Asset Allocation breaks out the exposure of GAA man	nagers.		
	4.170	7.8%	Asset class weights may not add up to 100% due to rour	5		
7.0%	6.8%		- , .	-		
		6.8% 4.6% 1.1%	The 60% MSCI ACWI/40% CITI WGBI Index is broken do 19.3% Int'l Equities, 7.3% Emerging Equities, 15.6% US 7.4% Japanese Debt, 2.1% United Kingdom Bonds and 2	Treasury Bonds, 12.3% Euro	pean Governme	
15.0%	14.8%	1.6%	Diversified Fixed Income bucket includes: multi-sector fix income.	xed income., non-U.S. fixed ir	come, and eme	rging fixed
0.0%	0.0%	8.8%				
6.0%	5,7%	0.8%				
5.0% 0.0%	4.7%	6.3%				

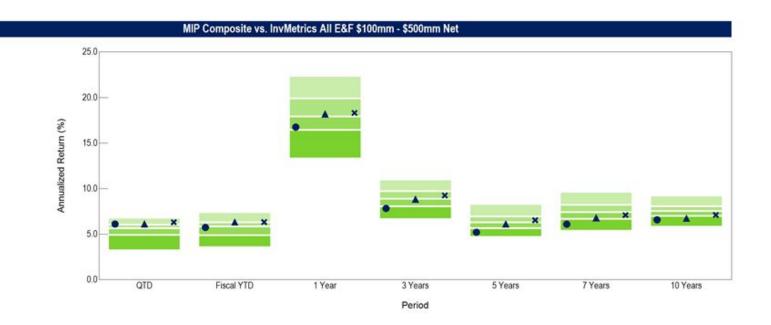


ASSET ALLOCATION HISTORY



3.2

RETURNS VS. PEER UNIVERSE



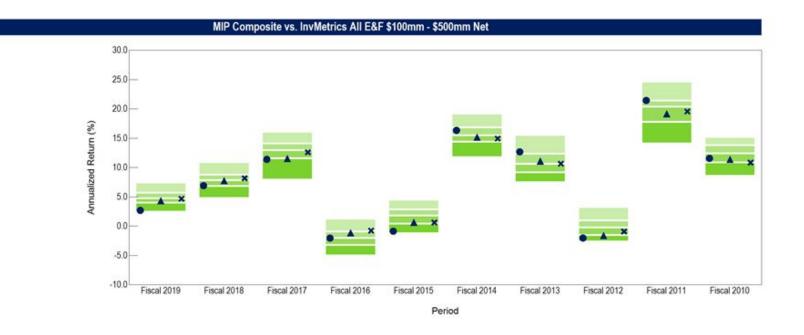
	Return (Rank)													
5th Percentile	6.8		7.4		22.4		11.0		8.3		9.6		9.2	
25th Percentile	6.0		6.3		19.9		9.7		7.0		8.2		8.1	
Median	5.7		5.9		18.0		8.9		6.3		7.4		7.6	
75th Percentile	4.9		4.9		16.5		8.1		5.7		6.7		7.0	
95th Percentile	3.2		3.6		13.3		6.7		4.7		5.4		5.8	
# of Portfolios	163		163		159		154		141		126		116	
MIP Composite	6.1	(24)	5.7	(54)	16.7	(72)	7.8	(83)	5.2	(89)	6.1	(92)	6.6	(87)
Allocation Index	6.1	(24)	6.3	(25)	18.2	(48)	8.8	(52)	6.1	(60)	6.8	(71)	6.8	(83)
Policy Index	6.3	(19)	6.3	(26)	18.3	(45)	9.2	(42)	6.5	(38)	7.1	(60)	7.1	(71)

RETURNS VS. PEER UNIVERSE



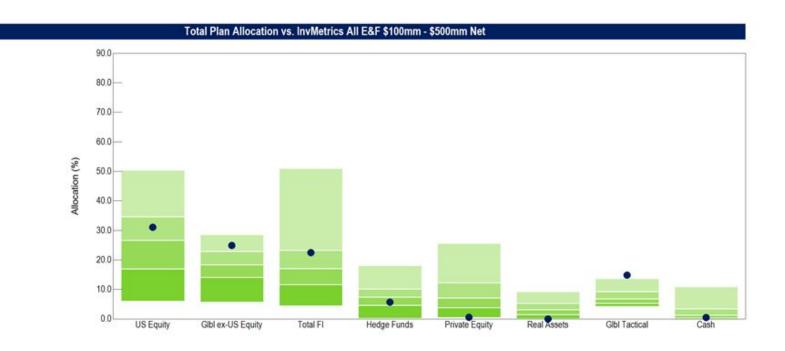
	Return (Ra	ank)																		
5th Percentile	22.4		-1.4		19.6		9.2		1.3		7.3		20.5		14.1		4.2		14.6	
25th Percentile	19.9		-3.8		17.2		7.4		-0.7		5.7		16.8		13.0		0.5		13.3	
Median	18.0		-5.1		15.4		6.2		-1.7		4.4		14.2		12.3		-0.6		12.4	
75th Percentile	16.5		-6.4		13.8		5.2		-2.7		3.6		11.5		11.3		-1.8		11.1	
95th Percentile	13.3		-7.8		11.1		3.6		-4.3		2.0		7.4		9.0		-3.6		8.3	
# of Portfolios	159		231		177		186		142		98		75		78		75		70	
MIP Composite	16.7	(72)	-6.9	(86)	15.3	(53)	5.2	(75)	-2.2	(64)	2.9	(86)	14.1	(54)	14.4	(3)	-2.8	(90)	12.3	(53)
Allocation Index	18.2	(48)	-6.1	(71)	16.2	(37)	5.8	(58)	-1.4	(44)	3.5	(77)	13.9	(57)	11.9	(58)	-2.1	(79)	10.7	(83)
Policy Index	18.3	(45)	-5.7	(61)	16.9	(29)	7.0	(36)	-1.6	(48)	3.5	(78)	13.8	(57)	11.7	(64)	-2.0	(78)	12.3	(51)

RETURNS VS. PEER UNIVERSE



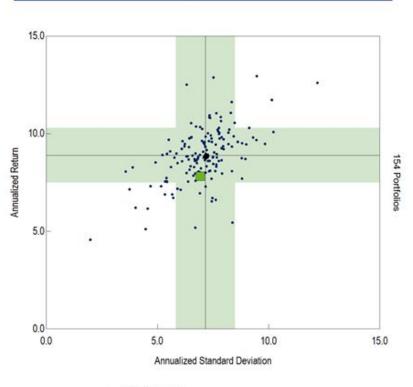
	Return (Ra	ank)																		
5th Percentile	7.4	1	0.9		16.1		1.2		4.5		19.2		15.5		3.3		24.7		15.2	
25th Percentile	5.8		8.8		14.1		-0.9		2.9		16.9		12.4		1.0		21.4		13.8	
Median	4.8		7.9		13.0		-2.0		1.9		15.5		10.7		-0.2		20.4		12.4	
75th Percentile	4.0		6.9		11.6		-3.2		0.4		14.5		9.2		-1.5		17.8		10.9	
95th Percentile	2.5		4.8		8.0		-4.9		-1.2		11.8		7.6		-2.6		14.1		8.6	
# of Portfolios	273		170		180		157		130		83		81		75		73		69	
MIP Composite	2.7	(94)	6.9 (74)	11.4	(78)	-2.0	(52)	-0.9	(94)	16.3	(32)	12.7	(23)	-2.0	(88)	21.4	(24)	11.6	(64)
Allocation Index	4.4	(68)	7.8 (54)	11.6	(76)	-1.1	(29)	0.7	(70)	15.2	(63)	11.1	(45)	-1.6	(83)	19.2	(66)	11.4	(68)
Policy Index	4.7	(54)	8.2 (43)	12.6	(59)	-0.8	(24)	0.6	(70)	14.9	(65)	10.7	(50)	-0.9	(66)	19.6	(60)	10.8	(80)

ALLOCATIONS VS. PEER UNIVERSE



	Allocation (R	ank)														
5th Percentile	50.4		28.6		51.0		18.1		25.6		9.2		13.7		10.9	
25th Percentile	34.8		23.0		23.4		10.3		12.3		5.4		9.4		3.5	
Median	26.7		18.4		17.1		7.5		7.2		3.2		6.9		1.3	
75th Percentile	17.0		14.1		11.7		4.7		4.0		1.5		5.4		0.4	
95th Percentile	6.0		5.8		4.5		0.3		0.6		0.1		4.3		0.0	
# of Portfolios	103		128		137		80		101		45		19		123	
 MIP Composite 	31.1	(32)	24.9	(17)	22.5	(28)	5.7	(67)	0.6	(96)	0.0	(99)	14.8	(1)	0.5	(72)

TOTAL PLAN RISK/RETURN - 3 YEAR



3 Years Ending December 31, 2019

3 Years Ending December 31, 2019										
	Anlzd Ret	Rank	Anlzd Std Dev	Rank						
MIP Composite	7.8%	83	6.9%	43						
Allocation Index	8.8%	52	7.2%	53						
Policy Index	9.2%	42	7.4%	61						
InvMetrics All E&F \$100mm - \$500mm Net Median	8.9%		7.2%							

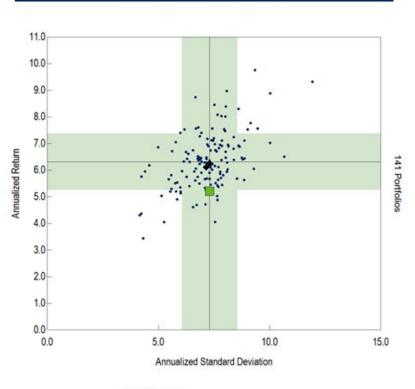
3 Years Ending December 31, 2019										
	Sharpe Ratio	Rank	Sortino Ratio RF	Rank						
MIP Composite	0.9	82	1.0	74						
Allocation Index	1.0	58	1.1	47						
Policy Index	1.0	53	1.1	45						
InvMetrics All E&F \$100mm - \$500mm Net Median	1.0		1.1	-						

- MIP Composite
- Allocation Index
- Universe Median
- 68% Confidence Interval
- InvMetrics All E&F \$100mm \$500mm Net

*Returns are net of fees.



TOTAL PLAN RISK/RETURN - 5 YEAR



5 Years Ending December 31, 2019

5 Years Ending December 31, 2019										
	Anlzd Ret	Rank	Anlzd Std Dev	Rank						
MIP Composite	5.2%	89	7.3%	50						
Allocation Index	6.1%	60	7.1%	43						
Policy Index	6.5%	38	7.3%	50						
InvMetrics All E&F \$100mm - \$500mm Net Median	6.3%		7.3%							

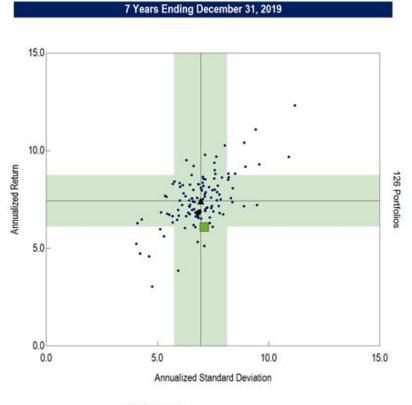
5 Years Ending December 31, 2019									
	Sharpe Ratio	Rank	Sortino Ratio RF	Rank					
MIP Composite	0.6	91	0.8	87					
Allocation Index	0.7	57	0.9	52					
Policy Index	0.8	43	1.0	35					
InvMetrics All E&F \$100mm - \$500mm Net Median	0.7		0.9						

- MIP Composite
- Allocation Index
- Universe Median
- 68% Confidence Interval
- InvMetrics All E&F \$100mm \$500mm Net

*Returns are net of fees.



TOTAL PLAN RISK/RETURN - 7 YEAR



7 Years Ending December 31, 2019										
	Anlzd Ret	Rank	Anlzd Std Dev	Rank						
MIP Composite	6.1%	92	7.1%	60						
Allocation Index	6.8%	71	6.8%	45						
Policy Index	7.1%	60	6.9%	48						
InvMetrics All E&F \$100mm - \$500mm Net Median	7.4%		7.0%							

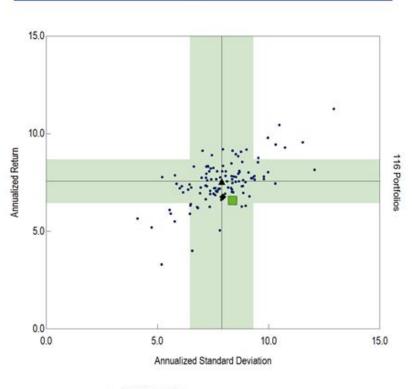
7 Years Ending December 31, 2019										
	Sharpe Ratio	Rank	Sortino Ratio RF	Rank						
MIP Composite	0.8	95	1.1	88						
Allocation Index	0.9	69	1.2	65						
Policy Index	0.9	65	1.3	58						
InvMetrics All E&F \$100mm - \$500mm Net Median	1.0		1.3	-						

- MIP Composite
- Allocation Index
- Universe Median
- 68% Confidence Interval
- InvMetrics All E&F \$100mm \$500mm Net

*Returns are net of fees.



TOTAL PLAN RISK/RETURN - 10 YEAR



10 Years Ending December 31, 2019

10 Years Ending December 31, 2019									
	Anlzd Ret	Rank	Anlzd Std Dev	Rank					
MIP Composite	6.6%	87	8.4%	65					
Allocation Index	6.8%	83	7.9%	52					
Policy Index	7.1%	71	7.9%	52					
InvMetrics All E&F \$100mm - \$500mm Net Median	7.6%		7.9%						

10 Years Ending December 31, 2019									
	Sharpe Ratio	Rank	Sortino Ratio RF	Rank					
MIP Composite	0.7	93	1.0	90					
Allocation Index	0.8	78	1.1	72					
Policy Index	0.8	69	1.2	50					
InvMetrics All E&F \$100mm - \$500mm Net Median	0.9		1.2						

- MIP Composite
- Allocation Index
- Universe Median
- 68% Confidence Interval
- InvMetrics All E&F \$100mm \$500mm Net

*Returns are net of fees.



TOTAL PLAN PERFORMANCE DETAIL

	Market Value	% of Portfolio	Policy %		iscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)
NID O and a state	(\$)	100.0	400.0	(%)						
MIP Composite	368,154,057	100.0	100.0	6.1 6.1	5.7 6.3	16.7 18.2	7.8 8.8	5.2 6.1	6.1 6.8	6.6 6.8
Allocation Index				6.3	6.3 6.3	18.2 18.3	8.8 9.2	6.1 6.5	0.8 7.1	0.8 7.1
Policy Index	04 550 004	23.0	22.0	0.3 9.1						
Total Domestic Large Cap S&P 500	84,556,334	23.0	22.0	9.1 9.1	10.9 10.9	31.4	15.2	11.6 11.7	14.4 14.7	13.4 13.6
	04 550 004	02.0	00.0			31.5	15.3			
SSgA S&P 500 S&P 500	84,556,334	23.0	22.0	9.1	10.9	31.4	15.2	11.6	14.7	13.5
	00 770 0 /7			9.1	10.9 9.4	31.5	15.3	11.7	14.7	13.6
Total Domestic Small/Mid Cap	29,776,947	8.1	8.0	11.5		28.0	10.8	8.5	12.1	12.5
Russell 2500	15 500 000	10	10	8.5	7.1	27.8	10.3	8.9	12.3	12.6
Westfield Capital	15,569,883	4.2	4.0	14.3	11.4	34.5	17.5	10.4	13.5	14.2
Russell 2500 Growth	44.007.004		10	10.6	7.1	32.7	15.2	10.8	14.1	14.0
DFA	14,207,064	3.9	4.0	8.6	7.3	21.5	3.9	6.1	10.2	
Russell 2000 Value				8.5	7.9	22.4	4.8	7.0	10.1	10.6
Total International Equity (including emerging markets)	91,658,759	24.9	25.0	8.2	5.0	16.6	7.6	4.0	3.9	5.0
MSCI EAFE	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			8.2	7.0	22.0	9.6	5.7	6.3	5.5
Morgan Stanley	23,668,907	6.4	6.5	7.4	5.6	20.4	9.1	5.0	5.4	5.4
Globeflex	23,289,308	6.3	6.5	7.6	4.0	14.2	6.9	4.5	5.6	5.5
MSCI EAFE				8.2	7.0	22.0	9.6	5.7	6.3	5.5
Kabouter International Opportunities Offshore Fund II	19,126,748	5.2	5.0	9.3	5.0	17.9				
MSCI EAFE Small Cap				11.5	11.0	25.0	10.9	8.9	9.4	8.7
Emerging Markets Equity	25,573,796	6.9	7.0	8.9	5.3	14.9	7.0	2.3	0.5	
MSCI Emerging Markets				11.8	7.1	18.4	11.6	5.6	3.3	3.7
Aberdeen Emerging Mrkts	13,254,683	3.6	3.5	9.4	4.9	20.4	10.2	5.3	2.2	5.3
MSCI Emerging Markets				11.8	7.1	18.4	11.6	5.6	3.3	3.7
Mondrian EM Small Cap	12,319,113	3.3	3.5	8.2	5.9	9.4	3.5	-0.7		
MSCI Emerging Markets Small Cap				9.5	4.5	11.5	6.7	3.0	2.4	2.9
Total Fixed Income	82,701,570	22.5	24.0	1.0	2.3	8.0	4.2	3.1	3.4	4.8
BBgBarc US Aggregate TR				0.2	2.5	8.7	4.0	3.0	2.7	3.7
Commonfund	25,180,735	6.8	7.0	0.8	2.9	9.4	4.8	3.5	3.4	4.6
BBgBarc US Aggregate TR				0.2	2.5	8.7	4.0	3.0	2.7	3.7
Vanguard Inflation-Protected Securities	12,845,012	3.5	3.5	0.5	2.0	8.2	3.2			
BBgBarc US TIPS TR				0.8	2.1	8.4	3.3	2.6	1.1	3.4
Vanguard Short-Term Inflation-Protected Securities	12,372,130	3.4	3.5	1.0	1.5					
BBgBarc US TIPS 1-5 Yr TR				1.2	1.4	5.1	2.1	1.8	0.9	1.7
Blackrock Strategic Income Opportunities	17,178,823	4.7	5.0	1.6	2.5	7.8				
3-Month Libor Total Return USD				0.5	1.0	2.4	2.0	1.4	1.1	0.9
Bain Capital Senior Loan Fund	15,124,870	4.1	5.0	1.2	1.9	7.7				
Credit Suisse Leveraged Loans				1.7	2.6	8.2	4.5	4.5	4.4	5.2

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December 31, 2019

TOTAL PLAN PERFORMANCE DETAIL

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)
Total GAA	54,596,400	14.8	15.0	3.6	3.2	12.2	5.7	3.4	3.7	4.1
65% MSCI ACWI (Net) / 35% BBgBarc Global Agg				5.9	6.2	19.6	9.7	6.4	6.9	6.7
GMO Global Absolute Return	27,099,707	7.4	7.5	5.2	3.7	10.7	5.7	3.3	4.0	4.5
Blended Index				1.9	3.1	11.3	5.1	4.3	3.8	5.1
Newton Global Real Return	27,496,693	7.5	7.5	2.0	2.7	11.8	5.7			
60% MSCI ACWI (Net)/ 40% BBgBarc Global Agg				5.5	5.8	18.6	9.3	6.1	6.5	6.4
Total Hedge Funds	20,998,756	5.7	6.0	7.3	5.4	13.4	4.2	2.4	2.9	2.5
HFRI Fund of Funds Composite Index				3.0	2.1	8.3	3.9	2.4	3.4	2.8
Lighthouse	20,998,756	5.7	6.0	7.3	5.4	13.4	5.5			
Credit Suisse Long Shrt Eqt USD				5.1	5.2	12.2	6.7	3.9	6.0	5.2
Private Equity	2,073,915	0.6	0.0	0.0	7.4	11.1	11.3	10.3		
Landmark Equity Partners XV	2,073,915	0.6	0.0	0.0	7.4	11.1	11.3	10.3		
Cambridge Associates US All PE (1 Qtr Lag)				2.2	5.7	9.0	14.6	11.6	13.3	14.1
Total Cash	1,791,377	0.5	0.0							
Distribution Account	1,791,377	0.5	0.0	0.3	0.7	1.8	1.3	0.8	0.6	0.5
91 Day T-Bills				0.4	0.9	2.1	1.6	1.1	0.8	0.6

Notes: Fiscal YTD begins 7/1 Blended Index: 40% BC Aggregate, 30% BC U.S. TIPS 1-10YR, 10% S&P 500, 10% BC High Yield, 10% JPM EMBI+ Returns are net of manager fees. John Hancock Timber fully liquidated on 12/27/2019. Landmark market value estimated as of 12/31/19. Cash account includes \$434 currently being held in the TCW account.

December 31, 2019

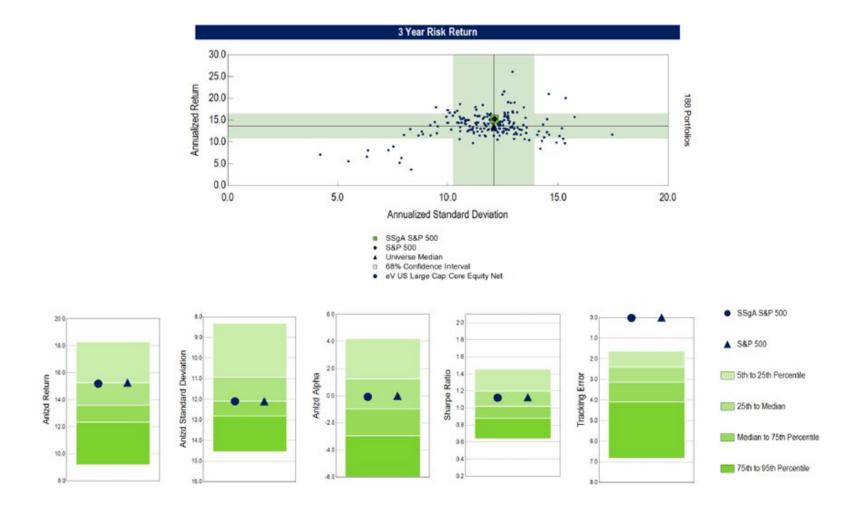
SSGA S&P 500







SSGA S&P 500



SSGA S&P 500

Characteristics		
	Portfolio	S&P 500
Number of Holdings	505	505
Weighted Avg. Market Cap. (\$B)	269.8	272.0
Median Market Cap. (\$B)	23.6	23.6
Price To Earnings	23.0	23.0
Price To Book	3.9	3.9
Price To Sales	2.1	2.1
Return on Equity (%)	26.1	26.1
Yield (%)	1.9	1.8
Beta		1.0
R-Squared		1.0

			Equity S	ector Attribution				
		Attribution Effects			Returns	1	Ending Sector	Weights
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	5.5%	5.6%	4.3%	4.2%
Materials	0.0%	0.0%	0.0%	0.0%	6.3%	6.4%	2.6%	2.6%
Industrials	0.0%	0.0%	0.0%	0.0%	5.5%	5.5%	9.1%	9.0%
Consumer Discretionary	0.0%	0.0%	0.0%	0.0%	4.3%	4.4%	9.8%	10.1%
Consumer Staples	0.0%	0.0%	0.0%	0.0%	3.5%	3.6%	7.2%	7.8%
Health Care	0.0%	0.0%	0.0%	0.0%	14.3%	14.5%	14.2%	13.8%
Financials	0.0%	0.0%	0.0%	0.0%	10.5%	10.7%	13.0%	13.3%
Information Technology	0.0%	0.0%	0.0%	0.0%	14.5%	14.5%	23.2%	22.8%
Communication Services	0.0%	0.0%	0.0%	0.0%	9.0%	9.1%	10.4%	10.4%
Utilities	0.0%	0.0%	0.0%	0.0%	0.7%	0.7%	3.3%	3.2%
Real Estate	0.0%	0.0%	0.0%	0.0%	-0.5%	-0.5%	2.9%	2.8%
Cash	-0.1%	0.0%	-0.1%	0.0%	0.4%	-	0.0%	0.0%
Unclassified	0.0%	-	-	-	-	-	-	-
Portfolio	-0.2% =	-0.1% +	-0.1% +	0.0%	9.0%	9.2%	100.0%	100.0%

*Attribution on manager pages is holdings based, using buy-and-hold assumptions from the beginning of period portfolio. Results may differ from actual performance. Returns are net of fees.



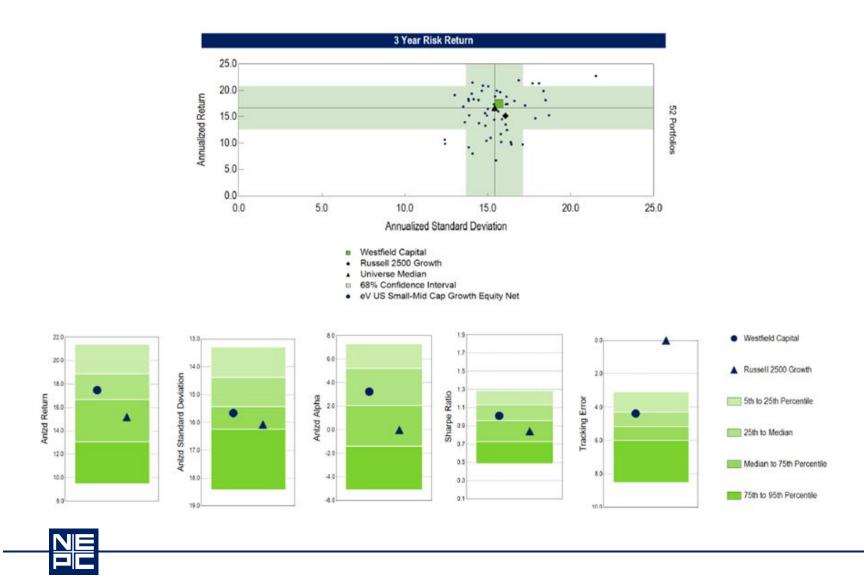
WESTFIELD CAPITAL







WESTFIELD CAPITAL



WESTFIELD CAPITAL

Characteristics	;	
	Portfolio	Russell 2500 Growth
Number of Holdings	69	1,409
Weighted Avg. Market Cap. (\$B)	9.2	5.9
Median Market Cap. (\$B)	7.1	1.3
Price To Earnings	26.2	28.4
Price To Book	4.6	5.5
Price To Sales	1.9	2.0
Return on Equity (%)	11.6	5.4
Yield (%)	0.7	0.7
Beta		1.0
R-Squared		1.0

Top Positive Contributors					
	Relative				
	Contribution %	Return %			
MEDICINES COMPANY	2.6%	69.9%			
DEXCOM	0.8%	46.6%			
SAREPTA THERAPEUTICS	0.8%	71.3%			
ELDORADO RESORTS	0.7%	49.6%			
FORTINET	0.6%	39.1%			
LUMENTUM HOLDINGS	0.5%	48.1%			
CERIDIAN HCM HOLDING	0.5%	37.5%			
ALNYLAM PHARMACEUTICALS	0.5%	43.2%			
ACCELERON PHARMA	0.4%	34.2%			
ON SEMICONDUCTOR	0.4%	26.9%			

Top Negative Contributors						
	Relative					
	Contribution %	Return %				
SAGE THERAPEUTICS	-0.5%	-48.5%				
REALPAGE	-0.3%	-14.5%				
HAEMONETICS	-0.1%	-8.9%				
TWILIO 'A'	-0.1%	-10.6%				
8×8	-0.1%	-11.7%				
WORLD WRESTLING ENTM.'A'	0.0%	-8.6%				
TREX	0.0%	-1.2%				
GRAND CANYON EDUCATION	0.0%	-2.5%				
ROGERS	0.0%	-8.8%				
BRIXMOR PROPERTY GROUP	0.0%	8.0%				

			Equity Sector	ector Attribution					
			Attribution Effects		Returns	8	Ending Sector Weights		
	Total	Selection	Allocation	Interaction					
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark	
Energy	0.1%	0.0%	-0.1%	0.2%	13.5%	7.2%	3.5%	0.5%	
Materials	0.1%	0.1%	0.0%	0.0%	10.5%	8.3%	3.4%	3.6%	
Industrials	0.3%	0.3%	0.1%	0.0%	8.2%	6.7%	15.4%	17.3%	
Consumer Discretionary	0.6%	0.8%	0.1%	-0.3%	14.1%	8.1%	12.0%	12.9%	
Consumer Staples	0.1%	0.1%	0.0%	0.0%	11.9%	5.7%	1.5%	2.2%	
Health Care	1.3%	1.2%	0.1%	0.0%	26.0%	20.4%	22.1%	24.3%	
Financials	0.2%	0.2%	-0.1%	0.0%	10.5%	7.5%	8.3%	6.1%	
Information Technology	0.6%	0.6%	0.0%	0.0%	12.2%	10.0%	24.4%	25.0%	
Communication Services	0.0%	-0.1%	0.0%	0.0%	6.7%	8.6%	3.2%	3.2%	
Utilities	0.1%		0.1%	-	-	-1.6%	0.0%	0.8%	
Real Estate	0.1%	0.0%	0.0%	0.0%	4.2%	3.3%	2.8%	4.2%	
Cash	-0.3%	0.0%	-0.3%	0.0%	0.4%	-	3.4%	0.0%	
Portfolio	3.3% =	3.3% +	0.0% +	0.0%	13.9%	10.7%	100.0%	100.0%	

*Attribution on manager pages is holdings based, using buy-and-hold assumptions from the beginning of period portfolio. Results may differ from actual performance. Returns are net of fees.



Index

DFA US TARGETED VALUE I



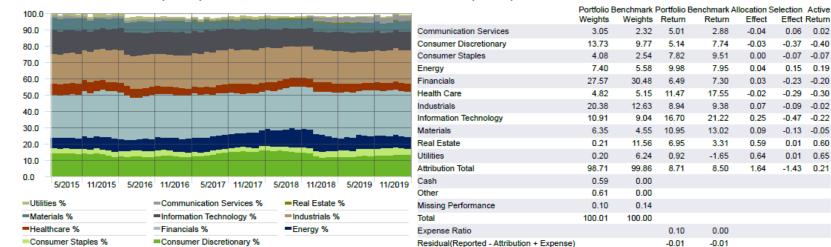
Portfolio Statistics		
	Fund	
# of Holdings	1,489	
% Asset in Top 10 Holdings	6.2	
Turnover Ratio %	16.0	
P/E Ratio	13.7	
P/B Ratio	1.3	
LT Earn Growth	11.4	
Hist Earn Growth	8.2	
12 Mo Yield	1.3	

Top 10 Holdings Market Capitalization Breakdown

Index		Fund	Index		Portf Weight %	3 Month Ret %
1,402	Market Cap Giant %	0.5	0.0	E-mini S&P 500 Futures Dec19	0.87	
4.9	Market Cap Large %	0.9	0.0	Reliance Steel & Aluminum Co	0.69	20.72
	Market Cap Mid %	34.5	11.4	Arrow Electronics Inc	0.66	13.62
14.9	Market Cap Small %	53.5	72.4	People's United Financial Inc	0.62	9.23
1.4	Market Cap Micro %	10.6	16.2	Tech Data Corp	0.59	37.76
10.0	Average Market Cap (mil)	2,535.2	1,651.8	AECOM	0.59	14.83
10.8				Post Holdings Inc	0.55	3.08
				Genesee & Wyoming Inc Class A	0.55	1.94
				Toll Brothers Inc	0.54	-3.48
				Quanta Services Inc	0.53	7.83

Historical Sector Allocations (5 Years)

+DFA US Targeted Value I A Russell 2000 Value TR USD

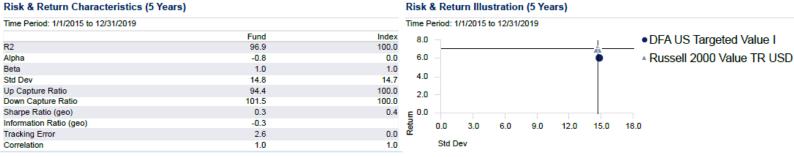


Attribution (Quarter)

Source: Morningstar

DFA US TARGETED VALUE I

Risk & Return Characteristics (5 Years)



Rolling Risk (3 Years)

Rolling Return (3 Years)





Source: Morningstar

December 31, 2019

MORGAN STANLEY INTERNATIONAL EQUITY I

Holding	s Based	Style	Trail (5 Y	'ears)	Portfolio Statistics			Market Capitalization E	Breakdov	vn	Top Ten Holdings		
Time Peri	od: 1/31/2	015 to 12	/31/2019			Fund	Index		Fund	Index		Port	
					# of Holdings	65	918	Market Cap Giant %	57.2	49.4		Weight %	Return
¥.		- 			% Asset in Top 10 Holdings	33.5	11.6	Market Cap Large %	35.9	36.7	Reckitt Benckiser Group PLC	4.31	3.86
0		72-7			Turnover Ratio %	34.0		Market Cap Mid %	6.8	13.7	Henkel AG & Co KGaA Participating Preferred	3.52	4.55
8.					P/E Ratio	18.7	17.4	Market Cap Small %	0.0	0.1	Unilever NV	3.47	-3.59
3					P/B Ratio	2.1	1.6	Market Cap Micro %	0.0	0.0	GlaxoSmithKline PLC	3.40	10.79
2					LT Earn Growth	7.7	7.9	Average Market Cap	51,119.8	35,741.4	Safran SA	3.21	-1.88
					Hist Earn Growth	4.3	4.8	Equity Region Developed %	96.3	99.3	SAP SE	3.21	14.84
and the second se					12 Mo Yield	2.0		Equity Region Emerging %	3.7	0.7	Sanofi SA	3.18	8.48
											RELX PLC	3.16	6.00
e W											Constellation Software Inc	3.02	-2.58
Deep-Val	Core-Val	Core	Core-Grth	High-Grth							Pernod Ricard SA	3.01	1.66

Morgan Stanley Inst International Eq.I MSCI EAFE NR USD

Sector Attribution (Quarter)

	Portfolio Weights	Benchmark Weights		Benchmark Return	Allocation Effect		Active Return
Communication Services	2.37	5.32	15.41	4.86	0.10	0.25	0.35
Consumer Discretionary	2.54	11.60	2.51	9.41	-0.11	-0.18	-0.29
Consumer Staples	29.54	11.65	3.63	1.95	-1.15	0.52	-0.63
Energy	4.82	4.98	2.62	3.84	0.01	-0.06	-0.06
Financials	14.77	18.48	9.45	8.10	0.00	0.20	0.21
Health Care	17.86	11.83	12.46	12.41	0.27	0.01	0.28
Industrials	13.13	15.00	4.24	9.99	-0.02	-0.77	-0.80
Information Technology	10.12	6.80	11.11	12.66	0.15	-0.16	-0.01
Materials	3.50	7.01	5.92	10.56	-0.08	-0.16	-0.25
Real Estate	0.00	3.59		4.34	0.14	0.00	0.14
Utilities	0.00	3.73		5.33	0.11	0.00	0.11
Attribution Total	98.66	99.98	7.18	8.14	-0.60	-0.35	-0.96
Cash	1.34	0.00					
Missing Performance	0.00	0.02					
Total	100.00	100.00					

Region Attribution	(Quarter)						
	Portfolio Weights	Benchmark Weights	Portfolio Return	Benchmark Return	Allocation Effect	Selection Effect	Active Return
Asia - Developed	8.24	4.60	10.94	7.88	-0.01	0.25	0.24
Asia - Emerging	3.55	0.48	8.23	13.01	0.15	-0.17	-0.02
Australasia	0.00	7.16		4.72	0.25	0.00	0.25
Canada	6.43	0.00	1.12		-0.47	0.00	-0.47
Europe - ex Euro	5.19	14.41	9.47	8.95	-0.07	0.03	-0.04
Eurozone	41.69	31.05	6.41	7.97	-0.02	-0.66	-0.68
Japan	12.24	24.74	4.86	7.65	0.06	-0.35	-0.29
Latin America	0.00	0.03		-0.85	0.00	0.00	0.00
Middle East	0.00	0.45		8.13	0.00	0.00	0.00
United Kingdom	19.96	15.93	9.36	9.73	0.07	-0.07	0.00
United States	1.35	1.13	14.49	12.00	0.01	0.03	0.04
Attribution Total	98.66	99.98	7.18	8.14	-0.03	-0.93	-0.96
Cash	1.34	0.00					
Missing Performance	0.00	0.02					
Total	100.00	100.00					



Source: Morningstar

MORGAN STANLEY INTERNATIONAL EQUITY I



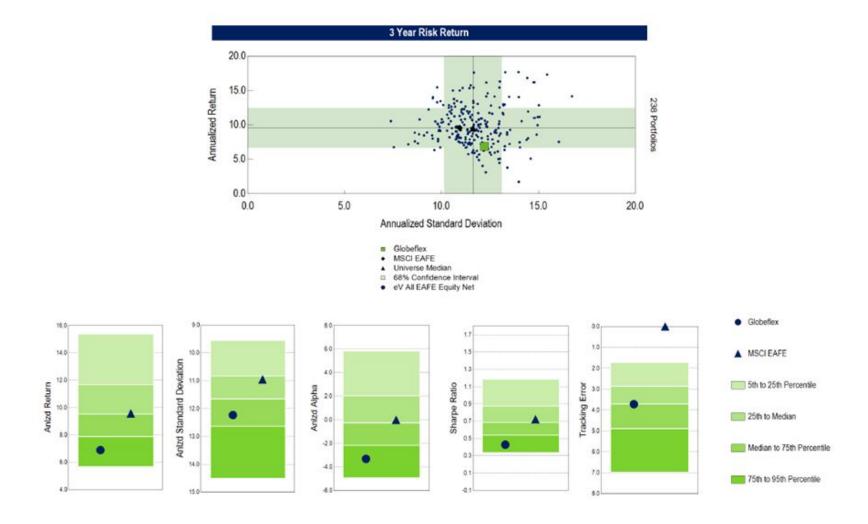


Source: Morningstar











December 31, 2019

Characteristic	s	
	Portfolio	MSCI EAFE
Number of Holdings	141	918
Weighted Avg. Market Cap. (\$B)	30.2	63.7
Median Market Cap. (\$B)	7.7	10.8
Price To Earnings	13.8	17.2
Price To Book	2.3	2.4
Price To Sales	0.8	1.1
Return on Equity (%)	19.4	14.4
Yield (%)	3.3	3.2
Beta		1.0
R-Squared		1.0

Top Positive Contributors					
	Relative				
	Contribution %	Return %			
ASTELLAS PHARMA	0.3%	20.9%			
BARRATT DEVELOPMENTS	0.3%	31.6%			
EXOR ORD	0.3%	16.2%			
SAMSUNG ELECTRONICS	0.2%	17.7%			
ATLAS COPCO B	0.2%	29.4%			
CSL	0.2%	23.0%			
REDROW	0.2%	29.6%			
FORTESCUE METALS GP.	0.2%	26.6%			
CANADIAN NATURAL RES.	0.2%	22.8%			
FERGUSON	0.2%	26.0%			

Top Negative Con	tributors Relative	
	Contribution %	Return %
EMPIRE 'A'	-0.2%	-13.0%
NOVARTIS 'R'	-0.1%	9.4%
SOMPO HOLDINGS	-0.1%	-5.3%
PEUGEOT	-0.1%	-4.1%
HKT TRUST & HKT	-0.1%	-11.2%
EVRAZ	-0.1%	-7.1%
IPSEN	-0.1%	-6.6%
HKBN	-0.1%	-6.6%
DEUTSCHE TELEKOM	0.0%	-2.7%
MEIJI HOLDINGS	0.0%	-6.9%

			Equity	Sector Attribution				
			Attribution Effects		Re	turns	Ending S	ector Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.2%	0.2%	-0.3%	0.3%	6.5%	4.0%	8.4%	4.9%
Materials	-0.2%	-0.2%	0.0%	0.1%	8.0%	10.6%	7.3%	7.1%
Industrials	0.5%	0.2%	0.0%	0.3%	12.5%	10.1%	20.6%	15.1%
Consumer Discretionary	0.0%	0.1%	-0.1%	0.1%	12.1%	9.2%	7.4%	11.6%
Consumer Staples	0.1%	-0.3%	0.5%	-0.1%	-0.8%	2.0%	3.6%	11.2%
Health Care	0.4%	0.1%	0.2%	0.1%	12.3%	12.4%	17.7%	12.2%
Financials	-0.3%	0.1%	0.0%	-0.4%	7.1%	8.5%	12.1%	18.6%
Information Technology	-0.1%	0.1%	-0.1%	-0.1%	13.9%	12.6%	6.9%	7.0%
Communication Services	-0.5%	-0.3%	-0.1%	-0.1%	-0.3%	5.0%	7.6%	5.2%
Utilities	0.0%	0.0%	0.0%	0.0%	5.1%	5.3%	4.2%	3.7%
Real Estate	0.0%	0.0%	0.0%	0.1%	4.9%	4.3%	3.2%	3.4%
Cash	0.0%		-		-	-	0.0%	0.0%
Portfolio	0.2%	= -0.1% +	+ 0.1%	+ 0.2%	8.4%	8.2%	99.1%	100.0%

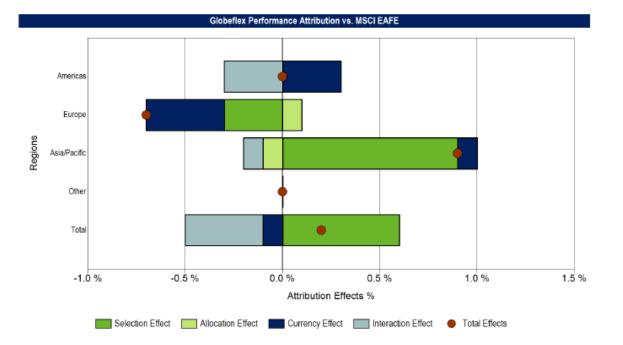
*Attribution on manager pages is holdings based, using buy-and-hold assumptions from the beginning of period portfolio. Results may differ from actual performance. Returns are net of fees.



Country Allocation							
	Manager		Manager	Index			
	Ending Allocation (USD)		Return (USD)	Return (USD)			
Americas							
Canada	11.6%	0.0%	5.0%	5.3%			
Total-Americas	11.7%	0.0%	5.0%				
Europe							
Austria	2.2%	0.2%	5.6%	8.2%			
Belgium	0.3%	1.0%		-1.5%			
Denmark	1.2%	1.8%	13.0%	13.2%			
Finland	0.4%	0.9%		3.1%			
France	8.2%	11.4%	2.6%	8.6%			
Germany	6.2%	8.6%	5.5%	9.5%			
Ireland	0.6%	0.6%		18.7%			
Italy	5.8%	2.3%	8.3%	8.5%			
Netherlands	4.7%	4.0%	10.9%	7.4%			
Norway	1.1%	0.6%	6.3%	4.5%			
Portugal	1.0%	0.2%	4.6%	8.6%			
Spain	3.1%	2.8%	-1.3%	6.1%			
Sweden	2.5%	2.7%	23.2%	13.6%			
Switzerland	4.7%	9.3%	10.2%	7.7%			
United Kingdom	12.4%	16.5%	11.4%	10.1%			
Total-Europe	54.9%	63.0%	8.2%	8.9%			

Country Allocation								
	Manager	Index	Manager	Index				
	Ending Allocation (USD)	Ending Allocation (USD)	Return (USD)	Return (USD)				
AsiaPacific								
Australia	6.5%	6.8%	12.9%	4.4%				
Hong Kong	1.7%	3.5%	0.0%	7.7%				
Japan	21.9%	24.5%	9.9%	7.7%				
Korea*	2.5%	0.0%	14.9%	12.1%				
Singapore	0.5%	1.3%		7.6%				
Total-AsiaPacific	33.5%	36.4%	10.0%	7.1%				
Totals								
Developed	97.5%	100.0%	8.2%	8.2%				
Emerging*	2.5%	0.0%	14.9%					





	Ret	urns and End	ing Weights		Attribution Effects				
	Manager Return	Index Return	Manager Weight	Index Weight	Selection Effect	Allocation Effect	Currency Effect	Interaction Effect	Total Effects
Totals									
Americas	5.0%	-	11.7%	0.0%	0.0%	0.0%	0.3%	-0.3%	0.0%
Europe	8.2%	8.9%	54.9%	63.0%	-0.3%	0.1%	-0.4%	0.0%	-0.7%
Asia/Pacific	10.0%	7.1%	33.5%	36.4%	0.9%	-0.1%	0.1%	-0.1%	0.9%
Other		8.1%	0.0%	0.6%	-	0.0%	0.0%		0.0%
Total	8.4%	8.2%	100.0%	100.0%	0.6%	0.0%	-0.1%	-0.4%	0.2%
Totals									
Developed	8.2%	8.2%	97.5%	100.0%	0.1%	0.0%	-0.1%	0.0%	-0.1%
Emerging*	14.9%	-	2.5%	0.0%	0.0%	0.0%	0.1%	0.1%	0.2%



KABOUTER INT'L OPPS OFFSHORE FUND II

SECTOR ATTRIBUTION W/CURRENCY

		Average Weight		Co	ontribution to Ret	urn	Total F	Return		Attribution	Analysis	
	Port. Average Weight	Bench. Average Weight	Variation in Average Weight	Port. Contrib To Return	Bench. Contrib. To Return	Variation in Contribution To Return	Port. Total Return	Bench. Total Return		Allocation Effect (Local)	Selection Effect (Local)	Total Currency Effec
Total	100.00	100.00		9.81	11.55	-1.74	9.81	11.55	-1.74	1.22	-2.18	-0.78
Communication Services	-	4.85	-4.85		0.41	-0.41		8.44	0.15	0.17	-	-0.02
Consumer Discretionary	3.90	12.53	-8.63	0.12	1.60	-1.49	3.59	12.92	-0.49	-0.10	-0.39	0.00
Consumer Staples	1.85	6.30	-4.45	-0.08	0.40	-0.48	-3.90	6.19	0.03	0.19	-0.15	-0.01
Energy		2.51	-2.51	-	0.15	-0.15		5.85	0.14	0.16		-0.03
Etf	1.48		1.48	0.17	,	0.17	11.03	-	-0.01	0.03		-0.04
Financials	8.44	10.67	-2.23	1.55	i 1.20	0.35	19.44	11.26	0.60	0.02	0.48	0.10
Health Care	19.04	7.22	11.82	1.79	0.97	0.81	9.54	13.71	-0.55	0.19	-0.57	-0.16
Industrials	21.98	21.45	0.53	2.64	3.04	-0.40	12.07	14.37	-0.47	0.04	-0.23	-0.27
Information Technology	20.93	10.09	10.84	3.44	1.60	1.84	17.67	16.13	0.60	0.45	0.12	0.03
Materials	9.89	7.97	1.92	-0.76	0.85	-1.61	-6.95	10.61	-1.83	-0.02	-1.55	-0.26
Real Estate	5.02	13.87	-8.86	0.33	1.12	-0.79	5.91	7.91	0.23	0.31	-0.07	-0.00
Utilities	7.48	2.42	5.06	0.63	0.19	0.44	8.50	7.78	-0.15	-0.23	0.19	-0.11

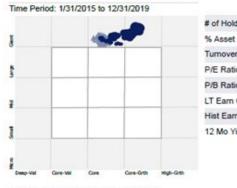
*Returns are gross of fees



Source: Kabouter

ABERDEEN EMERGING MARKET EQUITY

Holdings Based Style Trail (5 Years)



Portfolio Statistics			Market Capitalization B	Breakdow	wn
	Fund	Index		Fund	Index
# of Holdings	63	1,404	Market Cap Giant %	71,4	53.4
% Asset in Top 10 Holdings	40.3	24.5	Market Cap Large %	23.7	33.2
Turnover Ratio %	20.4		Market Cap Mid %	4.8	12.5
P/E Ratio	16.9	14.4	Market Cap Small %	0.0	0.9
P/B Ratio	2.6	1.7	Market Cap Micro %	0.1	0.0
LT Earn Growth	10.1	8.8	Average Market Cap	48,619.9	31,981.7
Hist Earn Growth	13.7	10.3	Equity Region Developed %	24.2	26.2
12 Mo Yield	1.8		Equity Region Emerging %	75.8	73.8

Top Ten Holdings

	Port Weight %	3 Month Return
Taiwan Semiconductor Manufacturing Co Ltd	6.82	26.89
Tencent Holdings Ltd	6.24	14.44
Samsung Electronics Co Ltd Participating Preferred	5.82	18.88
Housing Development Finance Corp Ltd	4.36	21.16
Ping An Insurance (Group) Co. of China Ltd Class H	3.94	2.90
Bank Bradesco SAADR	3.43	14.93
AIA Group Ltd	2.91	11.14
Vale SAADR	2.29	17.80
China Resources Land Ltd	2.27	18.83
Kotak Mahindra Bank Ltd	2.24	1.70

Aberdeen Emerging Markets Inst
 MSCI EM NR USD

Sector Attribution (Quarter)

	Portfolio Weights	Benchmark Weights					Active
Communication Services	11.00	11.20	9.94	9.77	0.02	0.04	0.06
Consumer Discretionary	12.37	13.55	9.69	16.47	-0.01	-0.90	-0.91
Consumer Staples	10.77	6.73	-1.11	2.52	-0.37	-0.42	-0.79
Energy	4.35	6.12	10.74	7.51	0.07	0.14	0.21
Financials	28.04	24.60	9.50	9.66	-0.07	-0.05	-0.12
Health Care	0.92	2.74	24.07	14.67	-0.06	0.08	0.03
Industrials	2.33	5.35	11.33	7.52	0.13	0.09	0.22
Information Technology	16.27	15.27	19.69	18.71	0.07	0.15	0.21
Materials	7.77	7.25	5.16	12.35	0.00	-0.58	-0.58
Real Estate	4.91	2.90	11.34	17.66	0.11	-0.33	-0.21
Utilities	0.00	2.76		4.38	0.21	0.00	0.21
Attribution Total	98.72	98.48	9,93	11.61	0.10	-1.78	-1.68
Cash	1.28	0.00					
Missing Performance	0.00	1.52					
Total	100.00	100.00					

Region Attribution (Quarter)

	Portfolio Weights	Benchmark Weights	Portfolio Return	Benchmark Return	Allocation	Selection	Return
Africa	3.01	4.70	3.71	13.14	-0.03	-0.29	-0.32
Asia - Developed	20.56	24.33	17.39	15.06	-0.13	0.47	0.34
Asia - Emerging	49.74	48.60	7.42	10.85	0.02	-1.78	-1.76
Europe - Emerging	4.20	4.47	8.03	10.68	0.00	-0.11	-0.11
Eurozone	2.24	0.37	8.02	11.89	0.03	-0.14	-0.12
Latin America	18.06	11.56	9,71	10.49	-0.02	-0.14	-0.16
Middle East	0.00	4.13		2.48	0.40	0.00	0.40
United States	0.92	0.31	24.07	32.77	0.12	-0.08	0.05
Attribution Total	98.72	98.48	9.93	11.61	0.39	-2.07	-1.68
Cash	1.28	0.00					
Missing Performance	0.00	1.52					
Total	100.00	100.00					



Source: Morningstar

December 31, 2019

ABERDEEN EMERGING MARKET EQUITY

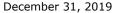


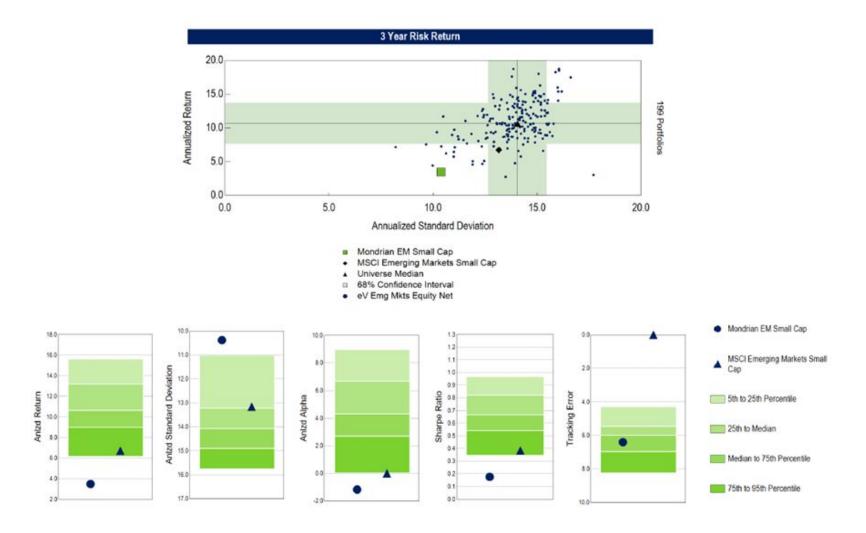












Characteristics		
	Portfolio	MSCI Emerging Markets Small Cap
Number of Holdings	105	1,652
Weighted Avg. Market Cap. (\$B)	1.5	1.3
Median Market Cap. (\$B)	1.1	0.7
Price To Earnings	19.1	13.5
Price To Book	3.2	2.3
Price To Sales	2.2	0.9
Return on Equity (%)	18.9	12.3
Yield (%)	2.4	2.8
Beta		1.0
R-Squared		1.0

Top Positive Contributors						
Relative Contribution %	Return %					
0.7%	66.4%					
0.5%	30.7%					
0.4%	27.1%					
0.4%	28.1%					
0.4%	36.4%					
0.4%	35.2%					
0.3%	30.8%					
0.3%	18.5%					
0.3%	15.4%					
0.3%	27.5%					
	Relative Contribution % 0.7% 0.5% 0.4% 0.4% 0.4% 0.4% 0.3% 0.3%					

Top Negative Contributors							
	Relative						
	Contribution %	Return %					
MANILA WATER	-0.4%	-46.3%					
SARANA MEDITAMA MET.TBK	-0.3%	-46.7%					
ARWANA CITRAMULIA	-0.2%	-12.6%					
CCL PRODUCTS (INDIA)	-0.1%	-16.5%					
SINOSOFT TECHNOLOGY GP.	-0.1%	-10.6%					
SYMPHONY	-0.1%	-10.5%					
PACIFIC HOSPITAL SUPPLY	-0.1%	-10.9%					
FU SHOU YUAN INTL.GP.	-0.1%	-4.2%					
HUMAN SOFT HOLDING	-0.1%	-3.3%					
BANGKOK CHAIN HOSP. FB	0.0%	-4.6%					

Equity Sector Attribution													
			Attribution Effects		R	Ending Sector Weights							
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark					
Energy	0.0%	0.0%	0.0%	0.0%	2.5%	5.3%	1.2%	2.3%					
Materials	-1.2%	-0.7%	-0.1%	-0.3%	7.0%	16.4%	10.7%	11.1%					
Industrials	1.2%	1.0%	-0.1%	0.3%	12.6%	5.7%	17.8%	14.0%					
Consumer Discretionary	-0.3%	-0.1%	0.0%	-0.2%	4.8%	7.1%	13.2%	14.1%					
Consumer Staples	-0.4%	-0.2%	-0.1%	-0.1%	4.6%	8.2%	13.5%	6.0%					
Health Care	-1.0%	-0.7%	0.4%	-0.7%	5.0%	15.4%	13.8%	9.0%					
Financials	0.5%	1.2%	0.2%	-0.9%	21.5%	6.1%	3.8%	9.6%					
Information Technology	-0.5%	0.5%	-0.3%	-0.6%	16.3%	14.0%	9.8%	16.1%					
Communication Services	0.6%	0.6%	0.0%	0.0%	18.1%	4.5%	4.1%	3.8%					
Utilities	-0.6%	-0.8%	0.0%	0.2%	-1.7%	11.7%	2.9%	5.0%					
Real Estate	0.4%	0.4%	0.1%	-0.1%	10.3%	5.1%	6.5%	8.2%					
Cash	-0.3%	0.0%	-0.3%	0.0%	0.4%	-	1.8%	0.0%					
Portfolio	-1.4%	= 1.2%	+ -0.3%	+ -2.3%	8.2%	9.7%	99.2%	99.2%					

*Attribution on manager pages is holdings based, using buy-and-hold assumptions from the beginning of period portfolio. Results may differ from actual performance. Returns are gross of fees.



Sector Allocation

	Fund	MSCI EM SC
Communication Services	4.0	3.9
Consumer Discretionary	13.0	14.3
Consumer Staples	13.3	6.0
Energy	1.2	2.3
Financials	4.5	9.6
Health Care	15.3	9.0
Industrials	17.5	14.0
Information Technology	9.6	16.2
Materials	10.6	11.1
Real Estate	6.4	8.5
Utilities	2.8	5.1
Cash	1.8	-
TOTAL	100.0	100.0

Country Allocation

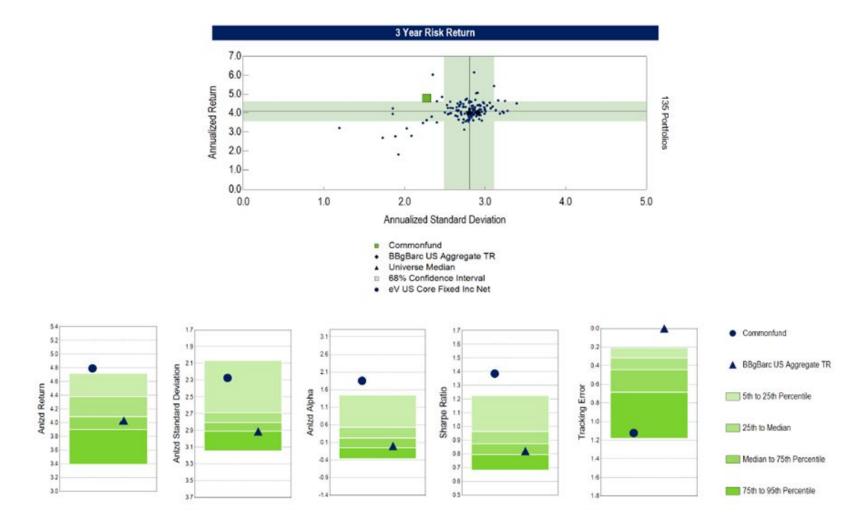
	Fund	MSCI EM SC
Latin America	9.6	15.4
Brazil Mexico Peru	4.4 3.2 2.0	10.5 2.8
Europe, Middle East & Africa	13.0	14.0
Czech Republic Estonia Kuwait Poland Saudi Arabia Slovenia South Africa UAE United Kingdom	1.6 1.2 1.6 2.3 2.8 0.8 0.8 0.8 1.0 0.9	0.1 1.1 2.5 4.9 0.6
Asia	75.6	70.6
North Asia	34.7	46.5
China/Hong Kong South Korea Taiwan	18.9 6.2 9.6	10.6 15.5 20.4
South Asia	40.9	23.6
India Indonesia Malaysia Philippines Thailand	28.6 3.9 3.1 2.7 2.6	13.2 2.1 3.3 1.0 4.0
Cash	1.8	-
TOTAL	100.0	100.0





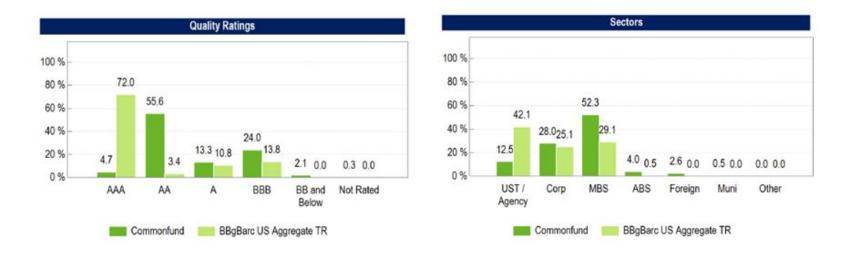
Commonfund A BBgBarc US Aggregate TR











Multi-Strategy Bond Fund: Investment Managers

Investment Managers	Core	Credit	Opportunistic
Bain Capital Specialty Fin.		х	
Brandywine Asset Management			x
Cerberus Capital Management		Х	
Credit Partnerships CF 2018		Х	
Direct Trading (Tsy Fut)			х
Distressed Debt Partnerships		x	
Income Research & Management (IRM)	x		
PIMCO Income Fund (PIMIX)			х
Rimrock Capital Management	х		
Western Asset	x		х



Source: Commonfund

VANGUARD INFLATION PROTECTED SECURITIES





Top Holdings

	Detail Holding Type	Portfolio Weighting %
Vanguard Market Liquidity Inv	MUTUAL FUND - MONEY MARKET	3.76
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	3.56
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	3.51
United States Treasury Notes 0.38%	BOND - GOV'T INFLATION PROTECTED	3.48
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	3.47
United States Treasury Notes 0.25%	BOND - GOV'T INFLATION PROTECTED	3.46
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	3.43
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	3.38
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	3.32
United States Treasury Notes 0.38%	BOND - GOV'T INFLATION PROTECTED	3.28

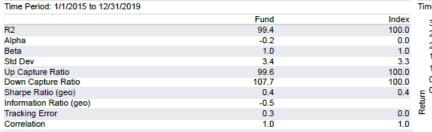


Source: Morningstar

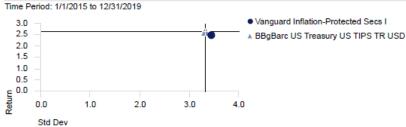
Historical Sector Allocations (10 Years)

VANGUARD INFLATION PROTECTED SECURITIES

Risk & Return Characteristics (5 Years)



Risk & Return Illustration (5 Years)



Rolling Returns (3 Years)







D —Vanguard Inflation-Protected Secs I

-BBgBarc US Treasury US TIPS TR USD

Calendar Year Returns																				
	2010	Rank	2011	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank
Vanguard Inflation-Protected Secs I	6.3	28	13.4	6	6.9	24	-8.8	52	4.1	5	-1.7	31	4.6	39	3.0	34	-1.4	48	8.2	43
BBgBarc US Treasury US TIPS TR USD	6.3		13.6		7.0		-8.6		3.6		-1.4		4.7		3.0		-1.3		8.4	



Source: Morningstar

December 31, 2019

VANGUARD SHORT-TERM TIPS





Top Holdings

	Detail Holding Type	Portfolio Weighting %
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	8.38
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	7.26
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	7.08
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	7.05
United States Treasury Notes 0.38%	BOND - GOV'T INFLATION PROTECTED	7.04
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	6.99
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	6.94
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	6.93
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	6.76
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	6.71

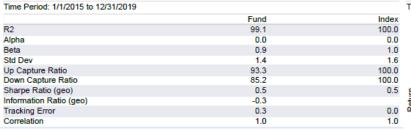
Historical Sector Allocations (10 Years)

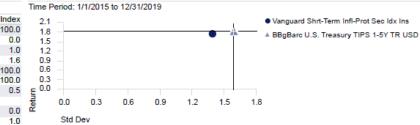
December 31, 2019

VANGUARD SHORT-TERM TIPS

Risk & Return Characteristics (5 Years)

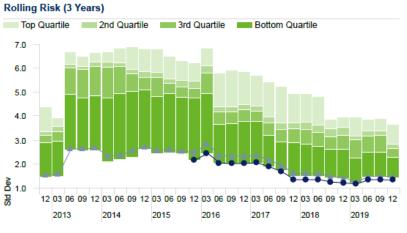
Risk & Return Illustration (5 Years)





Rolling Returns (3 Years)





-Vanguard Shrt-Term Infl-Prot Sec Idx Ins

BBgBarc U.S. Treasury TIPS 1-5Y TR USD

-Vanguard Shrt-Term Infl-Prot Sec Idx Ins -BBgBa

-BBgBarc U.S. Treasury TIPS 1-5Y TR USD

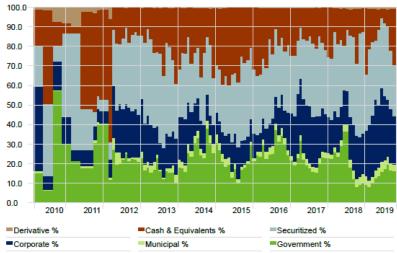
Calendar Year Returns

	2010	Rank	2011	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank
Vanguard Shrt-Term Infl-Prot Sec Idx Ins							-1.5	5	-1.1	88	-0.2	2	2.8	91	0.8	85	0.6	1	4.8	93
BBgBarc U.S. Treasury TIPS 1-5Y TR USD	3.9		4.9		2.7		-2.0		-1.1		-0.1		3.1		0.8		0.4		5.1	



BLACKROCK STRATEGIC INCOME





Top Holdings

	Detail Holding Type	Portfolio Weighting %
United States Treasury Notes 0.5%	BOND - GOV'T INFLATION PROTECTED	1.47
BlackRock Liquidity T-Fund Instl	MUTUAL FUND - MONEY MARKET	0.99
France (Republic Of) 1.5%	BOND - GOV'T/TREASURY	0.93
Japan (Government Of) 0.1%	BOND - GOV'T INFLATION PROTECTED	0.60
Federal National Mortgage Association 4%	BOND - GOV'T AGENCY PASS-THRU	0.54
China (People's Republic Of) 3.29%	BOND - GOV'T/TREASURY	0.54
Wells Fargo & Company 3.75%	В	0.52
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	0.51
Federal National Mortgage Association 4%	BOND - GOV'T AGENCY PASS-THRU	0.48
China (People's Republic Of) 3.19%	BOND - GOV'T/TREASURY	0.48

Source: Morningstar

Historical Sector Allocations (10 Years)

BLACKROCK STRATEGIC INCOME

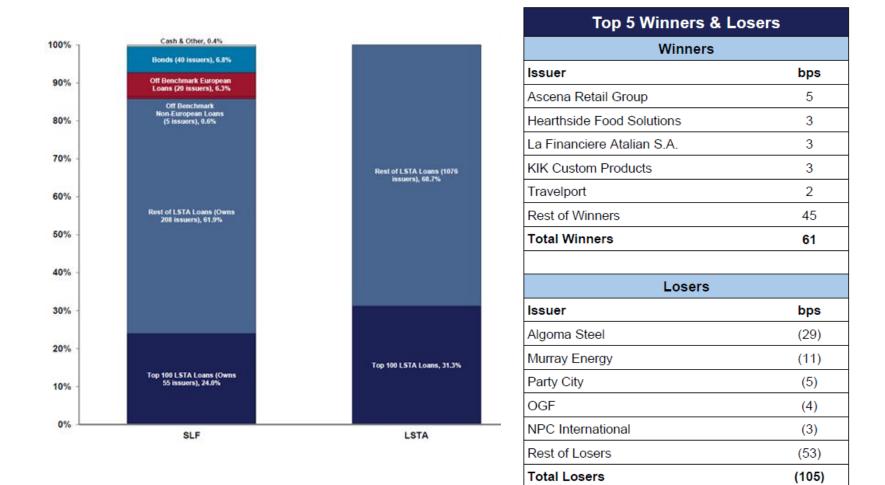


	2010	Rank	2011	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank
BlackRock Strategic Income Opps K	13.4		-0.7		9.9		3.3		3.9		-0.3		3.7		5.0	37	-0.5	46	7.8	36
BBgBarc US Agg Bond TR USD	6.5		7.8		4.2		-2.0		6.0		0.5		2.6		3.5		0.0		8.7	



Source: Morningstar

BAIN CAPITAL SENIOR LOAN FUND





Source: Bain Capital

December 31, 2019

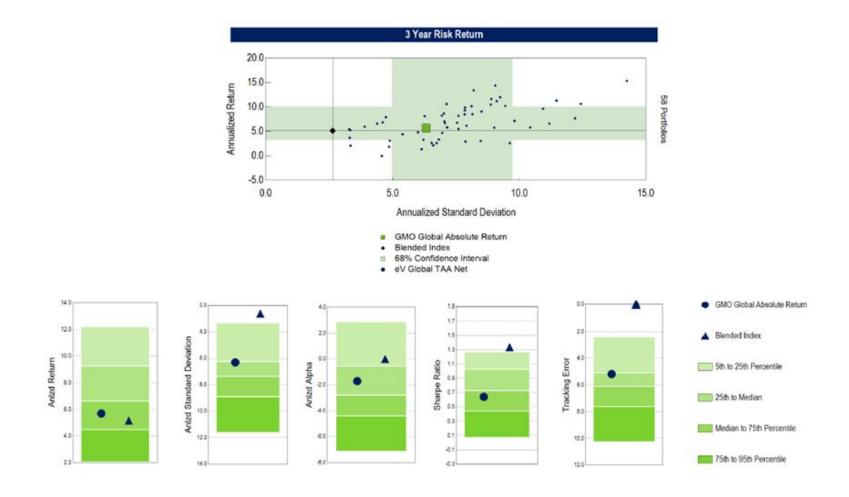
3.2

GMO GLOBAL ABSOLUTE RETURN





GMO GLOBAL ABSOLUTE RETURN





Strategy Composition

GMO GLOBAL ABSOLUTE RETURN

ALLOCATIONS Developed ex-U.S. 12.3% Equities 44% Emerging Markets 26.3% ACWI ex-U.S. Equity Extension 5.0% Put Selling 2.7% Alternative Special Opportunities 2.6% Strategies Systematic Global Macro 3.6% 13% U.S. Small Value vs. S&P 500 4.6% ABS/Structured Products 5.3% Emerging Debt 3.8% Fixed Income 20% U.S. TIPS 10.8% Cash & Equivalents 2.9% Short-Term Structured 0.5% Cash/Cash Plus Multi-Strategy 19.8% 23%

Source: GMO

PA -

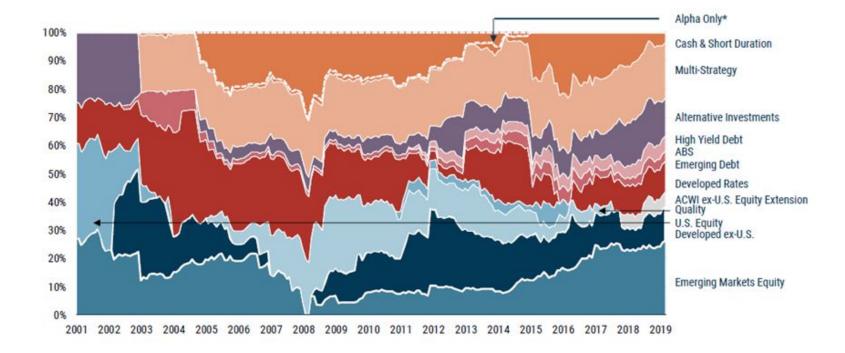
UPDATE



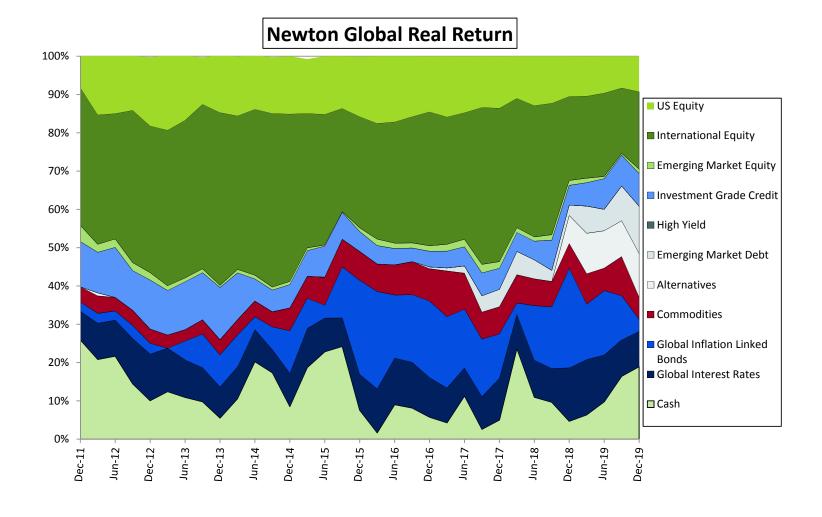
GMO GLOBAL ABSOLUTE RETURN

Source: GMO





NEWTON GLOBAL REAL RETURN





LIGHTHOUSE GLOBAL LONG/SHORT

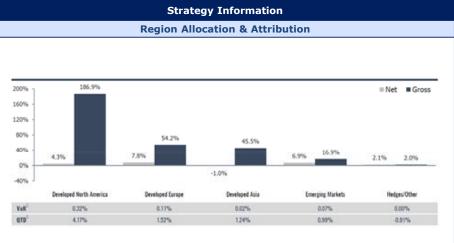
	General Fund Information									
Fund Name	Lighthouse Global Long	Lighthouse Global Long/Short Fund								
Manageme nt Company	Lighthouse Investment Partners, LLC									
Location	Palm Beach, FL									
Firm AUM	\$13.3 billion	Strategy	Fund of Fund							
Fund AUM	\$1.1 billion	\$1.1 billion Sub- Strategy Long/Short Equ								
Portfolio Managers	Ethan Baron Direct or FOF FOF FOF									

	Terms
Share Class	
Minimum Investment	\$1 million
Management Fee	1.15%
Incentive Fee	
Hurdle Rate	None
High Water Mark	Yes
Subscription	Monthly
Redemption	Quarterly (60 days notice) or Monthly (90 days notice)
Lock-Up	None

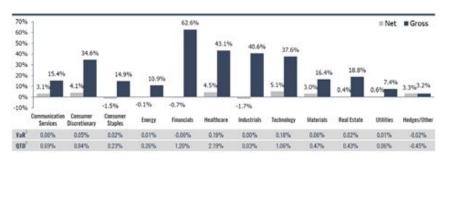
Investment Strategy

Lighthouse's Global Long/Short Fund is a global portfolio of 20-30 separately managed accounts with industry sector and country specialist managers. The geographical allocations are similar to the MSCI World Index (30%-75% Americas, 10%-35% Europe, 5%-35% Asia).

The Fund targets returns greater than 10% over market cycles with 6%-8% volatility and an equity beta of 0.2-0.4 to the MSCI World Index.



Sector Allocation & Attribution

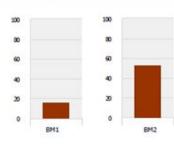


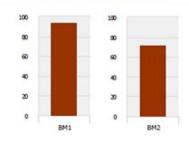


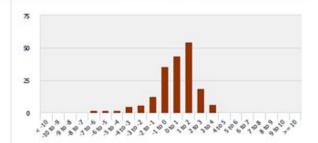
For more information please see NEPC's Investment Due Diligence Report and Operational Due Diligence Report

LIGHTHOUSE GLOBAL LONG/SHORT

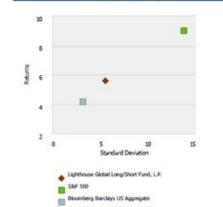
onthly F	Performa	ince												Performance Analysis			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year		Lighthouse	58P 500	Bloomberg
2019 2018	35 24	0.8 -0.3	0.3 -0.5	1.7	-0.7	12	1.0 0.3	-0.8 -0.6	-2.3	14 -5.1	22	3.4 -1.8	12.0 -5.8		Global Long/Short Fund, L.P.		Barclays US Aggregate
2017	1.6	0.3	1.1	-0.5	-0.3	0.0	0.7	1.0	0.1	2.2	-0.6	1.5	6.7	Since Inception Return	5.6	9.0	42
2016	-3.6	-0.7	-0.4	0.6	1.0	0.3	1.7	-0.2	1.0	-0.9	1.2	0.3	0.0	1 Yr Return	12.0	31.5	8.7
2015	1.0	1.0	1.6	-0.5	1.1	0.2	0.4	-0.8	-1.0	2.2	0.0	1.7	72	3 Yr Return	40	15.3	4.0
2014	0.9	1.8	-1.7	-2.0	1.2	1.9	-0.5	17	-0.1	0.3	1.2	0.6	53	5 Yr Return	3.8	11.7	3.0
2013	32	0.5	2.7	15	1.0	1.0	2.2	-0.3	2.2	1.2	1.1	2.4	20.5	7 Yr Return	63	14.7	27
2012	1.7	1.7	1.6	1.2	-3.7	0.5	0.2	1.1	1.3	-0.1	0.8	0.4	6.7				37
2011	-0.2	1.2	0.7	2.1	-1.1	-1.5	0.6	-3.1	-0.6	1.7	-1.0	-0.6	-1.9	10 Yr Return	53	13.6	
2010	0.0	0.3	1.9	0.6	-2.4	-1.7	1.7	-0.6	1.3	1.8	0.2	2.1	51	Best Month	3.5	10.9	3.7
2009	0.3	-0.5	1.1	13	23	0.7	1.6	1.4	1.5	-0.9	0.3	0.9	10.2	Worst Month	-6.4	-16.8	-2.4
2008	-3.2	1.2	47	1.5	2.8	-0.5	-1.4	-0.3	-6.4	-2.0	-0.6	0.0	-13.1	Percent Profitable Periods	672	68.9	65.0
2007	2.7	0.4	1.5	2.6	3.2	13	-0.2	-2.3	1.8	33	-2.4	0.2	12.6	Product Inception Date	01/01/2005	***	
	Out	perform	BH in Up	Market	ts i			Out	perform	BM in D	own Mar	kets			Distribution of Return	15	







Risk/Return Profile





Underwater Drawdown

Risk Analysis			
Since Inception Standard Deviation	5.6	13.8	32
3 Yr Standard Devlation	5.9	12.1	2.9
5 Yr Standard Deviation	5.2	12.0	3.1
7 Yr Standard Deviation	51	11.1	3.0
10 Yr Standard Deviation	51	12.5	2.9
Sharpe Ratio	0.8	0.6	0.9
Sortino Rutio	1.1	0.5	1.6
Loss Deviation	3.9	9.6	1.8
Max Drawdown	15.2	50.9	3.8
Max Drawdown Length	36	15	3.8 7
Max Drawdown Recovery Length	25	37	2

Comparison to Benchmarks		
Annualized Alpha	33	63
Beta	0.2	-0.1
Correlation Coefficient	0.6	-0.1
R-Squared	0.4	0.0

LANDMARK EQUITY PARTNERS XV

	General Fund	I Information						
Fund Name	Landmark Equity Partners XV							
General Partner	Landmark Partners							
Main Address	10 Mill Pond Lane, Simsb	ury, CT 06070						
Target Fund Size	\$2.5B Expected Final Close Up to 15 months a Initial Closing							
Capital Raised	\$3.25B	Closes to Date Yes						
Investment Period	3-4 years	Minimum Investment \$10M (negotiable						
Term of Entity	10 years from initial close, subject to 2 one-year extensions at GP's discretion	Investment Structure	Delaware L.P.					
Key Persons	There are 6 members of the Key Person clause	Fund Auditor	PWC					
Size of Fund Team	78 professionals (includes investment and administrative)	Number of Past Funds	28 (across all strategies)					

	GP Fees, Promote and Commitment
Preferred Return	• 8% per annum
GP Fees	Years 1 - 4: 1.00% of LP's capital commitments Years 5 - 8: 1.00% of the aggregate amount of LP's capital contributions plus amounts subject to call for Fund obligations Years 8 - remaining life of fund: 1.00% of LP's investment percentage of the reported value of Fund XV's portfolio investments
GP Commitment	1% of aggregate commitments
Carried Interest	10% on secondary investments only

	Fund S	trategy								
 Landmark XV's primary objective is to acquire interests in private equity investments through secondary transactions. Landmark will build a diversified portfolio of private equity partnership interests diversified by strategy, geography and vintage year. Landmark strives to execute transactions on a negotiated basis and acquire portfolios of interests in private equity funds and direct investments through secondary market transactions that are unique, may require structuring, and where the opportunity for value creation exists. 										
Target Net Returns	Landmark aims to return a 1.6x-1.8x net multiple and a 15%- 20% net IRR									
Investment Style	Secondary	Target Fund	May use up to 10% leverage on							
		Leverage	aggregate commitment amount							
Target Asset Types	Secondary investments in limited partnership interests	Target Geographies	Global (primary focus North America and Europe)							
		Target Deal Size	No stated minimums or maximums							
Fur	d Sourcing and Asset	Management (Capabilities							
 Fund Sourcing and Asset Management Capabilities Reactive deal flow is attributed to inbound leads from limited partners, general partners and intermediaries - generally in the form of an auction. Firm will only consider participating in a competitive process if it believes it has an edge on its competitors with regard to familiarity of a portfolio and/or believes the assets are mispriced. Utilizes its proprietary database, quantitative research, and portfolio management tools to proactively engage with potential sellers with the ultimate goal of sourcing investments on an exclusive basis. Believes that deal exclusivity hinges on talking to LPs who do not yet realize that they are potential sellers. Two-thirds of their non-auctioned deal flow is due to their research tool projects 										
Value Add	 auctioned deal flow is due to their research tool projects undertaken with potential sellers. Focus on sourcing exclusive transactions should on average produce pricing that is lower than the prices available in the auction channel. Strives to arrange preferred structures to protect downside while preserving commensurate upside participation. Proactive sourcing model allows the investment team more time and better access to data to conduct due diligence. 									

APPENDIX

NEPC, LLC

GLOSSARY OF TERMS

Alpha - Measures the relationship between the fund performance and the performance of another fund or benchmark index and equals the excess return while the other fund or benchmark index is zero.

Alpha Jensen - The average return on a portfolio over and above that predicted by the capital asset pricing model (CAPM), given the portfolio's beta and the average market return. Also known as the abnormal return or the risk adjusted excess return.

Annualized Excess Return over Benchmark - Annualized fund return minus the annualized benchmark return for the calculated return.

Annualized Return - A statistical technique whereby returns covering periods greater than one year are converted to cover a 12 month time span.

Beta - Measures the volatility or systematic risk and is equal to the change in the fund's performance in relation to the change in the assigned index's performance.

Information Ratio - A measure of the risk adjusted return of a financial security, asset, or portfolio.

Formula:

(Annualized Return of Portfolio - Annualized Return of Benchmark)/Annualized Standard Deviation(Period Portfolio Return – Period Benchmark Return). To annualize standard deviation, multiply the deviation by the square root of the number of periods per year where monthly returns per year equals 12 and quarterly returns is four periods per year.

R-Squared – Represents the percentage of a fund's movements that can be explained by movements in an index. R-Squared values range from 0 to 100. An R-Squared of 100 denotes that all movements of a fund are completely explained by movements in the index.

Sharpe Ratio - A measure of the excess return or risk premium per unit of risk in an investment asset or trading strategy.

Sortino Ratio - A method to differentiate between good and bad volatility in the Sharpe Ratio. The differentiation of up and down volatility allows the calculation to provide a risk adjusted measure of a security or fund's performance without upward price change penalties.

Formula:

Calculation Average (X-Y)/Downside Deviation (X-Y) * 2 Where X=Return Series X Y = Return Series Y which is the risk free return (91 day T-bills) Standard Deviation - The standard deviation is a statistical term that describes the distribution of results. It is a commonly used measure of volatility of returns of a portfolio, asset class, or security. The higher the standard deviation the more volatile the returns are.

Formula:

(Annualized Return of Portfolio – Annualized Return of Risk Free) / Annualized Standard Deviation (Portfolio Returns)

Tracking Error - Tracking error, also known as residual risk, is a measure of the degree to which a portfolio tracks its benchmark. It is also a measure of consistency of excess returns. Tracking error is computed as the annualized standard deviation of the difference between a portfolio's return and that of its benchmark.

Formula:

Tracking Error = Standard Deviation $(X-Y) * \sqrt{(\# of periods per year)}$ Where X = periods portfolio return and Y = the period's benchmark return For monthly returns, the periods per year = 12 For quarterly returns, the periods per year = 4

Treynor Ratio - A risk-adjusted measure of return based on systematic risk. Similar to the Sharpe ratio with the difference being the Treynor ratio uses beta as the measurement of volatility.

Formula:

(Portfolio Average Return - Average Return of Risk-Free Rate)/Portfolio Beta

Up/Down Capture Ratio - A measure of what percentage of a market's returns is "captured" by a portfolio. For example, if the market declines 10% over some period, and the manager declines only 9%, then his or her capture ratio is 90%. In down markets, it is advantageous for a manager to have as low a capture ratio as possible. For up markets, the higher the capture ratio the better. Looking at capture ratios can provide insight into how a manager achieves excess returns. A value manager might typically have a lower capture ratio in both up and down markets, achieving excess returns by protecting on the downside, whereas a growth manager might fall more than the overall market in down markets, but achieve above-market returns in a rising market.

 $\label{eq:upsideCapture} UpsideCapture = TotalReturn(FundReturns)/TotalReturns(BMReturn) \ when \ Period Benchmark \ Return \ is \ > = 0$

DownsideCapture = TotalReturn(FundReturns)/TotalReturns(BMReturn) when Benchmark <0

Data Source: InvestorForce

INFORMATION DISCLAIMER AND REPORTING METHODOLOGY

Information Disclaimer

- Past performance is no guarantee of future results.
- All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.
- Some index returns displayed in this report or used in calculation of a policy, allocation or custom benchmark may not be available from the source or may be preliminary and subject to change.
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Reporting Methodology

- The client's custodian bank is NEPC's preferred data source unless otherwise directed. NEPC reconciles custodian data to manager data. If the custodian cannot provide accurate data, manager data may be used.
- Trailing time period returns are determined by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of Return are annualized when the time period is longer than a year. Performance is presented gross and/or net of manager fees as indicated on each page.
- For managers funded in the middle of a month, the "since inception" return will start with the first full month, although actual inception dates and cash flows are taken into account in all Composite calculations.
- This report may contain forward-looking statements that are based on NEPC's estimates, opinions and beliefs, but NEPC cannot guarantee that any plan will achieve its targeted return or meet other goals.

FOURTH QUARTER 2019 SUPPLEMENTAL PERFORMANCE

UNIVERSITY OF MAINE SYSTEM PENSION PLAN

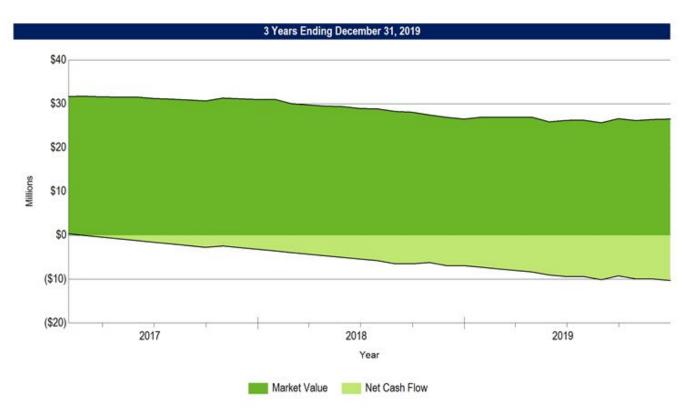
February 27, 2020

Jay E. Roney, Partner Kelly Regan, Senior Consultant



BOSTON | ATLANTA | CHARLOTTE | CHICAGO | DETROIT | LAS VEGAS | PORTLAND | SAN FRANCISCO

ASSET GROWTH SUMMARY



	Quarter-To-Date	Fiscal Year-To-Date	One Year	Three Years
Beginning Market Value	\$26,610,506	\$26,231,215	\$26,520,627	\$31,010,184
Net Cash Flow	-\$1,057,917	-\$898,171	-\$3,381,071	-\$10,316,805
Net Investment Change	\$969,338	\$1,188,883	\$3,382,371	\$5,828,548
Ending Market Value	\$26,521,927	\$26,521,927	\$26,521,927	\$26,521,927



CASH FLOW SUMMARY

	Quarter Ending December 31, 2019								
	Beginning Market Value	Contributions	Withdrawals	Net Cash Flow	Net Investment Change	Ending Market Value			
Bain Capital Senior Loan Fund	\$1,341,252	\$0	-\$1,686	-\$1,686	\$18,022	\$1,357,588			
BlackRock Strategic Income Opportunities	\$1,180,014	\$0	-\$1,577	-\$1,577	\$20,633	\$1,199,069			
Distribution Account	\$956,439	\$156,939	-\$1,035,228	-\$878,289	\$1,255	\$79,405			
Lighthouse	\$1,201,323	\$0	\$0	\$0	\$87,561	\$1,288,884			
Mondrian EM Small Cap	\$1,056,811	\$0	-\$5,147	-\$5,147	\$92,173	\$1,143,837			
Newton Global Real Return	\$1,907,513	\$0	-\$3,851	-\$3,851	\$42,051	\$1,945,713			
Principal	\$2,100,680	\$0	\$0	\$0	\$26,264	\$2,126,944			
Vanguard Inflation-Protected Securities	\$937,555	\$0	-\$164	-\$164	\$5,006	\$942,397			
Vanguard Short-Term Inflation-Protected Securities - VTSPX	\$912,335	\$0	-\$92	-\$92	\$9,629	\$921,872			
Vanguard Total Bond Market Index	\$7,147,056	\$0	-\$1,252	-\$1,252	\$3,520	\$7,149,324			
Walter Scott Global Equity Fund	\$7,869,528	\$0	-\$165,858	-\$165,858	\$663,223	\$8,366,893			
Total	\$26,610,506	\$156,939	-\$1,214,856	-\$1,057,917	\$969,338	\$26,521,927			



3.3

ASSET ALLOCATION

Current

31.5%

27.0%

5.1%

7.0%

7.3%

4.9%

Policy	
3.0%	F .
30.0%	
26.0%	
5.0%	
7.0%	
8.0%	
5.0%	
5.0%	
8.0%	
3.0%	

Asset Allocation vs. Target												
	Current	Policy	Current D	oifference	Policy Range	Within Range						
Emerging Markets Equity	\$1,143,837	3.0%	4.3%	1.3%	0.0% - 7.0%	Yes						
Global Equity	\$8,366,893	30.0%	31.5%	1.5%	25.0% - 35.0%	Yes						
Core Bonds	\$7,149,324	26.0%	27.0%	1.0%	20.0% - 30.0%	Yes						
Bank Loans	\$1,357,588	5.0%	5.1%	0.1%	0.0% - 10.0%	Yes						
TIPS	\$1,864,269	7.0%	7.0%	0.0%	0.0% - 14.0%	Yes						
Global Asset Allocation	\$1,945,713	8.0%	7.3%	-0.7%	5.0% - 13.0%	Yes						
Hedge Funds	\$1,288,884	5.0%	4.9%	-0.1%	0.0% - 10.0%	Yes						
Absolute Return	\$1,199,069	5.0%	4.5%	-0.5%	0.0% - 10.0%	Yes						
Real Estate	\$2,126,944	8.0%	8.0%	0.0%	0.0% - 10.0%	Yes						
Cash	\$79,405	3.0%	0.3%	-2.7%	0.0% - 10.0%	Yes						
Total	\$26,521,927	100.0%	100.0%									

Note: Emerging market equity policy targets and ranges include emerging market small cap equity. TIPS policy targets and ranges include short-term TIPS.



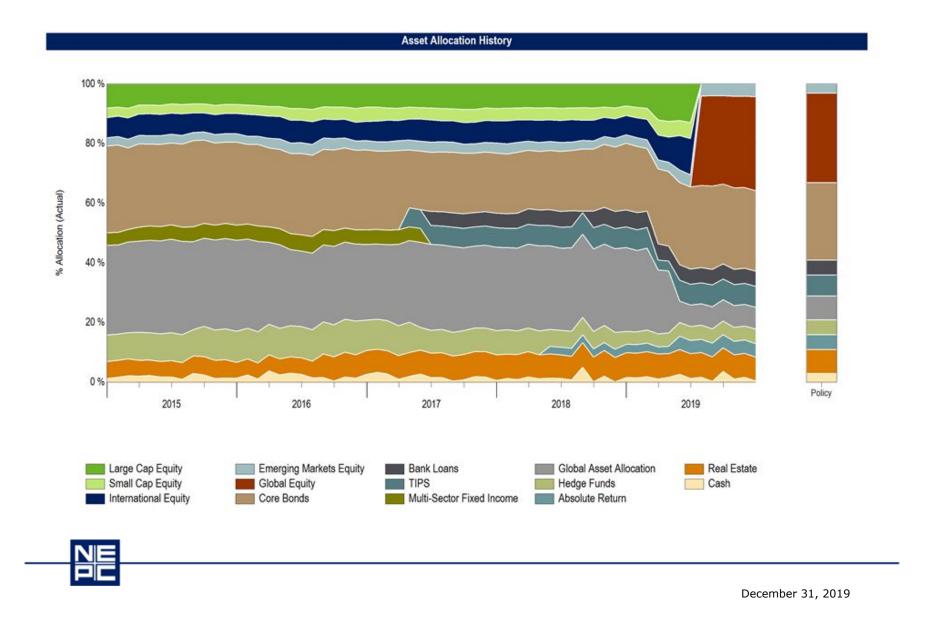
3.3

ASSET ALLOCATION

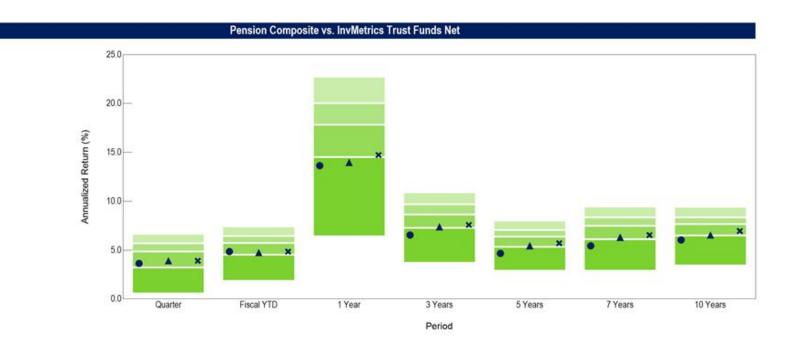
Policy	Current	Look Through	Asset /	Allocation		
				Policy	Current	Look Through
3.0%	4.3%		Large Cap Equity			0.7% 31.1%
			Emerging Markets Equity	3.0%	4.3%	5.7%
			Global Equity	30.0%	31.5%	
30.0%		31.1%	Core Bonds	26.0%	27.0%	27.6%
30.0%	31.5%		Bank Loans	5.0%	5.1%	5.1%
			TIPS	7.0%	7.0%	7.0%
			Fixed Income - Emerging			0.9%
			Global Bonds			0.9%
		5.7%	Global Asset Allocation	8.0%	7.3%	
		5.776	Hedge Funds	5.0%	4.9%	5.7%
			Absolute Return	5.0%	4.5%	4.5%
			Real Estate	8.0%	8.0%	8.0%
26.0%			Real Assets			0.4%
	27.0%	27.6%	Cash	3.0%	0.3%	2.3%
			Total	100.0%	100.0%	100.0%
5.0% 7.0%	5.1%	5.1%	Net Asset Allocation breaks out the exposure of GAA and (Global Equity managers.		
8.0%		7.0%	Asset class weights may not add up to 100% due to round	ding.		
2003/18.	7.3%	0.9%	The 60% MSCI ACWI/40% CITI WGBI Index is broken dow	wn into the following categori	es: 33.4% Dom	estic Equities,
5.0%		5.7%	19.3% Int'l Equities, 7.3% Emerging Equities, 15.6% US	Treasury Bonds, 12.3% Euro		
5.000	4.9%		Japanese Debt, 2.1% United Kingdom Bonds and 2.6% De	eveloping Markets Bonds.		
5.0%	4.5%	4.5%	Emerging Markets Equity bucket includes Emerging Marke	ets Small Cap.		
8.0% 3.0%	8.0%	8.0% 0.4% 2.3%	TIPS bucket includes: TIPS and Short Term TIPS.			



ASSET ALLOCATION HISTORY

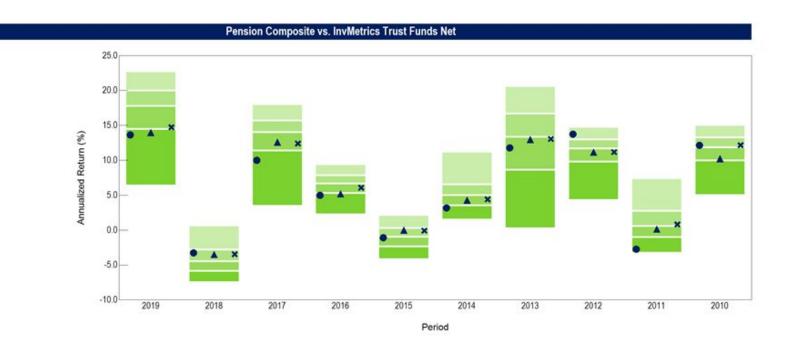


RETURNS VS. PEER UNIVERSE



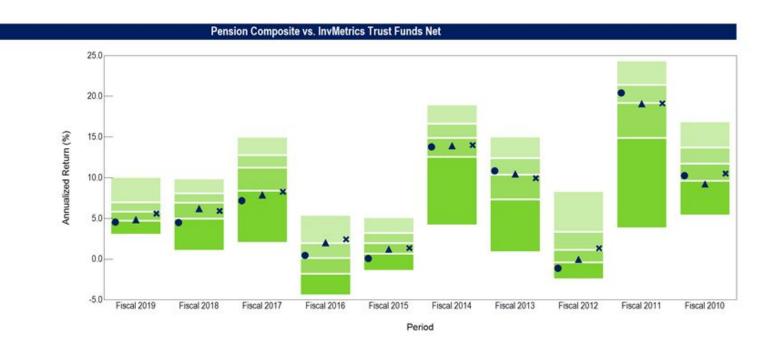
	Return (Rank)													
5th Percentile	6.7		7.4		22.7		10.9		8.0		9.4		9.4	
25th Percentile	5.7		6.4		20.0		9.7		7.1		8.4		8.4	
Median	4.9		5.7		17.8		8.7		6.4		7.5		7.7	
75th Percentile	3.2		4.6		14.5		7.3		5.4		6.1		6.5	
95th Percentile	0.6		1.9		6.4		3.7		2.9		2.9		3.4	
# of Portfolios	2,899		2,888		2,853		2,674		2,429		2,178		1,863	
Pension Composite	3.6	(72)	4.8	(71)	13.6	(79)	6.5	(83)	4.7	(85)	5.4	(82)	6.0	(81)
 Allocation Index 	3.9	(69)	4.7	(72)	14.0	(78)	7.4	(74)	5.4	(74)	6.3	(73)	6.5	(75)
× Policy Index	3.9	(69)	4.8	(71)	14.7	(75)	7.6	(72)	5.7	(69)	6.5	(70)	6.9	(69)

RETURNS VS. PEER UNIVERSE



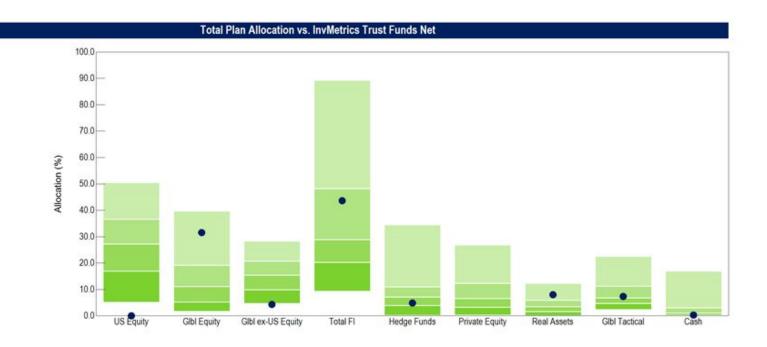
	Return (R	ank)																	
5th Percentile	22.7	0.	7	18.0		9.4		2.1		11.2		20.6		14.8		7.4		15.1	
25th Percentile	20.0	-2	В	15.7		7.9		0.3		6.6		16.7		13.0		2.8		13.3	
Median	17.8	-4.	4	14.1		6.7		-0.9		5.0		13.4		11.7		0.6		11.9	
75th Percentile	14.5	-5.	В	11.4		5.3		-2.3		3.6		8.7		9.8		-1.0		10.0	
95th Percentile	6.4	-7.	5	3.5		2.3		-4.2		1.5		0.3		4.3		-3.2		5.0	
# of Portfolios	2,853	3,62	7	2,518		2,446		2,339		2,007		1,709		1,539		1,403		1,326	
Pension Composite	13.6	(79) -3.	3 (32)	10.0	(80)	5.0	(80)	-1.1	(54)	3.2	(82)	11.8	(60)	13.7	(14)	-2.7	(92)	12.1	(47)
 Allocation Index 	14.0	(78) -3.	5 (35)	12.6	(67)	5.2	(77)	0.0	(32)	4.3	(64)	13.0	(53)	11.2	(60)	0.1	(57)	10.2	(73)
× Policy Index	14.7	(75) -3.	5 (34)	12.4	(69)	6.1	(64)	-0.1	(34)	4.4	(62)	13.1	(52)	11.2	(60)	0.8	(47)	12.2	(47)

RETURNS VS. PEER UNIVERSE



	Return (R	ank)																	
5th Percentile	10.1	9	.9	15.0		5.4		5.1		19.0		15.0		8.4		24.4		16.9	
25th Percentile	7.0	8	.1	12.8		2.0		3.3		16.6		12.4		3.4		21.4		13.7	
Median	5.9	7	.0	11.2		0.1		2.0		14.9		10.4		1.2		19.2		11.7	
75th Percentile	4.7	5	.0	8.4		-1.8		0.7		12.6		7.4		-0.4		14.9		9.6	
95th Percentile	3.0	1	.0	2.0		-4.4		-1.4		4.2		0.9		-2.4		3.8		5.4	
# of Portfolios	3,804	2,4	24	2,780		2,289		2,198		1,565		1,828		1,431		1,362		1,279	
Pension Composite	4.6	(79) 4	.5 (78)	7.2	(81)	0.5	(46)	0.1	(84)	13.8	(66)	10.8	(44)	-1.1	(86)	20.4	(36)	10.3	(70)
Allocation Index	4.9	(73) 6	.2 (63)	7.9	(78)	2.0	(25)	1.2	(67)	13.9	(65)	10.5	(49)	0.0	(70)	19.1	(51)	9.2	(78)
× Policy Index	5.6	(57) 5	.9 (67)	8.3	(76)	2.4	(21)	1.4	(64)	14.0	(64)	9.9	(55)	1.3	(48)	19.1	(51)	10.5	(67)

ALLOCATIONS VS. PEER UNIVERSE



	Allocation (Rank)															
5th Percentile	50.5		39.7		28.3		89.3		34.4		26.9	12.3		22.6		17.0	
25th Percentile	36.7		19.2		20.8		48.3		11.1		12.4	6.0		11.3		3.2	
Median	27.3		11.2		15.5		29.0		7.2		6.7	3.6		6.9		1.1	
75th Percentile	17.1		5.3		10.0		20.4		4.1		3.3	1.7		4.8		0.3	
95th Percentile	5.2		1.9		4.8		9.4		0.2		0.4	0.1		2.4		0.0	
# of Portfolios	1,388		581		1,608		2,143		739		759	357		342		1,874	
 Pension Composite 	0.0	(99)	31.5	(11)	4.3	(97)	43.6	(28)	4.9	(66)		 8.0	(18)	7.3	(47)	0.3	(76)

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TOTAL PLAN RISK/RETURN - 3 YEAR

20.0 15.0 Annualized Return 2674 Portfolios 10.0 5.0 0.0 0.0 10.0 15.0 5.0 20.0 Annualized Standard Deviation Pension Composite Allocation Index Universe Median 68% Confidence Interval InvMetrics Trust Funds Net

3 Years Ending December 31, 2019

*Returns are net of fees.

3 Years Ending December 31, 2019											
	Anlzd Ret	Rank	Anlzd Std Dev	Rank							
Pension Composite	6.5%	83	4.0%	18							
Allocation Index	7.4%	74	4.9%	23							
Policy Index	7.6%	72	4.9%	23							
InvMetrics Trust Funds Net Median	8.7%		6.5%								

3 Years Ending December 31, 2019										
	Sharpe Ratio	Rank	Sortino Ratio RF	Rank						
Pension Composite	1.2	31	1.3	31						
Allocation Index	1.2	35	1.2	43						
Policy Index	1.2	31	1.2	36						
InvMetrics Trust Funds Net Median	1.1		1.1							



TOTAL PLAN RISK/RETURN - 5 YEAR

15.0 10.0 Annualized Return 5.0 2429 Portfolios 0.0 -5.0 -10.0 0.0 5.0 10.0 15.0 20.0 Annualized Standard Deviation Pension Composite Allocation Index Universe Median 68% Confidence Interval

5 Years Ending December 31, 2019

InvMetrics Trust Funds Net

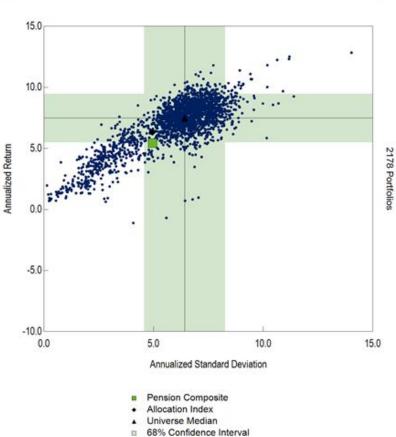
*Returns are net of fees.

PC

5 Years Ending December 31, 2019											
	Anlzd Ret	Rank	Anlzd Std Dev	Rank							
Pension Composite	4.7%	85	4.5%	19							
Allocation Index	5.4%	74	4.8%	20							
Policy Index	5.7%	69	4.9%	21							
InvMetrics Trust Funds Net Median	6.4%		6.7%								

5 Years Ending December 31, 2019										
	Sharpe Ratio	Rank	Sortino Ratio RF	Rank						
Pension Composite	0.8	56	1.1	34						
Allocation Index	0.9	30	1.2	32						
Policy Index	1.0	23	1.3	22						
InvMetrics Trust Funds Net Median	0.8		1.0							

TOTAL PLAN RISK/RETURN - 7 YEAR



7 Years Ending December 31, 2019

InvMetrics Trust Funds Net

*Returns are net of fees.

PC

7 Years Ending December 31, 2019											
	Anlzd Ret	Rank	Anlzd Std Dev	Rank							
Pension Composite	5.4%	82	5.0%	22							
Allocation Index	6.3%	73	5.0%	22							
Policy Index	6.5%	70	5.0%	22							
InvMetrics Trust Funds Net Median	7.5%		6.4%								

7 Years Ending December 31, 2019								
	Sharpe Ratio	Rank	Sortino Ratio RF	Rank				
Pension Composite	0.9	73	1.6	32				
Allocation Index	1.1	39	1.6	27				
Policy Index	1.2	31	1.7	18				
InvMetrics Trust Funds Net Median	1.1		1.4					

3.3

TOTAL PLAN RISK/RETURN - 10 YEAR

15.0 10.0 Annualized Return 1863 Portfolios 5.0 12 0.0 0.0 5.0 10.0 15.0 Annualized Standard Deviation Pension Composite Allocation Index Universe Median 68% Confidence Interval InvMetrics Trust Funds Net

10 Years Ending December 31, 2019

*Returns	are	net	of	fees.
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10 Years Ending December 31, 2019								
	Anlzd Ret	Rank	Anlzd Std Dev	Rank				
Pension Composite	6.0%	81	6.9%	40				
Allocation Index	6.5%	75	6.6%	34				
Policy Index	6.9%	69	6.4%	30				
InvMetrics Trust Funds Net Median	7.7%		7.3%					

10 Years Ending December 31, 2019							
	Sharpe Ratio	Rank	Sortino Ratio RF	Rank			
Pension Composite	0.8	88	1.1	87			
Allocation Index	0.9	68	1.3	67			
Policy Index	1.0	49	1.5	37			
InvMetrics Trust Funds Net Median	1.0		1.4				

TOTAL PLAN PERFORMANCE DETAIL

	Market Value	% of Portfolio	Policy %	3 Mo Fis		1 Yr	3 Yrs	5 Yrs	7 Yrs	10 Yrs
	(\$)			(%)	(%)	(%)	(%)	(%)	(%)	(%)
Pension Composite	26,521,927	100.0	100.0	3.6	4.8	13.6	6.5	4.7	5.4	6.0
Allocation Index				3.9	4.7	14.0	7.4	5.4	6.3	6.5
Policy Index				3.9	4.8	14.7	7.6	5.7	6.5	6.9
Total Global Equity	8,366,893	31.5	30.0	8.3						
MSCI World				8.6	9.1	27.7	12.6	8.7	10.6	9.5
Walter Scott Global Equity Fund	8,366,893	31.5	30.0	8.3						
MSCI World				8.6	9.1	27.7	12.6	8.7	10.6	9.5
Emerging Markets Equity	1,143,837	4.3	3.0	8.2	5.9	9.4	3.5	-0.7	-1.3	
MSCI Emerging Markets				11.8	7.1	18.4	11.6	5.6	3.3	3.7
Mondrian EM Small Cap	1,143,837	4.3	3.0	8.2	5.9	9.4	3.5	-0.7		
MSCI Emerging Markets Small Cap				9.5	4.5	11.5	6.7	3.0	2.4	2.9
Total Fixed Income	11,570,251	43.6	43.0	0.5	2.3	8.3	4.0	3.1	2.8	4.1
BBgBarc US Aggregate TR				0.2	2.5	8.7	4.0	3.0	2.7	3.7
Vanguard Total Bond Market Index	7,149,324	27.0	26.0	0.0	2.5	8.7	4.0	3.0		
BBgBarc US Aggregate TR				0.2	2.5	8.7	4.0	3.0	2.7	3.7
Vanguard Inflation-Protected Securities	942,397	3.6	3.5	0.5	2.0	8.2				
BBgBarc US TIPS TR				0.8	2.1	8.4	3.3	2.6	1.1	3.4
Vanguard Short-Term Inflation-Protected Securities - VTSPX	921,872	3.5	3.5	1.0	1.5					
BBgBarc US TIPS 1-5 Yr TR				1.2	1.4	5.1	2.1	1.8	0.9	1.7
BlackRock Strategic Income Opportunities	1,199,069	4.5	5.0	1.6	2.5	7.8				
3-Month Libor Total Return USD				0.5	1.0	2.4	2.0	1.4	1.1	0.9
Bain Capital Senior Loan Fund	1,357,588	5.1	5.0	1.2	1.9	7.7				
Credit Suisse Leveraged Loans				1.7	2.6	8.2	4.5	4.5	4.4	5.2
Total GAA	1,945,713	7.3	8.0	2.0	2.7	13.9	6.1	3.7	3.5	4.5
65% MSCI ACWI (Net) / 35% BBgBarc Global Agg				5.9	6.2	19.6	9.7	6.4	6.9	6.7
Newton Global Real Return	1,945,713	7.3	8.0	2.0	2.7	11.8	5.7			
60% MSCI ACWI (Net) / 40% FTSE WGBI	,, -			5.2	5.6	18.2	9.2	6.0	6.2	6.2
Total Alternative Investments	1,288,884	4.9	5.0	7.3	5.4	13.4	4.2	2.7	3.3	2.7
HFRI Fund of Funds Composite Index	- ,,			3.0	2.1	8.3	3.9	2.4	3.4	2.8
Lighthouse	1,288,884	4.9	5.0	7.3	5.4	13.4	5.5			
Credit Suisse Long Shrt Eqt USD	.,,			5.1	5.2	12.2	6.7	3.9	6.0	5.2
Total Real Assets	2,126,944	8.0	8.0							
Principal	2,126,944	8.0	8.0	1.3	2.9	5.8	7.2	8.8	10.0	11.3
NCREIF ODCE	_,,	2.10		1.5	2.8	5.3	7.1	9.0	10.2	11.4
Total Cash	79,405	0.3	3.0		2.0	0.0		0.0		
Distribution Account	79,405	0.3	3.0	0.3	0.8	1.9	1.3	0.8	0.6	0.4
91 Day T-Bills	, 0,+00	0.0	0.0	0.4	0.9	2.1	1.6	1.1	0.8	0.6

Fiscal YTD begins 7/1 Returns are net of manager fees.



December 31, 2019

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3.3

WALTER SCOTT GLOBAL EOUITY FUND PORTFOLIO

CHARACTERISTICS

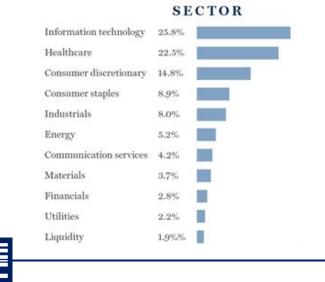
	Portfolio
Number of Securities	51
Operating Margin	18.4%
ROE	20.2%
Net Debt to Equity	24%
P/E Ratio	26.7x
Dividend Yield	1.6%
Active Share	86%
Portfolio Turnover (12 months)	3%

Source: Walter Scott, Factset & MSCI. Portfolio Characteristics are subject to change and are based on a Walter Scott Global Equity representative portfolio as at 31/12/19.

Net Debt to Equity figure(s) exclude securities from the financial sector.



Stock	% of portfolio
Keyence	2.9
AIA Group	2.8
Microsoft Corporation	2.8
Taiwan Semiconductor	2.8
Mastercard	2.8
Inditex	2.7
Novo Nordisk	2.5
Roche	2.5
EOG Resources	2.5
Adobe	2.4

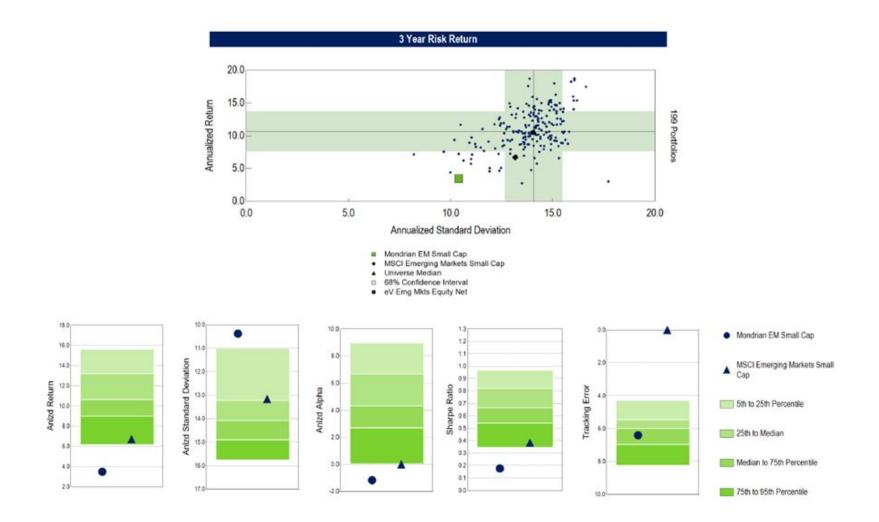












Characteristics		MSCI
	Portfolio	Emerging Markets Small Cap
Number of Holdings	105	1,652
Weighted Avg. Market Cap. (\$B)	1.5	1.3
Median Market Cap. (\$B)	1.1	0.7
Price To Earnings	19.1	13.5
Price To Book	3.2	2.3
Price To Sales	2.2	0.9
Return on Equity (%)	18.9	12.3
Yield (%)	2.4	2.8
Beta		1.0
R-Squared		1.0

Top Positive Contributors					
	Relative				
	Contribution %	Return %			
CLEAR MEDIA	0.7%	66.4%			
AIRTAC INTERNATIONAL GP.	0.5%	30.7%			
MONETA MONEY BANK	0.4%	27.1%			
DUZONBIZON	0.4%	28.1%			
WILSON SONS BDR (BSP)	0.4%	36.4%			
ASTER DM HEALTHCARE	0.4%	35.2%			
MICROPORT SCIENTIFIC	0.3%	30.8%			
PHOENIX MILLS	0.3%	18.5%			
QL RESOURCES	0.3%	15.4%			
TEGMA GESTAO LOGISTICA ON	0.3%	27.5%			

Top Negative Contributors							
	Relative						
	Contribution %	Return %					
MANILA WATER	-0.4%	-46.3%					
SARANA MEDITAMA MET.TBK	-0.3%	-46.7%					
ARWANA CITRAMULIA	-0.2%	-12.6%					
CCL PRODUCTS (INDIA)	-0.1%	-16.5%					
SINOSOFT TECHNOLOGY GP.	-0.1%	-10.6%					
SYMPHONY	-0.1%	-10.5%					
PACIFIC HOSPITAL SUPPLY	-0.1%	-10.9%					
FU SHOU YUAN INTL.GP.	-0.1%	-4.2%					
HUMAN SOFT HOLDING	-0.1%	-3.3%					
BANGKOK CHAIN HOSP. FB	0.0%	-4.6%					

			Equity Se	ector Attribution				
			Attribution Effects		Return	8	Ending Sector	Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	2.5%	5.3%	1.2%	2.3%
Materials	-1.2%	-0.7%	-0.1%	-0.3%	7.0%	16.4%	10.7%	11.1%
Industrials	1.2%	1.0%	-0.1%	0.3%	12.6%	5.7%	17.8%	14.0%
Consumer Discretionary	-0.3%	-0.1%	0.0%	-0.2%	4.8%	7.1%	13.2%	14.1%
Consumer Staples	-0.4%	-0.2%	-0.1%	-0.1%	4.6%	8.2%	13.5%	6.0%
Health Care	-1.0%	-0.7%	0.4%	-0.7%	5.0%	15.4%	13.8%	9.0%
Financials	0.5%	1.2%	0.2%	-0.9%	21.5%	6.1%	3.8%	9.6%
Information Technology	-0.5%	0.5%	-0.3%	-0.6%	16.3%	14.0%	9.8%	16.1%
Communication Services	0.6%	0.6%	0.0%	0.0%	18.1%	4.5%	4.1%	3.8%
Utilities	-0.6%	-0.8%	0.0%	0.2%	-1.7%	11.7%	2.9%	5.0%
Real Estate	0.4%	0.4%	0.1%	-0.1%	10.3%	5.1%	6.5%	8.2%
Cash	-0.3%	0.0%	-0.3%	0.0%	0.4%	-	1.8%	0.0%
Unclassified	0.2%	0.0%	0.0%	0.2%	27.0%	9.7%	0.8%	0.8%
Portfolio	-1.4% =	1.2% +	-0.3% +	-2.3%	8.2%	9.7%	100.0%	100.0%



Sector Allocation

	Fund	MSCI EM SC
Communication Services	4.0	3.9
Consumer Discretionary	13.0	14.3
Consumer Staples	13.3	6.0
Energy	1.2	2.3
Financials	4.5	9.6
Health Care	15.3	9.0
Industrials	17.5	14.0
Information Technology	9.6	16.2
Materials	10.6	11.1
Real Estate	6.4	8.5
Utilities	2.8	5.1
Cash	1.8	-
TOTAL	100.0	100.0

Country Allocation

	Fund	MSCI EM SC
Latin America	9.6	15.4
Brazil Mexico Peru	4.4 3.2 2.0	10.5 2.8
Europe, Middle East & Africa	13.0	14.0
Czech Republic Estonia Kuwait Poland Saudi Arabia Slovenia South Africa UAE United Kingdom	1.6 1.2 1.6 2.3 2.8 0.8 0.8 0.8 1.0 0.9	0.1 1.1 2.5 4.9 0.6
Asia	75.6	70.6
North Asia	34.7	46.5
China/Hong Kong South Korea Taiwan	18.9 6.2 9.6	10.6 15.5 20.4
South Asia	40.9	23.6
India Indonesia Malaysia Philippines Thailand	28.6 3.9 3.1 2.7 2.6	13.2 2.1 3.3 1.0 4.0
Cash	1.8	-
TOTAL	100.0	100.0



December 31, 2019

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VANGUARD TOTAL BOND MARKET I



100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 2010 2011 2012 2013 2014 2015 2017 2018 2016 2019 Derivative % Cash & Equivalents % Securitized % Corporate % Municipal % Government %

Top Holdings

	Detail Holding Type	Portfolio Weighting %
Vanguard Market Liquidity Inv	MUTUAL FUND - MONEY MARKET	3.25
Federal National Mortgage Association 3%	BOND - GOV'T AGENCY PASS-THRU	0.62
United States Treasury Notes 2%	BOND - GOV'T/TREASURY	0.44
United States Treasury Notes 2.88%	BOND - GOV'T/TREASURY	0.40
United States Treasury Notes 1.62%	BOND - GOV'T/TREASURY	0.40
United States Treasury Notes 2.12%	BOND - GOV'T/TREASURY	0.39
United States Treasury Notes 1.5%	BOND - GOV'T/TREASURY	0.39
United States Treasury Notes 1.75%	BOND - GOV'T/TREASURY	0.39
United States Treasury Notes 2.12%	BOND - GOV'T/TREASURY	0.39
United States Treasury Notes 1.75%	BOND - GOV'T/TREASURY	0.38



Source: Morningstar

Historical Sector Allocations (10 Years)

Risk & Return Illustration (5 Years)

VANGUARD TOTAL BOND MARKET I

Risk & Return Characteristics (5 Years)



Rolling Returns (3 Years)



	2010	Rank	2011	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank
Vanguard Total Bond Market Index I	6.6	70	7.7	11	4.2	83	-2.1	67	5.9	30	0.4	28	2.6	62	3.6	55	0.0	30	8.7	33
BBgBarc US Agg Bond TR USD	6.5		7.8		4.2		-2.0		6.0		0.5		2.6		3.5		0.0		8.7	



Source: Morningstar

December 31, 2019

3.3

VANGUARD INFLATION PROTECTED SECURITIES





Top Holdings

	Detail Holding Type	Portfolio Weighting %
Vanguard Market Liquidity Inv	MUTUAL FUND - MONEY MARKET	3.76
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	3.56
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	3.51
United States Treasury Notes 0.38%	BOND - GOV'T INFLATION PROTECTED	3.48
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	3.47
United States Treasury Notes 0.25%	BOND - GOV'T INFLATION PROTECTED	3.46
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	3.43
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	3.38
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	3.32
United States Treasury Notes 0.38%	BOND - GOV'T INFLATION PROTECTED	3.28



Source: Morningstar

VANGUARD INFLATION PROTECTED SECURITIES

Risk & Return Characteristics (5 Years)



Risk & Return Illustration (5 Years) Time Period: 1/1/2015 to 12/31/2019

1.0

0.0

Std Dev

2.0

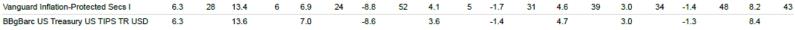


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4.0

Rolling Returns (3 Years)







December 31, 2019

Rank

Vanguard Inflation-Protected Secs I

▲ BBgBarc US Treasury US TIPS TR USD

VANGUARD SHORT-TERM TIPS





Top Holdings

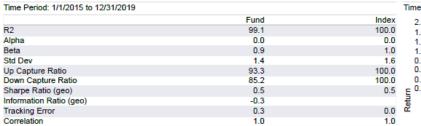
	Detail Holding Type	Portfolio Weighting %
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	8.38
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	7.26
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	7.08
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	7.05
United States Treasury Notes 0.38%	BOND - GOV'T INFLATION PROTECTED	7.04
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	6.99
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	6.94
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	6.93
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	6.76
United States Treasury Notes 0.12%	BOND - GOV'T INFLATION PROTECTED	6.71



Historical Sector Allocations (10 Years)

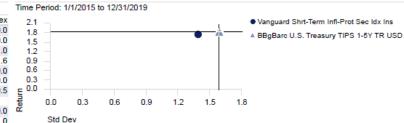
VANGUARD SHORT-TERM TIPS

Risk & Return Characteristics (5 Years)



Risk & Return Illustration (5 Years)

Rolling Risk (3 Years)



Rolling Returns (3 Years)





-BBgBarc U.S. Treasury TIPS 1-5Y TR USD

Calendar Year Returns

	2010	Rank	2011	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank
Vanguard Shrt-Term Infl-Prot Sec Idx Ins							-1.5	5	-1.1	88	-0.2	2	2.8	91	0.8	85	0.6	1	4.8	93
BBgBarc U.S. Treasury TIPS 1-5Y TR USD	3.9		4.9		2.7		-2.0		-1.1		-0.1		3.1		0.8		0.4		5.1	



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3.3

BLACKROCK STRATEGIC INCOME

Asset Allocation **Fixed Income Statistics Credit Quality Breakdown** Portfolio Date: 10/31/2019 Portfolio Date: 6/30/2019 Portfolio Date: 9/30/2019 % Morningstar Fixed Income Style Box™ Fixed-Income Stats Fund Index Ltd Mod Ext 2.0 Stock Average Eff Duration 3.8 AAA % 24.1 Bond 66.9 Average Eff Maturity 9.2 AA % 5.71 High Cash 28.7 Average Coupon 4.4 A% 13.95 Other 2.3 Average Price 102.6 BBB % 22.24 Med Total 100.0 BB % 11.74 В% 8.54 Below B % 4.03 80 Not Rated % 9.73 Yield to Maturity

100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 Derivative % Cash & Equivalents % Securitized % Corporate % Municipal % Government %

Top Holdings

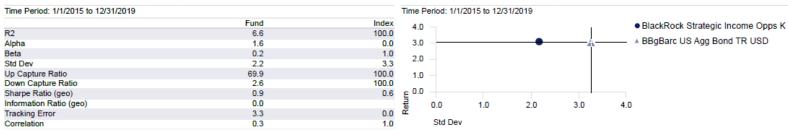
	Detail Holding Type	Portfolio Weighting %
United States Treasury Notes 0.5%	BOND - GOV'T INFLATION PROTECTED	1.47
BlackRock Liquidity T-Fund Instl	MUTUAL FUND - MONEY MARKET	0.99
France (Republic Of) 1.5%	BOND - GOV'T/TREASURY	0.93
Japan (Government Of) 0.1%	BOND - GOV'T INFLATION PROTECTED	0.60
Federal National Mortgage Association 4%	BOND - GOV'T AGENCY PASS-THRU	0.54
China (People's Republic Of) 3.29%	BOND - GOV'T/TREASURY	0.54
Wells Fargo & Company 3.75%	В	0.52
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	0.51
Federal National Mortgage Association 4%	BOND - GOV'T AGENCY PASS-THRU	0.48
China (People's Republic Of) 3.19%	BOND - GOV'T/TREASURY	0.48

Source: Morningstar

Historical Sector Allocations (10 Years)

BLACKROCK STRATEGIC INCOME

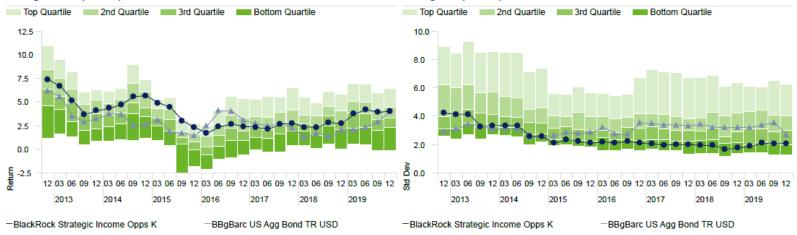
Risk & Return Characteristics (5 Years)



Risk & Return Illustration (5 Years)

Rolling Risk (3 Years)

Rolling Returns (3 Years)



Calendar Year Returns

	2010	Rank	2011	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank
BlackRock Strategic Income Opps K	13.4		-0.7		9.9		3.3		3.9		-0.3		3.7		5.0	37	-0.5	46	7.8	36
BBgBarc US Agg Bond TR USD	6.5		7.8		4.2		-2.0		6.0		0.5		2.6		3.5		0.0		8.7	

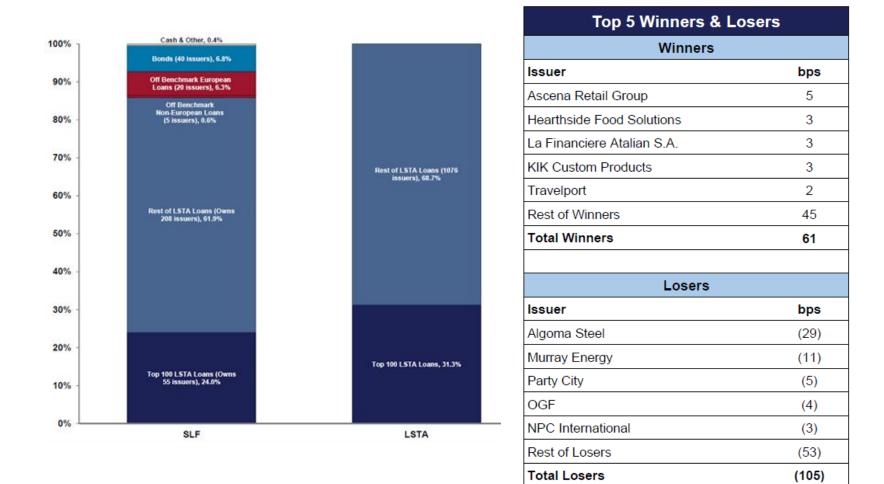


Source: Morningstar

December 31, 2019

3.3

BAIN CAPITAL SENIOR LOAN FUND



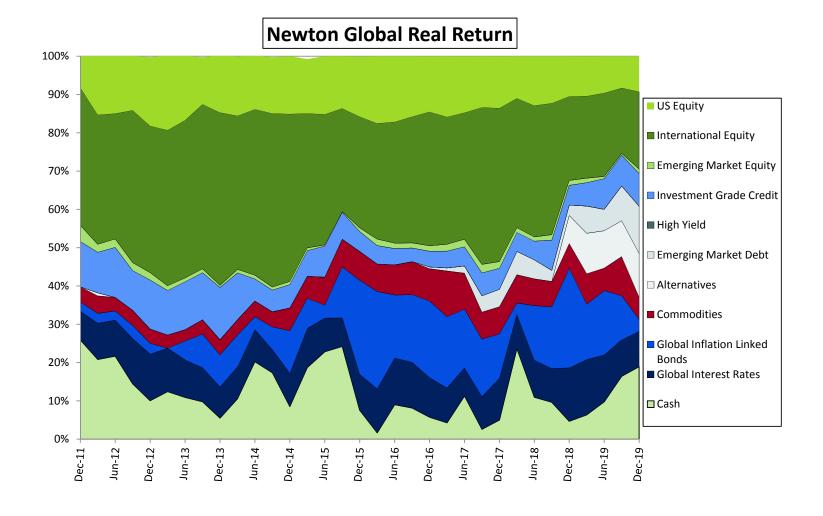


Source: Bain Capital

December 31, 2019

3.3

NEWTON GLOBAL REAL RETURN





LIGHTHOUSE GLOBAL LONG/SHORT

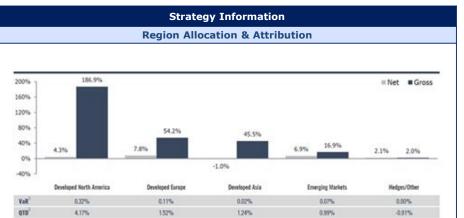
	General Fund Information											
Fund Name	Lighthouse Global Long	Lighthouse Global Long/Short Fund										
Manageme nt Company	Lighthouse Investment	Lighthouse Investment Partners, LLC										
Location	Palm Beach, FL											
Firm AUM	\$13.5 billion	Strategy	Fund of Fund									
Fund AUM	\$1.0 billion	Sub- Strategy	Long/Short Equity									
Portfolio Managers	Ethan Baron	Direct or FOF	FOF									

	Terms
Share Class	
Minimum Investment	\$1 million
Managemen t Fee	1.15%
Incentive Fee	
Hurdle Rate	None
High Water Mark	Yes
Subscription	Monthly
Redemption	Quarterly (60 days notice) or Monthly (90 days notice)
Lock-Up	None

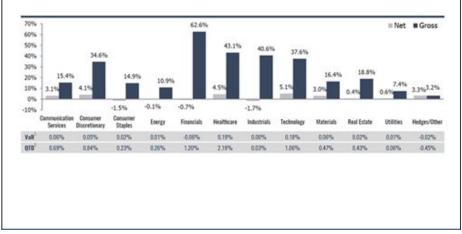
Investment Strategy

Lighthouse's Global Long/Short Fund is a global portfolio of 20-30 separately managed accounts with industry sector and country specialist managers. The geographical allocations are similar to the MSCI World Index (30%-75% Americas, 10%-35% Europe, 5%-35% Asia).

The Fund targets returns greater than 10% over market cycles with 6%-8% volatility and an equity beta of 0.2–0.4 to the MSCI World Index.





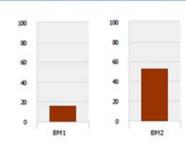


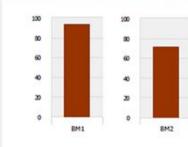


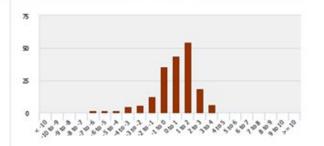
For more information please see NEPC's Investment Due Diligence Report and Operational Due Diligence Report

LIGHTHOUSE GLOBAL LONG/SHORT

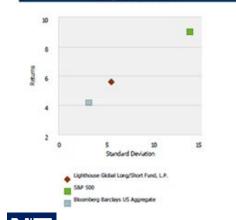
onthly i	Performa	ince												Performance Analysis			
	Jan	Feb	Mar	Ape	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year		Lighthouse	58P 500	Bloomberg
2019	35	0.8	0.3	1.7	-0.7	1.2	1.0	-0.8	-2.3	1.4	2.2	3.4	12.0		Global		Barclays U
2018	2.4	-0.3	-0.5	0.5	3.1	-1.9	0.3	-0.6	-0.4	-5.1	-2.0	-1.8	-5.8		Long/Short Fund, L.P.		Aggregati
2017	1.6	0.3	1.1	-0.5	-0.3	0.0	0.7	1.0	0.1	22	-0.6	1.1	6.7	Since Inception Return	56	9.0	42
2016	-3.6	-0.7	-0.4	0.6	1.0	0.3	1.7	-0.2	1.0	-0.9	1.2	0.3	0.0	1 Yr Return	12.0	31.5	8.7
2015	1.0	1.0	1.6	-0.5	1.1	0.2	0.4	-0.8	-1.0	2.2	0.0	1.7	72	3 Yr Return	4.0	15.3	4.0
2014	0.9	1.8	-1.7	-2.0	1.2	1.9	-0.5	1.7	-0.1	0.3	1.2	0.6	\$3				1.20
2013	3.2	0.5	2.7	1.5	1.0	1.0	22	-0.3	2.2	1.2	1.1	2.4	20.5	5 Yr Return	3.8	11.7	3.0
2012	1.7	1.7	1.6	1.2	-3.7	0.5	0.2	1.1	13	-0.1	0.5	0.4	6.7	7 Yr Return	6.3	14.7	2.7
2011	-0.2	12	0.7	2.1	-1.1	-1.5	0.6	-3.1	-0.6	1.7	-1.0	-0.6	-1.9	10 Yr Return	5.3	13.6	3.7
2010	0.0	0.3	1.9	0.6	-24	-1.7	1.7	-0.6	13	1.8	0.2	21	\$1	Best Month	35	20.9	3.7
2009	0.3	-0.5	1.1	1.3	2.3	0.7	1.6	1.4	1.5	-0.9	0.3	0.9	10.2	Worst Month	-6.4	-16.8	-2.4
2008	-3.2	1.2	4.7	1.5	2.8	-0.5	-1.4	-0.3	-6.4	-2.0	-0.6	0.0	-13.1	Percent Profitable Periods	672	68.9	65.0
2007	2.7	0.4	15	2.6	3.2	13	-0.2	-23	1.8	33	-24	0.2	12.6	Product Inception Date	01/01/2005		
	1.1		BH in U						1.0	1.0	own Mar		10.0		Distribution of Return		







Risk/Return Profile





Risk Analysis			
Since Inception Standard Deviation	\$6	13.8	12
3 Yr Standard Deviation	5.9	12.1	2.9
5 Yr Standard Deviation	5.2	12.0	3.1
7 Yr Standard Deviation	51	11.1	3.0
10 Yr Standard Deviation	51	12.5	2.9
Sharpe Ratio	0.8	0.6	0.9
Sortino Ratio	1.1	0.5	1.6
Loss Deviation	3.9	9.6	1.8
Max Drawdown	15.2	50.9	3.8
Max Drawdown Length	26	16	7
Max Drawdown Recovery Length	25	37	2

-			-	-		
Com	pare	son	to	Ben	chm	10110

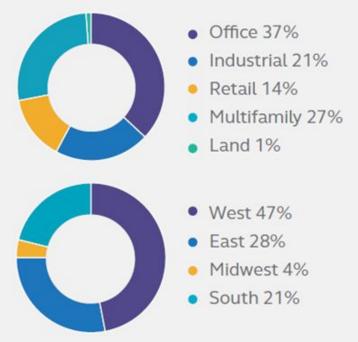
Annualized Alpha	13	63
Beta	0.2	-0.1
Correlation Coefficient	0.6	-0.1
R-Sourred	0.4	0.0

PRINCIPAL U.S. PROPERTY

4Q2019 key statistics

Inception date	Janua	ry, 1982
Gross asset value	\$10.7	3 billion
Net asset value	\$8.4	2 billion
Number of investme	nts	133
Number of markets		43
Core portfolio occup	ancy*	93.4%
Cash to gross assets		3.8%
Leverage ratio**		18.8%

Diversification





Source: Principal

APPENDIX

NEPC, LLC

GLOSSARY OF TERMS

Alpha - Measures the relationship between the fund performance and the performance of another fund or benchmark index and equals the excess return while the other fund or benchmark index is zero.

Alpha Jensen - The average return on a portfolio over and above that predicted by the capital asset pricing model (CAPM), given the portfolio's beta and the average market return. Also known as the abnormal return or the risk adjusted excess return.

Annualized Excess Return over Benchmark - Annualized fund return minus the annualized benchmark return for the calculated return.

Annualized Return - A statistical technique whereby returns covering periods greater than one year are converted to cover a 12 month time span.

Beta - Measures the volatility or systematic risk and is equal to the change in the fund's performance in relation to the change in the assigned index's performance.

Information Ratio - A measure of the risk adjusted return of a financial security, asset, or portfolio.

Formula:

(Annualized Return of Portfolio - Annualized Return of Benchmark)/Annualized Standard Deviation(Period Portfolio Return – Period Benchmark Return). To annualize standard deviation, multiply the deviation by the square root of the number of periods per year where monthly returns per year equals 12 and quarterly returns is four periods per year.

R-Squared – Represents the percentage of a fund's movements that can be explained by movements in an index. R-Squared values range from 0 to 100. An R-Squared of 100 denotes that all movements of a fund are completely explained by movements in the index.

Sharpe Ratio - A measure of the excess return or risk premium per unit of risk in an investment asset or trading strategy.

Sortino Ratio - A method to differentiate between good and bad volatility in the Sharpe Ratio. The differentiation of up and down volatility allows the calculation to provide a risk adjusted measure of a security or fund's performance without upward price change penalties.

Formula:

Calculation Average (X-Y)/Downside Deviation (X-Y) * 2 Where X=Return Series X Y = Return Series Y which is the risk free return (91 day T-bills) Standard Deviation - The standard deviation is a statistical term that describes the distribution of results. It is a commonly used measure of volatility of returns of a portfolio, asset class, or security. The higher the standard deviation the more volatile the returns are.

Formula:

(Annualized Return of Portfolio – Annualized Return of Risk Free) / Annualized Standard Deviation (Portfolio Returns)

Tracking Error - Tracking error, also known as residual risk, is a measure of the degree to which a portfolio tracks its benchmark. It is also a measure of consistency of excess returns. Tracking error is computed as the annualized standard deviation of the difference between a portfolio's return and that of its benchmark.

Formula:

Tracking Error = Standard Deviation $(X-Y) * \sqrt{(\# of periods per year)}$ Where X = periods portfolio return and Y = the period's benchmark return For monthly returns, the periods per year = 12 For quarterly returns, the periods per year = 4

Treynor Ratio - A risk-adjusted measure of return based on systematic risk. Similar to the Sharpe ratio with the difference being the Treynor ratio uses beta as the measurement of volatility.

Formula:

(Portfolio Average Return - Average Return of Risk-Free Rate)/Portfolio Beta

Up/Down Capture Ratio - A measure of what percentage of a market's returns is "captured" by a portfolio. For example, if the market declines 10% over some period, and the manager declines only 9%, then his or her capture ratio is 90%. In down markets, it is advantageous for a manager to have as low a capture ratio as possible. For up markets, the higher the capture ratio the better. Looking at capture ratios can provide insight into how a manager achieves excess returns. A value manager might typically have a lower capture ratio in both up and down markets, achieving excess returns by protecting on the downside, whereas a growth manager might fall more than the overall market in down markets, but achieve above-market returns in a rising market.

UpsideCapture = TotalReturn(FundReturns)/TotalReturns(BMReturn) when Period Benchmark Return is > = 0

DownsideCapture = TotalReturn(FundReturns)/TotalReturns(BMReturn) when Benchmark <0

Data Source: InvestorForce

INFORMATION DISCLAIMER AND REPORTING METHODOLOGY

Information Disclaimer

- Past performance is no guarantee of future results.
- All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.
- Some index returns displayed in this report or used in calculation of a policy, allocation or custom benchmark may not be available from the source or may be preliminary and subject to change.
- NEPC's source for portfolio pricing, calculation of accruals, and transaction information is the plan's custodial bank. Information on market indices and security characteristics is received from other sources external to NEPC. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.
- This report is provided as a management aid for the client's internal use only. Performance contained in this report does not constitute a recommendation by NEPC.
- This report may contain confidential or proprietary information and may not be copied or redistributed to any party not legally entitled to receive it.

Reporting Methodology

- The client's custodian bank is NEPC's preferred data source unless otherwise directed. NEPC reconciles custodian data to manager data. If the custodian cannot provide accurate data, manager data may be used.
- Trailing time period returns are determined by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of Return are annualized when the time period is longer than a year. Performance is presented gross and/or net of manager fees as indicated on each page.
- For managers funded in the middle of a month, the "since inception" return will start with the first full month, although actual inception dates and cash flows are taken into account in all Composite calculations.
- This report may contain forward-looking statements that are based on NEPC's estimates, opinions and beliefs, but NEPC cannot guarantee that any plan will achieve its targeted return or meet other goals.

FOURTH QUARTER 2019 SUPPLEMENTAL PERFORMANCE UNIVERSITY OF MAINE SYSTEM OPERATING FUND

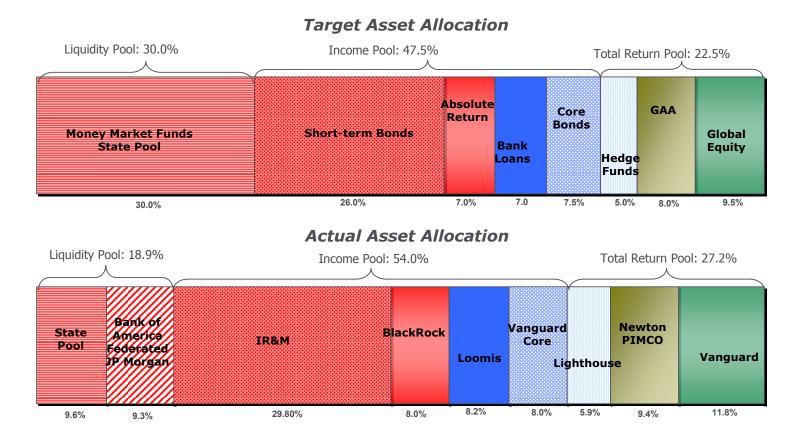
February 27, 2020

Jay E. Roney, Partner Kelly Regan, Senior Consultant



BOSTON | ATLANTA | CHARLOTTE | CHICAGO | DETROIT | LAS VEGAS | PORTLAND | SAN FRANCISCO

TOTAL FUND ASSET ALLOCATION



*May not add up to 100% due to rounding

TOTAL PLAN PERFORMANCE DETAIL

	Market Value _{% o} (\$)	f Portfolio	Policy %	3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)
Operating Funds Composite	259,342,614	100.0	100.0	2.0	2.6	7.3	3.8	2.8	2.5	2.8
Allocation Index				1.9	2.6	7.4	4.0	2.9	2.7	2.7
Liquidity Pool Composite	48,962,664	18.9	30.0	0.5	1.0	2.1	1.5	1.0	0.8	0.6
State Pool	25,011,423	9.6		0.5	1.1	2.2	1.6	1.1	0.9	0.7
BOA General Fund	1,768,743	0.7		0.1	0.2	0.8	0.5	0.3	0.2	
Federated Gov't Obligations	18,902,714	7.3		0.4	1.0	2.2	1.5	-		
JP Morgan US Gov't Money Market Fund	3,279,783	1.3		0.4	1.0	2.1	1.5	-		-
FTSE T-Bill 3 Months TR				0.5	1.0	2.3	1.7	1.0	0.8	0.6
Income Pool Composite	139,950,447	54.0	47.5	0.7	1.8	5.9	2.9	2.5	2.2	2.9
Income Research + Management	77,313,856	29.8	26.0	0.6	1.3	4.2	2.2	1.8	1.5	
BBgBarc US Govt/Credit 1-3 Yr. TR				0.6	1.3	4.0	2.1	1.7	1.4	1.5
BlackRock Strategic Income Opportunities	20,804,435	8.0	7.0	1.6	2.5	7.8	4.0			
3-Month Libor Total Return USD				0.5	1.0	2.4	2.0	1.4	1.1	0.9
Loomis Sayles Bank Loans	21,206,470	8.2	7.0	1.0	2.3	7.8	3.5	3.8	3.4	4.3
Loomis Bank Loans Custom Index				1.4	2.9	9.3	4.0	4.3	4.2	5.0
Vanguard Total Bond Market Instl' Fund	20,625,686	8.0	7.5	0.0	2.5	8.7	4.0	3.0	2.7	3.7
BBgBarc US Aggregate TR				0.2	2.5	8.7	4.0	3.0	2.7	3.7
Total Return Pool Composite	70,429,503	27.2	22.5	6.4	6.0	16.7	8.0	5.4	5.2	5.7
Lighthouse	15,414,608	5.9	5.0	7.3	5.4	13.4	5.5			
Credit Suisse Long Shrt Eqt USD				5.1	5.2	12.2	6.7	3.9	6.0	5.2
Newton Global Real Return	12,186,729	4.7	4.0	2.0	2.6	11.8	5.7			
60% MSCI ACWI (Net)/ 40% BBgBarc Global Agg				5.5	5.8	18.6	9.3	6.1	6.5	6.4
PIMCO All Asset	12,314,560	4.7	4.0	4.3	3.7	12.2	6.7	4.7	3.5	5.5
Blended Index				1.9	3.1	11.3	5.1	4.3	3.8	5.1
Vanguard Total World Stock Index	30,513,606	11.8	9.5	9.0	9.0	26.8	12.5	8.7		
FTSE Global All Cap Index				9.2	9.2	26.8	12.3	7.6	8.6	7.4

Notes:

Returns are net of manager fees.

The inception date for the allocation index is 07/01/2009

Fiscal YTD begins 7/1

Blended Index: 40% BC Aggregate / 30% BC U.S. TIPS 1-10YR / 10% S&P 500 / 10% BC High Yield / 10% JPM EMBI+

Loomis Bank Loans Custom Index blends performance of "S&P/LSTA Leveraged Loan Index" before 9/1/2014 and "S&P/LSTA Leveraged BB Loan Index" after 9/1/2014.

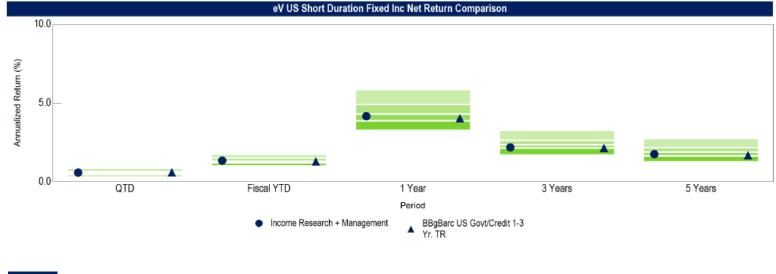
Composite excludes external loans.

Blackrock SIO changed its share class in May 2018 to BSIKX.



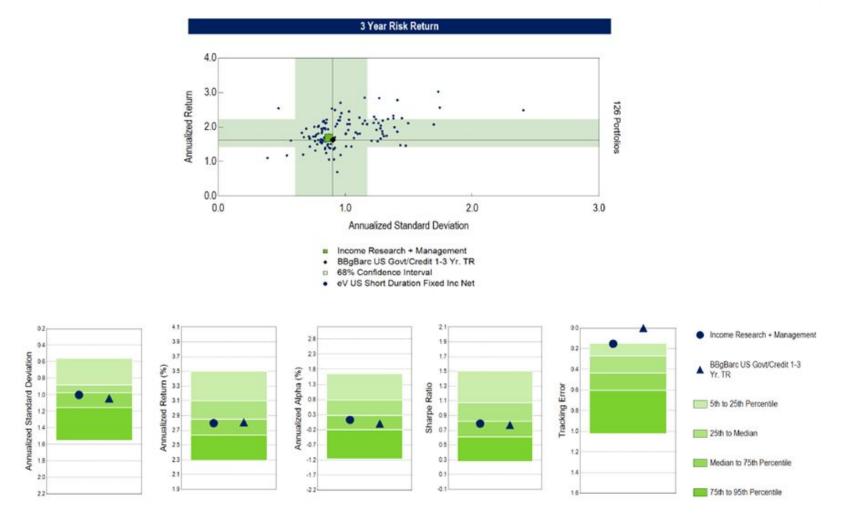
INCOME RESEARCH + MANAGEMENT





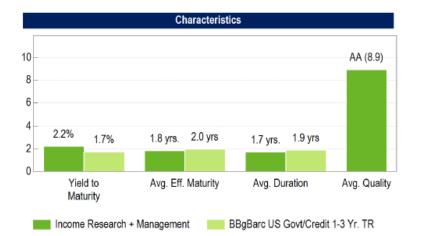


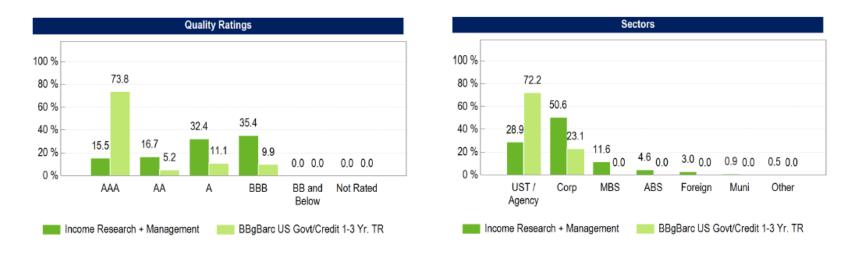
INCOME RESEARCH + MANAGEMENT





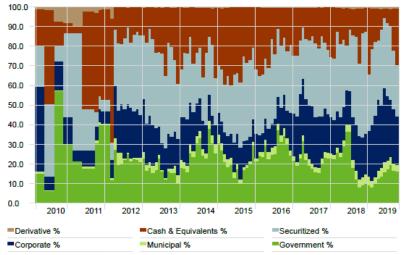
INCOME RESEARCH + MANAGEMENT





BLACKROCK STRATEGIC INCOME

Asset Allocation **Fixed Income Statistics Credit Quality Breakdown** Portfolio Date: 10/31/2019 Portfolio Date: 9/30/2019 Portfolio Date: 6/30/2019 Morningstar Fixed Income Style Box™ Fixed-Income Stats % Fund Index Ltd Mod Ext 2.0 Average Eff Duration 3.8 AAA % Stock 24.1 9.2 AA % Bond 66.9 Average Eff Maturity 5.71 High 28.7 Average Coupon 4.4 A% 13.95 Cash Other 2.3 Average Price 102.6 BBB % 22.24 Med 100.0 BB % Total 11.74 В% 8.54 Below B % 4.03 § Not Rated % 9.73 Yield to Maturity



Top Holdings

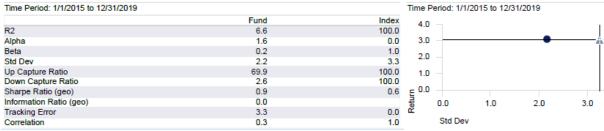
	Detail Holding Type	Portfolio Weighting %
United States Treasury Notes 0.5%	BOND - GOV'T INFLATION PROTECTED	1.47
BlackRock Liquidity T-Fund Instl	MUTUAL FUND - MONEY MARKET	0.99
France (Republic Of) 1.5%	BOND - GOV'T/TREASURY	0.93
Japan (Government Of) 0.1%	BOND - GOV'T INFLATION PROTECTED	0.60
Federal National Mortgage Association 4%	BOND - GOV'T AGENCY PASS-THRU	0.54
China (People's Republic Of) 3.29%	BOND - GOV'T/TREASURY	0.54
Wells Fargo & Company 3.75%	В	0.52
United States Treasury Notes 0.62%	BOND - GOV'T INFLATION PROTECTED	0.51
Federal National Mortgage Association 4%	BOND - GOV'T AGENCY PASS-THRU	0.48
China (People's Republic Of) 3.19%	BOND - GOV"T/TREASURY	0.48

Source: Morningstar

Historical Sector Allocations (10 Years)

BLACKROCK STRATEGIC INCOME

Risk & Return Characteristics (5 Years)



Risk & Return Illustration (5 Years)



	2010	Rank	2011	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank
BlackRock Strategic Income Opps K	13.4		-0.7		9.9		3.3		3.9		-0.3		3.7		5.0	37	-0.5	46	7.8	36
BBgBarc US Agg Bond TR USD	6.5		7.8		4.2		-2.0		6.0		0.5		2.6		3.5		0.0		8.7	



Source: Morningstar

December 31, 2019

BlackRock Strategic Income Opps K

BBgBarc US Agg Bond TR USD

4.0

LOOMIS SAYLES BANK LOANS

HOLDINGS BY INDUSTRY (%)

Technology	10.0
Building Materials	7.0
Media Entertainment	6.7
Consumer Cyclical Services	5.4
Healthcare	5.1
Chemicals	4.9
Consumer Products	4.2
Industrials - Other	4.1
Cable Satellite	4.1
Restaurants	3.2
Automotive	3.2
Financial Other	3.0
Pharmaceuticals	2.8
Gaming	2.8
Food & Beverage	2.6

P&C	2.3
Retailers	2.3
Leisure	1.9
Packaging	1.7
Transportation Services	1.7
REITS	1.5
Environmental	1.4
Electric	1.3
Aerospace/Defense	1.1
Entertainment	1.1
Home Construction	0.9
Health Insurance	0.8
Internet & Data	0.7
Metals and mining	0.7
Banking	0.6

Wireless	0.6
Diversified Manufacturing	0,6
Lodging	0.6
Insurance	0.5
Brokerage	0.5
Midstream	0.5
Media - NonCable	0.4
Refining	0.4
Construction Machinery	0.4
Oil Field Services	0.4
Office Reits	0.3
Conglomerates	0.3
Energy - Integrated	0.2
Railroads	0.2
Supermarkets	0.1
Cash & Equivalents	5.2

TOP FIVE HOLDINGS (%)

Nomad Foods Europe Midco

Brookfield Property REIT Inc

Burger King Corporation

Neilsen Finance LLC CommScope, Inc.

Limited

Portfolio

1.3 1.0

0.9

0.9

0.9

CREDIT QUALITY (%)

	Portfolio	S&P/LST Leveraged Loan Inde
AA	-	
A		1.0
BBB	6.4	9.4
BB	51.0	24.9
В	37.1	57.6
CCC & Lower	0.3	6.5
Not Rated	2	1.7
Cash & Equivalents	5.2	27
Second Lien	÷.	3.4
Avg. Credit Quality	BB-	B+

SECTOR DISTRIBUTION (%)

	Portfolio	
Industrial	84.1	
Financial	9.4	
Utility	1.3	
Cash & Equivalents	5.2	

COUNTRY DISTRIBUTION (%)

Portfolio
91.9
3.2
4.9

Reflects the credit ratings assigned by Standard & Poors. If shown, the S&P/ LSTA US BB Ratings Loan Index would be rated 100% BB.

N	Ε
Ρ	

Source: Loomis Sayles

VANGUARD TOTAL BOND MARKET I





Top Holdings

	Detail Holding Type	Portfolio Weighting %
Vanguard Market Liquidity Inv	MUTUAL FUND - MONEY MARKET	3.25
Federal National Mortgage Association 3%	BOND - GOV'T AGENCY PASS-THRU	0.62
United States Treasury Notes 2%	BOND - GOV'T/TREASURY	0.44
United States Treasury Notes 2.88%	BOND - GOV'T/TREASURY	0.40
United States Treasury Notes 1.62%	BOND - GOV'T/TREASURY	0.40
United States Treasury Notes 2.12%	BOND - GOV'T/TREASURY	0.39
United States Treasury Notes 1.5%	BOND - GOV'T/TREASURY	0.39
United States Treasury Notes 1.75%	BOND - GOV'T/TREASURY	0.39
United States Treasury Notes 2.12%	BOND - GOV'T/TREASURY	0.39
United States Treasury Notes 1.75%	BOND - GOV'T/TREASURY	0.38



Source: Morningstar

Historical Sector Allocations (10 Years)

VANGUARD TOTAL BOND MARKET I

Risk & Return Characteristics (5 Years)



Risk & Return Illustration (5 Years)

-Vanguard Total Bond Market Index I

Rolling Returns (3 Years)



-BBgBarc US Agg Bond TR USD



-BBgBarc US Agg Bond TR USD

Calendar Year Returns

-Vanguard Total Bond Market Index I

	2010	Rank	2011	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank
Vanguard Total Bond Market Index I	6.6	70	7.7	11	4.2	83	-2.1	67	5.9	30	0.4	28	2.6	62	3.6	55	0.0	30	8.7	33
BBgBarc US Agg Bond TR USD	6.5		7.8		4.2		-2.0		6.0		0.5		2.6		3.5		0.0		8.7	



Source: Morningstar

LIGHTHOUSE GLOBAL LONG/SHORT

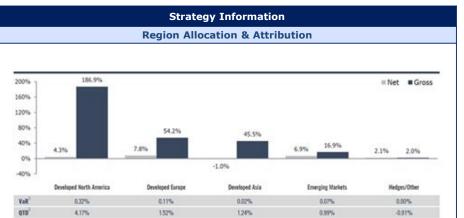
	General Fund Information												
Fund Name	Lighthouse Global Long	/Short Fund											
Manageme nt Company	Lighthouse Investment Partners, LLC												
Location	Palm Beach, FL												
Firm AUM	\$13.5 billion	Strategy	Fund of Fund										
Fund AUM	\$1.0 billion	Sub- Strategy	Long/Short Equity										
Portfolio Managers	Ethan Baron Direct or FOF FOF												

	Terms
Share Class	
Minimum Investment	\$1 million
Managemen t Fee	1.15%
Incentive Fee	
Hurdle Rate	None
High Water Mark	Yes
Subscription	Monthly
Redemption	Quarterly (60 days notice) or Monthly (90 days notice)
Lock-Up	None

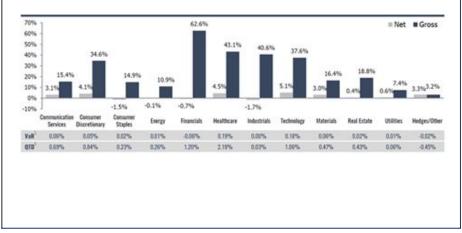
Investment Strategy

Lighthouse's Global Long/Short Fund is a global portfolio of 20-30 separately managed accounts with industry sector and country specialist managers. The geographical allocations are similar to the MSCI World Index (30%-75% Americas, 10%-35% Europe, 5%-35% Asia).

The Fund targets returns greater than 10% over market cycles with 6%-8% volatility and an equity beta of 0.2–0.4 to the MSCI World Index.





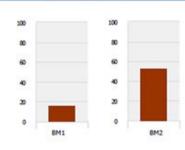


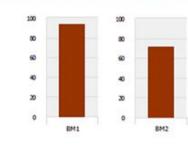


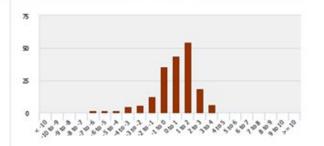
For more information please see NEPC's Investment Due Diligence Report and Operational Due Diligence Report

LIGHTHOUSE GLOBAL LONG/SHORT

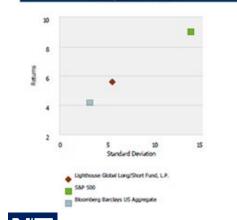
onthly P	erforma	nce												Performance Analysis			
	Jan	Feb	Mar	Ape	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year		Lighthouse	58P 500	Bloomberg
2019	15	0.8	0.3	1.7	-0.7	1.2	1.0	-0.8	-2.3	1.4	2.2	3.4	12.0		Global		Barclays US
2018	2.4	-0.3	-0.5	0.5	3.1	-1.9	0.3	-0.6	-0.4	-5.1	-2.0	-1.8	-5.8		Long/Short Fund, L.P.		Aggregate
2017	1.6	0.3	1.1	-0.5	-0.3	0.0	0.7	1.0	0.1	22	-0.6	1.1	6.7	Since Inception Return	56	9.0	42
2016	-3.6	-0.7	-0.4	0.6	1.0	0.3	1.7	-0.2	1.0	-0.9	1.2	0.3	0.0	1 Yr Return	12.0	31.5	8.7
2015	1.0	1.0	1.6	-0.5	1.1	0.2	0.4	-0.8	-1.0	2.2	0.0	1.7	72	3 Yr Return	40	15.3	4.0
2014	0.9	1.8	-1.7	-2.0	1.2	1.9	-0.5	1.7	-0.1	0.3	1.2	0.6	\$3				
013	3.2	0.5	27	1.5	1.0	1.0	22	-0.3	2.2	12	1.1	2.4	20.5	5 Yr Return	3.8	11.7	3.0
8012	1.7	1.7	1.6	1.2	-3.7	0.5	0.2	1.1	13	-0.1	0.5	0.4	6.7	7 Yr Return	6.3	14.7	2.7
2011	-0.2	1.2	0.7	2.1	-1.1	-1.5	0.6	-3.1	-0.6	1.7	-1.0	-0.6	-1.9	10 Yr Return	\$3	13.6	3.7
2010	0.0	0.3	1.9	0.6	-2.4	-1.7	17	-0.6	1.3	1.8	0.2	2.1	\$1	Best Month	35	10.9	3.7
2009	0.3	-0.5	1.1	1.3	23	0.7	1.6	1.4	1.5	-0.9	0.3	0.9	10.2	Worst Month	-6.4	-16.8	-2.4
2008	-3.2	1.2	4.7	1.5	2.8	-0.5	-1.4	-0.3	-6.4	-2.0	-0.6	0.0	-13.1	Percent Profitable Periods	672	68.9	65.0
2007	2.7	0.4	15	2.6	3.2	13	-0.2	-2.3	1.8	33	-2.4	0.2	12.6	Product Inception Date	01/01/2005		
	1.1		BM in Up					-	-		own Mar		10.0		Distribution of Return		







Risk/Return Profile





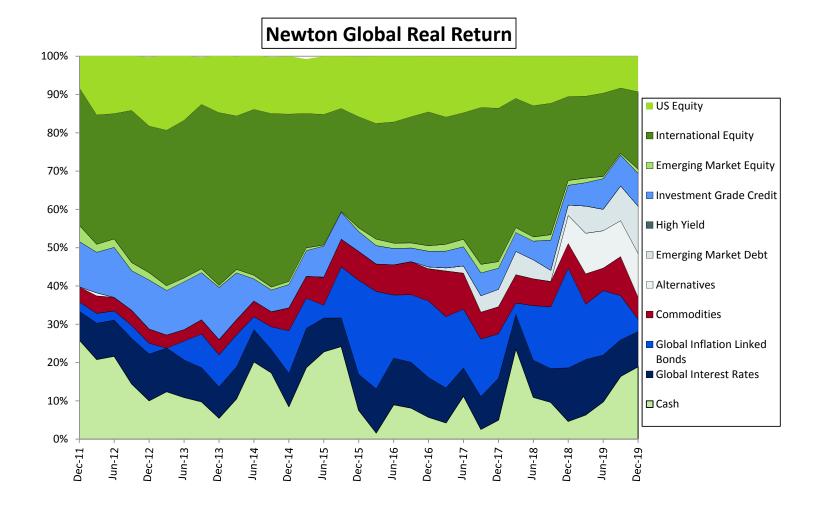
Risk Analysis				
Since Inception Standard Deviation	\$6	13.8	12	
3 Yr Standard Deviation	5.9	12.1	2.9	
5 Yr Standard Deviation	5.2	12.0	3.1	
7 Yr Standard Deviation	\$1	11.1	3.0	
10 Yr Standard Deviation	51	12.5	2.9	
Sharpe Ratio	0.8	0.6	0.9	
Sortino Ratio	1.1	0.5	16	
Loss Deviation	3.9	9.6	1.8	
Max Drawdown	15.2	50.9	3.8	
Max Drawdown Length	36	16	7	
Max Drawdown Recovery Length	25	37	2	

Comparison to Benchmarks

Annualized Alpha	13	63
Beta	0.2	-0.1
Correlation Coefficient	0.6	-0.1
R-Soured	0.4	0.0

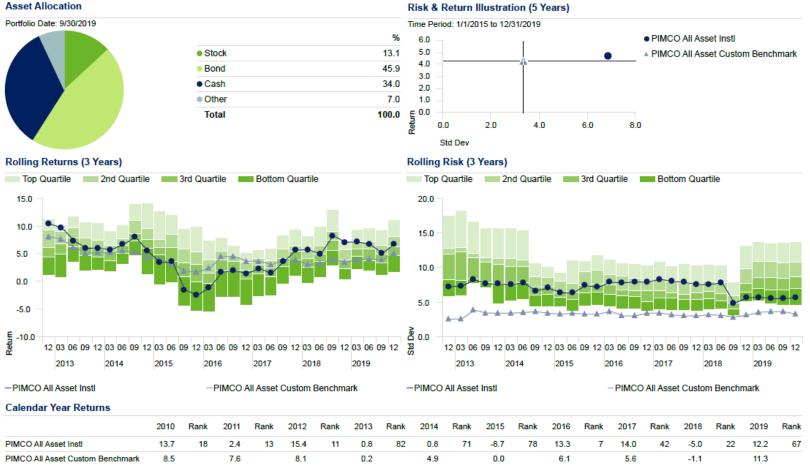
3.4

NEWTON GLOBAL REAL RETURN





PIMCO ALL ASSET





December 31, 2019

3.4

PIMCO ALL ASSET

Total Fund Net Assets (\$US MM)	All Asset Fund 17,939.8														
Total Fund Net Assets (\$05 MM)	6/30/2014	12/31/2014	6/30/2015	12/31/2015	6/30/2016	12/31/2016	6/30/2017	12/31/2017	6/30/2018	12/31/2018	6/30/2019	5/30/2019	10/31/2019	11/30/2019	12/31/20
hird Pillar	78,71%	74.17%	85.75%	81.91%	81.04%	74.27%	70.05%	70.82%	74.15%	74.69%	79.70%	79.83%	79.89%	79.61%	80.381
merging Markets Equities	12.81%	11.83%	13.67%	14:11%	22.17%	18,77%	17.50%	17.76%	18.35%	22.87%	24.91%	25.77%	26.10%	25.51%	26.191
RAE Emerging Markets Fund					4.22%	4.63%	4.47%	5.33%	5.31%	6.68%	8.70%	10.75%			
RAE PLUS EMG Fund	5.99%	4.12%	4.73%	4.65%	6.11%	3.39%	3.70%	6.41%	9.14%	11.95%	12.08%	10.54%			
RAE Low Volatility PLUS EMG Fund	6.80%	7.70%	8.94%	9.46%	11.83%	10.74%	9.33%	5.76%	2.97%	3.30%	2.84%	2.77%			
EqS Emerging Markets Fund	0.02%	0.02%		854		-	-			-	-	1.00			
RAFI Dynamic Multi-Factor EM Equity ETF					1			0.26%	0.92%	0.94%	1.30%	1.69%			
Commodities and REITs	8.76%	9.89%	6.36%	5.52%	5.53%	5.25%	8.29%	10.66%	10/41%	8.40%	8.06%	0.03%	8.27%	7.91%	8.02%
CommoditiesPLUS™ Strategy Fund	3.03%	3.06%	2.19%	1.68%	3.12%	3.47%	4.05%	5.38%	4.72%	3.25%	3.70%	4.02%			
CommodityRealReturn Strategy Fund®	1.66%	3.97%	2.18%	1.62%	0.89%	0.53%	1.05%	1.08%	1.10%	1.21%	1.00%	0.98%			
RealEstateRealReturn Strategy Fund	4.06%	2.86%	1.99%	2.23%	1.53%	1.26%	3.19%	4.20%	4.59%	4.02%	3.36%	3.03%			
Energing Markets Bonds	19.86%	18.63%	22/45%	20.83%	17.67%	19.97%	20.55%	20.11%	18:62%	17/72%	15.47%	14:44%	14.44%	13:85%	10.94%
Emerging Local Bond Fund	7.42%	9.10%	9.79%	8.48%	6.94%	6.98%	6.76%	6.44%	5.70%	5.73%	3.93%	2.95%			
Emerging Markets Currency and Short-Term Investments Fund	7.10%	9.05%	12.29%	11.94%	10.73%	12.99%	13.80%	13.66%	12.92%	11.99%	11.54%	11.49%			
Emerging Markets Bond Fund	3.90%	0.47%	0.29%	0.32%		-		1.000		-		and the second			
Emerging Markets Corporate Bond Fund	1.43%	0.20%	0.07%	0.09%		1									
Credit	21.64%	14,21%	15.23%	15.32%	17.72%	17.46%	14.08%	12.40%	12.17%	8.16%	7.36%	6.54%	6.47%	6.20%	5.89%
ligh Yield Fund	1.11%	2.64%	2.88%	2.53%	2.90%	2.35%	1.01%	0.59%	0.58%	1.03%	0.71%	0.00%			
ligh Yield Spectrum Fund	3.69%	2.90%	3.20%	3.84%	4.67%	4.64%	2.50%	1.55%	1.59%	1.59%	1.40%	1.18%			
ncome Fund	10.28%	6.21%	6.01%	6.34%	7.51%	7.63%	6.62%	6.27%	7.00%	5.54%	5.25%	5.36%			
Diversified Income Fund	3.21%	0.10%	0.21%	0.24%	0.57%	0.49%	0.15%	0.00%	0.00%	0.00%	0.00%	0.00%			
ow Duration Income Fund	1.75%	0.06%	0.33%	0.29%		-	-	-		-	-	-			
Senior Floating Rate Fund	1,79%	2.30%	2.61%	2.07%	2.06%	2.34%	3.81%	3.99%	2.99%	0.00%	0.00%	0.00%			
Convertible Fund				-		-	-	1.00							
European Convertible Fund															
Global Bonds	1,21%	0.35%	1.07%	1.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
nternational Bond Fund (Unhedged)	0.26%	0.30%	0.30%	0.29%			-	+ :			-				
Global Advantage Strategy Fund	0.95%	0.05%	0.76%	0.88%											
Slobal Bond Opportunities Fund (Unhedged)	-	-						+		-	-				
nflation Linked Bonds	0.90%	2.73%	7.86%	7.90%	3.21%	3.85%	3.97%	3.75%	2.61%	1.93%	6.73%	7715%	7:01%	7.95%	7.99%
Real Return Fund	0.29%	1.38%	1.29%	0.81%	0.18%	3.19%	3.53%	3.32%	2.16%	1.49%	1.06%	1.27%			
ong-Term Real Return Fund	0.53%	1.27%	6.50%	6.99%	2.91%	0.54%	0.44%	0.43%	0.44%	0.44%	5.67%	5.88%			
Global Advantage® Inflation-Linked Bond ETF	0.08%	0.08%	0.08%	0.10%	0.12%	0.12%		10000							
Alternative Strategies	13,34%	16.33%	19.09%	17.05%	14.74%	8.98%	5.65%	6.15%	12.00%	15.54%	17.16%	17.91%	17.00%	18:15%	18,365
Dynamic Bond Fund	2.53%	1.79%	2.44%	2.08%	1.96%		+	÷1		1.58%	1.49%	0.99%			
Credit Opportunities Bond Fund	2.78%	0.76%	0.44%	0.23%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			
Nortgage Opportunities and Bond Fund	0.55%	0.61%	0.66%	0.74%	0.78%	0.74%	0.72%	0.69%	0.71%	0.74%	0.79%	0.82%			
RENDS Managed Futures Strategy Fund	0.16%	0.19%	0.20%	0.26%	0.29%	0.30%	0.28%	0.29%	0.29%	1.08%	1.00%	1.01%			
EqS Long/Short Fund	0.47%	0.49%	0.25%	1001				47							
RAE Worldwide Long/Short PLUS Fund		3.08%	7.49%	7.96%	7.28%	5.73%	3.06%	3.03%	5.15%	6.25%	6.40%	6.61%			
RAE Fundamental Advantage PLUS Fund	2.62%	4.84%	3.75%	2.62%	2.20%	1.06%	1.59%	2.14%	5.85%	5.88%	7.48%	8.48%			
RAE Worldwide Fundamental Adv PLUS Fund	4.24%	4.57%	3.86%	3.16%	2.23%	1.15%									

Source: PIMCO



PIMCO ALL ASSET

	6/30/2014	12/31/2014	6/30/2015	12/31/2015	6/30/2016	12/31/2016	6/30/2017	12/31/2017	6/30/2018	12/31/2018	6/30/2019	9/30/2019	10/31/2019	11/30/2019	12/31/2019
Second Pillar	9.05%	13.80%	6.15%	10.78%	10.63%	14.67%	20.07%	19.88%	19.91%	19.63%	13.84%	14.06%	13.97%	14.14%	13.81%
US Core Bonds	3.10%	4.58%	3.17%	3.66%	6.28%	4.63%	7.71%	7.21%	6.46%	4.17%	4.16%	3.54%	3.58%	3.56%	3.48%
Total Return Fund	3.07%	2.25%	1.39%	1.65%	3.41%	1.92%	4.44%	4,90%	4.25%	2.07%	2.16%	1.83%			
Investment Grade Credit Bond Fund	0.02%	2.34%	1.78%	2.01%	2.87%	2.76%	3.26%	2.30%	2.21%	2.09%	2.00%	1,71%			
Montgage-Backed Securities Fund															
GNMA and Government Securities Fund						1.4									
US Long Maturity Bonds	4.82%	7.70%	1.52%	2.31%	2.55%	5.30%	8.63%	8.70%	8 22%	9.56%	6.33%	6.74%	7.03%	7.23%	6.74%
Extended Duration Fund					0.42%	1.51%	2.91%	3.13%	3.52%	4.61%	3.47%	4.35%			
Long-Term US Government Fund	0.27%	3.91%	0.00%	0.00%	1.18%	2.41%	4.42%	4.29%	3.45%	3.64%	1.50%	1.62%			
Long-Term Credit Bond Fund	4.20%	1.93%	0.57%	0.88%	0.27%	0.17%									
Long Duration Total Return Fund	0.35%	1.86%	0.95%	1.42%	0.68%	1.20%	1.30%	1.28%	1.26%	1.31%	1.36%	0.76%			
Short-Term Bonds	1.13%	1.52%	1.46%	4.81%	1.80%	4.69%	3.73%	3.97%	5.23%	5.91%	3.35%	3.78%		3.35%	3.59%
Low Duration Fund	0.94%	0.53%	0.87%	1.54%	1.26%	2.44%	3.37%	3.34%	4.89%	5.33%	3.01%	3.46%			
Low Duration Exchange Traded Fund	0.20%	0.22%	0.24%	0.19%											
Short Term Fund	0.00%	0.00%													
Government Money Market Fund		0.80%	0.35%		0.54%	2.26%	0.37%	0.63%	0.34%	0.56%	0.34%	0.32%			
Money Market Fund				3.13%	-						-				
Net Short Duration Instruments	-0.01%	-0.02%	-0.01%	-0.04%	0.00%	-0.01%	-0.01%	0.00%	0.00%	0.01%	0.00%	0.00%			
First Pillar	12.24%	12.03%	8.10%	7.32%	8.33%	11.06%	9.88%	9.30%	5.95%	5.68%	6.46%	6.11%	6.14%	6.25%	5.81%
US Eguities	1.12%	4:03%	2.30%	1.53%	0.55%	0.25%	0.25%	0.27%	0.28%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
RAE PLUS Fund	0.03%	0.55%	0.21%												
RAE Low Volatility PLUS Fund	0.41%	2.70%	1.74%	1.21%	0.55%	0.25%	0.25%	0.27%	0.28%						
RAE PLUS Small Fund	0.65%	0.74%	0.43%	0.32%											
StocksPLUS® Small Fund	0.02%	0.02%	Content.	00000											
Fundamental IndexPLUS™		0.00%													
StocksPLUS® Fund	0.00%	0.00%													
StocksPLUS® Absolute Return Fund	0.01%	0.01%			-			2			-				
Developed ex-US Equities	11.12%	8:00%	5.73%	5.79%	7.78%	10.81%	9.62%	9.03%	5:67%	5.68%	6.46%	6.11%	6.14%	6.25%	5.81%
RAE PLUS International Fund	3.16%	3.01%	1.60%	1.51%	1.56%	2.51%	3.45%	3.43%	0.50%	0.91%	1.33%	1.15%	-		
RAE Low Volatility PLUS Intl Fund	5.73%	3,79%	4.13%	4.24%	3.35%	5.31%	2.50%	1.80%	1.83%	1.73%	1.91%	1.86%			
StocksPLUS® International Fund (USD-Hedged)	0.01%	0.01%	4.13%	0.05%	2.58%	2.83%	2.94%	3.02%	3.08%	3.04%	3.22%	3.11%			
StocksPLUS® International Fund (Unhedged)	0.02%	0.02%	12		0.29%	0.16%	0.73%	0.77%	0.26%						
and a second sec	0.04.79	0.02.70	-	-	V.6979	0,1070	0.1.3.76	0.1179	0.2016		-				
EqS Global Dividend Fund	0.01%	0.01%													

Source: PIMCO



Attribution (Quarter)

VANGUARD TOTAL WORLD STOCK INDEX I

Holding	Holdings Based Style Trail (5 Years)			ears)	Portfolio Statistics		Market Capitalization Breakdo					
Time Peri	iod: 1/31/20	15 to 12/3	1/2019			Fund	Index		Fund	Ir		
					# of Holdings	8,193	7,067	Market Cap Giant %	45.5			
Gant					% Asset in Top 10 Holdings	10.4	9.1	Market Cap Large %	31.0			
Ĭ					Turnover Ratio %	7.0		Market Cap Mid %	18.1			
8					P/E Ratio	18.6	15.9	Market Cap Small %	5.0			
					P/B Ratio	2.2	1.6	Market Cap Micro %	0.5			
2					LT Earn Growth	8.9	8.2	Average Market Cap (mil)	45,268.0 2	3,7		
					Hist Earn Growth	8.4	5.1					
B					12 Mo Yield	2.3						
2 M												
Second Mal	Come Mail	Com	Come Gith	Hish-Ceth								

wn	Top 10 Holdings		
Index		Portf Weight %	3 Month Ret %
43.6	Apple Inc	2.17	31.46
31.3	Microsoft Corp	2.05	13.80
19.2	Amazon.com Inc	1.33	6.45
5.2	Facebook Inc A	0.86	15.26
0.7	Cmt Market Liquidity Rate	0.81	
3,757.8	JPMorgan Chase & Co	0.75	19.21
	Alphabet Inc Class C	0.73	9.68
	Alphabet Inc A	0.68	9.68
	Johnson & Johnson	0.65	13.48
	Berkshire Hathaway Inc B	0.57	8.88

Portfolio Benchmark Portfolio Benchmark Allocation Selection Active

Return

Effect Effect Return

Weights Return

8.42

8.27

3.10

6.37

9.06

13.96

8.05

14.25

9.68

3.97

2.68

3.36

9.16

0.02

-0.09

Weights

8.04

10.81

7.82

4.97

16.05

11.18

11.19

16.22

4.98

4.05

3.34

0.00

98.65

0.71

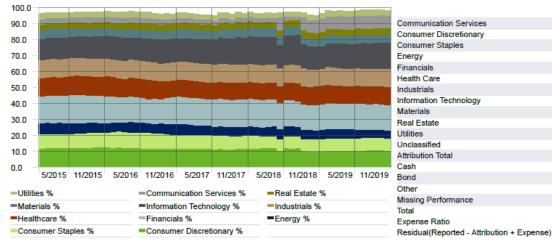
0.02

0.03

0.60

100.00

+ Vanguard Total World Stock Index I + FTSE Global All Cap ex US TR USD Historical Sector Allocations (5 Years)

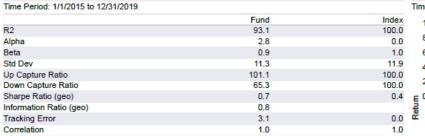


Communication Services Consumer Discretionary Consumer Staples

Source: Morningstar

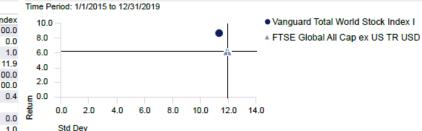
VANGUARD TOTAL WORLD STOCK INDEX I

Risk & Return Characteristics (5 Years)



Risk & Return Illustration (5 Years)

Rolling Risk (3 Years)



Rolling Return (3 Years)



	2010	Rank	2011	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank
Vanguard Total World Stock Index I	13.1	46	-7.7	48	17.4	40	23.0	63	4.0	34	-1.9	54	8.8	18	24.2	40	-9.7	52	26.8	43
FTSE Global All Cap ex US TR USD	13.2		-14.0		17.9		15.9		-3.1		-4.0		5.0		27.8		-14.4		22.2	



APPENDIX

NEPC, LLC

GLOSSARY OF TERMS

Alpha - Measures the relationship between the fund performance and the performance of another fund or benchmark index and equals the excess return while the other fund or benchmark index is zero.

Alpha Jensen - The average return on a portfolio over and above that predicted by the capital asset pricing model (CAPM), given the portfolio's beta and the average market return. Also known as the abnormal return or the risk adjusted excess return.

Annualized Excess Return over Benchmark - Annualized fund return minus the annualized benchmark return for the calculated return.

Annualized Return - A statistical technique whereby returns covering periods greater than one year are converted to cover a 12 month time span.

Beta - Measures the volatility or systematic risk and is equal to the change in the fund's performance in relation to the change in the assigned index's performance.

Information Ratio - A measure of the risk adjusted return of a financial security, asset, or portfolio.

Formula:

(Annualized Return of Portfolio - Annualized Return of Benchmark)/Annualized Standard Deviation(Period Portfolio Return – Period Benchmark Return). To annualize standard deviation, multiply the deviation by the square root of the number of periods per year where monthly returns per year equals 12 and quarterly returns is four periods per year.

R-Squared – Represents the percentage of a fund's movements that can be explained by movements in an index. R-Squared values range from 0 to 100. An R-Squared of 100 denotes that all movements of a fund are completely explained by movements in the index.

Sharpe Ratio - A measure of the excess return or risk premium per unit of risk in an investment asset or trading strategy.

Sortino Ratio - A method to differentiate between good and bad volatility in the Sharpe Ratio. The differentiation of up and down volatility allows the calculation to provide a risk adjusted measure of a security or fund's performance without upward price change penalties.

Formula:

Calculation Average (X-Y)/Downside Deviation (X-Y) * 2 Where X=Return Series X Y = Return Series Y which is the risk free return (91 day T-bills) Standard Deviation - The standard deviation is a statistical term that describes the distribution of results. It is a commonly used measure of volatility of returns of a portfolio, asset class, or security. The higher the standard deviation the more volatile the returns are.

Formula:

(Annualized Return of Portfolio – Annualized Return of Risk Free) / Annualized Standard Deviation (Portfolio Returns)

Tracking Error - Tracking error, also known as residual risk, is a measure of the degree to which a portfolio tracks its benchmark. It is also a measure of consistency of excess returns. Tracking error is computed as the annualized standard deviation of the difference between a portfolio's return and that of its benchmark.

Formula:

Tracking Error = Standard Deviation $(X-Y) * \sqrt{(\# of periods per year)}$ Where X = periods portfolio return and Y = the period's benchmark returnFor monthly returns, the periods per year = 12For quarterly returns, the periods per year = 4

Treynor Ratio - A risk-adjusted measure of return based on systematic risk. Similar to the Sharpe ratio with the difference being the Treynor ratio uses beta as the measurement of volatility.

Formula:

(Portfolio Average Return - Average Return of Risk-Free Rate)/Portfolio Beta

Up/Down Capture Ratio - A measure of what percentage of a market's returns is "captured" by a portfolio. For example, if the market declines 10% over some period, and the manager declines only 9%, then his or her capture ratio is 90%. In down markets, it is advantageous for a manager to have as low a capture ratio as possible. For up markets, the higher the capture ratio the better. Looking at capture ratios can provide insight into how a manager achieves excess returns. A value manager might typically have a lower capture ratio in both up and down markets, achieving excess returns by protecting on the downside, whereas a growth manager might fall more than the overall market in down markets, but achieve above-market returns in a rising market.

UpsideCapture = TotalReturn(FundReturns)/TotalReturns(BMReturn) when Period Benchmark Return is > = 0

DownsideCapture = TotalReturn(FundReturns)/TotalReturns(BMReturn) when Benchmark <0

Data Source: InvestorForce

INFORMATION DISCLAIMER AND REPORTING METHODOLOGY

Information Disclaimer

- Past performance is no guarantee of future results.
- All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.
- Some index returns displayed in this report or used in calculation of a policy, allocation or custom benchmark may not be available from the source or may be preliminary and subject to change.
- NEPC's source for portfolio pricing, calculation of accruals, and transaction information is the plan's custodial bank. Information on market indices and security characteristics is received from other sources external to NEPC. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.
- This report is provided as a management aid for the client's internal use only. Performance contained in this report does not constitute a recommendation by NEPC.
- This report may contain confidential or proprietary information and may not be copied or redistributed to any party not legally entitled to receive it.

Reporting Methodology

- The client's custodian bank is NEPC's preferred data source unless otherwise directed. NEPC reconciles custodian data to manager data. If the custodian cannot provide accurate data, manager data may be used.
- Trailing time period returns are determined by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of Return are annualized when the time period is longer than a year. Performance is presented gross and/or net of manager fees as indicated on each page.
- For managers funded in the middle of a month, the "since inception" return will start with the first full month, although actual inception dates and cash flows are taken into account in all Composite calculations.
- This report may contain forward-looking statements that are based on NEPC's estimates, opinions and beliefs, but NEPC cannot guarantee that any plan will achieve its targeted return or meet other goals.



AGENDA ITEM SUMMARY

- 1. NAME OF ITEM: Defined Contribution Plan Quarterly Review
- 2. INITIATED BY: Sven P. Bartholomew, Chair Pro tem
- **3. BOARD INFORMATION: X**
- 4. OUTCOME: Primary Outcome: Enhance fiscal positioning

BOARD ACTION:

BOARD POLICY: Section 709 - Investments

5. BACKGROUND:

Michael Pratico, Senior Vice President, and Barry Schmitt, Principal, with CAPTRUST Financial Advisors, will provide a quarterly update regarding the Defined Contribution Plan at the February 27, 2020 Investment Committee meeting.

Period Ending 12.31.19 | Q4 19

UNIVERSITY OF MAINE SYSTEM 4th Quarter, 2019

DEFINED CONTRIBUTION

QUARTERLY REVIEW

CAPTRUST 4208 Six Forks Road, Suite 1700 Raleigh, NC 27609

Our mission is to enrich the lives of our clients, colleagues and communities through sound financial advice, integrity, and a commitment to service beyond expectation.

IN THIS REVIEW

University of Maine System

Period Ending 12.31.19 | Q4 19

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University of Maine System Defined Contribution Plans

4th Quarter, 2019 Quarterly Review

prepared by:

Michael S. Pratico Senior Vice President | Financial Advisor

> Barron V. Schmitt Principal | Financial Advisor

Section 1
RETIREMENT INDUSTRY UPDATES

Section 2 MARKET COMMENTARY AND REVIEW

Section 3
PLAN INVESTMENT REVIEW

Section 4 FUND FACT SHEETS

Appendix

SECTION 1: RETIREMENT INDUSTRY UPDATES

University of Maine System

Period Ending 12.31.19 | Q4 19

SECTION 1: RETIREMENT INDUSTRY UPDATES

Industry Updates......

DEFINED CONTRIBUTION MARKETPLACE — INDUSTRY UPDATE

2020 PREDICTIONS: PERFECT VISION OR STILL A LITTLE HAZY?

It's that time of year again: the time we pull out our crystal ball and make predictions about developments affecting plan sponsors and their participants in the new year.

TECH CREATES TRANSFORMATIVE NEW OPPORTUNITIES AND RISK

- With the help of Big Data, machine learning, and artificial intelligence, plan service providers will better automate and individualize retirement planning.
- Managed accounts will increasingly gain popularity as a qualified default investment alternative (QDIA), perhaps blended with target date funds.
- The increasing number of channels for participant engagement will pose new cybersecurity and data protection risks for service providers and plan sponsors.

SPONSORS GRAPPLE WITH WORKFORCE DEMOGRAPHIC SHIFT

- Five generations now in the workforce, with millennials now making up the largest segment, will challenge employers.
- Items that have traditionally been viewed as perks will transform into valuable benefits, particularly student loan forgiveness, flexible work schedules, and wellness initiatives.
- With older and more diverse employee populations, it will become critical that wellness and benefit programs reflect the evolving realities of workforce demographics.

POLICYMAKERS MOVE THE NEEDLE ON RETIREMENT REFORM

- The SECURE Act's more than twodozen far-reaching provisions will begin to improve access to and enhancement of savers' outcomes in workplace retirement plans.
- As the SEC's 2019 advice reform package—known as Reg BI becomes effective, the Department of Labor (DOL) will be working to reprise a version of its fiduciary rule that was struck down by the courts in 2018.
- The DOL's electronic disclosure regs will lead to expansion in the use of email for retirement plan participant communications.

DEFINED CONTRIBUTION MARKETPLACE — INDUSTRY UPDATE

5

SECURE ACT PASSES

In December, as a part of the government's spending bill, Congress passed—and the president signed into law—legislation that includes the most comprehensive changes to private retirement plans in more than a decade. The Setting Every Community Up for Retirement Enhancement (SECURE) Act of 2019 is a combination of several bills that were introduced in the last Congress with bipartisan support and is expected to make it easier for employers to sponsor retirement plans for their employees.

IMPACTS MOST RETIREMENT PLANS

- Requires annual disclosure of lifetime income (pending DOL guidance)
- Requires long-term part-time workers to be eligible for 401(k) plans (effective 1.1.2021)
- Extends the current required minimum distribution requirements to age 72 (effective for anyone turning 70.5 after 1.1.2020)
- Modifies the treatment of custodial accounts on termination of 403(b) plans
- Allows penalty-free withdrawals for birth or adoption

SPECIFIC PLAN PROVISIONS

- Simplifies 401(k) safe harbor rules
- Raises auto-enrollment safe harbor cap to 15%
- Provides a safe harbor for lifetime-income provider selection
- Expands portability of lifetime income options
- Allows plans more time to adopt a safe harbor provision
- Eases rules for the creation of "open" multiple employer plans (MEPs)
- Modifies the nondiscrimination rules to protect longer-service participants

OUTCOMES

- Plan documents will likely need to be amended to comply with certain new regulations.
- Plan sponsors may wish to rethink optional plan provisions.
- Plan sponsors may need to adjust payroll feeds and files to account for long-term part-time employees.
- Service providers will need to update and invest in new technologies, such as:
 - Ability to support the new age-based rules
 - Required statement upgrades
 - Process and procedures for terminating individual contracts in 403(b) plan
 - New retirement income products, along with income and annuity portability
 - New scalable platforms and service models to serve the small-employer market segment
- Access to MEPs will expand, creating cost-effective savings plans for small employers, bringing the benefits of defined contribution plans to organizations of all sizes.

DEFINED CONTRIBUTION MARKETPLACE — INDUSTRY UPDATE

YEAR IN REVIEW

CAPTRUST KEY MEASURES

- More than \$350 billion of client assets under advisement, including over \$30 billion of institutional discretionary assets under management
- 48 advisor locations 11 new locations added in 2019
- 650 employees, a 29% increase from 2018
- CAPTRUST Community Foundation provided financial support to 85 charities enriching the lives of underprivileged children

INDUSTRY RECOGNITION

- *Financial Advisor Magazine* named CAPTRUST the No. 1 advisory firm for the fourth consecutive year in its annual RIA ranking.
- CAPTRUST advisors were featured on the National Association of Plan Advisors' top-advisor lists, including Top Women Advisors (9) and Aces (4), and the Financial Times Top 401 list (23).
- CAPTRUST was named to the *Triangle Business Journal*'s Best Places to Work list for the sixth time.

INVESTMENT RESEARCH

- More than 30 on-site visits and over 3,500 due diligence calls
- Interviews with over 350
 portfolio managers
- Annual oversight of more than 230 asset management firms
- Daily performance monitoring of more than 2,300 mutual funds and CITs

Data as of 12.31.2019

VENDOR MANAGEMENT

- More than 80 in-person visits with retirement plan service providers
- More than 180 vendor searches completed
- Created new database and application to automate capture, analysis, and tracking of client fee benchmarking data for faster and easier access

PARTICIPANT ENGAGEMENT

- Performed more than 30,000 individual advice sessions
- Expanded tools and services for executives and other key employees
- Launched several upgrades to captrustadvice.com, including videos, articles, and financial wellness tools
- Increased after-hours availability

NOTABLE INNOVATIONS

Period Ending 12.31.19 | Q4 19

- Released 2019
 Endowment and
 Foundation survey results
- Developed Blueprint Managed Advice discretionary managed account solution
- Upgraded data protection and cybersecurity standards

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Launched upgraded corporate website

SECTION 2: MARKET COMMENTARY AND REVIEW

University of Maine System

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SECTION 2: MARKET COMMENTARY AND REVIEW

Market Commentary
Market Review
Asset Class Returns
Index Performance

MARKET COMMENTARY

U.S. Stocks

8

STRONG FINISH TO 2019

All asset classes posted solid results for 2019. U.S. and international stocks and bonds performed well as the Federal Reserve and other central banks implemented policies to counter fears of slowing global economic growth. Despite distracting headlines along the way, patient investors were rewarded with generous gains during this news-driven year.

- While the economy grew only modestly in 2019, U.S. stocks posted their best year since 2013, aided by easing U.S.-China trade tensions and a boost from the Fed. The technology sector was especially strong last year.
- International developed and emerging market stocks also posted strong gains last year despite headwinds created by sluggish economic growth in Europe and China and a strong U.S. dollar.
- Bonds recorded their best year in more than a decade as interest rates fell significantly during the calendar year.
- Public real estate benefited from the helpful combination of low interest rates and favorable market demand.



Asset class returns are represented by the following indexes: S&P 500 Index (U.S. large-cap stocks), MSCI EAFE Index (international developed stocks), MSCI Emerging Markets Index (emerging market stocks), Bloomberg Barclays U.S. Aggregate Bond Index (U.S. bonds), and Dow Jones U.S. Real Estate Index (real estate).

DIGGING DEEPER: STOCKS AND BONDS

Equities

Equities				Fixed Income			
	Q4 2019	YTD 2019	Last 12 Months		12.31.19	9.30.19	12.31.18
U.S. Stocks	9.1%	31.5%	31.5%	1-Year U.S. Treasury Yield	1.59%	1.75%	2.63%
- Q4 Best Sector: Technology	14.4%	50.3%	50.3%	10-Year U.S. Treasury Yield	1.92%	1.68%	2.69%
- Q4 Worst Sector: Real Estate	-0.5%	29.0%	29.0%		QTD 2019	YTD 2019	Last 12 Months
International Stocks	8.2%	22.0%	22.0%		2019	2019	Montins
Emerging Market Stocks	11.8%	18.4%	18.4%	10-Year U.S. Treasury Total Return	-1.77%	8.90%	8.90%

Equities - Relative Performance by Market Capitalization and Style

	Q4	2019			YTC	2019			Last 1	2 Months	
	Value	Blend	Growth		Value	Blend	Growth		Value	Blend	Growth
Large	7.4%	9.1%	10.6%	Large	26.5%	31.5%	36.4%	Large	26.5%	31.5%	36.4%
Mid	6.4%	7.1%	8.2%	Mid	27.1%	30.5%	35.5%	Mid	27.1%	30.5%	35.5%
Small	8.5%	9.9%	11.4%	Small	22.4%	25.5%	28.5%	Small	22.4%	25.5%	28.5%

Asset class returns are represented by the following indexes: S&P 500 Index (U.S. stocks), MSCI EAFE Index (international stocks), and MSCI Emerging Markets Index (emerging market stocks). Relative performance by market capitalization and style is based upon the Russell US Style Indexes except for large-cap blend, which is based upon the S&P 500 Index. Sources: Bloomberg, U.S. Treasury

DIGGING DEEPER: FIXED INCOME MARKET

Interest Rates	3-Month	2-Year	5-Year	10-Year	30-Year	Mortgage Rate
September 2019	1.88%	1.63%	1.55%	1.68%	2.12%	3.72%
December 2019	1.55%	1.58%	1.69%	1.92%	2.39%	3.86%
Change	-0.33%	-0.05%	0.14%	0.24%	0.27%	0.14%

The Treasury yield curve steepened in the fourth quarter and is no longer inverted. Shorter maturity bond yields fell after the Federal Reserve cut overnight rates by 25 bps.

Bloomberg Barclays U.S. Aggregate Bond Index	Yield to Worst	Duration	Total Return Q4 2019	Spread	Treasury Rate	AA Spread	BBB Spread
September 2019	2.26%	5.78		0.46%	1.80%	0.55%	1.52%
December 2019	2.31%	5.87	0.18%	0.39%	1.92%	0.50%	1.25%
Change	0.05%	0.09		-0.07%	0.12%	-0.05%	-0.27%

After several strong quarters, the Bloomberg Barclays U.S. Aggregate Bond Index returned a modest 0.18% for the fourth quarter. A decline in BBB spreads supported performance, while an increase in overall interest rates held it back.

Bloomberg Barclays U.S. Long Credit Index	Yield to Worst	Duration	Total Return Q4 2019	Spread	Treasury Rate	AA Spread	BBB Spread
September 2019	3.64%	14.26		1.67%	1.97%	1.05%	2.10%
December 2019	3.63%	14.27	1.18%	1.39%	2.24%	0.91%	1.76%
Change	-0.01%	0.01		-0.28%	0.27%	-0.14%	-0.34%

The Bloomberg Barclays U.S. Long Credit Index returned 1.18% for the fourth quarter. Spread tightening, particularly in BBB-rated bonds drove returns, while an increase in long Treasury rates detracted from performance.

Sources: Bloomberg, U.S. Treasury, CAPTRUST Research

MARKET COMMENTARY

ECONOMIC OUTLOOK

The global economic picture typically consists of favorable attributes (tailwinds) and challenges (headwinds). Here, we provide our perspective on both and offer our view on which side has the upper hand.

TAILWINDS

Consumer Optimism



- The U.S. consumer, a key driver of the economy, remains healthy.
- With unemployment at a 50-year low and plentiful job openings, consumer confidence is near 10-year highs. Other consumer health measures remain stable.
- From here, continued employment growth will be influenced by business confidence, which has suffered from trade uncertainty.

More Stimulus

- The Fed lowered short-term interest rates and is once again expanding its balance sheet by buying Treasurys.
- Other central banks are also in stimulus mode. Their actions have put a floor under global growth, as shown by a bottoming of manufacturing indexes in the U.S., China, and Germany.
- Accommodative monetary policy has given investors a green light to buy risky assets like stocks.

A China Trade Truce...

- The U.S. and China have reached a phase one trade deal, although the details remain elusive.
- Despite the lack of specifics, the announcement indicates a positive direction and de-escalation of tensions, which has been enough to boost the spirits of investors and business executives.

HEADWINDS

...But Lingering Trade Uncertainty

• Despite the phase one announcement, investors are concerned that China trade tensions could re-escalate as phase two negotiations begin.



- With the 2020 election approaching, we could see trade rhetoric and tensions shift to other parts of the world.
- The potential for auto tariffs, for example, could threaten the fragile recoveries in Europe and China.

Geopolitical Uncertainty

- Investors remain wary of risks, including an early-2020 Brexit, U.S. elections, unrest in Hong Kong, and Middle East tensions.
- With no definitive Democrat frontrunner, the U.S. presidential outlook remains cloudy. Institutional investors expect the president's reelection, but his low approval rating and impeachment trial raise uncertainty.

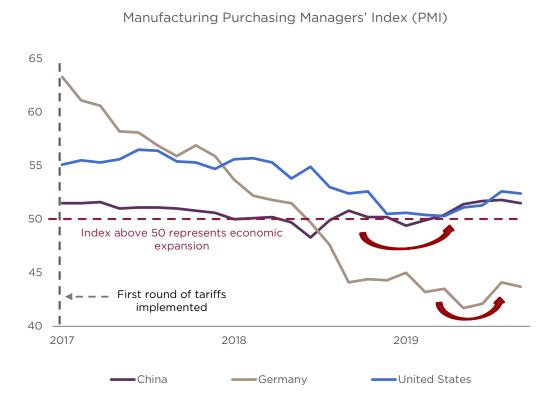
Corporate Earnings Worries

- In 2019, more than 90% of the S&P 500's return came from higher valuations, as opposed to earnings growth.
- While 2020 earnings estimates reflect an improvement, estimates tend to start high and decline as the future becomes clearer.
- Corporate profit margins may face pressure from rising input costs and higher wages in 2020.

2019 finished far better than it started, as recession fears ebbed, trade tensions cooled, and global monetary stimulus boosted investors' appetites for risky assets.

GLOBAL ECONOMIC STABILIZATION

Global economic activity is recovering, thanks to supportive monetary policy moves that have kept interest rates low and a better outlook for U.S.-China trade. Over the past two years, trade uncertainty has been a major headwind to global growth. But with waning U.S.-China tensions and the anticipatory export pull-forward behind us, global manufacturing activity, as reflected in Manufacturing Purchasing Managers' Index (PMI) data, has improved. Looking ahead, we believe there is further upside if the policy backdrop remains supportive.



Sources: Bloomberg, Markit, National Federation of Independent Business, CAPTRUST Research

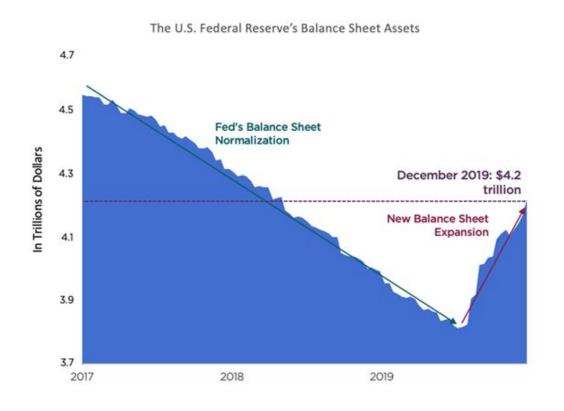
OBSERVATIONS

- China's stimulus over the past 18 months continues to support economic recovery, as shown by improving PMI readings since July. This is significant because China's manufacturing activity represents a leading indicator of global economic activity.
- Manufacturing activity in Germany's exportoriented economy has declined sharply since the start of the U.S.-China trade dispute. Germany's PMI, while still weak, has bottomed and started to recover.
- U.S. manufacturing PMI has remained in expansion over the course of trade dispute.
- In November, the NFIB's Small Business Optimism Index posted its largest monthover-month gain since May 2018.
- Two years after passage of the Tax Cuts and Jobs Act, which included sweeteners for small businesses, owners continue to hire, raise wages, and invest in their businesses.

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MORE STIMULUS FROM THE FED

The Federal Reserve reversed course with its monetary policy in 2019. It paused its balance sheet normalization program and expanded its purchases of U.S. Treasurys to provide market liquidity. In contrast to its four 2018 rate hikes, the Fed cut its policy rate three times in 2019, for a total reduction of 0.75%. Although we do not expect more cuts in 2020, these measures have boosted investor confidence and market returns.



Sources: Bloomberg, Federal Reserve, CAPTRUST Research

OBSERVATIONS

- Between 2009 and late 2014, the Fed's balance sheet ballooned as it conducted asset-purchase programs to support economic recovery.
- Starting in late 2017, the Fed's balance sheet shrank as a result of its balance sheet normalization program. But starting in October, the Fed began purchasing Treasurys, swelling its balance sheet to \$4.2 trillion by December.
- Interest rates remain supportive of growth, with a 1.75% fed funds rate—far lower than its 30-year average of 3%.
- Recession is more likely when real interest rates exceed growth rates. Today's inflation-adjusted fed funds rate holds near zero, well below the level that would restrict growth.
- The Treasury yield curve, the yield difference between short- and longer-term Treasurys, has steepened. This suggests improving confidence in future economic conditions.

MARKET COMMENTARY

CORPORATE EARNINGS WORRIES

From 2009 to 2018, most of the S&P 500 Index's price return was generated by earnings growth. In 2019, with very little earnings growth, more than 90% of the index's return was generated by price-to-earnings multiple expansion. This means that stock prices rose because investors were willing to pay more for a dollar of earnings. Although 2020 earnings expectations reflect an improvement from 2019's paltry levels, earnings estimates tend to start high and decline as the future becomes clearer.



OBSERVATIONS

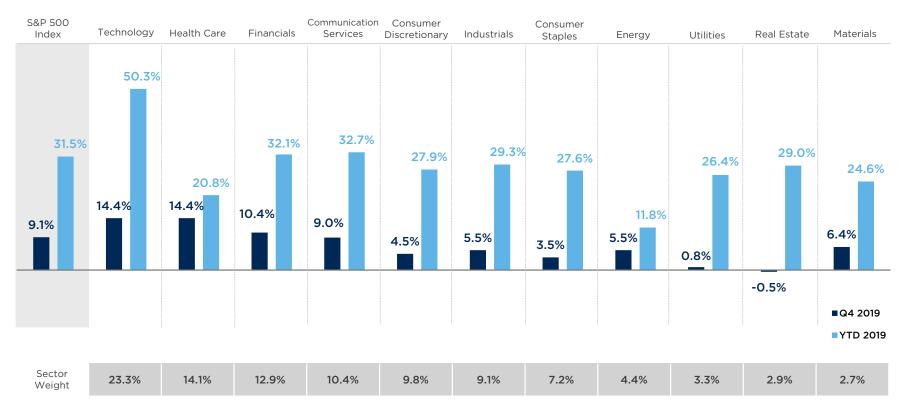
- Last year's increase in price-to-earnings multiples contributed to the S&P 500 Index's best price return since 2013, despite flat earnings growth. This was due in part to higher investor appetite for stocks after the Fed's move toward a stimulative policy stance. With the Fed likely on pause in 2020, market attention will shift toward corporate fundamentals.
- Wall Street analysts project S&P 500 stock profits to expand at a mid-to high-single-digit rate in 2020, compared with just 2% in 2019. They almost always overestimate future earnings and lower their projections as the forecast period nears.
- Rising labor and raw materials costs may compress margins in 2020. According to the NABE Business Condition Survey published in October, material costs rose for a 14th consecutive quarter, with more respondents reporting falling sales and anemic profit margins.

Sources: Bloomberg, National Association for Business Economics, CAPTRUST Research

4.1

DIGGING DEEPER: U.S. EQUITY MARKETS

The S&P 500 Index is a market-capitalization-weighted index of U.S. large-cap stocks across a diverse set of industry sectors. The stocks represented in these 11 sectors generated a range of returns in the most recent quarter and for the year-to-date period.



Returns by S&P 500 Sector

All calculations are cumulative total return, not annualized, including dividends for the stated period. Past performance is not indicative of future returns. Source: Bloomberg

ASSET CLASS RETURNS

2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
International Equities 26.86%	Large-Cap Growth 11.81%	Fixed Income 5.08%	Mid-Cap Growth 46.29%	Small-Cap Growth 29.09%	Fixed Income 7.84%	Mid-Cap Value 18.51%	Small-Cap Growth 43.30%	Mid-Cap Value 14.75%	Large-Cap Growth 5.67%	Small-Cap Value 31.74%	Large-Cap Growth 30.21%	Cash 1.87%	Large-Cap Growth 36.39%
Small-Cap Value 23.48%	International Equities 11.63%	Cash 1.51%	Large-Cap Growth 37.21%	Mid-Cap Growth 26.38%	Large-Cap Growth 2.64%	Small-Cap Value 18.05%	Mid-Cap Growth 35.74%	Large-Cap Value 13.45%	Fixed Income 0.55%	Mid-Cap Value 20.00%	International Equities 25.62%	Fixed Income 0.01%	Mid-Cap Growth 35.47%
Large-Cap Value 22.25%	Mid-Cap Growth 11.43%	Small-Cap Value -28.92%	Small-Cap Growth 34.47%	Mid-Cap Value 24.75%	Large-Cap Value 0.39%	International Equities 17.90%	Small-Cap Value 34.52%	Large-Cap Growth 13.05%	Cash 0.05%	Large-Cap Value 17.34%	Mid-Cap Growth 25.27%	Large-Cap Growth -1.51%	Small-Cap Growth 25.52%
Mid-Cap Value 20.22%	Fixed Income 7.39%	Large-Cap Value -36.85%	Mid-Cap Value 34.21%	Small-Cap Value 24.50%	Cash 0.10%	Large-Cap Value 17.51%	Large-Cap Growth 33.48%	Mid-Cap Growth 11.90%	Mid-Cap Growth -0.20%	Small-Cap Growth 11.32%	Small-Cap Growth 22.17%	Mid-Cap Growth -4.75%	Mid-Cap Value 27.06%
Small-Cap Growth 13.35%	Small-Cap Growth 7.05%	Mid-Cap Value -38.44%	International Equities 32.46%	Large-Cap Growth 16.71%	Mid-Cap Value -1.38%	Mid-Cap Growth 15.81%	Mid-Cap Value 33.46%	Fixed Income 5.97%	International Equities -0.39%	Mid-Cap Growth 7.33%	Large-Cap Value 13.66%	Large-Cap Value -8.27%	Large-Cap Value 26.54%
Mid-Cap Growth 10.66%	Cash 4.71%	Large-Cap Growth -38.44%	Small-Cap Value 20.58%	Large-Cap Value 15.51%	Mid-Cap Growth -1.65%	Large-Cap Growth 15.26%	Large-Cap Value 32.53%	Small-Cap Growth 5.60%	Small-Cap Growth -1.38%	Large-Cap Growth 7.08%	Mid-Cap Value 13.34%	Small-Cap Growth -9.31%	International Equities 22.66%
Large-Cap Growth 9.07%	Large-Cap Value -0.17%	Small-Cap Growth -38.54%	Large-Cap Value 19.69%	International Equities 8.21%	Small-Cap Growth -2.91%	Small-Cap Growth 14.59%	International Equities 23.29%	Small-Cap Value 4.22%	Large-Cap Value -3.83%	Fixed Income 2.65%	Small-Cap Value 7.84%	Mid-Cap Value -12.29%	Small-Cap Value 22.39%
Cash 5.08%	Mid-Cap Value -1.42%	International Equities -43.06%	Fixed Income 5.24%	Fixed Income 5.89%	Small-Cap Value -5,50%	Fixed Income 4.22%	Cash 0.07%	Cash 0.03%	Mid-Cap Value -4.78%	International Equities 1.51%	Fixed Income 3.54%	Small-Cap Value -12.86%	Fixed Income 8.72%
Fixed Income 4.08%	Small-Cap Value -9.78%	Mid-Cap Growth -44.32%	Cash 0.21%	Cash 0.13%	International Equities -11.73%	Cash 0.11%	Fixed Income -2.02%	International Equities -4.48%	Small-Cap Value -7.47%	Cash 0.33%	Cash 0.86%	International Equities -13.36%	Cash 2.28%

Small-Cap Value Stocks (Russell 2000 Value) Small-Cap Growth Stocks (Russell 2000 Growth) Large-Cap Growth Stocks (Russell 1000 Growth) Large-Cap Value Stocks (Russell 1000 Value) Mid-Cap Growth Stocks (Russell Mid-Cap Growth) Mid-Cap Value Stocks (Russell Mid-Cap Value) International Equities (MSCI EAFE) Fixed Income (Bloomberg Barclays U.S. Aggregate Bond)

Cash (Merrill Lynch 3-Month Treasury Bill)

The information contained in this report is from sources believed to be reliable but not warranted by CAPTRUST Financial Advisors to be accurate or complete.

INDEX PERFORMANCE

Russell 1000 Value7.41%26.54%-8.27%13.66%17.34%-3.83%13.45%26.54%9.68%8.29%Russell 10009.04%31.43%-4.78%21.69%12.05%0.92%13.24%31.43%15.05%11.48%Russell 1000 Growth10.62%36.39%-1.51%30.21%7.08%5.67%13.05%36.39%20.49%14.63%Russell Mid-Cap Value Index6.36%27.06%-12.29%13.34%20.00%-4.78%14.75%27.06%8.10%7.62%Russell Mid-Cap Index7.06%30.54%-9.06%18.52%13.80%-2.44%13.22%30.54%12.06%9.33%Russell Mid-Cap Growth Index8.17%35.47%-4.75%25.27%7.33%-0.20%11.90%35.47%17.36%11.60%MSCI EAFE8.21%22.66%-13.36%25.62%1.51%-0.39%-4.48%22.66%10.11%6.18%Russell 2000 Value8.99%22.13%-13.78%27.77%5.01%-7.47%4.22%22.39%4.77%6.99%Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.38%5.66%28.48%19.94%33.4%MSCI Emerging Markets11.93%28.48%-9.31%22.17%11.32%-1.48%22.55%4.77%6.99%Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.38%5.66%28.48%19.9%6.01%Dow Jones U.	INDEXES	Q4 2019	YTD	2018	2017	2016	2015	2014	1 YEAR	3 YEAR	5 YEAR	10 YEAR
Bloomberg Barclays Intermediate Govt 0.01% 5.20% 1.43% 1.14% 1.05% 1.18% 2.52% 5.20% 2.57% 1.33% Bloomberg Barclays Intermediate Govt/Credit 0.37% 6.36% 0.86% 2.16% 2.08% 0.30% 9.05% 7.54% 4.17% 3.53% Bloomberg Barclays Intermediate Govt/Credit 0.98% 9.52% 0.01% 3.64% 2.08% 0.00% 4.16% 9.52% 4.03% 3.05% Bloomberg Barclays Aggregate Bond 0.18% 9.52% 0.01% 3.64% 2.05% 0.75% 9.74% 14.54% 5.92% 4.05% Bloomberg Barclays Corporate IG Bond 1.18% 14.42% -2.81% 6.42% 0.11% -0.66% 7.46% 14.22% 6.37% 6.13% Bloomberg Barclays Corporate IG Bond 1.18% 14.32% -2.08% 7.50% 17.13% 4.47% 2.45% 4.02% 2.37% 6.13% Bloomberg Barclays Corporate 0.37% 3.143% 2.08% 1.06% 1.74% 1.52% 1.64% 4.22% 2.31% 1.65% 3.14% 4.25% 2.31%	90-Day U.S. Treasury	0.46%	2.28%	1.87%	0.86%	0.33%	0.05%	0.03%	2.28%	1.67%	1.07%	0.58%
Bloomberg Barclays Muni Bond 0.74% 7.54% 1.28% 5.45% 0.25% 3.30% 9.05% 7.54% 4.72% 3.53% Bloomberg Barclays Intermediate Govt/Credit 0.37% 6.80% 0.28% 2.14% 2.08% 1.07% 3.13% 6.80% 3.26% 0.07% 3.13% 6.80% 3.26% 0.07% 3.13% 6.80% 3.26% 0.55% 5.97% 8.27% 4.03% 3.50% Bloomberg Barclays Aggregate Bond 0.18% 8.72% 0.01% 3.54% 2.62% 6.11% -0.68% 7.46% 14.54% 5.92% 4.60% Bloomberg Barclays Gobal Aggregate 0.49% 6.84% -1.20% 7.39% 2.09% -3.15% 0.59% 6.84% 4.27% 2.13% Bloomberg Barclays Gobal Aggregate 0.49% 6.84% -1.20% 7.39% 2.03% -3.15% 0.59% 6.84% 6.27% 2.13% 1.06% 0.44% 15.27% 11.06% Sape Dol 9.07% 3.143% -4.78% 2.18% <	Bloomberg Barclays Government 1-3 Year	0.51%	3.59%	1.58%	0.45%	0.87%	0.57%	0.64%	3.59%	1.86%	1.40%	1.25%
Bloomberg Barclays Intermediate Govt/Credit 0.37% 6.80% 0.88% 2.14% 2.08% 1.07% 3.13% 6.80% 3.24% 2.57% Bloomberg Barclays Intermediate Credit 0.98% 9.52% 0.01% 3.67% 3.68% 0.90% 4.16% 9.52% 4.33% 3.60% Bloomberg Barclays Comparte IG Bond 118% 14.54% -2.51% 6.42% 6.11% -0.66% 7.46% 14.54% 5.22% 4.60% Bloomberg Barclays Global Aggregate 0.49% 6.84% -1.20% 7.39% 2.09% -3.15% 0.59% 6.84% 4.27% 2.31% Bloomberg Barclays U.S. Long Corporate 1.33% 23.89% -7.24% 12.09% 10.97% -4.61% 15.73% 23.99% 8.81% 6.40% Stop Soo 9.07% 31.49% -4.38% 21.81% 11.96% 13.40% 35.23% 18.69% 13.45% 26.54% 8.69% 13.43% 16.50% 0.21% 10.04% 25.34% 15.73% 12.59% Dav Jones Industrial Average 6.67% 25.43% 26.84% 14.29% 21.54%	Bloomberg Barclays Intermediate Govt	0.01%	5.20%	1.43%	1.14%	1.05%	1.18%	2.52%	5.20%	2.57%	1.99%	2.38%
Bloomberg Barclays Intermediate Credit 0.98% 9.52% 0.01% 3.67% 3.68% 0.90% 4.16% 9.52% 4.33% 3.50% Bloomberg Barclays Agregate Bond 0.18% 8.72% 0.01% 3.54% 0.55% 5.97% 8.72% 4.03% 3.05% Bloomberg Barclays Corporate OB ond 1.18% 14.54% -2.51% 6.42% 6.11% 0.68% 7.46% 14.54% -2.92% 4.60% Bloomberg Barclays Lols Long Corporate 1.33% 23.89% 7.24% 12.09% 10.97% -4.61% 15.73% 12.28% 11.70% SaP 500 9.07% 31.49% -4.38% 21.83% 11.96% 13.49% 15.27% 11.70% Dow Jones Industrial Average 6.67% 25.34% -3.88% 28.24% 7.50% 5.73% 13.40% 15.73% 13.40% 15.27% 11.70% Dow Jones Industrial Average 6.67% 25.34% -3.88% 28.24% 7.50% 5.73% 13.40% 15.27% 13.40% 14.57% 22.	Bloomberg Barclays Muni Bond	0.74%	7.54%	1.28%	5.45%	0.25%	3.30%	9.05%	7.54%	4.72%	3.53%	4.34%
Bloomberg Barclays Aggregate Bond 0.18% 8.72% 0.01% 3.54% 2.65% 0.55% 5.97% 8.72% 4.03% 3.05% Bloomberg Barclays Gorporate (G Bond 1.18% 14.32% -2.55% 6.42% 6.11% -0.68% 7.46% 14.52% 5.92% 4.60% Bloomberg Barclays Global Aggregate 0.49% 6.84% -1.20% 7.39% 2.09% -3.15% 0.59% 6.84% 4.27% 2.31% Bloomberg Barclays Global Aggregate 0.49% 6.84% -1.20% 7.39% 2.09% -3.15% 0.59% 6.84% 4.27% 2.31% Bloomberg Barclays Long Corporate 1.33% 3.149% -4.38% 21.83% 11.96% 0.3149% 15.27% 11.73% 2.89% 0.81% 15.69% 0.14% 25.34% 15.73% 12.89% 13.64% 15.73% 13.64% 15.73% 13.64% 15.73% 13.64% 14.65% 14.65% 13.64% 26.54% 9.64% 13.65% 13.45% 26.54% 9.64% 14.65% 13.65% 13.45% 14.65% 14.65% 13.64% 14.65% 13.64% </td <td>Bloomberg Barclays Intermediate Govt/Credit</td> <td>0.37%</td> <td>6.80%</td> <td>0.88%</td> <td>2.14%</td> <td>2.08%</td> <td>1.07%</td> <td>3.13%</td> <td>6.80%</td> <td>3.24%</td> <td>2.57%</td> <td>3.05%</td>	Bloomberg Barclays Intermediate Govt/Credit	0.37%	6.80%	0.88%	2.14%	2.08%	1.07%	3.13%	6.80%	3.24%	2.57%	3.05%
Bloomberg Barclays Corporate IG Bond 118% 14.54% -2.51% 6.42% 6.11% -0.68% 7.46% 14.54% 5.92% 4.60% Bloomberg Barclays Hiph Yield 2.61% 14.32% -2.08% 7.50% 17.13% -4.47% 2.45% 14.32% 6.37% 6.13% Bloomberg Barclays LOS. Long Corporate 1.33% 23.89% -7.24% 12.09% 10.97% -4.61% 15.73% 23.89% 6.40% SAP 500 9.07% 31.49% -4.38% 21.83% 11.96% 13.86% 31.49% 15.27% 17.0% Dow Jones Industrial Average 6.67% 25.34% -3.48% 28.24% 7.50% 5.73% 13.40% 35.23% 18.63% 11.88% 18.69% 11.87% 13.63% 13.63% 13.63% 13.63% 13.63% 15.05% 13.63% 15.05% 13.63% 15.05% 13.63% 13.63% 14.63% 4.83% 14.84% 4.83% 14.85% 14.63% 4.25% 13.63% 15.65% 15.05% 15.05% 15.05% 15.05% 14.63% 14.63% 14.63% 4.63% 14.63%	Bloomberg Barclays Intermediate Credit	0.98%	9.52%	0.01%	3.67%	3.68%	0.90%	4.16%	9.52%	4.33%	3.50%	4.25%
Bloomberg Barclays High Yield 2.61% 14.32% -2.08% 7.50% 17.13% -4.47% 2.45% 14.32% 6.37% 6.13% Bloomberg Barclays Global Aggregate 0.49% 6.84% +1.20% 7.39% 2.09% -3.15% 0.59% 6.84% 4.27% 2.31% Bloomberg Barclays U.S. Long Corporate 1.33% 23.89% -7.24% 12.09% 10.97% 4.61% 15.73% 23.89% 8.81% 6.67% Dow Jones Industrial Average 6.67% 25.34% -3.48% 28.11% 16.50% 0.21% 10.04% 25.34% 15.67% 12.69% NASDAQ Composite 12.17% 35.23% -3.88% 28.24% 7.50% 5.73% 13.40% 50.55% 13.65% 17.34% -3.83% 13.65% 17.34% -3.83% 15.65% 13.64% 13.65% 17.34% -3.67% 13.65% 17.65% 5.73% 13.64% 16.04% 16.85% 14.75% 26.64% 9.66% 8.29% 13.64% 10.65% 15.67% 15.65% 15.65% 15.67% 15.65% 15.65% 15.67% 15.65% <td< td=""><td>Bloomberg Barclays Aggregate Bond</td><td>0.18%</td><td>8.72%</td><td>0.01%</td><td>3.54%</td><td>2.65%</td><td>0.55%</td><td>5.97%</td><td>8.72%</td><td>4.03%</td><td>3.05%</td><td>3.75%</td></td<>	Bloomberg Barclays Aggregate Bond	0.18%	8.72%	0.01%	3.54%	2.65%	0.55%	5.97%	8.72%	4.03%	3.05%	3.75%
Bloomberg Barclays Global Aggregate 0.49% 6.84% -1.20% 7.39% 2.09% -3.15% 0.59% 6.84% 4.27% 2.31% Bloomberg Barclays US. Long Corporate 1.33% 23.89% -7.24% 12.09% 10.97% -4.61% 15.73% 23.89% 8.81% 6.640% SAP 500 9.07% 31.49% -4.38% 21.83% 11.96% 13.49% 31.43% 15.73% 12.81% 11.50% 0.21% 10.04% 25.34% 15.73% 12.59% Dav Jones Industrial Average 6.67% 25.34% -3.48% 28.24% 7.50% 5.73% 13.40% 35.23% 18.57% 13.65% NASDAQ Composite 12.17% 25.64% +8.27% 13.66% 17.34% -3.83% 13.45% 26.54% 9.66% 8.29% Russell 1000 Growth 10.62% 36.39% -1.15% 30.21% 7.08% 5.67% 13.05% 36.39% 20.49% 14.25% 22.44% 13.22% 30.54% 14.63% Russell Mid-Cap Index 7.06% 35.47% -4.75% 25.27% 7.33% -0.20% <	Bloomberg Barclays Corporate IG Bond	1.18%	14.54%	-2.51%	6.42%	6.11%	-0.68%	7.46%	14.54%	5.92%	4.60%	5.54%
Bloomberg Barclays U.S. Long Corporate 1.33% 23.89% -7.24% 12.09% 10.97% -4.61% 15.73% 23.89% 6.80% SAP 500 9.07% 31.49% -4.38% 21.83% 11.96% 13.86% 31.49% 15.27% 11.70% Dow Jones Industrial Average 6.67% 25.34% -3.48% 28.24% 7.50% 5.73% 13.40% 52.23% 18.57% 13.66% NASDAQ Composite 7.41% 26.54% +8.27% 13.66% 17.34% -3.83% 13.45% 26.54% 9.68% 8.29% Russell 1000 Value 7.41% 26.54% +8.27% 13.66% 17.34% -3.63% 13.43% 20.49% 14.63% Russell 1000 Growth 10.62% 50.39% -1.51% 30.21% 7.06% 51.75% 13.66% 17.34% 14.75% 27.06% 8.10% 7.62% Russell Mid-Cap Value Index 6.36% 27.06% 14.29% 13.34% 20.00% -4.78% 14.75% 27.06% 8.10% 7.62%	Bloomberg Barclays High Yield	2.61%	14.32%	-2.08%	7.50%	17.13%	-4.47%	2.45%	14.32%	6.37%	6.13%	7.57%
S&P 500 9.07% 31.49% -4.38% 21.83% 11.96% 1.38% 31.69% 31.49% 15.27% 11.70% Dow Jones Industrial Average 6.67% 25.34% -5.48% 28.11% 16.50% 0.21% 10.04% 25.34% 15.73% 12.59% NASDAQ Composite 12.17% 35.23% -8.26% 7.50% 5.73% 13.40% 35.23% 18.57% 13.63% Russell 1000 Value 7.41% 26.54% -8.27% 13.66% 17.34% -5.33% 13.45% 26.54% 9.68% 8.29% Russell 1000 Growth 10.62% 36.39% -1.51% 30.21% 7.08% 5.67% 13.05% 36.39% 21.48% Russell Mid-Cap lade Index 6.36% 27.06% 11.22% 13.80% -2.44% 13.24% 30.54% 12.06% 9.33% Russell Mid-Cap Index 8.17% 35.47% -4.75% 25.27% 7.33% -0.20% 11.90% 35.47% 17.66% 11.60% MSCI ACWI ex U.S. 8.99% 22.13% -13.76% 25.62% 1.15% -0.29% -4.48%	Bloomberg Barclays Global Aggregate	0.49%	6.84%	-1.20%	7.39%	2.09%	-3.15%	0.59%	6.84%	4.27%	2.31%	2.48%
Dow Jones Industrial Average 6.67% 25.34% -3.48% 28.11% 16.50% 0.21% 10.04% 25.34% 15.73% 12.59% NASDAQ Composite 12.17% 35.23% -3.88% 28.24% 7.50% 5.73% 13.40% 35.23% 18.57% 13.63% Russell 1000 Value 7.41% 26.54% -8.27% 13.66% 17.34% -3.83% 13.45% 26.54% 9.66% 8.29% Russell 1000 Growth 10.62% 36.39% -1.51% 30.21% 7.08% 5.67% 13.05% 36.39% 20.49% 14.63% Russell Mid-Cap Value Index 6.36% 27.06% 112.29% 13.34% 20.00% -4.78% 14.75% 27.06% 8.10% 7.62% Russell Mid-Cap Growth Index 8.17% 35.47% -7.35% 2.24% 13.80% -2.44% 13.22% 3.547% 17.35% 17.66% 11.60% 11.60% 11.60% 11.60% 11.60% 14.65% 22.13% -4.41% 22.66% 10.11% 6.16%	Bloomberg Barclays U.S. Long Corporate	1.33%	23.89%	-7.24%	12.09%	10.97%	-4.61%	15.73%	23.89%	8.81%	6.40%	7.99%
NASDAQ Composite 12.17% 35.23% -3.88% 28.24% 7.50% 5.73% 13.40% 35.23% 18.57% 13.63% Russell 1000 Value 7.41% 26.54% -6.27% 13.66% 17.34% -3.83% 13.45% 26.54% 9.68% 8.29% Russell 1000 Growth 10.62% 36.33% -1.51% 30.21% 7.06% 56.73% 13.05% 21.44% 31.43% 15.05% 11.48% Russell Mid-Cap Value Index 6.36% 27.06% -12.29% 13.34% 20.00% -4.78% 14.75% 27.06% 810% 7.62% Russell Mid-Cap Value Index 6.36% 27.06% -12.29% 13.34% 20.00% -4.78% 14.75% 27.06% 810% 7.62% Russell Mid-Cap Index 7.06% 30.54% -9.06% 18.52% 13.80% -2.44% 13.22% 30.54% 12.06% 9.33% Russell 2000 value 8.17% 22.13% -13.78% 27.77% 5.01% -5.25% -3.44% 22.66% 10.11% 6.18% Russell 2000 value 8.49% 22.39% -	S&P 500	9.07%	31.49%	-4.38%	21.83%	11.96%	1.38%	13.69%	31.49%	15.27%	11.70%	13.56%
Russell 1000 Value7.41%26.54%-8.27%13.66%17.34%-3.83%13.45%26.54%9.68%8.29%Russell 10009.04%31.43%-4.78%21.69%12.05%0.92%13.24%31.43%15.05%11.48%Russell 1000 Growth10.62%36.39%-1.51%30.21%7.08%5.67%13.05%36.39%20.49%14.63%Russell Mid-Cap Value Index6.36%27.06%-12.29%13.34%20.00%-4.78%13.22%30.54%12.06%9.33%Russell Mid-Cap Growth Index8.17%35.47%-4.75%25.27%7.33%-0.20%11.90%35.47%17.36%11.60%MSCI EAFE8.21%22.66%-13.36%25.62%1.51%-0.39%-4.48%22.66%10.11%6.18%RUSSell 2000 Value8.49%22.13%-12.86%7.84%31.74%-7.47%4.22%22.39%4.77%6.99%Russell 2000 Growth9.94%25.52%-11.01%14.65%21.31%-4.41%4.89%25.52%8.59%8.23%Russell 2000 Growth11.33%18.09%-14.25%37.75%11.60%-14.60%-18.80%11.99%6.01%ROSCI EAFE/OWH11.33%28.48%-9.31%22.17%11.32%-1.38%5.60%2.84%12.49%9.34%Dow Jones U.S. Real Estate Index0.79%28.92%-4.03%9.84%7.56%2.14%27.24%28.92%10.77%8.35%Dow Jon	Dow Jones Industrial Average	6.67%	25.34%	-3.48%	28.11%	16.50%	0.21%	10.04%	25.34%	15.73%	12.59%	13.40%
Russell 10009.04%31.43%-4.78%21.69%12.05%0.92%13.24%31.43%15.05%11.48%Russell 1000 Growth10.62%36.39%-1.51%30.21%7.08%5.67%13.05%36.39%20.49%14.63%Russell Mid-Cap Value Index6.36%27.06%-12.29%13.34%20.00%-4.78%14.75%27.06%8.10%7.62%Russell Mid-Cap Growth Index7.06%30.54%-9.06%18.52%13.80%-2.44%13.22%30.54%12.06%9.33%Mussell Mid-Cap Growth Index8.17%55.47%-4.75%25.62%1.51%-0.39%-4.48%22.66%10.11%6.18%MSCI EAFE8.21%22.66%-13.36%25.62%1.51%-0.39%-4.48%22.66%10.11%6.18%MSCI ACWI ex U.S.8.99%22.13%-13.78%27.77%5.01%-5.25%-3.44%22.13%10.40%6.01%Russell 2000 Value8.49%22.59%-10.11%16.56%21.31%-4.41%4.99%25.52%8.59%8.23%Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.38%5.60%28.48%12.49%9.34%MSCI Emerging Markets11.93%18.90%-14.25%37.75%11.60%-14.60%-18.2%18.90%11.99%6.01%Dow Jones U.S. Real Estate Index0.79%2.89%-4.03%9.84%7.56%2.14%0.75%2.33%2.13%1.4	NASDAQ Composite	12.17%	35.23%	-3.88%	28.24%	7.50%	5.73%	13.40%	35.23%	18.57%	13.63%	14.74%
Russell 1000 Growth10.62%36.39%-1.51%30.21%7.08%5.67%13.05%36.39%20.49%14.63%Russell Mid-Cap Value Index6.36%27.06%-12.29%13.34%20.00%-4.78%14.75%27.06%8.10%7.62%Russell Mid-Cap Index7.06%30.54%-9.06%18.52%13.80%-2.44%13.22%30.54%12.06%9.33%Russell Mid-Cap Growth Index8.17%35.47%-4.75%25.27%7.33%-0.20%11.90%35.47%17.66%16.60%MSCI EAFE8.21%22.666%-13.36%25.62%1.51%-0.39%-4.48%22.16%10.11%6.18%MSCI ACWI ex U.S.8.49%22.39%-12.86%7.84%31.74%-7.47%4.22%22.39%4.77%6.99%Russell 2000 Value8.49%25.52%-11.01%14.65%21.31%-4.41%4.89%25.52%8.59%8.23%Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.36%5.60%28.46%12.49%9.54%Dow Jones U.S. Real Estate Index0.79%28.92%-14.25%37.75%11.60%-14.60%-1.82%18.90%11.99%6.01%Dow Jones U.S. Real Estate Index0.79%2.37%-0.49%3.39%0.31%2.66%0.79%4.37%2.40%2.07%Consumer Price Index (Inflation)0.17%2.38%1.91%2.11%2.07%0.73%0.76%2.38%2.	Russell 1000 Value	7.41%	26.54%	-8.27%	13.66%	17.34%	-3.83%	13.45%	26.54%	9.68%	8.29%	11.80%
Russell Mid-Cap Value Index6.36%27.06%-12.29%13.34%20.00%-4.78%14.75%27.06%8.10%7.62%Russell Mid-Cap Index7.06%30.54%-9.06%18.52%13.80%-2.44%13.22%30.54%12.06%9.33%Russell Mid-Cap Growth Index8.17%35.47%-4.75%25.27%7.33%-0.20%11.90%35.47%17.36%11.60%MSCI EAFE8.21%22.66%-13.36%25.62%1.51%-0.39%-4.48%22.66%10.11%6.18%MSCI ACWI ex U.S.8.99%22.13%-13.78%27.77%5.01%-5.25%-3.44%22.13%10.40%6.99%Russell 2000 Value8.49%22.39%-12.86%7.84%31.74%-7.47%4.22%22.39%4.77%6.99%Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.38%5.60%28.48%12.49%9.34%MSCI Emerging Markets11.93%28.48%-9.31%22.17%11.32%-1.38%5.60%28.48%12.49%9.34%Dow Jones U.S. Real Estate Index1.57%4.37%-0.49%3.39%0.31%2.86%0.79%4.37%2.40%2.07%Consumer Price Index (Inflation)0.17%2.38%1.91%2.11%2.07%0.73%0.76%2.38%2.13%1.84%25% S&P 500/5% MSCI EAFE/50% BB Agg3.60%16.79%-2.44%10.90%5.43%0.95%7.21%16.79%8.1	Russell 1000	9.04%	31.43%	-4.78%	21.69%	12.05%	0.92%	13.24%	31.43%	15.05%	11.48%	13.54%
Russell Mid-Cap Index7.06%30.54%-9.06%18.52%13.80%-2.44%13.22%30.54%12.06%9.33%Russell Mid-Cap Growth Index8.17%35.47%-4.75%25.27%7.33%-0.20%11.90%35.47%17.36%11.60%MSCI EAFE8.21%22.66%-13.36%25.62%1.51%-0.39%-4.48%22.66%10.11%6.18%MSCI ACWI ex U.S.8.99%22.13%-13.78%27.77%5.01%-5.25%-3.44%22.13%10.40%6.01%Russell 2000 Value8.49%22.39%-12.86%7.84%31.74%-7.47%4.22%22.39%4.77%6.99%Russell 2000 Growth11.39%28.48%-9.31%21.11%14.65%21.31%-4.41%4.89%25.52%8.59%8.23%Russell 2000 Growth11.39%28.49%-9.31%22.17%11.32%-1.38%5.60%2.84%12.49%9.34%MSCI Emerging Markets11.33%18.90%-14.25%37.75%11.60%-14.60%-1.82%18.90%11.99%6.01%Dow Jones U.S. Real Estate Index0.79%28.92%-4.03%9.84%7.56%2.14%27.24%28.92%10.77%8.35%Consumer Price Index (Inflation)0.17%2.38%1.91%2.11%2.07%0.73%0.76%2.38%2.13%1.84%25% S&& 500/5% MSCI EAFE/70% BB Agg2.66%14.96%-1.55%8.93%5.00%0.95%7.21%16.79%<	Russell 1000 Growth	10.62%	36.39%	-1.51%	30.21%	7.08%	5.67%	13.05%	36.39%	20.49%	14.63%	15.22%
Russell Mid-Cap Growth Index8.17%35.47%-4.75%25.27%7.33%-0.20%11.90%35.47%17.36%11.60%MSCI EAFE8.21%22.66%-13.36%25.62%1.51%-0.39%-4.48%22.66%10.11%6.18%MSCI ACWI ex U.S.8.99%22.13%-13.78%27.77%5.01%-5.25%-3.44%22.13%10.40%6.01%Russell 2000 Value8.49%22.39%-12.86%7.84%31.74%-7.47%4.22%22.39%4.77%6.99%Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.38%5.60%28.48%12.49%9.34%MSCI Emerging Markets11.93%28.48%-9.31%22.17%11.32%-1.38%5.60%28.48%12.49%9.34%Dow Jones U.S. Real Estate Index0.79%28.92%-40.3%9.84%7.56%2.14%27.24%28.92%10.77%8.35%HFRX Absolute Return Index1.57%4.37%-0.49%3.39%0.31%2.86%0.79%4.37%2.40%2.07%Consumer Price Index (Inflation)0.17%2.38%1.91%2.11%2.07%0.73%0.76%2.38%2.13%1.84%SS S&P SOO/5% MSCI EAFE/70% BB Agg2.76%14.96%-1.55%8.93%5.00%0.92%7.37%14.96%7.23%5.49%35% S&P SOO/15% MSCI EAFE/50% BB Agg3.60%16.79%-2.44%10.90%5.43%0.95%7.21%16.79% <t< td=""><td>Russell Mid-Cap Value Index</td><td>6.36%</td><td>27.06%</td><td>-12.29%</td><td>13.34%</td><td>20.00%</td><td>-4.78%</td><td>14.75%</td><td>27.06%</td><td>8.10%</td><td>7.62%</td><td>12.41%</td></t<>	Russell Mid-Cap Value Index	6.36%	27.06%	-12.29%	13.34%	20.00%	-4.78%	14.75%	27.06%	8.10%	7.62%	12.41%
MSCI EAFE8.21%22.66%-13.36%25.62%1.51%-0.39%-4.48%22.66%10.11%6.18%MSCI EAFE8.99%22.13%-13.78%27.77%5.01%-5.25%-3.44%22.13%10.40%6.01%Russell 2000 Value8.49%22.39%-12.86%7.84%31.74%-7.47%4.22%22.39%4.77%6.99%Russell 2000 Growth9.94%25.52%-11.01%14.65%21.31%-4.41%4.89%25.52%8.59%8.23%Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.38%5.60%28.48%12.49%9.34%MSCI Emerging Markets11.93%18.90%-14.25%37.75%11.60%-14.60%-1.82%18.90%11.99%6.01%Dow Jones U.S. Real Estate Index0.79%28.92%-4.03%9.84%7.56%2.14%27.24%28.92%10.77%8.35%HFRX Absolute Return Index1.57%4.37%-0.49%3.39%0.31%2.86%0.79%4.37%2.40%2.07%BLENDED BENCHMARKSQ4 2019YTD2016201520141YEAR5YEAR5.49%25% S&P 500/5% MSCI EAFE/70% BB Agg3.60%16.79%-1.55%8.93%5.00%0.92%7.21%16.79%8.11%6.11%35% S&P 500/15% MSCI EAFE/50% BB Agg3.60%16.79%-2.44%10.90%5.43%0.95%7.21%16.79%8.11%6.11%40% S&P 500/25% MSCI	Russell Mid-Cap Index	7.06%	30.54%	-9.06%	18.52%	13.80%	-2.44%	13.22%	30.54%	12.06%	9.33%	13.19%
MSCI ACWI ex U.S.8.99%22.13%-13.78%27.77%5.01%-5.25%-3.44%22.13%10.40%6.01%Russell 2000 Value8.49%22.39%-12.86%7.84%31.74%-7.47%4.22%22.39%4.77%6.99%Russell 2000 Growth9.94%25.52%-11.01%14.65%21.31%-4.41%4.89%25.52%8.59%8.23%Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.38%5.60%28.48%12.49%9.34%MSCI Emerging Markets11.93%18.90%-14.25%37.75%11.60%-14.60%-1.82%18.90%11.99%6.01%Dow Jones U.S. Real Estate Index0.79%28.92%-4.03%9.84%7.56%2.14%27.24%28.92%10.77%8.35%Consumer Price Index (Inflation)0.17%2.38%1.91%2.11%2.07%0.73%0.76%2.38%2.13%1.84%BLENDED BENCHMARKS04 2019YTD201820172016201520141YEAR3 YEAR5 YEAR25% S&P 500/5% MSCI EAFE/70% BB Agg3.60%16.79%-5.55%8.93%5.00%0.92%7.37%14.96%7.23%5.49%35% S&P 500/15% MSCI EAFE/50% BB Agg3.60%16.79%-2.44%10.90%5.43%0.95%7.21%16.79%8.11%6.11%45% S&P 500/25% MSCI EAFE/40% BB Agg5.29%20.48%-4.25%14.93%6.26%0.96%6.87%20.48% </td <td>Russell Mid-Cap Growth Index</td> <td>8.17%</td> <td>35.47%</td> <td>-4.75%</td> <td>25.27%</td> <td>7.33%</td> <td>-0.20%</td> <td>11.90%</td> <td>35.47%</td> <td>17.36%</td> <td>11.60%</td> <td>14.24%</td>	Russell Mid-Cap Growth Index	8.17%	35.47%	-4.75%	25.27%	7.33%	-0.20%	11.90%	35.47%	17.36%	11.60%	14.24%
Russell 2000 Value8.49%22.39%-12.86%7.84%31.74%-7.47%4.22%22.39%4.77%6.99%Russell 20009.94%25.52%-11.01%14.65%21.31%-4.41%4.89%25.52%8.59%8.23%Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.38%5.60%28.48%12.49%9.34%MSCI Emerging Markets11.93%18.90%-14.25%37.75%11.60%-14.60%-1.82%18.90%11.99%6.01%Dow Jones U.S. Real Estate Index0.79%28.92%-4.03%9.84%7.56%2.14%27.24%28.92%10.77%8.35%HFRX Absolute Return Index1.57%4.37%-0.49%3.39%0.31%2.86%0.79%4.37%2.40%2.07%Consumer Price Index (Inflation)0.17%2.38%1.91%2.11%2.07%0.73%0.76%2.38%2.13%1.84%BLENDED BENCHMARKSQ4 2019YTD201820172016201520141 YEAR3 YEAR5 YEAR25% S&P 500/5% MSCI EAFE/60% BB Agg3.60%16.79%-2.44%10.90%5.43%0.95%7.21%16.79%8.11%6.11%35% S&P 500/15% MSCI EAFE/60% BB Agg3.60%16.79%-2.44%10.90%5.43%0.95%7.21%16.79%8.11%6.11%40% S&P 500/20% MSCI EAFE/40% BB Agg5.29%20.48%-4.25%14.93%6.26%0.96%6.87%20.48%	MSCI EAFE	8.21%	22.66%	-13.36%	25.62%	1.51%	-0.39%	-4.48%	22.66%	10.11%	6.18%	6.00%
Russell 20009.94%25.52%-11.01%14.65%21.31%-4.41%4.89%25.52%8.59%8.23%Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.38%5.60%28.48%12.49%9.34%MSCI Emerging Markets11.93%18.90%-14.25%37.75%11.60%-14.60%-1.82%18.90%11.99%6.01%Dow Jones U.S. Real Estate Index0.79%28.92%-4.03%9.84%7.56%2.14%27.24%28.92%10.77%8.35%HFRX Absolute Return Index1.57%4.37%-0.49%3.39%0.31%2.86%0.79%4.37%2.40%2.07%Consumer Price Index (Inflation)0.17%2.38%1.91%2.11%2.07%0.73%0.76%2.38%2.13%1.84%BLENDED BENCHMARKSQ4 2019YTD201820172016201520141YEARSYEAR5.49%30% S&P 500/10% MSCI EAFE/70% BB Agg2.76%14.96%-1.55%8.93%5.00%0.92%7.37%14.96%7.23%5.49%35% S&P 500/15% MSCI EAFE/60% BB Agg3.60%16.79%-2.44%10.90%5.43%0.95%7.21%16.79%8.11%6.11%40% S&P 500/20% MSCI EAFE/40% BB Agg5.29%20.48%-4.25%14.93%6.26%0.96%6.87%20.48%9.86%7.30%45% S&P 500/25% MSCI EAFE/40% BB Agg6.15%22.33%-5.17%16.99%6.65%0.93%6.69% <t< td=""><td>MSCI ACWI ex U.S.</td><td>8.99%</td><td>22.13%</td><td>-13.78%</td><td>27.77%</td><td>5.01%</td><td>-5.25%</td><td>-3.44%</td><td>22.13%</td><td>10.40%</td><td>6.01%</td><td>5.45%</td></t<>	MSCI ACWI ex U.S.	8.99%	22.13%	-13.78%	27.77%	5.01%	-5.25%	-3.44%	22.13%	10.40%	6.01%	5.45%
Russell 2000 Growth11.39%28.48%-9.31%22.17%11.32%-1.38%5.60%28.48%12.49%9.34%MSCI Emerging Markets11.93%18.90%-14.25%37.75%11.60%-14.60%-1.82%18.90%11.99%6.01%Dow Jones U.S. Real Estate Index0.79%28.92%-4.03%9.84%7.56%2.14%27.24%28.92%10.77%8.35%HFRX Absolute Return Index1.57%4.37%-0.49%3.39%0.31%2.86%0.79%4.37%2.40%2.07%Consumer Price Index (Inflation)0.17%2.38%1.91%2.11%2.07%0.73%0.76%2.38%2.13%1.84%BLENDED BENCHMARKSQ4 2019YTD201820172016201520141YEAR3 YEAR5.49%30% S&P 500/5% MSCI EAFE/70% BB Agg3.60%16.79%-2.44%10.90%5.43%0.95%7.21%16.79%8.11%6.11%35% S&P 500/15% MSCI EAFE/50% BB Agg4.44%18.63%-3.34%12.90%5.85%0.97%7.04%18.63%8.99%6.71%40% S&P 500/20% MSCI EAFE/40% BB Agg5.29%20.48%-4.25%14.93%6.26%0.96%6.87%20.48%9.86%7.30%45% S&P 500/25% MSCI EAFE/30% BB Agg6.15%22.33%-5.17%16.99%6.65%0.93%6.69%22.33%10.72%7.88%	Russell 2000 Value	8.49%	22.39%	-12.86%	7.84%	31.74%	-7.47%	4.22%	22.39%	4.77%	6.99%	10.56%
MSCI Emerging Markets 11.93% 18.90% -14.25% 37.75% 11.60% -14.60% -1.82% 18.90% 11.99% 6.01% Dow Jones U.S. Real Estate Index 0.79% 28.92% -4.03% 9.84% 7.56% 2.14% 27.24% 28.92% 10.77% 8.35% HFRX Absolute Return Index 1.57% 4.37% -0.49% 3.39% 0.31% 2.86% 0.79% 4.37% 2.40% 2.07% Consumer Price Index (Inflation) 0.17% 2.38% 1.91% 2.11% 2.07% 0.73% 0.76% 2.38% 2.13% 1.84% BLENDED BENCHMARKS Q4 2019 YTD 2018 2017 2016 2015 2014 1YEAR 3YEAR 5.49% 30% S&P 500/5% MSCI EAFE/70% BB Agg 2.60% 14.96% -1.55% 8.93% 5.00% 0.92% 7.37% 14.96% 7.23% 5.49% 30% S&P 500/10% MSCI EAFE/60% BB Agg 3.60% 16.79% -2.44% 10.90% 5.85% 0.97% 7.04% 18.63% 8.99% 6.71% 40% S&P 500/15% MSCI EAFE/40% BB Agg 5.29% 20.48% </td <td>Russell 2000</td> <td>9.94%</td> <td>25.52%</td> <td>-11.01%</td> <td>14.65%</td> <td>21.31%</td> <td>-4.41%</td> <td>4.89%</td> <td>25.52%</td> <td>8.59%</td> <td>8.23%</td> <td>11.83%</td>	Russell 2000	9.94%	25.52%	-11.01%	14.65%	21.31%	-4.41%	4.89%	25.52%	8.59%	8.23%	11.83%
Dow Jones U.S. Real Estate Index 0.79% 28.92% -4.03% 9.84% 7.56% 2.14% 27.24% 28.92% 10.77% 8.35% HFRX Absolute Return Index 1.57% 4.37% -0.49% 3.39% 0.31% 2.86% 0.79% 4.37% 2.40% 2.07% Consumer Price Index (Inflation) 0.17% 2.38% 1.91% 2.11% 2.07% 0.73% 0.76% 2.38% 2.13% 1.84% BLENDED BENCHMARKS Q4 2019 YTD 2018 2017 2016 2015 2014 1 YEAR 3 YEAR 5 YEAR 25% S&P 500/5% MSCI EAFE/70% BB Agg 2.76% 14.96% -1.55% 8.93% 5.00% 0.92% 7.37% 14.96% 7.23% 5.49% 30% S&P 500/10% MSCI EAFE/60% BB Agg 3.60% 16.79% -2.44% 10.90% 5.43% 0.95% 7.21% 16.79% 8.11% 6.11% 35% S&P 500/15% MSCI EAFE/60% BB Agg 4.44% 18.63% -3.34% 12.90% 5.85% 0.97% 7.04% 18.63% 8.99% 6.71% 40% S&P 500/20% MSCI EAFE/40% BB Agg 5.15% <	Russell 2000 Growth	11.39%	28.48%	-9.31%	22.17%	11.32%	-1.38%	5.60%	28.48%	12.49%	9.34%	13.01%
HFRX Absolute Return Index1.57%4.37%-0.49%3.39%0.31%2.86%0.79%4.37%2.40%2.07%Consumer Price Index (Inflation)0.17%2.38%1.91%2.11%2.07%0.73%0.76%2.38%2.13%1.84%BLENDED BENCHMARKSQ4 2019YTD201820172016201520141 YEAR3 YEAR5 YEAR25% S&P 500/5% MSCI EAFE/70% BB Agg2.76%14.96%-1.55%8.93%5.00%0.92%7.37%14.96%7.23%5.49%30% S&P 500/10% MSCI EAFE/60% BB Agg3.60%16.79%-2.44%10.90%5.43%0.95%7.21%16.79%8.11%6.11%35% S&P 500/15% MSCI EAFE/50% BB Agg4.44%18.63%-3.34%12.90%5.85%0.97%7.04%18.63%8.99%6.71%40% S&P 500/20% MSCI EAFE/40% BB Agg5.29%20.48%-4.25%14.93%6.26%0.96%6.87%20.48%9.86%7.30%45% S&P 500/25% MSCI EAFE/30% BB Agg6.15%22.33%-5.17%16.99%6.65%0.93%6.69%22.33%10.72%7.88%	MSCI Emerging Markets	11.93%	18.90%	-14.25%	37.75%	11.60%	-14.60%	-1.82%	18.90%	11.99%	6.01%	4.04%
Consumer Price Index (Inflation)0.17%2.38%1.91%2.11%2.07%0.73%0.76%2.38%2.13%1.84%BLENDED BENCHMARKSQ4 2019YTD201820172016201520141 YEAR3 YEAR5 YEAR25% S&P 500/5% MSCI EAFE/70% BB Agg2.76%14.96%-1.55%8.93%5.00%0.92%7.37%14.96%7.23%5.49%30% S&P 500/10% MSCI EAFE/60% BB Agg3.60%16.79%-2.44%10.90%5.43%0.95%7.21%16.79%8.11%6.11%35% S&P 500/15% MSCI EAFE/50% BB Agg4.44%18.63%-3.34%12.90%5.85%0.97%7.04%18.63%8.99%6.71%40% S&P 500/20% MSCI EAFE/40% BB Agg5.29%20.48%-4.25%14.93%6.26%0.96%6.87%20.48%9.86%7.30%45% S&P 500/25% MSCI EAFE/30% BB Agg6.15%22.33%-5.17%16.99%6.65%0.93%6.69%22.33%10.72%7.88%	Dow Jones U.S. Real Estate Index	0.79%	28.92%	-4.03%	9.84%	7.56%	2.14%	27.24%	28.92%	10.77%	8.35%	11.96%
BLENDED BENCHMARKS Q4 2019 YTD 2018 2017 2016 2015 2014 1 YEAR 3 YEAR 5 YEAR 25% S&P 500/5% MSCI EAFE/70% BB Agg 2.76% 14.96% -1.55% 8.93% 5.00% 0.92% 7.37% 14.96% 7.23% 5.49% 30% S&P 500/10% MSCI EAFE/60% BB Agg 3.60% 16.79% -2.44% 10.90% 5.43% 0.95% 7.21% 16.79% 8.11% 6.11% 35% S&P 500/15% MSCI EAFE/50% BB Agg 4.44% 18.63% -3.34% 12.90% 5.85% 0.97% 7.04% 18.63% 8.99% 6.71% 40% S&P 500/20% MSCI EAFE/40% BB Agg 5.29% 20.48% -4.25% 14.93% 6.26% 0.96% 6.87% 20.48% 9.86% 7.30% 45% S&P 500/25% MSCI EAFE/30% BB Agg 6.15% 22.33% -5.17% 16.99% 6.65% 0.93% 6.69% 22.33% 10.72% 7.88%	HFRX Absolute Return Index	1.57%	4.37%	-0.49%	3.39%	0.31%	2.86%	0.79%	4.37%	2.40%	2.07%	1.16%
25% S&P 500/5% MSCI EAFE/70% BB Agg 2.76% 14.96% -1.55% 8.93% 5.00% 0.92% 7.37% 14.96% 7.23% 5.49% 30% S&P 500/10% MSCI EAFE/60% BB Agg 3.60% 16.79% -2.44% 10.90% 5.43% 0.95% 7.21% 16.79% 8.11% 6.11% 35% S&P 500/15% MSCI EAFE/50% BB Agg 4.44% 18.63% -3.34% 12.90% 5.85% 0.97% 7.04% 18.63% 8.99% 6.71% 40% S&P 500/20% MSCI EAFE/40% BB Agg 5.29% 20.48% -4.25% 14.93% 6.26% 0.96% 6.87% 20.48% 9.86% 7.30% 45% S&P 500/25% MSCI EAFE/30% BB Agg 6.15% 22.33% -5.17% 16.99% 6.65% 0.93% 6.69% 22.33% 10.72% 7.88%	Consumer Price Index (Inflation)	0.17%	2.38%	1.91%	2.11%	2.07%	0.73%	0.76%	2.38%	2.13%	1.84%	1.76%
30% S&P 500/10% MSCI EAFE/60% BB Agg 3.60% 16.79% -2.44% 10.90% 5.43% 0.95% 7.21% 16.79% 8.11% 6.11% 35% S&P 500/15% MSCI EAFE/50% BB Agg 4.44% 18.63% -3.34% 12.90% 5.85% 0.97% 7.04% 18.63% 8.99% 6.71% 40% S&P 500/20% MSCI EAFE/40% BB Agg 5.29% 20.48% -4.25% 14.93% 6.26% 0.96% 6.87% 20.48% 9.86% 7.30% 45% S&P 500/25% MSCI EAFE/30% BB Agg 6.15% 22.33% -5.17% 16.99% 6.65% 0.93% 6.69% 22.33% 10.72% 7.88%	BLENDED BENCHMARKS	Q4 2019	YTD	2018	2017	2016	2015	2014	1 YEAR	3 YEAR	5 YEAR	10 YEAR
35% S&P 500/15% MSCI EAFE/50% BB Agg 4.44% 18.63% -3.34% 12.90% 5.85% 0.97% 7.04% 18.63% 8.99% 6.71% 40% S&P 500/20% MSCI EAFE/40% BB Agg 5.29% 20.48% -4.25% 14.93% 6.26% 0.96% 6.87% 20.48% 9.86% 7.30% 45% S&P 500/25% MSCI EAFE/30% BB Agg 6.15% 22.33% -5.17% 16.99% 6.65% 0.93% 6.69% 22.33% 10.72% 7.88%	25% S&P 500/5% MSCI EAFE/70% BB Agg	2.76%	14.96%	-1.55%	8.93%	5.00%	0.92%	7.37%	14.96%	7.23%	5.49%	6.45%
40% S&P 500/20% MSCI EAFE/40% BB Agg 5.29% 20.48% -4.25% 14.93% 6.26% 0.96% 6.87% 20.48% 9.86% 7.30% 45% S&P 500/25% MSCI EAFE/30% BB Agg 6.15% 22.33% -5.17% 16.99% 6.65% 0.93% 6.69% 22.33% 10.72% 7.88%	30% S&P 500/10% MSCI EAFE/60% BB Agg	3.60%	16.79%	-2.44%	10.90%	5.43%	0.95%	7.21%	16.79%	8.11%	6.11%	7.09%
45% S&P 500/25% MSCI EAFE/30% BB Agg 6.15% 22.33% -5.17% 16.99% 6.65% 0.93% 6.69% 22.33% 10.72% 7.88%	35% S&P 500/15% MSCI EAFE/50% BB Agg	4.44%	18.63%	-3.34%	12.90%	5.85%	0.97%	7.04%	18.63%	8.99%	6.71%	7.71%
	40% S&P 500/20% MSCI EAFE/40% BB Agg	5.29%	20.48%	-4.25%	14.93%	6.26%	0.96%	6.87%	20.48%	9.86%	7.30%	8.31%
60% S&P 500/40% Bloomberg Barclays Agg 5.46% 22.16% -2.28% 14.25% 8.41% 1.40% 10.75% 22.16% 10.90% 8.44%	45% S&P 500/25% MSCI EAFE/30% BB Agg	6.15%	22.33%	-5.17%	16.99%	6.65%	0.93%	6.69%	22.33%	10.72%	7.88%	8.90%
	60% S&P 500/40% Bloomberg Barclays Agg	5.46%	22.16%	-2.28%	14.25%	8.41%	1.40%	10.75%	22.16%	10.90%	8.44%	9.87%

The opinions expressed in this report are subject to change without notice. This material has been prepared or is distributed solely for informational purposes and is not a solicitation or an offer to buy any security or to participate in any investment strategy. The performance data quoted represents past performance and does not guarantee future results. Index averages are provided for comparison purposes only. The information and statistics in this report are from sources believed to be reliable but are not guaranteed to be accurate or complete. CAPTRUST Financial Advisors is an investment adviser registered under the Investment Advisers Act of 1940. Sources: Morningstar Direct, MPI

SECTION 3: PLAN INVESTMENT REVIEW

University of Maine System

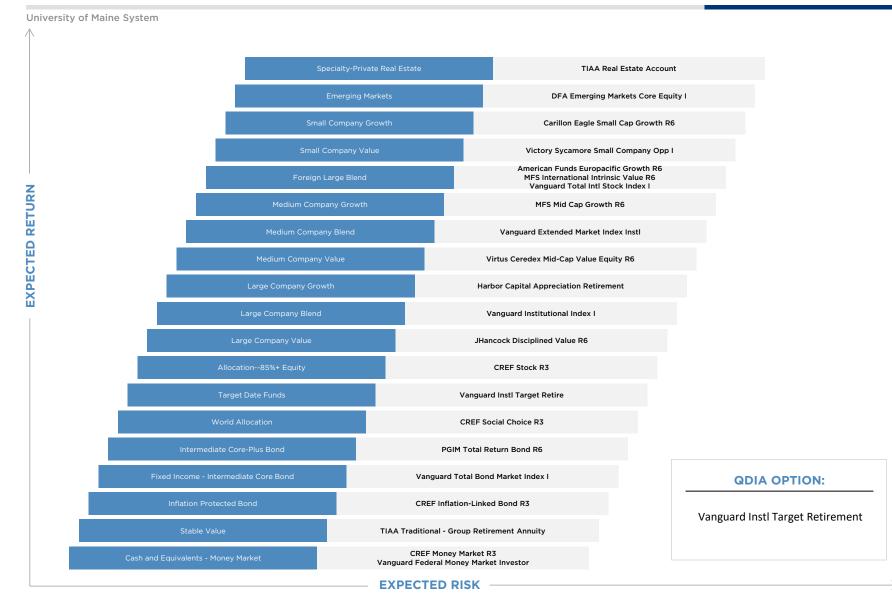
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SECTION 3: PLAN INVESTMENT REVIEW

Plan Investment Menu Review
Plan Assets
Investment Policy Monitor
Investment Review Select Commentary
Investment Performance Summary
Plan Performance Measurement

PLAN INVESTMENT REVIEW | PLAN MENU

Period Ending 12.31.19 | Q4 19



PLAN INVESTMENT REVIEW | EXECUTIVE ASSET SUMMARY

Period Ending 12.31.19 | Q4 19

4.1

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University of Maine System

Plan Name		Plan/Con	tract Number	Plan Assets
University of Maine System Retirement Plan for Faculty and Profession	onals 403(b) DC	1	02965	\$1,310,875,970
University of Maine System Retirement Tax Deferred Annuity Plan 40	03(b) TDA	1	02966	\$187,107,543
University of Maine System Optional Retirement Savings 403(b)		1	02967	\$1,508,374
University of Maine System Optional Retirement Savings 401(a)		1	02968	\$1,159,708
University of Maine System Basic Retirement Plan for Classified Emp	loyees 403(b)	1	02969	\$41,625,140
University of Maine System Basic Retirement Plan for Classified Empl	oyees 401(a)	1	02970	\$79,152,359
University of Maine System Deferred Compensation Plan 457(b)		1	102971	\$36,105,245
		TOTALS	5	\$1,657,534,339
University of Maine System Alternate Carrier Transfers Date Range October 1, 2019 - Decem	In			<u>Disclosures</u> or informational purposes only. It is not intended as an offer or solicitation or ation being made for the purchase or sale of any financial instrument /
Alternate Carrier	Amou	nt		al confirmation or as an official statement on any transaction.
FIDELITY	\$	1,894.89		
MID ATLANTIC TRUST COMPANY	\$	2,230.76		est for information, enclosed you will find data related to the Plan(s) and/or You have solicited this information for fiduciary due diligence and review
TIAA***	\$	3,446.20		e referenced Plan. This report should not be used for regulatory filings or for
VALIC	\$	2,517.51	benefit statements.	
VOYA		90,000.92		neither TIAA, CREF, nor their affiliates, in their satisfaction of your nake any representations or warranties, express or implied, as to the
			accuracy, completene	save any representations of warrandes, express or imprice, as to the ss, or fitness for any purpose or use of this or other data for the Plan(s) that chers Advisors Inc. or its affiliates will not be liable for any direct, indirect, o
Total	\$ 1	00,090.28		sing from any use of or reliance on the information supplied.
* 7 plans : 102965, 102966, 102967, 102968, 102969, 102970 8	102971]	
*** Assets transferred from TPA contract				
These numbers include new expressed seasts held at TIAA CDEE that as				

These numbers include non-approved assets held at TIAA-CREF that are no longer available for additional investments.

Plan balances by fund

University of Maine System

Allocation Name	Ticker	l R f	University of Maine System etirement Plan for Faculty and Professionals 3(b) DC - 102965	M Re Def	Iniversity of aine System tirement Tax erred Annuity n 403(b) TDA- 102966	M	Iniversity of aine System Optional Retirement vings 403(b) - 102967	Ma R	niversity of aine System Optional tetirement rings 401(a) - 102968	Re ⁻	Naine System Basic tirement Plan or Classified Employees D3(b) - 102969	Maine System Basic Retirement Plan for Classified Employees 401(a) - 102970	M Co	University of aine System Deferred ompensation Ilan 457(b) - 102971		Grand Total	Percent to total
American Funds Europacific Growth R6	RERGX	\$	9,672,370.92	\$	1,429,054.72	Ś	5,343.09	Ś	4.677.65	Ś	171,968.79	\$ 225,733.19	Ś	250,336.98	Ś	11,759,485.34	0.71%
Carillon Eagle Small Cap Growth R6	HSRUX	\$	6,508,214.34	\$	611,385.85	\$	4,534.23	<u> </u>	4,388.97	\$	207,115.79	\$ 301,098.67	\$	198,220.77	\$	7,834,958.62	0.47%
CREF Inflation-Linked Bond R3	QCILIX	\$	14,207,232.28	\$	2,577,254.71	\$	15,684.94		16,120.50	\$	579,185.15	\$ 1,108,346.60	\$	556,737.21	\$	19,060,561.39	1.15%
CREF Money Market R3	QCMMIX	\$	8,129,320.37	\$	600,644.13	\$	5,915.06	<u> </u>	5,574.10	\$	373,650.96	\$ 1,018,253.82	\$	414,214.61	\$	10,547,573.05	0.64%
CREF Social Choice R3	QCSCIX	\$	35,544,565.83	\$	6,474,633.92	\$	39,274.03	\$	27,460.60	<u> </u>	1,094,085.34	\$ 2,973,565.16	<u> </u>	1,726,380.29	\$	47,879,965.17	2.89%
CREF Stock R3	QCSTIX	\$	195,835,513.10	<u> </u>	18,496,850.86	\$	183,312.59	\$	120,649.80	<u> </u>	3,472,055.62	\$ 9,005,731.98	<u> </u>	2,047,030.99	\$	229,161,144.94	13.83%
Default Loan	N/A	\$	17,072.31				-	\$	-	\$	4,740.18	\$ -	\$	-	\$	106,182.86	0.01%
DFA Emerging Markets Core Equity I	DFCEX	\$	15,935,295.89	\$	2,024,623.34	\$	1,774.80	ې د	15,943.18	Ş	700,697.41	\$ 1,209,662.58	\$	614,150.85	\$	20,502,148.05	1.24%
Harbor Capital Appreciation Retirement	HNACX	\$	20,681,306.34	Ś	2,848,879.52		1.855.55	\$	1.622.94	Ŷ	,	\$ 2,063,982.82	\$	922,815.29	\$	28,833,733.36	1.74%
JHancock Disciplined Value R6	JDVWX	\$	25,443,532.34	\$	2,818,351.93	\$	5,565.82	\$	12,326.37	\$	902,897.34	\$ 1,408,992.43	\$	728,732.62	\$	31,320,398.85	1.89%
MFS International Intrinsic Value R6	MINJX	\$	24,978,213.96	<u> </u>			4,421.81	\$	18,497.04	<u> </u>	1,064,739.00	\$ 2,019,170.36	\$	823,093.01	\$	32,685,070.78	1.97%
MFS Mid Cap Growth R6	ОТСКХ	\$	11,673,848.04	Ś	1,310,577.06	\$	680.67	Ś	22,325.02	\$	452,989.51	\$ 810,040.03	\$	349,438.25	Ś	14,619,898.58	0.88%
Frozen TIAA Annuities	NOAPRV	\$, ,		13,704,955.07	\$	236,519.16	\$	181,674.33	<u> </u>	3,086,298.29	\$ 8,510,025.20	<u> </u>	1,998,548.82	\$	115,036,281.35	6.94%
PGIM Total Return Bond R6	PTRQX	\$	27,366,505.73	\$	7,327,538.33	Ś	5,082.43	Ś	21,432.28	<u> </u>	1,161,683.84	\$ 1,960,443.63		1,370,229.73	Ś	39,212,915.97	2.37%
Self Directed Accounts	SDA	\$, ,	\$	2,040,149.44	\$	-	Ś	133,724.80	<u> </u>	2,252,293.84	\$ 1,904,743.19	Ś	719,228.67	Ś	47,882,582.74	2.89%
TIAA Real Estate Account	QREARX	Ś		1	11,443,286.31	Ś	40,287.52	Ś	59,303.46	<u> </u>	2,255,859.27	\$ 3,929,434.10	Ś	2,167,161.80	Ś	74,559,677.81	4.50%
TIAA Traditional - Group Retirement Annuity	TIAA#	Ś	427,531,727.60	<u> </u>	61,679,970.34	Ś	764,450.91	Ś	331,666.99	<u> </u>	, ,	\$ 15,121,286.09		8,807,620.87	Ś	521,102,904.34	31.44%
Vanguard Extended Market Index Instl	VIEIX	Ś	15,576,512.52	Ś	2,844,363.54	Ś	2,334.57	Ś	517.22	Ś	438,567.16	\$ 809,625.36	\$	831,053.46	Ś	20,502,973.83	1.24%
Vanguard Federal Money Market Investor	VMFXX	\$	3,361,076.96		125,104.62	\$	-	\$	-	\$	53,185.39	\$ 109,997.08	\$	125,327.50	\$	3,774,691.55	0.23%
Vanguard Institutional Index I	VINIX	Ś	82,898,695.65	Ś	13,602,142.68	\$	11,594.08	Ś	5,824.43	Ś	1,289,814.91	\$ 4,180,264.83	Ś	3,062,222.80	Ś	105,050,559.38	6.34%
Vanguard Retirement Series	N/A	\$	144,634,866.86	\$	20,762,735.22	\$	167,847.90	\$	122,800.92		10,820,897.33	\$ 17,298,777.45	\$	6,336,706.06	\$	200,144,631.74	12.07%
Vanguard Total Bond Market Index I	VBTIX	\$	6,320,932.82	\$	1,984,202.48	\$	629.65	\$	13,765.01	\$	129,103.04	\$ 308,509.47	\$	265,365.70	\$	9,022,508.17	0.54%
Vanguard Total Intl Stock Index I	VTSNX	\$	17,819,654.10	\$	3,174,244.58	\$	3,743.26	\$	916.51	\$	701,376.40	\$ 1,193,286.23	\$	753,201.76	\$	23,646,422.84	1.43%
Victory Sycamore Small Company Opp I	VSOIX	\$	14,318,882.19	\$	2,291,654.77	\$	2,426.23	\$	34,643.97	\$	623,905.71	\$ 856,009.52	\$	432,748.62	\$	18,560,271.01	1.12%
Virtus Ceredex Mid-Cap Value Equity R6	SMVZX	\$		\$	3,073,633.09	\$	5,095.74	\$	3,851.69	\$	608,577.26	\$ 825,379.66	\$	604,678.81	\$	24,726,797.56	1.49%
Total		\$ 3	1,310,875,970.09	\$1	87,107,542.48	\$2	1,508,374.04	\$1	L,159,707.78	\$4	41,625,139.97	\$ 79,152,359.45	\$3	6,105,245.47	\$1	,657,534,339.28	100%

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Period Ending 12.31.19 | Q4 19

Period Ending 12.31.19 | Q4 19

University of Maine System Retirement Plar	n for Faculty and Professionals 403(b) DC - 102965				
		-	MARKET	VALUE -	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Cash and Equivalents - Money Market	CREF Money Market R3	\$33,741,188	2.87%	\$8,129,320	0.62%
Cash and Equivalents - Money Market	Vanguard Federal Money Market Investor	\$3,245,798	0.28%	\$3,361,077	0.26%
Stable Value	TIAA Traditional - Group Retirement Annuity	\$433,231,435	36.79%	\$427,531,728	32.61%
Inflation Protected Bond	CREF Inflation-Linked Bond R3	\$13,977,742	1.19%	\$14,207,232	1.08%
Fixed Income - Intermediate Core Bond	Vanguard Total Bond Market Index I	\$5,319,901	0.45%	\$6,320,933	0.48%
Intermediate Core-Plus Bond	PGIM Total Return Bond R6	\$21,528,393	1.83%	\$27,366,506	2.09%
World Allocation	CREF Social Choice R3	\$31,116,545	2.64%	\$35,544,566	2.71%
Target Date Ret Income Moderate	Vanguard Instl Trgt Retire Inc Instl	-	-	\$6,068,596	0.46%
Target Date Ret Income Moderate	Vanguard Target Retirement Income Inv	\$6,252,363	0.53%	-	-
Target Date 2015 Moderate	Vanguard Instl Trgt Retire 2015 Instl	-	-	\$6,956,395	0.53%
Target Date 2015 Moderate	Vanguard Target Retirement 2015 Inv	\$4,581,987	0.39%	-	-
Target Date 2020 Moderate	Vanguard Instl Trgt Retire 2020 Instl	-	-	\$16,795,458	1.28%
Target Date 2020 Moderate	Vanguard Target Retirement 2020 Inv	\$10,668,569	0.91%	-	-
Target Date 2025 Moderate	Vanguard Instl Trgt Retire 2025 Instl	-	-	\$20,619,050	1.57%
Target Date 2025 Moderate	Vanguard Target Retirement 2025 Inv	\$11,636,300	0.99%	-	-
Target Date 2030 Moderate	Vanguard Instl Trgt Retire 2030 Instl	-	-	\$19,422,867	1.48%
Target Date 2030 Moderate	Vanguard Target Retirement 2030 Inv	\$9,811,752	0.83%	-	-
Target Date 2035 Moderate	Vanguard Instl Trgt Retire 2035 Instl	-	-	\$20,819,922	1.59%

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Period Ending 12.31.19 | Q4 19

University of Maine System Retiremen	t Plan for Faculty and Professionals 403(b) DC - 102965					
		-	- MARKET VALUE -			
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)	
Target Date 2035 Moderate	Vanguard Target Retirement 2035 Inv	\$10,491,797	0.89%	-	-	
Target Date 2040 Moderate	Vanguard Instl Trgt Retire 2040 Instl	-	-	\$23,931,974	1.83%	
Target Date 2040 Moderate	Vanguard Target Retirement 2040 Inv	\$10,398,259	0.88%	-	-	
Target Date 2045 Moderate	Vanguard Instl Trgt Retire 2045 Instl	-	-	\$15,225,321	1.16%	
Target Date 2045 Moderate	Vanguard Target Retirement 2045 Inv	\$8,840,912	0.75%	-	-	
Target Date 2050 Moderate	Vanguard Instl Trgt Retire 2050 Instl	-	-	\$10,558,817	0.81%	
Target Date 2050 Moderate	Vanguard Target Retirement 2050 Inv	\$5,836,262	0.50%	-	-	
Target Date 2055 Moderate	Vanguard Instl Trgt Retire 2055 Instl	-	-	\$3,622,960	0.28%	
Target Date 2055 Moderate	Vanguard Target Retirement 2055 Inv	\$2,071,139	0.18%	-	-	
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2060 Instl	-	-	\$569,656	0.04%	
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2065 Instl	-	-	\$43,851	0.00%	
Target Date 2060+ Moderate	Vanguard Target Retirement 2060 Inv	\$244,692	0.02%	-	-	
Target Date 2060+ Moderate	Vanguard Target Retirement 2065 Inv	\$0	0.00%	-	-	
Allocation85%+ Equity	CREF Stock R3	\$175,595,931	14.91%	\$195,835,513	14.94%	
Large Company Value	JHancock Disciplined Value R6	\$16,925,133	1.44%	\$25,443,532	1.94%	
Large Company Blend	Vanguard Institutional Index I	\$35,014,254	2.97%	\$82,898,696	6.32%	
Large Company Growth	Harbor Capital Appreciation Retirement	\$10,165,637	0.86%	\$20,681,306	1.58%	
Medium Company Value	Virtus Ceredex Mid-Cap Value Equity R6	\$9,207,455	0.78%	\$19,605,581	1.50%	

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University of Maine System Retirement Plan for Faculty and Professionals 403(b) DC - 102965

Period Ending 12.31.19 | Q4 19

Oniversity of Mame System Retirement	t Plan for Faculty and Professionals 403(b) DC - 102965					
			-	MARKET	VALUE -	
FUND OPTION	CURRENT INVESTMENT NAME		12.31.2018	(%)	CURRENT	(%)
Medium Company Blend	Vanguard Extended Market Index Instl		\$14,041,707	1.19%	\$15,576,513	1.19%
Medium Company Growth	Goldman Sachs Growth Opportunities R6		\$5,113,494	0.43%	-	-
Medium Company Growth	MFS Mid Cap Growth R6		-	-	\$11,673,848	0.89%
Foreign Large Blend	American Funds Europacific Growth R6		-	-	\$9,672,371	0.74%
Foreign Large Blend	MFS International Intrinsic Value R6		\$19,243,386	1.63%	\$24,978,214	1.91%
Foreign Large Blend	Vanguard Total Intl Stock Index I		\$12,831,913	1.09%	\$17,819,654	1.36%
Foreign Large Growth	Oppenheimer International Growth I		\$3,309,664	0.28%	-	-
Small Company Value	Victory Sycamore Small Company Opp I		\$7,696,760	0.65%	\$14,318,882	1.09%
Small Company Growth	Carillon Eagle Small Cap Growth R6		\$3,516,252	0.30%	\$6,508,214	0.50%
Emerging Markets	DFA Emerging Markets Core Equity I		\$12,978,914	1.10%	\$15,935,296	1.22%
Specialty-Private Real Estate	TIAA Real Estate Account		\$52,094,873	4.42%	\$54,664,345	4.17%
Other Assets	Frozen TIAA Annuities		\$126,995,957	10.78%	\$87,318,260	6.66%
Self-Directed Brokerage	Self Directed Accounts		\$49,871,532	4.23%	\$40,832,443	3.11%
Loan	Default Loan		\$16,365	0.00%	\$17,072	0.00%
	тс	DTALS	\$1,177,614,259	100%	\$1,310,875,970	100%

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Period Ending 12.31.19 | Q4 19

University of Maine System Retirement Tax						
		- MARKET VALUE			_	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)	
Cash and Equivalents - Money Market	CREF Money Market R3	\$2,776,789	1.77%	\$600,644	0.32%	
Cash and Equivalents - Money Market	Vanguard Federal Money Market Investor	\$213,653	0.14%	\$125,105	0.07%	
Stable Value	TIAA Traditional - Group Retirement Annuity	\$56,098,968	35.75%	\$61,679,970	32.96%	
Inflation Protected Bond	CREF Inflation-Linked Bond R3	\$2,381,360	1.52%	\$2,577,255	1.38%	
Fixed Income - Intermediate Core Bond	Vanguard Total Bond Market Index I	\$1,339,285	0.85%	\$1,984,202	1.06%	
Intermediate Core-Plus Bond	PGIM Total Return Bond R6	\$5,142,723	3.28%	\$7,327,538	3.92%	
World Allocation	CREF Social Choice R3	\$5,187,134	3.31%	\$6,474,634	3.46%	
Target Date Ret Income Moderate	Vanguard Instl Trgt Retire Inc Instl	-	-	\$2,653,495	1.42%	
Target Date Ret Income Moderate	Vanguard Target Retirement Income Inv	\$1,672,675	1.07%	-	-	
Target Date 2015 Moderate	Vanguard Instl Trgt Retire 2015 Instl	-	-	\$1,002,481	0.54%	
Target Date 2015 Moderate	Vanguard Target Retirement 2015 Inv	\$841,090	0.54%	-	-	
Target Date 2020 Moderate	Vanguard Instl Trgt Retire 2020 Instl	-	-	\$4,032,173	2.16%	
Target Date 2020 Moderate	Vanguard Target Retirement 2020 Inv	\$2,788,232	1.78%	-	-	
Target Date 2025 Moderate	Vanguard Instl Trgt Retire 2025 Instl	-	-	\$5,065,172	2.71%	
Target Date 2025 Moderate	Vanguard Target Retirement 2025 Inv	\$3,610,502	2.30%	-	-	
Target Date 2030 Moderate	Vanguard Instl Trgt Retire 2030 Instl	-	-	\$2,983,277	1.59%	
Target Date 2030 Moderate	Vanguard Target Retirement 2030 Inv	\$1,721,577	1.10%	-	-	
Target Date 2035 Moderate	Vanguard Instl Trgt Retire 2035 Instl	-	-	\$1,849,209	0.99%	

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University of Maine System Retirement Tax Deferred Annuity Plan 403(b) TDA- 102966

Period Ending 12.31.19 | Q4 19

University of Mame System Retirement	Tax Deferred Annuity Plan 403(b) TDA- 102966	-	MARKE	T VALUE —	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Target Date 2035 Moderate	Vanguard Target Retirement 2035 Inv	\$1,117,230	0.71%	-	-
Target Date 2040 Moderate	Vanguard Instl Trgt Retire 2040 Instl	-	-	\$2,165,688	1.16%
Target Date 2040 Moderate	Vanguard Target Retirement 2040 Inv	\$980,701	0.62%	-	-
Target Date 2045 Moderate	Vanguard Instl Trgt Retire 2045 Instl	-	-	\$505,221	0.27%
Target Date 2045 Moderate	Vanguard Target Retirement 2045 Inv	\$304,310	0.19%	-	-
Target Date 2050 Moderate	Vanguard Instl Trgt Retire 2050 Instl	-	-	\$425,029	0.23%
Target Date 2050 Moderate	Vanguard Target Retirement 2050 Inv	\$193,325	0.12%	-	-
Target Date 2055 Moderate	Vanguard Instl Trgt Retire 2055 Instl	-	-	\$68,573	0.04%
Target Date 2055 Moderate	Vanguard Target Retirement 2055 Inv	\$72,237	0.05%	-	-
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2060 Instl	-	-	\$12,418	0.01%
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2065 Instl	-	-	\$0	0.00%
Target Date 2060+ Moderate	Vanguard Target Retirement 2060 Inv	\$4,452	0.00%	-	-
Target Date 2060+ Moderate	Vanguard Target Retirement 2065 Inv	\$0	0.00%	-	-
Allocation85%+ Equity	CREF Stock R3	\$16,035,834	10.22%	\$18,496,851	9.89%
Large Company Value	JHancock Disciplined Value R6	\$1,802,893	1.15%	\$2,818,352	1.51%
Large Company Blend	Vanguard Institutional Index I	\$9,011,773	5.74%	\$13,602,143	7.27%
Large Company Growth	Harbor Capital Appreciation Retirement	\$1,622,489	1.03%	\$2,848,880	1.52%
Medium Company Value	Virtus Ceredex Mid-Cap Value Equity R6	\$1,000,005	0.64%	\$3,073,633	1.64%

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University of Maine System Retirement Tax Deferred Annuity Plan 403(b) TDA- 102966

Period Ending 12.31.19 | Q4 19

University of Mame System Retirement Tax Deferred Annuity Plan 405(b) TDA- 102966		-	T VALUE —		
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Medium Company Blend	Vanguard Extended Market Index Instl	\$2,393,286	1.53%	\$2,844,364	1.52%
Medium Company Growth	Goldman Sachs Growth Opportunities R6	\$339,964	0.22%	-	-
Medium Company Growth	MFS Mid Cap Growth R6	-	-	\$1,310,577	0.70%
Foreign Large Blend	American Funds Europacific Growth R6	-	-	\$1,429,055	0.76%
Foreign Large Blend	MFS International Intrinsic Value R6	\$2,816,190	1.79%	\$3,776,936	2.02%
Foreign Large Blend	Vanguard Total Intl Stock Index I	\$1,968,499	1.25%	\$3,174,245	1.70%
Foreign Large Growth	Oppenheimer International Growth I	\$373,437	0.24%	-	-
Small Company Value	Victory Sycamore Small Company Opp I	\$1,550,403	0.99%	\$2,291,655	1.22%
Small Company Growth	Carillon Eagle Small Cap Growth R6	\$244,205	0.16%	\$611,386	0.33%
Emerging Markets	DFA Emerging Markets Core Equity I	\$1,566,956	1.00%	\$2,024,623	1.08%
Specialty-Private Real Estate	TIAA Real Estate Account	\$10,567,548	6.73%	\$11,443,286	6.12%
Other Assets	Frozen TIAA Annuities	\$16,811,525	10.71%	\$13,704,955	7.32%
Self-Directed Brokerage	Self Directed Accounts	\$2,311,384	1.47%	\$2,040,149	1.09%
Loan	Default Loan	\$64,204	0.04%	\$84,370	0.05%
	ΤΟΤΑ	LS \$156,926,838	100%	\$187,107,542	100%

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Period Ending 12.31.19 | Q4 19

University of Maine System Optional Retirement Savings 403(b) - 102967

		- MARKET VALUE -		VALUE -	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Cash and Equivalents - Money Market	CREF Money Market R3	\$10,011	0.69%	\$5,915	0.39%
Cash and Equivalents - Money Market	Vanguard Federal Money Market Investor	\$0	0.00%	\$0	0.00%
Stable Value	TIAA Traditional - Group Retirement Annuity	\$708,840	48.69%	\$764,451	50.68%
Inflation Protected Bond	CREF Inflation-Linked Bond R3	\$16,036	1.10%	\$15,685	1.04%
Fixed Income - Intermediate Core Bond	Vanguard Total Bond Market Index I	\$129	0.01%	\$630	0.04%
Intermediate Core-Plus Bond	PGIM Total Return Bond R6	\$10,372	0.71%	\$5,082	0.34%
World Allocation	CREF Social Choice R3	\$33,411	2.29%	\$39,274	2.60%
Target Date Ret Income Moderate	Vanguard Instl Trgt Retire Inc Instl	-	-	\$47,960	3.18%
Target Date Ret Income Moderate	Vanguard Target Retirement Income Inv	\$270	0.02%	-	-
Target Date 2015 Moderate	Vanguard Instl Trgt Retire 2015 Instl	-	-	\$16,037	1.06%
Target Date 2015 Moderate	Vanguard Target Retirement 2015 Inv	\$155	0.01%	-	-
Target Date 2020 Moderate	Vanguard Instl Trgt Retire 2020 Instl	-	-	\$58,590	3.88%
Target Date 2020 Moderate	Vanguard Target Retirement 2020 Inv	\$50,294	3.45%	-	-
Target Date 2025 Moderate	Vanguard Instl Trgt Retire 2025 Instl	-	-	\$6,886	0.46%
Target Date 2025 Moderate	Vanguard Target Retirement 2025 Inv	\$2,218	0.15%	-	-
Target Date 2030 Moderate	Vanguard Instl Trgt Retire 2030 Instl	-	-	\$35,117	2.33%
Target Date 2030 Moderate	Vanguard Target Retirement 2030 Inv	\$0	0.00%	-	-
Target Date 2035 Moderate	Vanguard Instl Trgt Retire 2035 Instl	-	-	\$3,257	0.22%

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Period Ending 12.31.19 | Q4 19

University of Maine System Optional Retirement Savings 403(b) - 102967

		-	MARKE	T VALUE —	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Target Date 2035 Moderate	Vanguard Target Retirement 2035 Inv	\$0	0.00%	-	-
Target Date 2040 Moderate	Vanguard Instl Trgt Retire 2040 Instl	-	-	\$0	0.00%
Target Date 2040 Moderate	Vanguard Target Retirement 2040 Inv	\$0	0.00%	-	-
Target Date 2045 Moderate	Vanguard Instl Trgt Retire 2045 Instl	-	-	\$0	0.00%
Target Date 2045 Moderate	Vanguard Target Retirement 2045 Inv	\$0	0.00%	-	-
Target Date 2050 Moderate	Vanguard Instl Trgt Retire 2050 Instl	-	-	\$0	0.00%
Target Date 2050 Moderate	Vanguard Target Retirement 2050 Inv	\$0	0.00%	-	-
Target Date 2055 Moderate	Vanguard Instl Trgt Retire 2055 Instl	-	-	\$0	0.00%
Target Date 2055 Moderate	Vanguard Target Retirement 2055 Inv	\$0	0.00%	-	-
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2060 Instl	-	-	\$0	0.00%
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2065 Instl	-	-	\$0	0.00%
Target Date 2060+ Moderate	Vanguard Target Retirement 2060 Inv	\$0	0.00%	-	-
Target Date 2060+ Moderate	Vanguard Target Retirement 2065 Inv	\$0	0.00%	-	-
Allocation85%+ Equity	CREF Stock R3	\$202,585	13.92%	\$183,313	12.15%
Large Company Value	JHancock Disciplined Value R6	\$1,643	0.11%	\$5,566	0.37%
Large Company Blend	Vanguard Institutional Index I	\$12,154	0.83%	\$11,594	0.77%
Large Company Growth	Harbor Capital Appreciation Retirement	\$1,306	0.09%	\$1,856	0.12%
Medium Company Value	Virtus Ceredex Mid-Cap Value Equity R6	\$653	0.04%	\$5,096	0.34%

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Period Ending 12.31.19 | Q4 19

University of Maine System Optio	nal Retirement Savings 403(b) - 102967
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		-	MARKE	T VALUE -	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Medium Company Blend	Vanguard Extended Market Index Instl	\$2,301	0.16%	\$2,335	0.15%
Medium Company Growth	Goldman Sachs Growth Opportunities R6	\$45	0.00%	-	-
Medium Company Growth	MFS Mid Cap Growth R6	-	-	\$681	0.05%
Foreign Large Blend	American Funds Europacific Growth R6	-	-	\$5,343	0.35%
Foreign Large Blend	MFS International Intrinsic Value R6	\$3,092	0.21%	\$4,422	0.29%
Foreign Large Blend	Vanguard Total Intl Stock Index I	\$2,712	0.19%	\$3,743	0.25%
Foreign Large Growth	Oppenheimer International Growth I	\$481	0.03%	-	-
Small Company Value	Victory Sycamore Small Company Opp I	\$1,625	0.11%	\$2,426	0.16%
Small Company Growth	Carillon Eagle Small Cap Growth R6	\$225	0.02%	\$4,534	0.30%
Emerging Markets	DFA Emerging Markets Core Equity I	\$1,342	0.09%	\$1,775	0.12%
Specialty-Private Real Estate	TIAA Real Estate Account	\$44,719	3.07%	\$40,288	2.67%
Other Assets	Frozen TIAA Annuities	\$349,219	23.99%	\$236,519	15.68%
Self-Directed Brokerage	Self Directed Accounts	\$0	0.00%	\$0	0.00%
	тот	ALS \$1,455,840	100%	\$1,508,374	100%

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Period Ending 12.31.19 | Q4 19

University of Maine System Optional Retirement Savings 401(a) - 102968

		- MARKET VALUE -			
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Cash and Equivalents - Money Market	CREF Money Market R3	\$8,004	0.72%	\$5,574	0.48%
Cash and Equivalents - Money Market	Vanguard Federal Money Market Investor	\$0	0.00%	\$0	0.00%
Stable Value	TIAA Traditional - Group Retirement Annuity	\$343,012	31.06%	\$331,667	28.60%
Inflation Protected Bond	CREF Inflation-Linked Bond R3	\$17,093	1.55%	\$16,120	1.39%
Fixed Income - Intermediate Core Bond	Vanguard Total Bond Market Index I	\$12,738	1.15%	\$13,765	1.19%
Intermediate Core-Plus Bond	PGIM Total Return Bond R6	\$24,413	2.21%	\$21,432	1.85%
World Allocation	CREF Social Choice R3	\$23,450	2.12%	\$27,461	2.37%
Target Date Ret Income Moderate	Vanguard Instl Trgt Retire Inc Instl	-	-	\$57,204	4.93%
Target Date Ret Income Moderate	Vanguard Target Retirement Income Inv	\$623	0.06%	-	-
Target Date 2015 Moderate	Vanguard Instl Trgt Retire 2015 Instl	-	-	\$13,657	1.18%
Target Date 2015 Moderate	Vanguard Target Retirement 2015 Inv	\$0	0.00%	-	-
Target Date 2020 Moderate	Vanguard Instl Trgt Retire 2020 Instl	-	-	\$48,739	4.20%
Target Date 2020 Moderate	Vanguard Target Retirement 2020 Inv	\$40,812	3.70%	-	-
Target Date 2025 Moderate	Vanguard Instl Trgt Retire 2025 Instl	-	-	\$2,019	0.17%
Target Date 2025 Moderate	Vanguard Target Retirement 2025 Inv	\$1,361	0.12%	-	-
Target Date 2030 Moderate	Vanguard Instl Trgt Retire 2030 Instl	-	-	\$368	0.03%
Target Date 2030 Moderate	Vanguard Target Retirement 2030 Inv	\$0	0.00%	-	-
Target Date 2035 Moderate	Vanguard Instl Trgt Retire 2035 Instl	-	-	\$814	0.07%

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Period Ending 12.31.19 | Q4 19

University of Maine System Optional Retirement Savings 401(a) - 102968

		-	MARKE	T VALUE -	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Target Date 2035 Moderate	Vanguard Target Retirement 2035 Inv	\$0	0.00%	-	-
Target Date 2040 Moderate	Vanguard Instl Trgt Retire 2040 Instl	-	-	\$0	0.00%
Target Date 2040 Moderate	Vanguard Target Retirement 2040 Inv	\$0	0.00%	-	-
Target Date 2045 Moderate	Vanguard Instl Trgt Retire 2045 Instl	-	-	\$0	0.00%
Target Date 2045 Moderate	Vanguard Target Retirement 2045 Inv	\$0	0.00%	-	-
Target Date 2050 Moderate	Vanguard Instl Trgt Retire 2050 Instl	-	-	\$0	0.00%
Target Date 2050 Moderate	Vanguard Target Retirement 2050 Inv	\$0	0.00%	-	-
Target Date 2055 Moderate	Vanguard Instl Trgt Retire 2055 Instl	-	-	\$0	0.00%
Target Date 2055 Moderate	Vanguard Target Retirement 2055 Inv	\$0	0.00%	-	-
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2060 Instl	-	-	\$0	0.00%
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2065 Instl	-	-	\$0	0.00%
Target Date 2060+ Moderate	Vanguard Target Retirement 2060 Inv	\$0	0.00%	-	-
Target Date 2060+ Moderate	Vanguard Target Retirement 2065 Inv	\$0	0.00%	-	-
Allocation85%+ Equity	CREF Stock R3	\$119,792	10.85%	\$120,650	10.40%
Large Company Value	JHancock Disciplined Value R6	\$7,768	0.70%	\$12,326	1.06%
Large Company Blend	Vanguard Institutional Index I	\$6,720	0.61%	\$5,824	0.50%
Large Company Growth	Harbor Capital Appreciation Retirement	\$1,077	0.10%	\$1,623	0.14%
Medium Company Value	Virtus Ceredex Mid-Cap Value Equity R6	\$551	0.05%	\$3,852	0.33%

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Period Ending 12.31.19 | Q4 19

			- MARKET VALUE -			
FUND OPTION	CURRENT INVESTMENT NAME		12.31.2018	(%)	CURRENT	(%)
Medium Company Blend	Vanguard Extended Market Index Instl		\$550	0.05%	\$517	0.04%
Medium Company Growth	Goldman Sachs Growth Opportunities R6		\$18,314	1.66%	-	-
Medium Company Growth	MFS Mid Cap Growth R6		-	-	\$22,325	1.93%
Foreign Large Blend	American Funds Europacific Growth R6		-	-	\$4,678	0.40%
Foreign Large Blend	MFS International Intrinsic Value R6		\$16,797	1.52%	\$18,497	1.59%
Foreign Large Blend	Vanguard Total Intl Stock Index I		\$640	0.06%	\$917	0.08%
Foreign Large Growth	Oppenheimer International Growth I		\$200	0.02%	-	-
Small Company Value	Victory Sycamore Small Company Opp I		\$366	0.03%	\$34,644	2.99%
Small Company Growth	Carillon Eagle Small Cap Growth R6		\$408	0.04%	\$4,389	0.38%
Emerging Markets	DFA Emerging Markets Core Equity I		\$15,693	1.42%	\$15,943	1.37%
Specialty-Private Real Estate	TIAA Real Estate Account		\$56,699	5.13%	\$59,303	5.11%
Other Assets	Frozen TIAA Annuities		\$249,934	22.63%	\$181,674	15.67%
Self-Directed Brokerage	Self Directed Accounts		\$137,233	12.43%	\$133,725	11.53%
		TOTALS	\$1,104,249	100%	\$1,159,708	100%

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Period Ending 12.31.19 | Q4 19

Iniversity of Maine System Basic Retirement Plan for Classified Employees 403(b) - 102969						
		- MARKET VALUE -				
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)	
Cash and Equivalents - Money Market	CREF Money Market R3	\$1,371,931	3.91%	\$373,651	0.90%	
Cash and Equivalents - Money Market	Vanguard Federal Money Market Investor	\$19,321	0.06%	\$53,185	0.13%	
Stable Value	TIAA Traditional - Group Retirement Annuity	\$6,550,622	18.65%	\$6,866,182	16.50%	
Inflation Protected Bond	CREF Inflation-Linked Bond R3	\$518,912	1.48%	\$579,185	1.39%	
Fixed Income - Intermediate Core Bond	Vanguard Total Bond Market Index I	\$115,399	0.33%	\$129,103	0.31%	
Intermediate Core-Plus Bond	PGIM Total Return Bond R6	\$851,848	2.43%	\$1,161,684	2.79%	
World Allocation	CREF Social Choice R3	\$910,818	2.59%	\$1,094,085	2.63%	
Target Date Ret Income Moderate	Vanguard Instl Trgt Retire Inc Instl	-	-	\$467,189	1.12%	
Target Date Ret Income Moderate	Vanguard Target Retirement Income Inv	\$400,402	1.14%	-	-	
Target Date 2015 Moderate	Vanguard Instl Trgt Retire 2015 Instl	-	-	\$660,575	1.59%	
Target Date 2015 Moderate	Vanguard Target Retirement 2015 Inv	\$370,253	1.05%	-	-	
Target Date 2020 Moderate	Vanguard Instl Trgt Retire 2020 Instl	-	-	\$2,167,248	5.21%	
Target Date 2020 Moderate	Vanguard Target Retirement 2020 Inv	\$1,428,448	4.07%	-	-	
Target Date 2025 Moderate	Vanguard Instl Trgt Retire 2025 Instl	-	-	\$2,318,848	5.57%	
Target Date 2025 Moderate	Vanguard Target Retirement 2025 Inv	\$1,435,893	4.09%	-	-	
Target Date 2030 Moderate	Vanguard Instl Trgt Retire 2030 Instl	-	-	\$1,476,628	3.55%	
Target Date 2030 Moderate	Vanguard Target Retirement 2030 Inv	\$695,804	1.98%	-	-	
Target Date 2035 Moderate	Vanguard Instl Trgt Retire 2035 Instl	-	-	\$1,040,941	2.50%	

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University of Maine System Basic Retirement Plan for Classified Employees 403(b) - 102969

Period Ending 12.31.19 | Q4 19

University of Plane System Basic Retire	ement Plan for Classified Employees 403(b) - 102969	-	- MARKET VALUE -			
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)	
Target Date 2035 Moderate	Vanguard Target Retirement 2035 Inv	\$461,102	1.31%	-	-	
Target Date 2040 Moderate	Vanguard Instl Trgt Retire 2040 Instl	-	-	\$1,287,603	3.09%	
Target Date 2040 Moderate	Vanguard Target Retirement 2040 Inv	\$527,090	1.50%	-	-	
Target Date 2045 Moderate	Vanguard Instl Trgt Retire 2045 Instl	-	-	\$629,380	1.51%	
Target Date 2045 Moderate	Vanguard Target Retirement 2045 Inv	\$378,277	1.08%	-	-	
Target Date 2050 Moderate	Vanguard Instl Trgt Retire 2050 Instl	-	-	\$316,252	0.76%	
Target Date 2050 Moderate	Vanguard Target Retirement 2050 Inv	\$159,959	0.46%	-	-	
Target Date 2055 Moderate	Vanguard Instl Trgt Retire 2055 Instl	-	-	\$339,771	0.82%	
Target Date 2055 Moderate	Vanguard Target Retirement 2055 Inv	\$187,988	0.54%	-	-	
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2060 Instl	-	-	\$109,252	0.26%	
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2065 Instl	-	-	\$7,210	0.02%	
Target Date 2060+ Moderate	Vanguard Target Retirement 2060 Inv	\$49,443	0.14%	-	-	
Target Date 2060+ Moderate	Vanguard Target Retirement 2065 Inv	\$1,769	0.01%	-	-	
Allocation85%+ Equity	CREF Stock R3	\$3,053,369	8.69%	\$3,472,056	8.34%	
Large Company Value	JHancock Disciplined Value R6	\$703,713	2.00%	\$902,897	2.17%	
Large Company Blend	Vanguard Institutional Index I	\$989,242	2.82%	\$1,289,815	3.10%	
Large Company Growth	Harbor Capital Appreciation Retirement	\$447,951	1.28%	\$2,313,271	5.56%	
Medium Company Value	Virtus Ceredex Mid-Cap Value Equity R6	\$314,378	0.90%	\$608,577	1.46%	

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Period Ending 12.31.19 | Q4 19

Iniversity of Maine System Basic Retir	ement Plan for Classified Employees 403(b) - 102969	Г				
			_	MARKET	VALUE -	
FUND OPTION	CURRENT INVESTMENT NAME		12.31.2018	(%)	CURRENT	(%)
Medium Company Blend	Vanguard Extended Market Index Instl		\$436,113	1.24%	\$438,567	1.05%
Medium Company Growth	Goldman Sachs Growth Opportunities R6		\$246,048	0.70%	-	
Medium Company Growth	MFS Mid Cap Growth R6		-	-	\$452,990	1.09%
Foreign Large Blend	American Funds Europacific Growth R6		-	-	\$171,969	0.41%
Foreign Large Blend	MFS International Intrinsic Value R6		\$846,757	2.41%	\$1,064,739	2.56%
Foreign Large Blend	Vanguard Total Intl Stock Index I		\$470,116	1.34%	\$701,376	1.68%
Foreign Large Growth	Oppenheimer International Growth I		\$72,983	0.21%	-	
Small Company Value	Victory Sycamore Small Company Opp I		\$213,626	0.61%	\$623,906	1.50%
Small Company Growth	Carillon Eagle Small Cap Growth R6		\$162,294	0.46%	\$207,116	0.50%
Emerging Markets	DFA Emerging Markets Core Equity I		\$597,850	1.70%	\$700,697	1.689
Specialty-Private Real Estate	TIAA Real Estate Account		\$2,054,078	5.85%	\$2,255,859	5.429
Other Assets	Frozen TIAA Annuities		\$5,424,116	15.44%	\$3,086,298	7.419
Self-Directed Brokerage	Self Directed Accounts		\$2,656,996	7.56%	\$2,252,294	5.419
Loan	Default Loan		-	-	\$4,740	0.01
		TOTALS	\$35,124,910	100%	\$41,625,140	100

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University of Maine System Basic Retirement Plan for Classified Employees 401(a) - 102970

Period Ending 12.31.19 | Q4 19

University of Plane System Basic Retiremen	it Plan for Classified Employees 401(a) - 102970	-	MARKET	VALUE -	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Cash and Equivalents - Money Market	CREF Money Market R3	\$2,164,846	3.23%	\$1,018,254	1.29%
Cash and Equivalents - Money Market	Vanguard Federal Money Market Investor	\$103,838	0.15%	\$109,997	0.14%
Stable Value	TIAA Traditional - Group Retirement Annuity	\$14,737,647	22.00%	\$15,121,286	19.10%
Inflation Protected Bond	CREF Inflation-Linked Bond R3	\$1,059,929	1.58%	\$1,108,347	1.40%
Fixed Income - Intermediate Core Bond	Vanguard Total Bond Market Index I	\$246,046	0.37%	\$308,509	0.39%
Intermediate Core-Plus Bond	PGIM Total Return Bond R6	\$1,497,133	2.23%	\$1,960,444	2.48%
World Allocation	CREF Social Choice R3	\$2,555,632	3.81%	\$2,973,565	3.76%
Target Date Ret Income Moderate	Vanguard Instl Trgt Retire Inc Instl	-	-	\$936,209	1.18%
Target Date Ret Income Moderate	Vanguard Target Retirement Income Inv	\$782,154	1.17%	-	-
Target Date 2015 Moderate	Vanguard Instl Trgt Retire 2015 Instl	-	-	\$1,419,320	1.79%
Target Date 2015 Moderate	Vanguard Target Retirement 2015 Inv	\$795,796	1.19%	-	-
Target Date 2020 Moderate	Vanguard Instl Trgt Retire 2020 Instl	-	-	\$3,047,795	3.85%
Target Date 2020 Moderate	Vanguard Target Retirement 2020 Inv	\$1,971,028	2.94%	-	-
Target Date 2025 Moderate	Vanguard Instl Trgt Retire 2025 Instl	-	-	\$3,798,857	4.80%
Target Date 2025 Moderate	Vanguard Target Retirement 2025 Inv	\$2,201,354	3.29%	-	-
Target Date 2030 Moderate	Vanguard Instl Trgt Retire 2030 Instl	-	-	\$2,494,237	3.15%
Target Date 2030 Moderate	Vanguard Target Retirement 2030 Inv	\$1,137,658	1.70%	-	-
Target Date 2035 Moderate	Vanguard Instl Trgt Retire 2035 Instl	-	-	\$1,768,927	2.23%

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Period Ending 12.31.19 | Q4 19

University of Maine System Basic Retir	rement Plan for Classified Employees 401(a) - 102970				
		-	MARKET	rvalue —	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Target Date 2035 Moderate	Vanguard Target Retirement 2035 Inv	\$929,292	1.39%	-	-
Target Date 2040 Moderate	Vanguard Instl Trgt Retire 2040 Instl	-	-	\$1,812,619	2.29%
Target Date 2040 Moderate	Vanguard Target Retirement 2040 Inv	\$809,531	1.21%	-	-
Target Date 2045 Moderate	Vanguard Instl Trgt Retire 2045 Instl	-	-	\$1,065,907	1.35%
Target Date 2045 Moderate	Vanguard Target Retirement 2045 Inv	\$613,813	0.92%	-	-
Target Date 2050 Moderate	Vanguard Instl Trgt Retire 2050 Instl	-	-	\$530,597	0.67%
Target Date 2050 Moderate	Vanguard Target Retirement 2050 Inv	\$290,146	0.43%	-	-
Target Date 2055 Moderate	Vanguard Instl Trgt Retire 2055 Instl	-	-	\$321,621	0.41%
Target Date 2055 Moderate	Vanguard Target Retirement 2055 Inv	\$173,984	0.26%	-	-
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2060 Instl	-	-	\$96,173	0.12%
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2065 Instl	-	-	\$6,515	0.01%
Target Date 2060+ Moderate	Vanguard Target Retirement 2060 Inv	\$45,984	0.07%	-	-
Target Date 2060+ Moderate	Vanguard Target Retirement 2065 Inv	\$1,769	0.00%	-	-
Allocation85%+ Equity	CREF Stock R3	\$7,778,316	11.61%	\$9,005,732	11.38%
Large Company Value	JHancock Disciplined Value R6	\$1,025,700	1.53%	\$1,408,992	1.78%
Large Company Blend	Vanguard Institutional Index I	\$1,719,143	2.57%	\$4,180,265	5.28%
Large Company Growth	Harbor Capital Appreciation Retirement	\$1,027,266	1.53%	\$2,063,983	2.61%
Medium Company Value	Virtus Ceredex Mid-Cap Value Equity R6	\$439,521	0.66%	\$825,380	1.04%

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Period Ending 12.31.19 | Q4 19

Iniversity of Maine System Basic Retir	ement Plan for Classified Employees 401(a) - 102970	-	- MARKET VALUE -						
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)				
Medium Company Blend	Vanguard Extended Market Index Instl	\$736,299	1.10%	\$809,625	1.02%				
Medium Company Growth	Goldman Sachs Growth Opportunities R6	\$412,042	0.61%	-	-				
Medium Company Growth	MFS Mid Cap Growth R6	-	-	\$810,040	1.02%				
Foreign Large Blend	American Funds Europacific Growth R6	-	-	\$225,733	0.29%				
Foreign Large Blend	MFS International Intrinsic Value R6	\$1,517,269	2.26%	\$2,019,170	2.55%				
Foreign Large Blend	Vanguard Total Intl Stock Index I	\$728,621	1.09%	\$1,193,286	1.51%				
Foreign Large Growth	Oppenheimer International Growth I	\$104,291	0.16%	-	-				
Small Company Value	Victory Sycamore Small Company Opp I	\$340,374	0.51%	\$856,010	1.08%				
Small Company Growth	Carillon Eagle Small Cap Growth R6	\$198,893	0.30%	\$301,099	0.38%				
Emerging Markets	DFA Emerging Markets Core Equity I	\$924,399	1.38%	\$1,209,663	1.53%				
Specialty-Private Real Estate	TIAA Real Estate Account	\$3,628,969	5.42%	\$3,929,434	4.96%				
Other Assets	Frozen TIAA Annuities	\$12,177,225	18.18%	\$8,510,025	10.75%				
Self-Directed Brokerage	Self Directed Accounts	\$2,123,109	3.17%	\$1,904,743	2.41%				
	т	STALS \$66,999,016	100%	\$79,152,359	100%				

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Period Ending 12.31.19 | Q4 19

University of Maine System Deferred Compensation Plan 457(b) - 102971

		-	MARKET	VALUE -	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Cash and Equivalents - Money Market	CREF Money Market R3	\$1,205,273	4.00%	\$414,215	1.15%
Cash and Equivalents - Money Market	Vanguard Federal Money Market Investor	\$76,407	0.25%	\$125,328	0.35%
Stable Value	TIAA Traditional - Group Retirement Annuity	\$7,899,472	26.22%	\$8,807,621	24.39%
Inflation Protected Bond	CREF Inflation-Linked Bond R3	\$557,696	1.85%	\$556,737	1.54%
Fixed Income - Intermediate Core Bond	Vanguard Total Bond Market Index I	\$155,447	0.52%	\$265,366	0.73%
Intermediate Core-Plus Bond	PGIM Total Return Bond R6	\$1,102,632	3.66%	\$1,370,230	3.80%
World Allocation	CREF Social Choice R3	\$1,359,775	4.51%	\$1,726,380	4.78%
Target Date Ret Income Moderate	Vanguard Instl Trgt Retire Inc Instl	-	-	\$599,378	1.66%
Target Date Ret Income Moderate	Vanguard Target Retirement Income Inv	\$449,876	1.49%	-	-
Target Date 2015 Moderate	Vanguard Instl Trgt Retire 2015 Instl	-	-	\$1,077,723	2.98%
Target Date 2015 Moderate	Vanguard Target Retirement 2015 Inv	\$506,383	1.68%	-	-
Target Date 2020 Moderate	Vanguard Instl Trgt Retire 2020 Instl	-	-	\$1,501,061	4.16%
Target Date 2020 Moderate	Vanguard Target Retirement 2020 Inv	\$878,160	2.91%	-	-
Target Date 2025 Moderate	Vanguard Instl Trgt Retire 2025 Instl	-	-	\$1,049,234	2.91%
Target Date 2025 Moderate	Vanguard Target Retirement 2025 Inv	\$971,820	3.23%	-	-
Target Date 2030 Moderate	Vanguard Instl Trgt Retire 2030 Instl	-	-	\$806,872	2.23%
Target Date 2030 Moderate	Vanguard Target Retirement 2030 Inv	\$548,525	1.82%	-	-
Target Date 2035 Moderate	Vanguard Instl Trgt Retire 2035 Instl		-	\$566,931	1.57%

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Period Ending 12.31.19 | Q4 19

University of Maine System Deferred Compensation Plan 457(b) - 102971

		-	MARKET	VALUE -	
FUND OPTION	CURRENT INVESTMENT NAME	12.31.2018	(%)	CURRENT	(%)
Target Date 2035 Moderate	Vanguard Target Retirement 2035 Inv	\$367,559	1.22%	-	-
Target Date 2040 Moderate	Vanguard Instl Trgt Retire 2040 Instl	-	-	\$466,254	1.29%
Target Date 2040 Moderate	Vanguard Target Retirement 2040 Inv	\$314,980	1.05%	-	-
Target Date 2045 Moderate	Vanguard Instl Trgt Retire 2045 Instl	-	-	\$213,711	0.59%
Target Date 2045 Moderate	Vanguard Target Retirement 2045 Inv	\$157,570	0.52%	-	-
Target Date 2050 Moderate	Vanguard Instl Trgt Retire 2050 Instl	-	-	\$51,341	0.14%
Target Date 2050 Moderate	Vanguard Target Retirement 2050 Inv	\$37,154	0.12%	-	-
Target Date 2055 Moderate	Vanguard Instl Trgt Retire 2055 Instl	-	-	\$3,325	0.01%
Target Date 2055 Moderate	Vanguard Target Retirement 2055 Inv	\$288	0.00%	-	-
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2060 Instl	-	-	\$877	0.00%
Target Date 2060+ Moderate	Vanguard Instl Trgt Retire 2065 Instl	-	-	\$0	0.00%
Target Date 2060+ Moderate	Vanguard Target Retirement 2060 Inv	\$0	0.00%	-	-
Target Date 2060+ Moderate	Vanguard Target Retirement 2065 Inv	\$0	0.00%	-	-
Allocation85%+ Equity	CREF Stock R3	\$1,778,279	5.90%	\$2,047,031	5.67%
Large Company Value	JHancock Disciplined Value R6	\$606,838	2.01%	\$728,733	2.02%
Large Company Blend	Vanguard Institutional Index I	\$1,500,515	4.98%	\$3,062,223	8.48%
Large Company Growth	Harbor Capital Appreciation Retirement	\$403,685	1.34%	\$922,815	2.56%
Medium Company Value	Virtus Ceredex Mid-Cap Value Equity R6	\$282,698	0.94%	\$604,679	1.67%

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Period Ending 12.31.19 | Q4 19

University of Maine System Deferred Compensation Plan 457(b) - 102971

			-	MARKET	VALUE -	
FUND OPTION	CURRENT INVESTMENT NAME		12.31.2018	(%)	CURRENT	(%)
Medium Company Blend	Vanguard Extended Market Index Instl		\$671,538	2.23%	\$831,053	2.30%
Medium Company Growth	Goldman Sachs Growth Opportunities R6		\$149,980	0.50%	-	-
Medium Company Growth	MFS Mid Cap Growth R6		-	-	\$349,438	0.97%
Foreign Large Blend	American Funds Europacific Growth R6		-	-	\$250,337	0.69%
Foreign Large Blend	MFS International Intrinsic Value R6		\$604,312	2.01%	\$823,093	2.28%
Foreign Large Blend	Vanguard Total Intl Stock Index I		\$446,512	1.48%	\$753,202	2.09%
Foreign Large Growth	Oppenheimer International Growth I		\$98,030	0.33%	-	-
Small Company Value	Victory Sycamore Small Company Opp I		\$246,682	0.82%	\$432,749	1.20%
Small Company Growth	Carillon Eagle Small Cap Growth R6		\$124,423	0.41%	\$198,221	0.55%
Emerging Markets	DFA Emerging Markets Core Equity I		\$500,334	1.66%	\$614,151	1.70%
Specialty-Private Real Estate	TIAA Real Estate Account		\$2,076,757	6.89%	\$2,167,162	6.00%
Other Assets	Frozen TIAA Annuities		\$3,116,681	10.34%	\$1,998,549	5.54%
Self-Directed Brokerage	Self Directed Accounts		\$932,610	3.10%	\$719,229	1.99%
		TOTALS	\$30,128,891	100%	\$36,105,245	100%

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INVESTMENT				QUALITATIVE		TOTALS						
	Risk-Ad Perfori			Peers mance	St	yle	Confi	dence	Fund	Fund	Overall	Total
	3 Yr	5 Yr	3 Yr	5 Yr	3 Yr	5 Yr	3 Yr	5 Yr	Management	Firm		Score
Inflation Protected Bond CREF Inflation-Linked Bond R3			$\overline{}$	$\overline{}$						$\overline{}$		85
Intermediate Core-Plus Bond PGIM Total Return Bond R6												100
World Allocation CREF Social Choice R3										\checkmark		99
Large Company Value JHancock Disciplined Value R6	$\overline{}$							$\overline{}$				81
Large Company Growth Harbor Capital Appreciation Retirement												97
Medium Company Value Virtus Ceredex Mid-Cap Value Equity R6												100
Medium Company Growth MFS Mid Cap Growth R6												100
Foreign Large Blend American Funds Europacific Growth R6												100

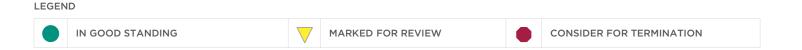
IN GOOD STANDING	$\overline{}$	MARKED FOR REVIEW	CONSIDER FOR TERMINATION	CONTINUED

The CAPTRUST Investment Policy Monitor ("Scorecard") is an illustration of our monitoring system and is designed to assist our clients in their efforts to provide fiduciary oversight to investment assets. It is not intended as a solicitation to buy any security. The scoring system measures quantitative areas as well as qualitative (or subjective) fields for actively managed investment options. Quantitative scoring areas include Risk Adjusted Performance (3 & 5 yr.); Performance vs. Relevant Peer Group; Style Attribution; and Confidence. Qualitative Scoring Areas measures the quality of the Management Team while also considering the stewardship of the investment option's parent company under Investment Family Items. Qualitative areas of analysis are subjective in nature. CAPTRUST typically requires at least 3 months of monitoring before including an investment in this report. Investments that have been added to our system less than 3 months prior to a report being generated may have a Fund Management assessment of '25' as a default, but will be updated, if necessary, after the first quarter of monitoring the flect our system. Investments that are not mutual funds or have less than 3 years of performance history may not be scored. This material is for institutional investor use only and is not intended to be shared with individual investors.

Period Ending 12.31.19 | Q4 19

University of Maine System

INVESTMENT				QUALITATIVE		TOTALS						
	Risk-Ac Perfori			Peers mance	St	yle	Confi	dence	Fund	Fund	Overall	Total Score
	3 Yr	5 Yr	3 Yr	5 Yr	3 Yr	5 Yr	3 Yr	5 Yr	Management	Firm		
Foreign Large Blend MFS International Intrinsic Value R6					$\overline{}$							97
Small Company Value Victory Sycamore Small Company Opp I												100
Small Company Growth Carillon Eagle Small Cap Growth R6	\checkmark		$\overline{}$	$\overline{}$				$\overline{}$		\checkmark		77
Emerging Markets DFA Emerging Markets Core Equity I	$\overline{}$		$\overline{}$	$\overline{}$			$\overline{}$	$\overline{}$				78



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University of Maine System

TARGET DATE INVESTMENTS

INVESTMENT	QUANTITATIVE							QUALIT	TOTALS			
		djusted mance		Peers mance	Glide	epath	Portfolio	Underlying	Fund	Fund		Total
	3 Yr	5 Yr	3 Yr	5 Yr	% of Equities	Beta to Equities		Inv. Vehicles	Mgmt	Firm	Overall	Score
Vanguard Instl Target Retire												96

CAPITAL PRESERVATION INVESTMENTS

INVESTMENT	Overall	Commentary
CREF Money Market R3		This Capital Preservation option is in good standing per the guidelines as established by the Investment Policy Statement.
Vanguard Federal Money Market Investor		This Capital Preservation option is in good standing per the guidelines as established by the Investment Policy Statement.
TIAA Traditional - Group Retirement Annuity		This Capital Preservation option is in good standing per the guidelines as established by the Investment Policy Statement.

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The CAPTRUST Financial Advisors Investment Scorecard is an illustration of our monitoring system and is designed to assist our clients in their efforts to provide fiduciary oversight to investment assets. It is not intended as a solicitation to buy any security. The scoring system measures quantitative areas as well as qualitative (or subjective) fields. Quantitative scoring areas for target date funds include Risk Adjusted Performance (3. & yr.); Performance vs. Relevant Peer Group; and Gidepath. Qualitative Scoring Areas for target date funds include Risk Adjusted Performance (3. & yr.); Performance vs. Relevant Peer Group; and Gidepath. Qualitative Scoring for Target Date funds also includes a score for Portfolio Construction and Underlying Investment vehicles to express CAPTRUST's views on the manager or strategy. CAPTRUST typically requires at least 3 months of monitoring before including an investment in this report. Investments that have been added to our system less than 3 months prior to a report being generated may have a Fund Management assessment of '25' as a default, but will be updated, if necessary, after the first quarter of monitoring to more accurately reflect our system. Investments that are not mutual funds or have less than 3 years of performance history may not be scored. Capital Preservation options are evaluated using a comprehensive scoring methodology proprietary to the Investment Consultant. This methodology incorporates both qualitative and quantitative metrics, depending on the type of capital preservation option being evaluated, and may include quantitative metrics and as: Crediting Rate/Yield, Market to Book Ratio, Average Crediting Quality, Jinsurer Quality Diversification, Duration, and Sector Allocations, and/or qualitative criteria such as quality and experience of the Management Team and stewardship of the investment option's parent company. Passively Managed options are evaluated using a comprehensive scoring methodology incorporates both qualitative and quantitative metrics

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PASSIVE INVESTMENTS

INVESTMENT	Overall	Commentary
Vanguard Total Bond Market Index I		This fund currently meets the guidelines set forth by CAPTRUST for passively managed investments. This assessment is based on both quantitative and qualitative data. Examples of quantitative and qualitative items considered include, but are not limited to, quality of management, tracking error, and cost.
Vanguard Institutional Index I		This fund currently meets the guidelines set forth by CAPTRUST for passively managed investments. This assessment is based on both quantitative and qualitative data. Examples of quantitative and qualitative items considered include, but are not limited to, quality of management, tracking error, and cost.
Vanguard Extended Market Index Instl	٠	This fund currently meets the guidelines set forth by CAPTRUST for passively managed investments. This assessment is based on both quantitative and qualitative data. Examples of quantitative and qualitative items considered include, but are not limited to, quality of management, tracking error, and cost.
Vanguard Total Intl Stock Index I		This fund currently meets the guidelines set forth by CAPTRUST for passively managed investments. This assessment is based on both quantitative and qualitative data. Examples of quantitative and qualitative items considered include, but are not limited to, quality of management, tracking error, and cost.

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The CAPTRUST Financial Advisors Investment Scorecard is an illustration of our monitoring system and is designed to assist our clients in their efforts to provide fiduciary oversight to investment assets. It is not intended as a solicitation to buy any security. The scoring system measures quantitative areas as well as qualitative (or subjective) fields. Quantitative scoring areas for target date funds include Risk Adjusted Performance (3 & 5 yr.); Performance vs. Relevant Peer Group; and Glidepath. Qualitative Scoring Areas for target date funds measure the quality of the Management Team while also considering the stewardship of the investment option's parent company under Investment Family Items. Qualitative areas of analysis are subjective in nature. Qualitative Scoring for Target Date funds also includes a score for Portfolio Construction and Underlying Investment vehicles to express CAPTRUST's views on the manager or strategy. CAPTRUST typically requires at least 3 months of monitoring before including an investment in this report. Investments that have been added to our system less than 3 months prior to a report being generated may have a Fund Management assessment of '25' as a default, but will be updated, if necessary, after the first quarter of monitoring to more accurately reflect our system. Investments that are not mutual funds or have less than 3 years of performance history projectary to the Investment Consultant. This methodology incorporates both qualitative and quantitative metrics, depending on the type of capital preservation option being evaluated, and may include quantitative criteria such as: Crediting Rate/Yield, Market to Book Ratio, Average Crediting Quality, Insurer Quality/Diversification, Duration, and Sector Allocations, and/or qualitative criteria such as quality and experience of the Management Team and stewardship of the investment option's parent company. Passively Managed options are evaluated using a comprehensive scoring methodology. Distinct investment option's parent compa

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University of Maine System

INVESTMENTS IN DISTINCT ASSET CLASSES

INVESTMENT	Overall	Commentary
CREF Stock R3	•	This fund currently meets the guidelines set forth by CAPTRUST for distinct investments in the Investment Policy Statement. This assessment is based on both quantitative and qualitative data. Examples of quantitative and qualitative items considered include, but are not limited to, quality of management, excess return, and risk-adjusted performance.
TIAA Real Estate Account	•	This fund currently meets the guidelines set forth by CAPTRUST for distinct investments in the Investment Policy Statement. This assessment is based on both quantitative and qualitative data. Examples of quantitative and qualitative items considered include, but are not limited to, quality of management, excess return, and risk-adjusted performance.

The CAPTRUST Financial Advisors Investment Scorecard is an illustration of our monitoring system and is designed to assist our clients in their efforts to provide fiduciary oversight to investment assets. It is not intended as a solicitation to buy any security. The scoring system measures quantitative areas as well as qualitative (or subjective) fields. Quantitative scoring areas for target date funds include Risk Adjusted Performance (3. & yr.); Performance vs. Relevant Peer Group; and Gildepath. Qualitative Scoring for Target date funds includes measures the quality of the Management Team while also considering the stewardship of the investment option's parent company under Investment Family Items. Qualitative areas of analysis are subjective in nature. Qualitative Scoring for Target Date funds also includes a score for Portfolio Construction and Underlying Investment vehicles to express CAPTRUST's views on the manager or strategy. CAPTRUST typically requires at least 3 months of monitoring before including an investment in this report. Investments that have been added to our system less than 3 months prior to a report being generated may have a Fund Management of '25' as a default, but will be updated, if necessary, after the first quarter of monitoring to more accurately reflect our system. Investments that are not mutual funds or have less than 3 years of performance history may not be scored. Capital preservation options are evaluated, and may include quantitative criteria such as: Crediting Rate/Yield, Market to Book Ratio, Average Crediting Quality, Insure Quality and experience of the Management Team and stewardship of the investment option's parent company. Passively Managed options are evaluated using a comprehensive scoring methodology proprietary to the Investment option's parent consultant. This methodology incorporates both qualitative entrois such as index replication strategy, securities and partices, and fair value pricing methodology. Distinct investment option's parent company. Passively Ma

PLAN INVESTMENT REVIEW | PLAN PERFORMANCE MEASUREMENT

University of Maine System

Plan Performance Success Rate: Average score of plan investments illustrated below

					70) or >	80) or >					
50 ————						į				94		100	,
50						1						100	,
									A۱	/G SCOR	E		
INVESTMENT NAME	Q1 17	Q2 17	Q3 17	Q4 17	Q1 18	Q2 18	Q3 18	Q4 18	Q1 19	Q2 19	Q3 19	Q4 19	AVERAGE
CREF Inflation-Linked Bond R3	87	88	91	88	86	93	91	93	93	93	82	85	89
PGIM Total Return Bond R6	100	100	100	100	100	100	100	100	100	100	100	100	100
CREF Social Choice R3	99	100	100	100	100	100	100	100	99	100	100	99	99
Vanguard Instl Target Retire	-	-	-	-	-	-	-	-	-	-	96	96	96
JHancock Disciplined Value R6	83	93	89	93	95	86	88	88	81	88	83	81	87
Harbor Capital Appreciation Retirement	90	93	96	98	98	99	95	96	100	97	93	97	96
Virtus Ceredex Mid-Cap Value Equity R6	99	94	87	79	91	98	98	100	100	100	100	100	95
MFS Mid Cap Growth R6	-	-	-	-	-	-	-	-	99	100	100	100	99
American Funds Europacific Growth R6	-	-	-	-	-	-	-	-	100	100	100	100	100
MFS International Intrinsic Value R6	99	97	97	96	97	96	95	96	96	97	97	97	96
Victory Sycamore Small Company Opp I	100	100	99	100	100	99	99	100	100	100	100	100	99
Carillon Eagle Small Cap Growth R6	94	92	89	86	88	86	88	78	86	78	67	77	84
DFA Emerging Markets Core Equity I	95	90	88	90	90	89	91	97	83	86	78	78	87

SUMMARY: Over the previous quarters the plan investment options have averaged a score of 94.

Scores are calculated quarterly using the CAPTRUST Investment Policy Monitoring System ("Scorecard"). In the 4Q2013, our methodology changed utilizing different quantitative statistics than the prior system resulting in a re-categorization of some specific funds as either "passive" (funds designed to track a given benchmark) or "distinct" funds with a limited number of comparable funds, or funds with distinct strategies that do not have an appropriate benchmark. These funds (passive and/or distinct) will no longer be included in the Plan Performance Measurement Report but will continue to be included on the Investment Policy Monitor and be scored by CAPTRUST for their ability to achieve stated goals.

Period Ending 12.31.19 | Q4 19

INVESTMENT REVIEW | SELECT COMMENTARY

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University of Maine System

FUND MANAGEMENT ITEMS	COMMENTARY
American Funds EuroPacific Growth	
	Capital Group has announced that Portfolio Manager Mark Denning is no longer with the firm. Mark served as a portfolio manager of EuroPacific Growth Fund, Capital World Growth and Income, New World Fund, and New Economy Fund. He had been at the firm for 36 years and on EuroPacific Growth for 28 years. Mark was the longest tenured PM on EuroPac, although almost all of the PMs have been with the firm for 20+ years. This was an unexpected departure that the firm characterized as a personnel issue. Mark was responsible for a 7% sleeve of EuroPac. EuroPac has eleven portfolio managers who each manage a sleeve of the portfolio, which reduces the dependence on a single PM. Another sleeve is managed by the research analysts. EuroPac's PM line-up has been stable in recent years, with the latest departure in June 2014. Thus, this change does not impact our view of the strategy.
	Lara Pellini has been named a portfolio manager of the American Funds EuroPacific Growth Fund. Ms. Pellini has 17 years of investment experience, all with Capital Group. As part of the firm's succession planning, she has served as a portfolio manager on the EuroPacific Growth strategy on a trial basis for the past four years.
	Noriko Honda Chen and Gerald Du Manoir have been named portfolio managers of the American Funds EuroPacific Growth Fund. Ms. Honda Chen has 28 years of investment experience, 20 of which have been with Capital Group. Mr. Du Manoir brings 29 years of investment experience, 28 with Capital Group. With these additions, the EuroPacific Growth Fund will now have 11 portfolio managers.
DFA Emerging Markets Core Equity	
	DFA has incorporated a new factor, the investment effect, to their investment process for this strategy. Their research on the behavior of small cap stocks with high investment, as measured by asset growth, suggests underperformance. Therefore, DFA strategies that invest in small cap stocks may now begin to exclude small cap stocks that have exhibited high growth in assets.
	DFA Emerging Markets strategies no longer limit exposure to individual countries at 17.5% at the time of purchase.

INVESTMENT REVIEW | SELECT COMMENTARY

University of Maine System

FUND MANAGEMENT ITEMS	COMMENTARY
Carillon Eagle Small Cap Growth	
	Almost all of the strategy's 2019 underperformance occurred in Q3. Performance stabilized in Q4, as the strategy was in-line with the benchmark and near the top quartile in the peer group. Full year underperformance was driven by negative stock selection in healthcare, mainly in biotech. The strategy's biotech holdings gained 20% vs. a strong 45% rally for biotech in the index. This difference is mainly driven by biotech stocks that the strategy did not own which were acquired. Negative stock selection in financials also weighed on results due to Green Dot Financial. The stock was a top contributor in 2018 but was hurt in 2019 from increased industry competition. While the strategy has underperformed the peer group in recent years, it is only lagging the benchmark by about 50 basis points over five years. Since 2009, the strategy has been in the top half of the peer group in seven out of eleven years and in the bottom quartile of the peer group in only two years (2013 and 2018). We recommend that clients currently holding the strategy continue to do so.
John Hancock Disciplined Value	
	Co-CEO and CIO Jay Feeney became the sole CEO of Boston Partners, taking the lead role he had jointly shared with co-CEO Mark Donovan since 2008. Mr. Donovan, one of four portfolio managers to the John Hancock Disciplined Value Fund, will focus exclusively on his portfolio management responsibilities.
MFS International Intrinsic Value	
	Effective 2/1/2020, Philip Evans will join the portfolio management team of Benjamin Stone and Pablo de la Mata on the MFS International Intrinsic Value strategy. The addition of Mr. Evans is in preparation for the pending departure of Mr. de la Mata on 4/15/2022.
Vanguard Instl Target Retire	
	Vanguard is launching the Total International Bond II Index fund in February 2020. The fund will mirror the existing Total International Bond Index fund. It will serve as an underlying investment for Vanguard's suite of target date funds and other funds of funds, replacing Total International Bond. It will not be available for direct purchase by investors, allowing Vanguard to segregate institutional and retail assets.

INVESTMENT REVIEW | SELECT COMMENTARY

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University of Maine System

FUND FIRM ITEMS	COMMENTARY
TIAA-CREF	
	TIAA has consolidated the global equity investment teams of TIAA-CREF and Nuveen into one. As a result, several equity portfolio managers and other investment professionals have left the firm while others are taking on new portfolio and research assignments.
MFS Family of Funds	
	Effective 3/1/2020, the Equity department at MFS will move to a regional, co-CIO leadership structure across Asia, Europe, and the Americas. The co-CIO leadership team will be: Simon Gresham and Jeanine Thompson for Asia-Pacific, Christopher Jennings and David Shindler for Europe, and Kevin Beatty and Alison O'Neill for the Americas. All six individuals are currently leaders within the Equity Division and will report to Chief Investment Officer Ted Maloney. They will retain their current portfolio management responsibilities.
Eagle Asset Management, Inc.	
	Carillon Executive Vice President Court James recently retired. Ed Rick, who joined the firm in 2014, has taken over the role of executive vice president of Carillon and head of investments for Eagle.
Victory Capital Management	
	Victory recently reorganized its leadership structure, creating the Executive Committee and Distribution Committee. The Management Committee remains in place; however some of the members have changed to reflect a broader representation of leadership.
	Following Victory's completed acquisition of USAA Asset Management, Lisa Alexander, head of Direct Distribution and Brooks Englehardt, president of USAA Investments were added to Victory's Management Committee.
Virtus	
	Wendy Hills recently joined Virtus as chief legal officer, general counsel, and corporate secretary. She succeeds Mark Flynn, who retired. Ms. Hills also serves as general counsel and secretary for VFA, Duff & Phelps, KAR, Ceredex, and Seix.

PLAN INVESTMENT REVIEW | TARGET DATE REVIEW

University of Maine System

VANGUARD INSTITUTIONAL TARGET RETIREMENT

FOCUS AREA

Organizational

COMMENTARY

There were no material changes to the target date team during the quarter.

Investments

COMMENTARY

There were no changes made to the underlying investments of the Institutional Target Retirement series during the quarter.

Performance and Positioning

COMMENTARY

Vanguard Institutional Target Retirement Performance Update:

Vanguard Institutional Target Retirement finished off a solid year in 2019 as it performed in line with its benchmark and mostly outperformed peers.

- The series's performance was driven by its equity portfolio in the fourth quarter as global equity markets moved higher during the period.
- In a slight shift from the first three quarters of the year, Institutional Target Retirement benefited from its larger allocation to emerging markets equities relative to peers as emerging markets outperformed the U.S. in Q4.
- For the year, Institutional Target Retirement was also aided by its use of passive equity strategies as equity market indices outperformed most active managers in 2019.
- Despite being a slight detractor in the fourth quarter, Vanguard's passive fixed income exposure was a positive contributor for the year as bond indices outpaced active managers.

There were no changes made to the series's strategic asset allocation during the quarter.

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MEETING DATE: JANUARY 21, 2020

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University of Maine System

INVESTMENT NAME	Q4 '19	YTD '19	2018	2017	2016	2015	2014	1 YEAR*	3 YEAR*	5 YEAR*	10 YEAR*
CASH AND EQUIVALENTS - MONEY MARKET											
CREF Money Market R3	0.40%	2.02%	1.46%	0.50%	0.13%	0.00%	0.00%	2.02%	1.32%	0.82%	0.41%
Vanguard Federal Money Market Investor	0.43%	2.14%	1.78%	0.81%	0.30%	0.04%	0.01%	2.14%	1.58%	1.01%	0.51%
ICE BofA ML US Treasury Bill 3 Mon USD	0.46%	2.28%	1.87%	0.86%	0.33%	0.05%	0.03%	2.28%	1.67%	1.07%	0.58%
STABLE VALUE											
TIAA Traditional - Group Retirement Annuity					Curr	ent Rate is 3	.50%				
ICE BofA ML US Treasury Bill 3 Mon USD	0.46%	2.28%	1.87%	0.86%	0.33%	0.05%	0.03%	2.28%	1.67%	1.07%	0.58%
Hueler Stable Value Index (gross)	0.62%	2.52%	2.26%	1.95%	1.79%	1.77%	1.69%	2.52%	2.24%	2.06%	2.19%
INFLATION PROTECTED BOND											
CREF Inflation-Linked Bond R3	0.77%	6.53%	-0.49%	1.85%	4.23%	-1.68%	3.34%	6.53%	2.59%	2.04%	2.87%
BBgBarc US Treasury US TIPS TR USD	0.79%	8.43%	-1.26%	3.01%	4.68%	-1.44%	3.64%	8.43%	3.32%	2.62%	3.36%
Inflation Protected Bond Universe	1.00%	7.33%	-1.65%	2.51%	4.51%	-2.22%	1.96%	7.33%	2.66%	2.03%	2.60%
FIXED INCOME - INTERMEDIATE CORE BOND											
Vanguard Total Bond Market Index I	0.03%	8.73%	-0.01%	3.57%	2.61%	0.41%	5.90%	8.73%	4.03%	3.01%	3.70%
BBgBarc Aggregate Bond Index	0.18%	8.72%	0.01%	3.54%	2.65%	0.55%	5.97%	8.72%	4.03%	3.05%	3.75%
Intermediate Core Bond Universe	0.09%	8.07%	-0.39%	3.22%	2.59%	0.00%	5.06%	8.07%	3.57%	2.68%	3.55%
INTERMEDIATE CORE-PLUS BOND											
PGIM Total Return Bond R6	0.35%	11.13%	-0.63%	6.71%	4.83%	0.09%	7.25%	11.13%	5.62%	4.33%	5.52%
BBgBarc Aggregate Bond Index	0.18%	8.72%	0.01%	3.54%	2.65%	0.55%	5.97%	8.72%	4.03%	3.05%	3.75%
Intermediate Core Plus Bond Universe	0.34%	8.99%	-0.71%	4.28%	3.92%	-0.51%	5.49%	8.99%	4.11%	3.14%	4.29%

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University of Maine System

INVESTMENT NAME	Q4 '19	YTD '19	2018	2017	2016	2015	2014	1 YEAR*	3 YEAR*	5 YEAR*	10 YEAR*
WORLD ALLOCATION											
CREF Social Choice R3	5.14%	20.80%	-4.29%	14.27%	7.40%	-0.87%	6.83%	20.80%	9.73%	7.06%	8.29%
60% MSCI World 40% BBgBarc Agg Index	5.22%	20.42%	-4.76%	14.90%	6.09%	0.26%	5.77%	20.42%	9.64%	6.99%	7.75%
World Allocation Universe	5.00%	16.80%	-7.94%	14.02%	6.17%	-4.25%	2.21%	16.80%	7.22%	4.63%	6.28%
TARGET DATE RET INCOME MODERATE											
Vanguard Instl Trgt Retire Inc Instl	2.66%	13.20%	-1.98%	8.54%	5.29%	-	-	13.20%	6.39%	-	-
Morningstar Lifetime Moderate Income Index	3.23%	13.27%	-2.20%	8.55%	5.98%	-1.30%	4.09%	13.27%	6.34%	4.70%	5.68%
Retirement Income Moderate	2.71%	13.33%	-3.55%	9.24%	4.86%	-1.30%	4.47%	13.33%	6.06%	4.30%	5.21%
TARGET DATE 2015 MODERATE											
Vanguard Instl Trgt Retire 2015 Instl	3.27%	14.88%	-2.91%	11.50%	6.27%	-	-	14.88%	7.54%	-	-
Morningstar Lifetime Moderate 2015 Index	3.57%	16.29%	-3.54%	11.39%	7.10%	-1.73%	5.55%	16.29%	7.71%	5.63%	7.11%
2015 Moderate	3.64%	15.19%	-4.18%	11.21%	6.15%	-1.38%	4.75%	15.19%	7.04%	5.13%	6.57%
TARGET DATE 2020 MODERATE											
Vanguard Instl Trgt Retire 2020 Instl	4.47%	17.69%	-4.21%	14.13%	7.04%	-	-	17.69%	8.76%	-	-
Morningstar Lifetime Moderate 2020 Index	3.93%	17.73%	-4.16%	12.79%	7.66%	-1.88%	5.87%	17.73%	8.37%	6.10%	7.70%
2020 Moderate	4.18%	16.57%	-4.93%	13.25%	6.10%	-1.33%	5.13%	16.57%	7.87%	5.60%	7.27%
TARGET DATE 2025 MODERATE											
Vanguard Instl Trgt Retire 2025 Instl	5.25%	19.67%	-5.02%	15.94%	7.56%	-	-	19.67%	9.63%	-	-
Morningstar Lifetime Moderate 2025 Index	4.50%	19.36%	-4.90%	14.54%	8.39%	-2.06%	6.04%	19.36%	9.14%	6.66%	8.36%
2025 Moderate	4.90%	18.34%	-5.54%	15.15%	6.78%	-1.38%	5.27%	18.34%	8.77%	6.26%	7.98%

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University of Maine System

INVESTMENT NAME	Q4 '19	YTD '19	2018	2017	2016	2015	2014	1 YEAR*	3 YEAR*	5 YEAR*	10 YEAR*
TARGET DATE 2030 MODERATE											
Vanguard Instl Trgt Retire 2030 Instl	6.02%	21.14%	-5.82%	17.57%	7.97%	-	-	21.14%	10.28%	-	-
Morningstar Lifetime Moderate 2030 Index	5.32%	21.24%	-5.82%	16.59%	9.26%	-2.30%	6.01%	21.24%	10.01%	7.28%	9.01%
2030 Moderate	5.79%	20.55%	-6.43%	17.27%	7.27%	-1.36%	5.47%	20.55%	9.77%	6.97%	8.60%
TARGET DATE 2035 MODERATE											
Vanguard Instl Trgt Retire 2035 Instl	6.68%	22.56%	-6.56%	19.14%	8.39%	-	-	22.56%	10.91%	-	-
Morningstar Lifetime Moderate 2035 Index	6.29%	23.04%	-6.82%	18.52%	10.07%	-2.58%	5.80%	23.04%	10.76%	7.82%	9.47%
2035 Moderate	6.74%	22.37%	-7.33%	19.10%	7.72%	-1.45%	5.58%	22.37%	10.53%	7.48%	9.05%
TARGET DATE 2040 MODERATE											
Vanguard Instl Trgt Retire 2040 Instl	7.40%	23.93%	-7.31%	20.73%	8.81%	-	-	23.93%	11.52%	-	-
Morningstar Lifetime Moderate 2040 Index	7.10%	24.35%	-7.65%	19.87%	10.61%	-2.83%	5.51%	24.35%	11.24%	8.15%	9.68%
2040 Moderate	7.19%	23.69%	-7.90%	20.10%	7.53%	-1.39%	5.73%	23.69%	11.05%	7.77%	9.33%
TARGET DATE 2045 MODERATE											
Vanguard Instl Trgt Retire 2045 Instl	8.02%	25.07%	-7.87%	21.47%	8.94%	-	-	25.07%	11.86%	-	-
Morningstar Lifetime Moderate 2045 Index	7.57%	24.97%	-8.17%	20.53%	10.84%	-3.03%	5.25%	24.97%	11.42%	8.26%	9.69%
2045 Moderate	7.64%	24.40%	-8.42%	20.57%	7.89%	-1.89%	5.27%	24.40%	11.18%	7.84%	9.26%
TARGET DATE 2050 MODERATE											
Vanguard Instl Trgt Retire 2050 Instl	8.02%	25.05%	-7.87%	21.47%	8.95%	-	-	25.05%	11.85%	-	-
Morningstar Lifetime Moderate 2050 Index	7.73%	25.09%	-8.41%	20.78%	10.89%	-3.19%	5.00%	25.09%	11.43%	8.24%	9.61%
2050 Moderate	7.62%	24.67%	-8.33%	20.76%	7.77%	-1.60%	5.55%	24.67%	11.37%	7.95%	9.43%

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University of Maine System

INVESTMENT NAME	Q4 '19	YTD '19	2018	2017	2016	2015	2014	1 YEAR*	3 YEAR*	5 YEAR*	10 YEAR*
TARGET DATE 2055 MODERATE											
Vanguard Instl Trgt Retire 2055 Instl	8.03%	25.06%	-7.84%	21.47%	8.94%	-	-	25.06%	11.87%	-	-
Morningstar Lifetime Moderate 2055 Index	7.78%	25.05%	-8.57%	20.95%	10.90%	-3.34%	4.74%	25.05%	11.41%	8.19%	9.50%
2055 Moderate	7.76%	24.48%	-8.95%	20.73%	8.35%	-1.65%	5.97%	24.48%	11.02%	7.85%	9.57%
TARGET DATE 2060+ MODERATE											
Vanguard Instl Trgt Retire 2060 Instl	8.04%	25.13%	-7.88%	21.42%	8.94%	-	-	25.13%	11.86%	-	-
Vanguard Instl Trgt Retire 2065 Instl	8.01%	25.15%	-7.84%	-	-	-	-	25.15%	-	-	-
Morningstar Lifetime Moderate 2060 Index	7.81%	24.96%	-8.69%	21.06%	10.88%	-3.48%	4.53%	24.96%	11.37%	8.13%	-
2060+ Moderate	7.87%	25.06%	-8.56%	20.72%	8.79%	-1.07%	6.35%	25.06%	11.33%	8.34%	-
ALLOCATION85%+ EQUITY											
CREF Stock R3	8.90%	27.45%	-9.65%	23.45%	9.17%	-0.84%	6.41%	27.45%	12.44%	9.00%	10.44%
85% S&P 500, 15% BBgBarc Agg	8.61%	30.19%	-4.15%	20.67%	11.32%	1.33%	13.12%	30.19%	14.62%	11.18%	12.80%
Allocation85%+ Equity Universe	7.73%	24.89%	-9.73%	19.34%	8.67%	-2.35%	5.41%	24.89%	10.59%	7.45%	9.56%
LARGE COMPANY VALUE											
JHancock Disciplined Value R6	7.40%	22.79%	-9.47%	19.33%	14.07%	-4.81%	11.04%	22.79%	9.88%	7.57%	11.48%
Russell 1000 Value	7.41%	26.54%	-8.27%	13.66%	17.34%	-3.83%	13.45%	26.54%	9.68%	8.29%	11.80%
Large Value Universe	7.26%	25.00%	-8.82%	15.88%	14.46%	-3.94%	10.58%	25.00%	9.76%	7.82%	10.82%
LARGE COMPANY BLEND											
Vanguard Institutional Index I	9.06%	31.46%	-4.42%	21.79%	11.93%	1.37%	13.65%	31.46%	15.24%	11.67%	13.53%
S&P 500 Index	9.07%	31.49%	-4.38%	21.83%	11.96%	1.38%	13.69%	31.49%	15.27%	11.70%	13.56%
Large Blend Universe	8.28%	28.82%	-6.54%	20.38%	10.43%	-0.60%	11.27%	28.82%	13.13%	9.79%	11.98%

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University of Maine System

INVESTMENT NAME	Q4 19	YTD '19	2018	2017	2016	2015	2014	1 YEAR*	3 YEAR*	5 YEAR*	10 YEAR*
LARGE COMPANY GROWTH											
Harbor Capital Appreciation Retirement	12.45%	33.39%	-0.96%	36.68%	-1.04%	10.99%	9.93%	33.39%	21.77%	14.68%	14.58%
Russell 1000 Growth	10.62%	36.39%	-1.51%	30.21%	7.08%	5.67%	13.05%	36.39%	20.49%	14.63%	15.22%
Large Growth Universe	9.52%	32.23%	-2.12%	28.14%	3.26%	3.62%	9.95%	32.23%	18.35%	12.22%	13.41%
MEDIUM COMPANY VALUE											
Virtus Ceredex Mid-Cap Value Equity R6	8.23%	33.31%	-7.58%	11.98%	20.53%	-5.63%	11.05%	33.31%	11.33%	9.43%	12.66%
Russell Mid Cap Value	6.36%	27.06%	-12.29%	13.34%	20.00%	-4.78%	14.75%	27.06%	8.10%	7.62%	12.41%
Mid Value Universe	6.96%	26.04%	-13.81%	13.34%	17.96%	-5.01%	9.47%	26.04%	7.28%	6.88%	10.87%
MEDIUM COMPANY BLEND											
Vanguard Extended Market Index Instl	8.89%	28.05%	-9.35%	18.12%	16.15%	-3.24%	7.56%	28.05%	11.09%	9.03%	12.83%
Russell Mid Cap	7.06%	30.54%	-9.06%	18.52%	13.80%	-2.44%	13.22%	30.54%	12.06%	9.33%	13.19%
Mid Blend Universe	7.26%	26.99%	-12.02%	15.70%	14.02%	-4.78%	8.39%	26.99%	8.97%	6.83%	10.87%
MEDIUM COMPANY GROWTH											
MFS Mid Cap Growth R6	6.38%	37.93%	1.21%	26.39%	4.75%	4.60%	8.95%	37.93%	20.84%	14.09%	15.04%
Russell Mid Cap Growth	8.17%	35.47%	-4.75%	25.27%	7.33%	-0.20%	11.90%	35.47%	17.36%	11.60%	14.24%
Mid Growth Universe	7.95%	33.77%	-5.56%	24.95%	5.91%	-0.58%	7.09%	33.77%	16.51%	10.88%	13.04%
FOREIGN LARGE BLEND											
American Funds Europacific Growth R6	10.09%	27.40%	-14.91%	31.17%	1.01%	-0.48%	-2.29%	27.40%	12.45%	7.41%	6.73%
MFS International Intrinsic Value R6	7.48%	25.99%	-8.89%	27.25%	4.31%	6.85%	1.61%	25.99%	13.46%	10.24%	10.18%
Vanguard Total Intl Stock Index I	9.05%	21.56%	-14.39%	27.55%	4.70%	-4.24%	-4.15%	21.56%	9.90%	5.88%	5.13%
MSCI EAFE	8.21%	22.66%	-13.36%	25.62%	1.51%	-0.39%	-4.48%	22.66%	10.11%	6.18%	6.00%
Foreign Large Blend Universe	8.75%	22.28%	-15.50%	25.32%	0.88%	-1.40%	-4.96%	22.28%	8.99%	5.21%	5.20%

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University of Maine System

INVESTMENT NAME	Q4 '19	YTD '19	2018	2017	2016	2015	2014	1 YEAR*	3 YEAR*	5 YEAR*	10 YEAR*
SMALL COMPANY VALUE											
Victory Sycamore Small Company Opp I	6.67%	26.94%	-8.26%	11.88%	30.04%	-0.39%	6.80%	26.94%	9.22%	11.03%	12.85%
Russell 2000 Value	8.49%	22.39%	-12.86%	7.84%	31.74%	-7.47%	4.22%	22.39%	4.77%	6.99%	10.56%
Small Value Universe	7.88%	22.17%	-15.70%	9.12%	25.47%	-6.65%	3.46%	22.17%	4.02%	5.76%	9.95%
SMALL COMPANY GROWTH											
Carillon Eagle Small Cap Growth R6	11.39%	25.90%	-10.06%	23.40%	10.45%	-0.39%	5.59%	25.90%	11.80%	8.98%	12.81%
Russell 2000 Growth	11.39%	28.48%	-9.31%	22.17%	11.32%	-1.38%	5.60%	28.48%	12.49%	9.34%	13.01%
Small Growth Universe	9.49%	28.65%	-5.58%	22.27%	11.11%	-2.65%	2.47%	28.65%	14.26%	10.04%	12.89%
EMERGING MARKETS											
DFA Emerging Markets Core Equity I	10.55%	16.04%	-15.25%	36.55%	12.35%	-14.86%	-0.91%	16.04%	10.33%	5.14%	3.89%
MSCI Emerging Markets	11.93%	18.90%	-14.25%	37.75%	11.60%	-14.60%	-1.82%	18.90%	11.99%	6.01%	4.04%
Emerging Markets Universe	10.55%	20.67%	-16.58%	35.29%	8.21%	-13.51%	-2.73%	20.67%	10.89%	5.03%	3.98%
SPECIALTY-PRIVATE REAL ESTATE											
TIAA Real Estate Account	1.19%	5.51%	4.79%	4.37%	5.20%	8.16%	12.22%	5.51%	4.89%	5.60%	8.58%
NCREIF Property Index	1.55%	6.42%	6.71%	6.98%	7.97%	13.33%	11.81%	6.42%	6.70%	8.25%	10.17%
Specialty-Real Estate Universe	0.46%	27.76%	-6.40%	6.06%	6.69%	2.33%	28.25%	27.76%	8.37%	6.75%	11.29%

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SECTION 4: FUND FACT SHEETS

University of Maine System

Period Ending 12.31.19 | Q4 19

SECTION 4: FUND FACT SHEETS

Fund Fact Sheets......

YTD-

1 year-

3 years-

5 years-

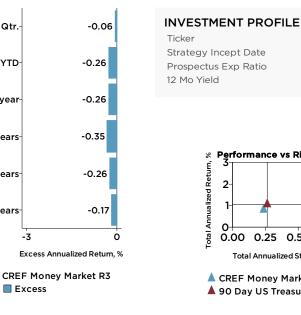
10 years

CREF MONEY MARKET R3

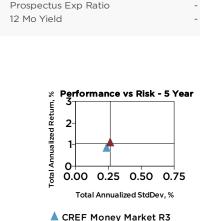
INDUSTRY ANALYSIS

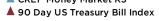
Last Qtr. Money market yields have fluctuated in recent years due primarily to actions by the United States Federal Reserve. After several years of yields near 0.00%, the Federal Reserve increased the Fed Funds Rate nine times from 2015 through 2018, landing in a target range of 2.25%-2.50%. The increase in the Fed Funds rate benefited money market funds which were able to invest in high yielding bonds. 2019 saw a reversal in this policy from the Federal Reserve as they cut rates by 0.25% in August and again in September. This warrants further attention as the Fed is mulling further reductions to the Fed Funds Rate this year.

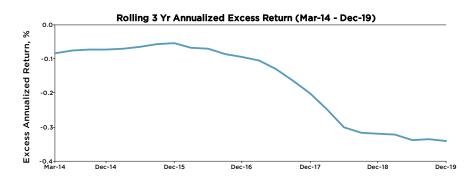
	CREF Money Market R3	90 Day US Treasury Bill Index
TRAILING RETURNS		
Last Qtr.	0.40	0.46
YTD	2.02	2.28
1 Year	2.02	2.28
3 Years	1.32	1.67
5 Years	0.82	1.07
10 Years	0.41	0.58
CALENDAR RETURNS		
2018	1.46	1.87
2017	0.50	0.86
2016	0.13	0.33
2015	0.00	0.05
2014	0.00	0.03
KEY MEASURES / 5 YEAR		
5 Year	0.24	0.26

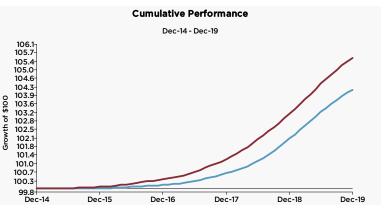


Period Ending 12.31.19 | Q4 19









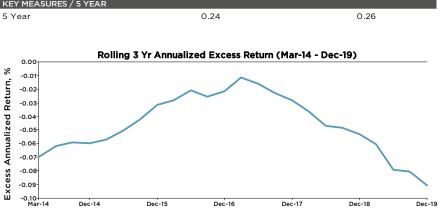
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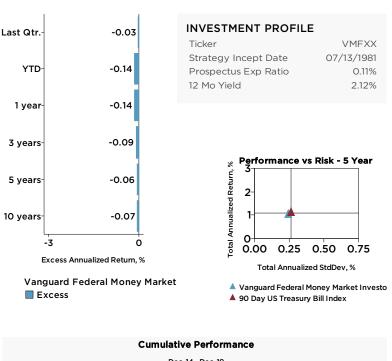
Vanguard Federal Money Market Investor

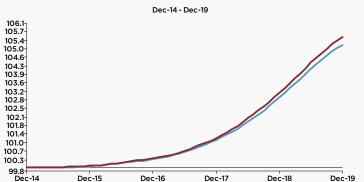
INDUSTRY ANALYSIS

Money market yields have fluctuated in recent years due primarily to actions by the United States Federal Reserve. After several years of yields near 0.00%, the Federal Reserve increased the Fed Funds Rate nine times from 2015 through 2018, landing in a target range of 2.25%-2.50%. The increase in the Fed Funds rate benefited money market funds which were able to invest in high yielding bonds. 2019 saw a reversal in this policy from the Federal Reserve as they cut rates by 0.25% in August and again in September. This warrants further attention as the Fed is mulling further reductions to the Fed Funds Rate this year.

	Vanguard Federal Money Market Investor	90 Day US Treasury Bill Index
TRAILING RETURNS		
Last Qtr.	0.43	0.46
YTD	2.14	2.28
1 Year	2.14	2.28
3 Years	1.58	1.67
5 Years	1.01	1.07
10 Years	O.51	0.58
CALENDAR RETURNS		
2018	1.78	1.87
2017	O.81	0.86
2016	0.30	0.33
2015	0.04	0.05
2014	0.01	0.03
KEY MEASURES / 5 YEAR		
5 Year	0.24	0.26







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Growth of \$100

Period Ending 12.31.19 | Q4 19

TIAA TRADITIONAL – GROUP RETIREMENT ANNUITY (GRA)

INDUSTRY ANALYSIS

As the DC marketplace continues to grow, capital preservation investment vehicles are becoming increasingly more prevalent in plan fund menus. Consistent increases in the Federal Funds Rate, from 2015 through 2018, drove interest rates higher in the U.S. fixed income marketplace. This interest rate environment, generally, would present a challenge for insurance general account managers as increases in interest rates result in a decline in value for the investments already in general accounts, which in-turn lower the guaranteed. Inversely, increased rates also allow for reinvestment of new cash flows at higher levels which could increase the new business guaranteed rate. In 2018 and early 2019 we have experienced a significant rise in the new business, guaranteed crediting rates. In August 2019, the Federal Reserve reduced the Fed Funds target by 25bps and again in September. Interest rates have subsequently decreased driving new business rates down. Stable value managers continue to evaluate portfolio positioning as the Fed is mulling further reductions in the Fed Funds Rate this year.

CAPTRUST ANALYSIS

Jennifer Dunbar - Senior Manager | Investment Research

The TIAA Traditional Annuity is a guaranteed annuity account (group annuity contract) that is backed by the financial strength and claims-paying ability of TIAA. The product offers participants guaranteed principal and a contractually specified interest rate. The contractually agreed upon minimum annual interest rate is 3%. The TIAA Board of Trustees also reserves the right each year to declare a higher crediting rate to participants which remains effective for a twelve month period that begins each March 1.

The product has a payout structure at the participant level that varies the length of time it takes for a participant to fully redeem . This payout structure is individual contract-specific.

GROSS CREDITING RATES - For Contributions Applied:				
10/1/18 - 12/31/18	1/1/19 - 3/31/19	4/1/19 - 6/30/19	7/1/19 - 9/30/19	10/01/2019- 12/31/2019
4.00%	4.00%	3.50%	3.00%	3.25%

INVESTMENT DETAILS				
Crediting Rate Details:	Current contributions are invested at the new money rate, which can change monthly but is guaranteed until the last day of February. Old Money is grouped by time period into vintages, rate on all vintages are reviewed for reset every March 1 st .			
Competing Options:	Allowed.			
Minimum Rate:	3.00% during accumulation stage and 2.50% during annuity payout stage, reset annually.			

LIQUIDITY PROVISIONS			
Plan Sponsor	Participant		
Not applicable. Contracts are individually owned by the participant.	Lump Sum withdrawals are available within 120 days of termination of employment with a 2.5% surrender charge. Transfers and withdrawals can be made in 10 annual installments (paid over 9 years and 1 day).		

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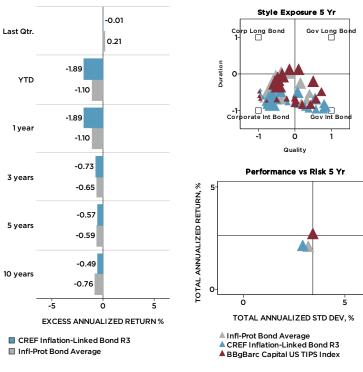
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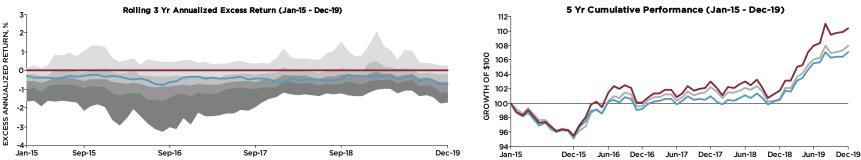
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Period Ending 12.31.19 | Q4 19

CREF INFLATION-LINKED BOND R3

	CREF Inflation-Linked Bond R3	Peer Group Rank	BBgBarc Capital US TIPS Index	Infl-Prot Bond	# of Funds
KEY MEASURES / 5 YEAR					
Standard Deviation	2.93	32%	3.44	3.18	196
Sharpe Ratio	0.33	48%	0.45	0.31	196
Alpha	-0.29	54%	0.00	-0.27	196
Beta	0.82	60%	1.00	0.80	196
R-Squared	92.33	42%	100.00	80.50	196
Up Mkt Capture	80.11	65%	100.00	80.80	196
Down Mkt Capture	82.51	39%	100.00	83.38	196
Information Ratio	-0.55	60%	NA	-0.67	196
TRAILING RETURNS					
Last Qtr.	0.77	67%	0.79	1.00	208
YTD	6.53	71%	8.43	7.33	208
1 Year	6.53	71%	8.43	7.33	208
3 Years	2.59	56%	3.31	2.66	201
5 Years	2.04	52%	2.62	2.03	196
10 Years	2.87	37%	3.36	2.60	139
CALENDAR RETURNS					
2018	-0.49	14%	-1.26	-1.65	216
2017	1.85	72%	3.01	2.51	236
2016	4.23	52%	4.68	4.51	243
2015	-1.68	37%	-1.44	-2.22	252
2014	3.34	22%	3.64	1.96	257

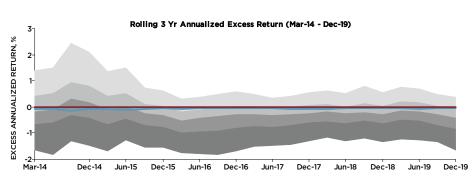




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VANGUARD TOTAL BOND MARKET INDEX I

	Vanguard Total Bond Market Index I	Peer Group Rank	BBgBarc US Agg Float Adj TR USD	Intermediate Core Bond	# of Funds	Last
KEY MEASURES / 5 YEAR						
Standard Deviation	3.20	97%	3.15	2.87	383	
Sharpe Ratio	0.61	43%	0.64	0.56	383	
Alpha	-0.09	47%	0.00	-0.15	383	Ŷ
Beta	1.02	4%	1.00	0.88	383	
R-Squared	99.32	9%	100.00	93.18	383	
Up Mkt Capture	99.67	10 %	100.00	88.20	383	1 y
Down Mkt Capture	101.55	78%	100.00	89.76	383	
Information Ratio	-0.22	35%	NA	-0.69	383	
TRAILING RETURNS						3 ye
Last Qtr.	0.03	58%	0.14	0.09	423	
YTD	8.73	31%	8.87	8.07	420	
1 Year	8.73	31%	8.87	8.07	420	5 ye
3 Years	4.03	25%	4.08	3.57	404	
5 Years	3.01	28%	3.07	2.68	383	
10 Years	3.70	44%	3.78	3.55	353	10 ye
CALENDAR RETURNS						
2018	-0.01	29%	-0.08	-0.39	435	
2017	3.57	35%	3.63	3.22	494	
2016	2.61	45%	2.75	2.59	527	
2015	0.41	36%	0.44	0.00	555	
2014	5.90	27%	5.85	5.06	607	





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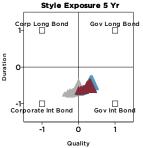
Period Ending 12.31.19 | Q4 19

VBTIX 921937504 \$248,595.00 Team Managed 6.9 Years Prospectus Exp Ratio 0.04% Cat Median Exp Ratio 0.81% N/A AnnIzd Ret Since Incept 5.12% 09/18/1995 888-809-8102 N/A

HOLDINGS OVERVIEW

Total Number of Holdings	17559
% Assets in Top 10 Holdings	4.18%
Avg Mkt Cap \$MM	N/A
Turnover Ratio	54.00%





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%

TOTAL ANNUALIZED RETURN,

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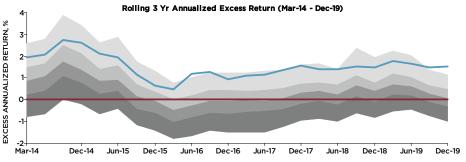
TOTAL ANNUALIZED STD DEV, %

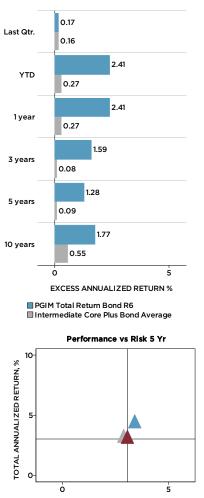
▲ Intermediate Core Bond Average

Vanguard Total Bond Market Index I BBgBarc US Agg Float Adj TR USD

PGIM TOTAL RETURN BOND R6

	PGIM Total Return Bond R6	Peer Group Rank	BBgBarc US Agg Bond TR USD	Intermediate Core Plus Bond	# of Funds	
KEY MEASURES / 5 YEAR						Lust du.
Standard Deviation	3.42	93%	3.06	2.88	523	
Sharpe Ratio	0.95	13%	0.64	0.73	523	YTD
Alpha	1.14	13%	0.00	0.44	523	TID
Beta	1.07	2%	1.00	0.83	523	
R-Squared	91.69	25%	100.00	79.34	523	_
Up Mkt Capture	121.34	1%	100.00	92.13	523	1year
Down Mkt Capture	96.10	82%	100.00	79.74	523	
Information Ratio	1.26	1%	NA	0.05	523	
TRAILING RETURNS						3 years
Last Qtr.	0.35	47%	0.18	0.34	607	
YTD	11.13	8%	8.72	8.99	607	
1 Year	11.13	8%	8.72	8.99	607	5 years
3 Years	5.62	2%	4.03	4.11	568	
5 Years	4.33	3%	3.05	3.14	523	
10 Years	5.52	5%	3.75	4.29	461	10 years
CALENDAR RETURNS						
2018	-0.63	43%	0.01	-0.71	601	
2017	6.71	2%	3.54	4.28	590	
2016	4.83	21%	2.65	3.92	563	PC
2015	0.09	36%	0.55	-0.51	545	□ In
2014	7.25	9%	5.97	5.49	536	
4 8	Colling 3 Yr Annualized	Excess Return	(Mar-14 - Dec-19)			O RETURN, %





TOTAL ANNUALIZED STD DEV, % A Intermediate Core Plus Bond Average A PGIM Total Return Bond R6 BBgBarc US Agg Bond TR USD

Period Ending 12.31.19 | Q4 19

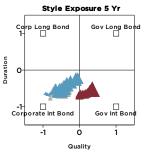
INVESTMENT PROFILE Ticker PTRQX CUSIP 74440B884 \$52,257.00 Net Assets \$MM Manager Names Team Managed Manager Tenure 17.2 Years Prospectus Exp Ratio 0.39% 0.70% Cat Median Exp Ratio Current 12b-1 N/A AnnIzd Ret Since Incept 5.12% Inception Date 12/27/2010 Phone Number 800-225-1852 Sub Advisor PGIM Fixed Income

HOLDINGS OVERVIEW

Total Number of Holdings	4569
% Assets in Top 10 Holdings	7.73%
Avg Mkt Cap \$MM	\$694.72
Turnover Ratio	45.00%

TOP HOLDINGS

PGIM Core Short-Term Boı	1.48%
Portugal (Republic Of) 5.1	1.36%
MRA ISSUANCE TRUST 3.(0.77%
Bvrt_19-1f	0.72%
Hungary (Republic Of) 6.3	0.66%



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CREF SOCIAL CHOICE R3

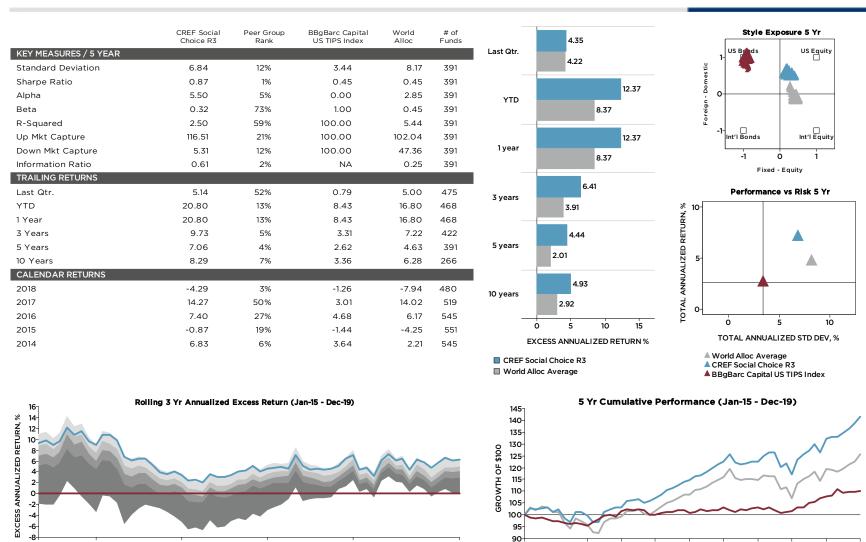
Jan-15

Sep-15

Sep-16

Sep-17

Sep-18



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Dec-19

Jan-15

Dec-15

Jun-16

Dec-16

Jun-17

Dec-17

Jun-18

Dec-18

Jun-19

Dec-19

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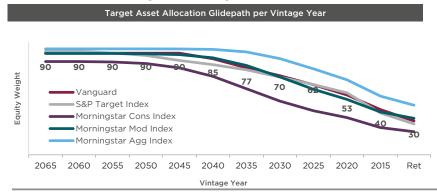
Period Ending 12.31.19 | Q4 19

VANGUARD INST TARGET RETIREMENT

Investor Assumptions/Glidepath Methodology

Glidepath Management	 Through retirement (assumed at age 65) ending 7 years after retirement
Assumed Investor Savings Rate:	 Contributions start at 5% at age 25 and increase to 10% at age 65. Also includes a 50% employer match up to 3% of salary.
Assumed Investor Income Growth Rate	• 1.1% annual salary growth
Income Replacement	• The portfolios are designed to provide withdrawals in retirement based on multiples of an investor's age 65 salary.
Assumed Accumulated Savings at Retirement	• N/A
Life Expectancy	• Through age 95
Asset Allocation Flexibility	Strict targets with narrow ranges.
Other Assumptions	 Glidepath was tested against 10,000 potential lifetime return outcomes

Vanguard uses a proprietary capital markets modeling tool to statistically analyze historical data, including interest rates, inflation, and other risk factors for global equities, fixed income, and commodity markets. This tool is used to generate forward-looking distributions of expected returns. Then, by combining these figures with their investor assumptions, Vanguard constructs target portfolios with asset allocations that seek to provide the highest probability of a successful outcome (not outliving retirement savings).



% Open Architecture:	0%	Active/Passive:	Passive
Inception Date:	6-26-2015	% Active:	0%
Net Assets \$MM:	\$220,103	Manager Tenure:	4.58 years (longest)
Manager Name:	Team	Expense Range:	0.09%
Avg # of Holdings:	5	Investment Structure:	Mutual Fund

Investment Profile

Dedicated Asset Class Granularity/Diversification

Emerging Market Equities	Through Intl Index Fund
International/Global Debt	Yes
Inflation-Protected Securities	Yes
High Yield Fixed Income	No
Real Estate	No
Commodities	No

The Vanguard Target Retirement funds allocate to five broad index funds that provide comprehensive exposure to U.S. and non-U.S. equity and bond markets. Using index funds allows Vanguard to provide investment diversification at a low cost while also producing returns in line with equity and fixed income markets. Through its five index funds, the strategies gain exposure to over 25 sub-asset classes, capturing over 90% of the world's investable market.

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* Due to lack of track record, performance data for the Vanguard Target Retirement series is being used for the Vanguard Inst Target Retirement series.

VANGUARD INST TARGET RETIREMENT

Material Changes to the Series

2006:

• Increased minimum equity allocation from 20% to 30%

Added Emerging Markets Equity

Rationale:

- Participant behavior showed lower savings rate
- Decreased costs within the EM space led to increased liquidity

2010:

 Collapsed three international equity index funds (Europe, Pacific, and Emerging Markets) with Vanguard Total International Stock Index

Rationale:

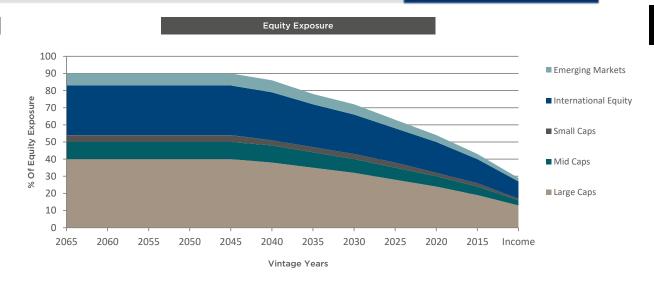
• More cost-effective way to gain international exposure

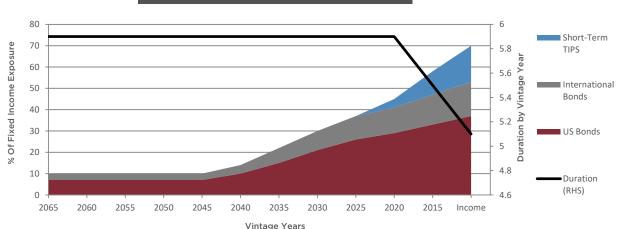
2013:

- Replaced the broad TIPs fund with a short-term TIPs allocation
- Eliminated the Prime Money Market fund
- Added a 20% International Bond Index Allocation Rationale:
- Short-Term TIPs provide better inflation exposure with
 lower interest rate risk
- Deemed to be an unnecessary asset class
- Dedicated exposure to move more in line with the Global fixed income Market Cap; better Fl diversification

2015:

- Increased international stock allocation from 30% to 40%
- Increased International bond allocation from 20% to 30% Rationale:
- Move to be more in line with the Global Market Cap





Fixed Income Exposure

*All information provided by the asset manager, as of 12/31/18. Asset allocations shown are static in nature and do not incorporate any tactical views implemented by the manager.

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Period Ending 12.31.19 | Q4 19

TARGET DATE ANALYSIS

	3 Year			5 Year				
	Beta	Sharpe	Up Capture	Down Capture		Sharpe	Up Capture	Down Capture
Vanguard Target Retirement 2015 Inv	0.87	1.27	94.06	81.92	0.92	0.89	94.48	90.32
Morningstar Target Date 2015	0.95	1.12	95.77	92.40	0.96	0.79	94.17	96.75
S&P Target Date 2015 TR	1.00	1.10	100.00	100.00	1.00	0.84	100.00	100.00

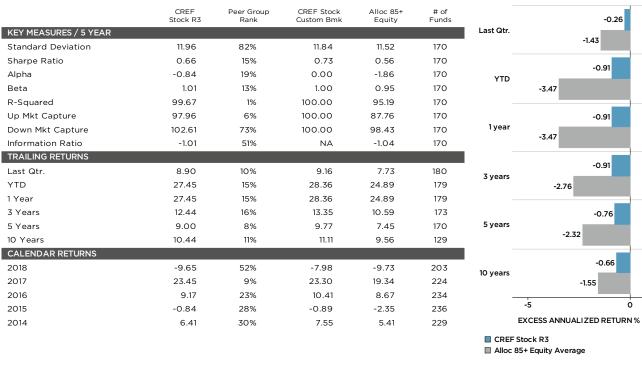
	3 Year			5 Year				
	Beta	Sharpe	Up Capture	Down Capture	Beta	Sharpe	Up Capture	Down Capture
Vanguard Target Retirement 2025 Inv	1.02	1.12	104.99	99.03	1.02	0.80	103.16	102.12
Morningstar Target Date 2025	0.96	1.06	95.44	92.14	0.97	0.72	94.60	98.43
S&P Target Date 2025 TR	1.00	1.04	100.00	100.00	1.00	0.79	100.00	100.00

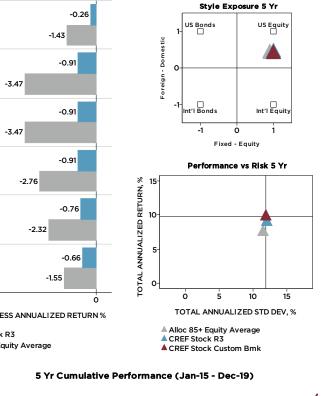
	3 Year			5 Year				
		Sharpe	Up Capture	Down Capture		Sharpe	Up Capture	Down Capture
Vanguard Target Retirement 2045 Inv	1.02	0.98	104.49	100.86	1.04	0.70	103.08	104.16
Morningstar Target Date 2045	1.00	0.94	100.01	98.09	1.02	0.66	98.90	102.78
S&P Target Date 2045 TR	1.00	0.93	100.00	100.00	1.00	0.72	100.00	100.00

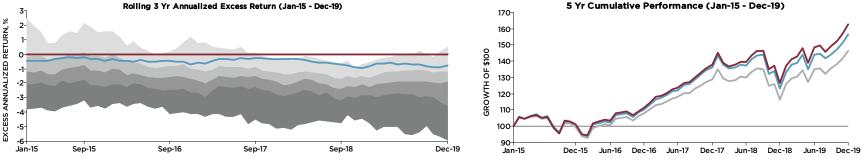
*Lowest cost share class shown

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CREF STOCK R3



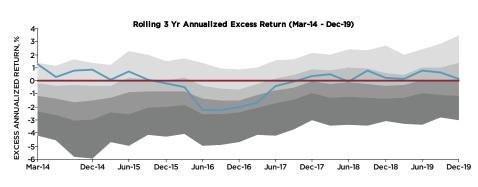


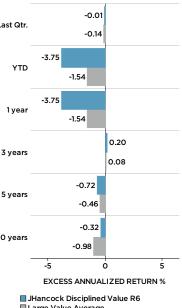


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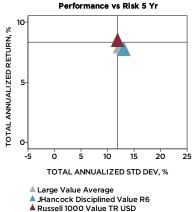
JHANCOCK DISCIPLINED VALUE R6

	JHancock Disciplined Value R6	Peer Group Rank	Russell 1000 Value TR USD	Large Value	# of Funds	Last Qtr.
KEY MEASURES / 5 YEAR						Last Gu.
Standard Deviation	13.06	75%	11.98	12.24	1032	
Sharpe Ratio	0.50	67%	0.60	0.56	1032	
Alpha	-1.20	68%	0.00	-0.33	1032	YTD
Beta	1.07	25%	1.00	0.98	1032	
R-Squared	95.61	40%	100.00	92.29	1032	
Up Mkt Capture	101.33	32%	100.00	96.46	1032	1year
Down Mkt Capture	107.04	73%	100.00	98.04	1032	
Information Ratio	-0.23	62%	NA	-0.13	1032	
TRAILING RETURNS						3 years
Last Qtr.	7.40	44%	7.41	7.26	1153	
YTD	22.79	78%	26.54	25.00	1134	
1 Year	22.79	78%	26.54	25.00	1134	5 years
3 Years	9.88	48%	9.68	9.76	1105	
5 Years	7.57	61%	8.29	7.82	1032	
10 Years	11.48	29%	11.80	10.82	921	10 years
CALENDAR RETURNS						
2018	-9.47	60%	-8.27	-8.82	1224	
2017	19.33	15%	13.66	15.88	1290	
2016	14.07	53%	17.34	14.46	1345	J-
2015	-4.81	68%	-3.83	-3.94	1355	La
2014	11.04	48%	13.45	10.58	1359	





arge Value Average



Period Ending 12.31.19 | Q4 19

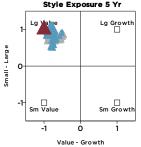
INVESTMENT PROFILE Ticker JDVWX CUSIP 47803U418 \$15,387.00 Net Assets \$MM Team Managed Manager Names Manager Tenure 23.0 Years Prospectus Exp Ratio 0.70% Cat Median Exp Ratio 1.06% Current 12b-1 0.00% AnnIzd Ret Since Incept 12.97% Inception Date 09/01/2011 Phone Number 888-972-8696 Sub Advisor Boston Partners Global Investors, Inc

HOLDINGS OVERVIEW

Total Number of Holdings	82
% Assets in Top 10 Holdings	29.49%
Avg Mkt Cap \$MM	\$80,802.10
Turnover Ratio	69.00%

TOP HOLDINGS

Berkshire Hathaway Inc E	4.62%
Bank of America Corp	4.01%
JPMorgan Chase & Co	3.31%
Comcast Corp Class A	3.05%
Procter & Gamble Co	2.68%



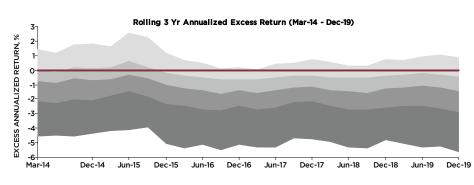
71

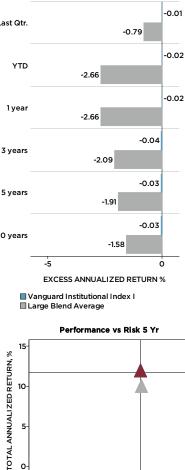


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VANGUARD INSTITUTIONAL INDEX I

	Vanguard Institutional Index I	Peer Group Rank	S&P 500 TR USD	Large Blend	# of Funds	_ Last Qtr.	
KEY MEASURES / 5 YEAR							
Standard Deviation	11.98	41%	11.98	12.21	1148		
Sharpe Ratio	0.88	12%	0.89	0.72	1148	YTD	
Alpha	-0.03	16%	0.00	-1.78	1148	Ϋ́́́́́́	
Beta	1.00	50%	1.00	0.99	1148		
R-Squared	100.00	1%	100.00	94.01	1148		
Up Mkt Capture	99.90	17%	100.00	92.90	1148	1 year	
Down Mkt Capture	100.05	33%	100.00	102.51	1148		
Information Ratio	-2.30	93%	NA	-1.21	1148		
TRAILING RETURNS						3 years	
Last Qtr.	9.06	30%	9.07	8.28	1299		
YTD	31.46	22%	31.49	28.82	1283		
1 Year	31.46	22%	31.49	28.82	1283	5 years	
3 Years	15.24	14%	15.27	13.18	1209		
5 Years	11.67	8%	11.70	9.79	1148		
10 Years	13.53	7%	13.56	11.98	1011	10 years	
CALENDAR RETURNS							
2018	-4.42	21%	-4.38	-6.54	1325	_	-5
2017	21.79	30%	21.83	20.38	1379		EXCESS
2016	11.93	27%	11.96	10.43	1447		/anguard Ins
2015	1.37	22%	1.38	-0.60	1503		arge Blend
2014	13.65	18%	13.69	11.27	1540		
							Perf





10-5 0 ò 5 10 15 TOTAL ANNUALIZED STD DEV, % Large Blend Average A Vanguard Institutional Index I S&P 500 TR USD

Period Ending 12.31.19 | Q4 19

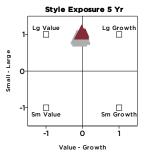
INVESTMENT PROFILE	
Ticker	VINIX
CUSIP	922040100
Net Assets \$MM	\$242,173.00
Manager Names	Team Managed
Manager Tenure	19.0 Years
Prospectus Exp Ratio	0.04%
Cat Median Exp Ratio	1.06%
Current 12b-1	N/A
Annlzd Ret Since Incept	10.07%
Inception Date	07/31/1990
Phone Number	888-809-8102
Sub Advisor	N/A

HOLDINGS OVERVIEW

Total Number of Holdings	512
% Assets in Top 10 Holdings	22.28%
Avg Mkt Cap \$MM	\$119,868.44
Turnover Ratio	6.00%

TOP HOLDINGS

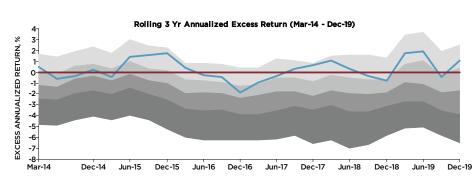


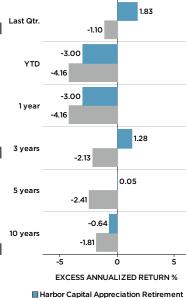


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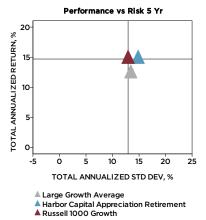
HARBOR CAPITAL APPRECIATION RETIREMENT

	Harbor Capital Appreciation Retirement	Peer Group Rank	Russell 1000 Growth	Large Growth	# of Funds	_ L
KEY MEASURES / 5 YEAR						1
Standard Deviation	14.75	85%	12.92	13.50	1240	
Sharpe Ratio	0.92	30%	1.05	0.83	1240	
Alpha	-1.27	33%	0.00	-2.31	1240	
Beta	1.10	10%	1.00	0.99	1240	
R-Squared	92.35	54%	100.00	90.82	1240	
Up Mkt Capture	107.91	5%	100.00	93.10	1240	
Down Mkt Capture	114.07	83%	100.00	104.83	1240	
Information Ratio	0.01	14%	NA	-0.58	1240	
TRAILING RETURNS						
Last Qtr.	12.45	6%	10.62	9.52	1347	
YTD	33.39	41%	36.39	32.23	1328	
1 Year	33.39	41%	36.39	32.23	1328	
3 Years	21.77	17%	20.49	18.35	1284	
5 Years	14.68	14%	14.63	12.22	1240	
10 Years	14.58	21%	15.22	13.41	1091	1
CALENDAR RETURNS						
2018	-0.96	38%	-1.51	-2.12	1425	
2017	36.68	5%	30.21	28.14	1458	
2016	-1.04	85%	7.08	3.26	1576	
2015	10.99	4%	5.67	3.62	1670	
2014	9.93	53%	13.05	9.95	1720	





Large Growth Average



Period Ending 12.31.19 | Q4 19

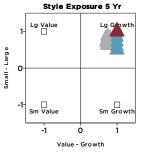
INVESTMENT PROFILE	
Ticker	HNACX
CUSIP	411512528
Net Assets \$MM	\$31,424.00
:Manangalgeen, Bilanin eAs Boyer, N	Natasha Kuhlkin
Manager Tenure	29.7 Years
Prospectus Exp Ratio	0.58%
Cat Median Exp Ratio	1.14%
Current 12b-1	N/A
Annlzd Ret Since Incept	19.00%
Inception Date	03/01/2016
Phone Number	800-422-1050
Sub Advisor	Jennison Associates LLC

HOLDINGS OVERVIEW

60
38.75%
\$151,517.66
40.00%

TOP HOLDINGS

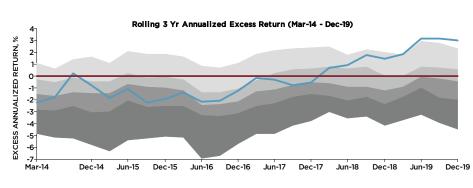
Amazon.com Inc	5.79%
Microsoft Corp	5.05%
Mastercard Inc A	4.26%
Salesforce.com Inc	3.94%
Apple Inc	3.91%

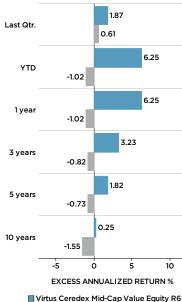


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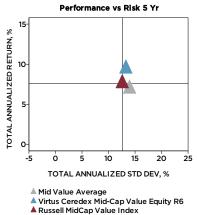
VIRTUS CEREDEX MID-CAP VALUE EQUITY R6

	Virtus Ceredex Mid-Cap Value Equity R6	Peer Group Rank	Russell MidCap Value Index	Mid Value	# of Funds	La
KEY MEASURES / 5 YEAR						
Standard Deviation	13.26	36%	12.62	13.94	378	
Sharpe Ratio	0.63	9%	0.52	0.43	378	
Alpha	1.68	10%	0.00	-1.13	378	
Beta	1.02	64%	1.00	1.06	378	
R-Squared	94.60	38%	100.00	92.52	378	
Up Mkt Capture	107.90	18%	100.00	100.76	378	
Down Mkt Capture	98.07	32%	100.00	105.93	378	
Information Ratio	0.55	5%	NA	-0.15	378	
TRAILING RETURNS						3
Last Qtr.	8.23	18%	6.36	6.96	403	
YTD	33.31	5%	27.06	26.04	402	
1 Year	33.31	5%	27.06	26.04	402	5
3 Years	11.33	2%	8.10	7.28	386	
5 Years	9.43	7%	7.62	6.88	378	
10 Years	12.66	7%	12.41	10.87	317	10
CALENDAR RETURNS						
2018	-7.58	6%	-12.29	-13.81	443	
2017	11.98	69%	13.34	13.34	447	
2016	20.53	31%	20.00	17.96	454	
2015	-5.63	61%	-4.78	-5.01	468	
2014	11.05	38%	14.75	9.47	452	





Mid Value Average



Ticker SMVZX CUSIP 92837F441 \$3,716.00 Net Assets \$MM Manager Names Don Wordell Manager Tenure 18.1 Years Prospectus Exp Ratio 0.79% Cat Median Exp Ratio 1.13% Current 12b-1 N/A AnnIzd Ret Since Incept 9.85% Inception Date 08/01/2014 Phone Number 888-784-3863 Sub Advisor Ceredex Value Advisors LLC

Period Ending 12.31.19 | Q4 19

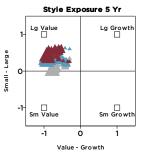
HOLDINGS OVERVIEW

INVESTMENT PROFILE

Total Number of Holdings	55
% Assets in Top 10 Holdings	33.18%
Avg Mkt Cap \$MM	\$15,461.69
Turnover Ratio	N/A

TOP HOLDINGS

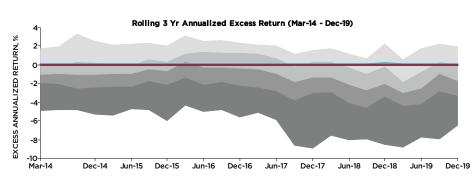
Zimmer Biomet Holdings I	4.95%
Western Digital Corp	3.67%
Humana Inc	3.63%
Progressive Corp	3.28%
Motorola Solutions Inc	3.12%

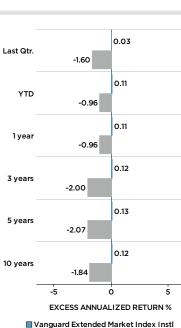


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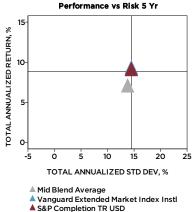
VANGUARD EXTENDED MARKET INDEX INSTL

	Vanguard Extended Market Index Instl	Peer Group Rank	S&P Completion TR USD	Mid Blend	# of Funds	Last Qtr.	
KEY MEASURES / 5 YEAR						1	
Standard Deviation	14.55	79%	14.55	13.84	322		
Sharpe Ratio	0.55	26%	0.54	0.43	322		
Alpha	0.14	32%	0.00	-1.26	322	YTD	
Beta	1.00	12%	1.00	0.90	322		
R-Squared	100.00	1%	100.00	88.95	322		
Up Mkt Capture	100.42	4%	100.00	85.18	322	1 year	
Down Mkt Capture	99.78	78%	100.00	91.90	322		
Information Ratio	1.80	1%	NA	-0.33	322		
TRAILING RETURNS						3 years	
Last Qtr.	8.89	14%	8.86	7.26	375		
YTD	28.05	41%	27.95	26.99	371		
1 Year	28.05	41%	27.95	26.99	371	5 years	_
3 Years	11.09	24%	10.97	8.97	360		
5 Years	9.03	16%	8.90	6.83	322		
10 Years	12.83	7%	12.71	10.87	280	10 years	
CALENDAR RETURNS						_	
2018	-9.35	25%	-9.57	-12.02	398		-5
2017	18.12	29%	18.11	15.70	415		EXCE
2016	16.15	41%	15.95	14.02	405	Va	anguard
2015	-3.24	46%	-3.35	-4.78	420		id Blend
2014	7.56	64%	7.50	8.39	417		





Vanguard Extended Market Index Instl
Mid Blend Average



Period Ending 12.31.19 | Q4 19

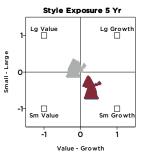
INVESTMENT PROFILE Ticker VIEIX CUSIP 922908884 \$74,562.00 Net Assets \$MM Manager Names Team Managed Manager Tenure 22.0 Years Prospectus Exp Ratio 0.06% Cat Median Exp Ratio 1.15% Current 12b-1 N/A AnnIzd Ret Since Incept 8.81% Inception Date 07/07/1997 888-809-8102 Phone Number Sub Advisor N/A

HOLDINGS OVERVIEW

3283
5.01%
\$4,744.32
10.00%

TOP HOLDINGS

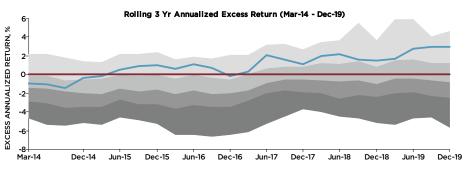
Tesla Inc	0.89%
Blackstone Group Inc	0.68%
Workday Inc Class A	0.52%
Lululemon Athletica Inc	0.48%
Square Inc A	0.45%

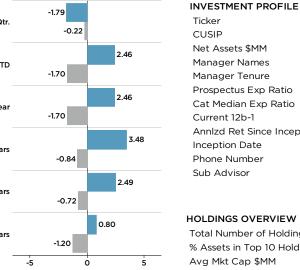


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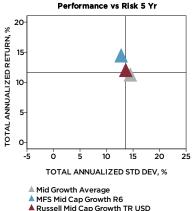
MFS MID CAP GROWTH R6

	MFS Mid Cap Growth R6	Peer Group Rank	Russell Mid Cap Growth TR USD	Mid Growth	# of Funds	Last Qtr
KEY MEASURES / 5 YEAR						
Standard Deviation	12.83	18%	13.65	14.40	552	
Sharpe Ratio	1.01	4%	0.77	0.69	552	VTD
Alpha	3.48	6%	0.00	-0.68	552	YTD
Beta	0.91	82%	1.00	1.00	552	
R-Squared	92.88	43%	100.00	89.80	552	
Up Mkt Capture	99.84	37%	100.00	97.59	552	1 year
Down Mkt Capture	82.92	9%	100.00	100.97	552	
Information Ratio	0.62	5%	NA	-0.22	552	
TRAILING RETURNS						3 years
Last Qtr.	6.38	76%	8.17	7.95	602	
YTD	37.93	21%	35.47	33.77	595	
1 Year	37.93	21%	35.47	33.77	595	5 years
3 Years	20.84	10 %	17.36	16.51	578	
5 Years	14.09	7%	11.60	10.88	552	
10 Years	15.04	11%	14.24	13.04	505	10 years
CALENDAR RETURNS						
2018	1.21	9%	-4.75	-5.56	612	
2017	26.39	36%	25.27	24.95	635	
2016	4.75	56%	7.33	5.91	671	
2015	4.60	10%	-0.20	-0.58	683	
2014	8.95	32%	11.90	7.09	702	





MFS Mid Cap Growth R6 Mid Growth Average



EXCESS ANNUALIZED RETURN %

Ticker OTCKX CUSIP 552987554 \$7,986.00 Net Assets \$MM Manager Names Team Managed Manager Tenure 11.1 Years Prospectus Exp Ratio 0.74% Cat Median Exp Ratio 1.25% Current 12b-1 N/A AnnIzd Ret Since Incept 15.97% Inception Date 01/02/2013 800-225-2606

N/A

76

Period Ending 12.31.19 | Q4 19

HOLDINGS OVERVIEW

Total Number of Holdings	95
% Assets in Top 10 Holdings	25.84%
Avg Mkt Cap \$MM	\$18,285.33
Turnover Ratio	21.00%

TOP HOLDINGS

Small - Large

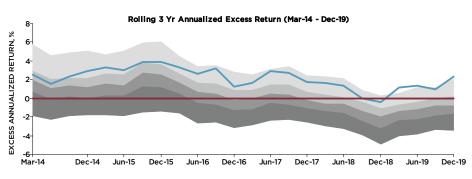
Global Payments Inc	4.22%
Bright Horizons Family Solu	3.53%
Fidelity National Informatic	2.52%
PerkinElmer Inc	2.39%
Fiserv Inc	2.34%

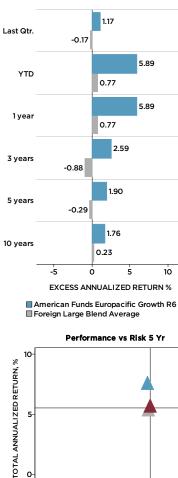
Style Exposure 5 Yr Lg Value La Growth o Sm Value Sm Growt -1--1 ò 1 Value - Growth

Russell Mid Cap Growth TR USD

American Funds Europacific Growth R6

	American Funds Europacific Growth R6	Peer Group Rank	MSCI ACWI Ex USA NR USD	Foreign Large Blend	# of Funds	1 + 0+
KEY MEASURES / 5 YEAR						Last Qtr
Standard Deviation	12.16	58%	12.53	12.26	582	
Sharpe Ratio	0.52	7%	0.35	0.34	582	
Alpha	2.20	5%	0.00	0.01	582	YTE
Beta	0.93	46%	1.00	0.93	582	
R-Squared	92.21	46%	100.00	90.92	582	
Up Mkt Capture	97.72	22%	100.00	92.06	582	1 yea
Down Mkt Capture	86.09	22%	100.00	92.38	582	
Information Ratio	0.52	2%	NA	-0.07	582	
TRAILING RETURNS						3 year
Last Qtr.	10.09	18%	8.92	8.75	715	
YTD	27.40	7%	21.51	22.28	691	
1 Year	27.40	7%	21.51	22.28	691	5 year
3 Years	12.45	2%	9.87	8.99	656	
5 Years	7.41	3%	5.51	5.21	582	
10 Years	6.73	6%	4.97	5.20	505	10 year
CALENDAR RETURNS						
2018	-14.91	46%	-14.20	-15.50	703	
2017	31.17	4%	27.19	25.32	751	
2016	1.01	46%	4.50	0.88	771	
2015	-0.48	38%	-5.66	-1.40	748	
2014	-2.29	17%	-3.87	-4.96	758	
						ູ 10





Period Ending 12.31.19 | Q4 19

INVESTMENT PROFILE Ticker RERGX CUSIP 298706821 \$171,878.00 Net Assets \$MM Manager Names Team Managed Manager Tenure 18.6 Years Prospectus Exp Ratio 0.49% Cat Median Exp Ratio 1.13% Current 12b-1 N/A AnnIzd Ret Since Incept 9.43% Inception Date 05/01/2009 Phone Number 800-421-4225 Sub Advisor N/A

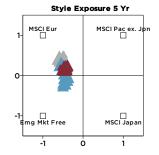
HOLDINGS OVERVIEW

Total Number of Holdings	322
% Assets in Top 10 Holdings	20.92%
Avg Mkt Cap \$MM	\$44,148.14
Turnover Ratio	35.00%

TOP HOLDINGS

I

Airbus SE	2.61%
AIA Group Ltd	2.56%
Nintendo Co Ltd	2.41%
Reliance Industries Ltd	2.38%
HDFC Bank Ltd	2.32%



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A Foreign Large Blend Average

MSCI ACWI EX USA NR USD

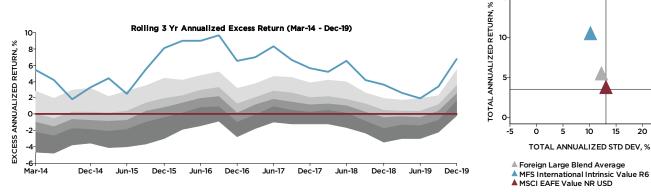
TOTAL ANNUALIZED STD DEV, %

American Funds Europacific Growth R6

10

MFS INTERNATIONAL INTRINSIC VALUE R6

	MFS International Intrinsic Value R6	Peer Group Rank	MSCI EAFE Value NR USD	Foreign Large Blend	# of Funds		-0.34		
KEY MEASURES / 5 YEAR						Last Qtr.		0.94	
Standard Deviation	10.21	4%	13.18	12.26	582				
Sharpe Ratio	0.90	1%	0.19	0.34	582				9
Alpha	7.68	1%	0.00	2.02	582	YTD			6.19
Beta	0.60	98%	1.00	0.86	582				
R-Squared	60.62	100%	100.00	84.91	582				9
Up Mkt Capture	74.74	94%	100.00	87.87	582	1year			6.19
Down Mkt Capture	37.20	1%	100.00	78.60	582				
Information Ratio	0.77	1%	NA	0.32	582				7.15
TRAILING RETURNS						3 years		2.68	8
Last Qtr.	7.48	86%	7.82	8.75	715			2.00	
YTD	25.99	18%	16.09	22.28	691				6.70
1 Year	25.99	18%	16.09	22.28	691	5 years		1.67	
3 Years	13.46	1%	6.31	8.99	656			1.07	
5 Years	10.24	1%	3.54	5.21	582				6.20
10 Years	10.18	1%	3.98	5.20	505	10 years		1.22	
CALENDAR RETURNS								1.22	
2018	-8.89	2%	-14.78	-15.50	703		-5	ò	5 10
2017	27.25	28%	21.44	25.32	751		EXCESS A	NNUALIZE	D RETURN %
2016	4.31	14%	5.02	0.88	771		1FS Internatio	nal Intrinsic	: Value R6
2015	6.85	1%	-5.68	-1.40	748		Foreign Large Blend Averag		
2014	1.61	3%	-5.39	-4.96	758				
							Perfo	rmance vs	s Risk 5 Yr
						15-			





TOTAL ANNUALIZED STD DEV, %

10

ò 5 10 15 20

Period Ending 12.31.19 | Q4 19

INVESTMENT PROFILE Ticker MINJX CUSIP 552746349 \$29,869.00 Net Assets \$MM Manager Names Team Managed Manager Tenure 11.1 Years Prospectus Exp Ratio 0.63% Cat Median Exp Ratio 1.13% Current 12b-1 N/A AnnIzd Ret Since Incept 7.35% Inception Date 05/01/2006 Phone Number 800-225-2606 Sub Advisor N/A

HOLDINGS OVERVIEW

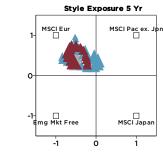
Total Number of Holdings	106
% Assets in Top 10 Holdings	28.58%
Avg Mkt Cap \$MM	\$26,423.50
Turnover Ratio	6.00%

TOP HOLDINGS

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25

Nestle SA	5.12%
Givaudan SA	3.52%
Cadence Design Systems	3.31%
Pernod Ricard SA	2.71%
Diageo PLC	2.45%



Performance Disclosure: For use with CAPTRUST clients only. Mutual fund investing involves risk. Please visit captrustadvisors.com/risk-disclosures/ for a detailed description of the risks associated with investing by asset class. Statistics and data have been derived from Morningstar and are not guaranteed to be accurate or complete. Performance data included here represents past performance and does not guarantee future results. This is not a solicitation to invest. Each mutual fund has a prospectus with a complete description of the risks associated with investing in the specific fund. To request a prospectus on this fund, please call CAPTRUST at (800)216-0645.

VANGUARD TOTAL INTL STOCK INDEX I

Mar-14

Dec-14

Jun-15

Dec-15

Jun-16

Dec-16

Jun-17

Dec-17

Jun-18

Dec-18

	Vanguard Total Intl Stock Index I	Peer Group Rank	FTSE Global All Cap ex US	Foreign Large Blend	# of Funds	-	-0.21
KEY MEASURES / 5 YEAR				-		Last Qtr.	-0.51
Standard Deviation	12.15	56%	12.42	12.26	582		
Sharpe Ratio	0.40	26%	0.38	0.34	582		-0.25
Alpha	0.18	30%	0.00	-0.35	582	YTD	
Beta	0.97	33%	1.00	0.94	582		
R-Squared	98.54	2%	100.00	90.99	582		-0.25
Up Mkt Capture	98.02	22%	100.00	92.36	582	1 year	
Down Mkt Capture	97.42	66%	100.00	94.60	582		
Information Ratio	0.03	24%	NA	-0.16	582		
TRAILING RETURNS						3 years	-0.85
Last Qtr.	9.05	40%	9.26	8.75	715		0.00
YTD	21.56	57%	21.81	22.28	691		
1 Year	21.56	57%	21.81	22.28	691	5 years	-0.63
3 Years	9.90	28%	9.84	8.99	656		0.00
5 Years	5.88	26%	5.84	5.21	582		-0.25
10 Years	5.13	56%	5.39	5.20	505	10 years	-0.19
CALENDAR RETURNS						Ι.	Г
2018	-14.39	38%	-14.62	-15.50	703		-5
2017	27.55	25%	27.41	25.32	751		EXCESS ANNUA
2016	4.70	11%	4.72	0.88	771	V	anguard Total Intl
2015	-4.24	82%	-4.29	-1.40	748	E F	oreign Large Blend
2014	-4.15	31%	-3.39	-4.96	758		Performan
						г	Performan
						10- %	
						TOTAL ANNUALI ZED RETURN, % 9	
6 ₇ I	Rolling 3 Yr Annualized Exc	ess Return (Ma	ar-14 - Dec-19)			D I	
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EXCESS ANNUALIZED RETURN %						JAL	
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ш У -4- Х							TOTAL ANNUA
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	-0.21			I
Qtr.	-0.51			
	-0.25			
TD		0.47		
	-0.25			
ear		0.47		
		0.06		
ars	-0.85			
ars		0.04		
ars	-0.63			
	-0.25			н
ars	-0.19			ד 9
	-5	0	5	A
	EXCESS ANNUA	LIZED RET	JRN %	Т
	Vanguard Total Intl S Foreign Large Blend		I	т
	Performance	e vs Risk	5 Yr	1
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Period Ending 12.31.19 | Q4 19

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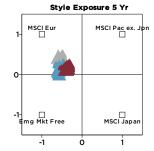
INVESTMENT PROFILE Ticker VTSNX CUSIP 921909784 \$420,632.00 Net Assets \$MM Manager Names Team Managed Manager Tenure 11.4 Years Prospectus Exp Ratio 0.08% Cat Median Exp Ratio 1.13% Current 12b-1 N/A AnnIzd Ret Since Incept 5.24% Inception Date 11/29/2010 800-662-7447 Phone Number Sub Advisor N/A

HOLDINGS OVERVIEW

Total Number of Holdings	7390
% Assets in Top 10 Holdings	8.51%
Avg Mkt Cap \$MM	\$23,572.93
Turnover Ratio	4.00%

TOP HOLDINGS





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Dec-19

Jun-19

A Foreign Large Blend Average

FTSE Global All Cap ex US

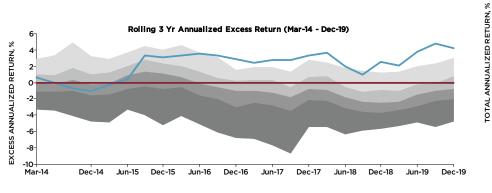
Vanguard Total Intl Stock Index I

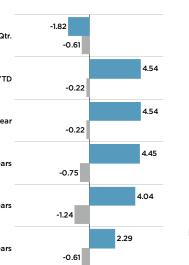
TOTAL ANNUALIZED STD DEV, %

10

VICTORY SYCAMORE SMALL COMPANY OPP I

Mistary Constant	De su Cuerra	D	Care all	4.6			
Small Company Opp I	Peer Group Rank	Value TR USD	Value	# of Funds	Last Otr	-1.82	
					Last Gtr.	-0.61	
14.32	10%	15.88	16.22	384			
0.70	1%	0.37	0.30	384			4.54
4.76	1%	0.00	-1.14	384	YID	-0.22	
0.88	91%	1.00	0.98	384			
94.95	47%	100.00	92.81	384			4.54
101.20	21%	100.00	93.66	384	1 year	-0.22	
81.95	10%	100.00	98.58	384			
1.00	1%	NA	-0.27	384			4.45
					3 years	-0.75	
6.67	80%	8.49	7.88	410		0.75	
26.94	14%	22.39	22.17	408			4.04
26.94	14%	22.39	22.17	408	5 years	-124	
9.22	4%	4.77	4.02	400		-1.2.4	
11.03	1%	6.99	5.76	384			2.29
12.85	2%	10.56	9.95	333	10 years	0.61	
						-0.81	
-8.26	3%	-12.86	-15.70	420		-5 C) 5
11.88	24%	7.84	9.12	431		EXCESS ANNUAL	IZED RETURN %
30.04	19%	31.74	25.47	442		ictory Sycamore Sm	all Company Opp I
-0.39	6%	-7.47	-6.65	449			
6.80	14%	4.22	3.46	446			
	14.32 0.70 4.76 0.88 94.95 101.20 81.95 1.00 6.67 26.94 26.94 9.22 11.03 12.85 -8.26 11.88 30.04 -0.39	Small Company Opp I Rank 14.32 10% 0.70 1% 4.76 1% 0.88 91% 94.95 47% 101.20 21% 81.95 10% 1.00 1% 26.94 14% 9.22 4% 11.03 1% 12.85 2% -8.26 3% 11.88 24% 30.04 19% -0.39 6%	Small Company Opp I Rank Value TR USD 14.32 10% 15.88 0.70 1% 0.37 4.76 1% 0.00 0.88 91% 1.00 94.95 47% 100.00 101.20 21% 100.00 10.31 100 100 10.00 1% NA 6.67 80% 8.49 26.94 14% 22.39 26.94 14% 22.39 9.22 4% 4.77 11.03 1% 6.99 12.85 2% 10.56 -8.26 3% -12.86 11.88 24% 7.84 30.04 19% 31.74 -0.39 6% -7.47	Small Company Opp I Rank Value TR USD Value 14.32 10% 15.88 16.22 0.70 1% 0.37 0.30 4.76 1% 0.00 -1.14 0.88 91% 1.00 0.98 94.95 47% 100.00 92.81 101.20 21% 100.00 93.66 81.95 10% 100.00 93.58 1.00 1% NA -0.27 6.67 80% 8.49 7.88 26.94 14% 22.39 22.17 9.22 4% 4.77 4.02 11.03 1% 6.99 5.76 12.85 2% 10.56 9.95 -8.26 3% -12.86 -15.70 11.88 24% 7.84 9.12 30.04 19% 31.74 25.47 -0.39 6% -7.47 -6.65	Small Company Opp I Rank Value TR USD Value Funds 14.32 10% 15.88 16.22 384 0.70 1% 0.37 0.30 384 4.76 1% 0.00 -1.14 384 0.88 91% 1.00 0.98 384 94.95 47% 100.00 92.81 384 101.20 21% 100.00 93.66 384 101.20 21% 100.00 98.58 384 1.00 1% NA -0.27 384 1.00 1% NA -0.27 384 26.94 14% 22.39 22.17 408 26.94 14% 22.39 22.17 408 9.22 4% 4.77 4.02 400 11.03 1% 6.99 5.76 384 12.85 2% 10.56 9.95 333 - -8.26 3% -12.86	Small Company Opp 1 Rank Value TR USD Value Funds Last Qtr. 14.32 10% 15.88 16.22 384 - 0.70 1% 0.37 0.30 384 YTD 4.76 1% 0.00 -1.14 384 YTD 0.88 91% 1.00 0.98 384 - 94.95 47% 100.00 92.81 384 - 101.20 21% 100.00 93.66 384 - 101.20 21% 100.00 98.58 384 - 1.00 1% NA -0.27 384 3years 6.67 80% 8.49 7.88 410 - 26.94 14% 22.39 22.17 408 5years 9.22 4% 4.77 4.02 400 - 11.03 1% 6.99 5.76 384 10 years -8.26 3% -12.86 <td>Small Company Opp I Rank Value TR USD Value Funds Last Qtr. -0.61 14.32 10% 15.88 16.22 384 -0.61 -0.61 -0.61 14.32 10% 15.88 16.22 384 -0.22 -0.22 0.88 91% 0.00 -1.14 384 -0.22 0.88 91% 1.00 0.98 384 -0.22 0.88 91% 100.00 92.81 384 -0.22 81.95 10% 100.00 98.58 384 -0.22 81.95 10% 100.00 98.58 384 -0.22 6.67 80% 8.49 7.88 410 -0.22 26.94 14% 22.39 22.17 408 5 years -1.24 9.22 4% 4.77 4.02 400 -1.24 -1.24 9.22 4% 6.99 5.76 384 -0.61 -5 -5 0 <</td>	Small Company Opp I Rank Value TR USD Value Funds Last Qtr. -0.61 14.32 10% 15.88 16.22 384 -0.61 -0.61 -0.61 14.32 10% 15.88 16.22 384 -0.22 -0.22 0.88 91% 0.00 -1.14 384 -0.22 0.88 91% 1.00 0.98 384 -0.22 0.88 91% 100.00 92.81 384 -0.22 81.95 10% 100.00 98.58 384 -0.22 81.95 10% 100.00 98.58 384 -0.22 6.67 80% 8.49 7.88 410 -0.22 26.94 14% 22.39 22.17 408 5 years -1.24 9.22 4% 4.77 4.02 400 -1.24 -1.24 9.22 4% 6.99 5.76 384 -0.61 -5 -5 0 <





Performance vs Risk 5 Yr

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▲ Small Value Average

TOTAL ANNUALIZED STD DEV, %

Victory Sycamore Small Company Opp I A Russell 2000 Value TR USD

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Period Ending 12.31.19 | Q4 19

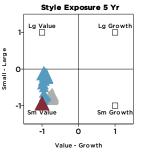
INVESTMENT PROFILE Ticker VSOIX CUSIP 92646A815 \$5,882.00 Net Assets \$MM Manager Names Team Managed Manager Tenure 21.6 Years Prospectus Exp Ratio 0.88% Cat Median Exp Ratio 1.27% Current 12b-1 0.00% AnnIzd Ret Since Incept 9.53% Inception Date 08/31/2007 Phone Number 800-539-3863 Sub Advisor N/A

HOLDINGS OVERVIEW

Total Number of Holdings	107
% Assets in Top 10 Holdings	13.82%
Avg Mkt Cap \$MM	\$2,485.36
Turnover Ratio	43.00%

TOP HOLDINGS

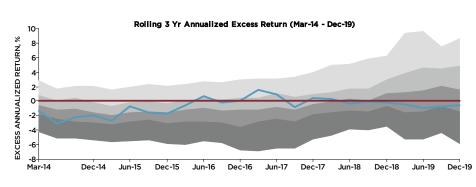


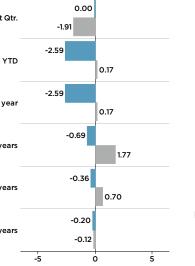


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CARILLON EAGLE SMALL CAP GROWTH R6

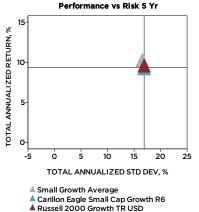
	Carillon Eagle Small Cap Growth R6	Peer Group Rank	Russell 2000 Growth TR USD	Small Growth	# of Funds	Last Qtr.
KEY MEASURES / 5 YEAR						Last Gu.
Standard Deviation	16.95	64%	16.90	16.54	596	
Sharpe Ratio	0.47	71%	0.49	0.55	596	
Alpha	-0.21	74%	0.00	1.27	596	YTD
Beta	0.98	26%	1.00	0.93	596	
R-Squared	95.79	18%	100.00	90.65	596	
Up Mkt Capture	98.72	36%	100.00	94.86	596	1 year
Down Mkt Capture	100.13	82%	100.00	90.40	596	
Information Ratio	-0.09	72%	NA	0.11	596	
TRAILING RETURNS						3 years
Last Qtr.	11.39	24%	11.39	9.49	635	
YTD	25.90	61%	28.48	28.65	631	
1 Year	25.90	61%	28.48	28.65	631	5 years
3 Years	11.80	66%	12.49	14.26	616	
5 Years	8.98	70%	9.34	10.04	596	
10 Years	12.81	53%	13.01	12.89	533	10 years
CALENDAR RETURNS						
2018	-10.06	77%	-9.31	-5.58	666	
2017	23.40	44%	22.17	22.27	707	
2016	10.45	52%	11.32	11.11	728	Ca
2015	-0.39	26%	-1.38	-2.65	750	Sm
2014	5.59	24%	5.60	2.47	764	





Carillon Eagle Small Cap Growth R6 imall Growth Average

EXCESS ANNUALIZED RETURN %



Period Ending 12.31.19 | Q4 19

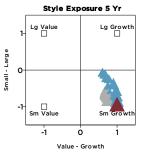
INVESTMENT PROFILE Ticker HSRUX CUSIP 14214L452 \$4,184.00 Net Assets \$MM Manager Names Team Managed Manager Tenure 24.0 Years Prospectus Exp Ratio 0.65% Cat Median Exp Ratio 1.31% Current 12b-1 0.00% AnnIzd Ret Since Incept 11.77% Inception Date 08/15/2011 Phone Number 800-421-4184 Sub Advisor Eagle Asset Management, Inc.

HOLDINGS OVERVIEW

Total Number of Holdings	111
% Assets in Top 10 Holdings	20.55%
Avg Mkt Cap \$MM	\$3,277.09
Turnover Ratio	N/A

TOP HOLDINGS

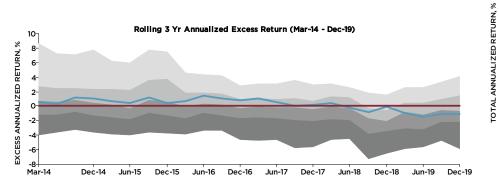
Quaker Chemical Corp	2.61%
Entegris Inc	2.36%
RealPage Inc	2.29%
Hexcel Corp	2.04%
Woodward Inc	2.03%

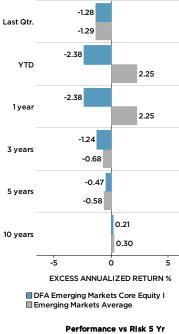


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DFA Emerging Markets Core Equity I

	DFA Emerging Markets Core Equity I	Peer Group Rank	MSCI EM NR USD	Emerging Markets	# of Funds	Last Qtr.	
KEY MEASURES / 5 YEAR						Lust Gu.	
Standard Deviation	15.19	59%	15.79	14.59	640		
Sharpe Ratio	0.27	55%	0.29	0.27	640		-2.3
Alpha	-0.24	59%	0.00	0.02	640	YTD	
Beta	0.95	31%	1.00	0.87	640		
R-Squared	97.21	7%	100.00	88.24	640		-2.3
Up Mkt Capture	96.98	33%	100.00	88.13	640	1 year	
Down Mkt Capture	99.02	78%	100.00	89.73	640		
Information Ratio	-0.17	61%	NA	-0.10	640		
TRAILING RETURNS						3 years	
Last Qtr.	10.55	62%	11.84	10.55	781		
YTD	16.04	81%	18.42	20.67	773		
1 Year	16.04	81%	18.42	20.67	773	5 years	
3 Years	10.33	58%	11.57	10.89	722		
5 Years	5.14	52%	5.61	5.03	640		
10 Years	3.89	50%	3.68	3.98	345	10 years	
CALENDAR RETURNS							
2018	-15.25	37%	-14.57	-16.58	801		-5
2017	36.55	48%	37.28	35.29	825		EXCESS
2016	12.35	19%	11.19	8.21	866		FA Emergi
2015	-14.86	60%	-14.92	-13.51	857		merging M
2014	-0.91	30%	-2.19	-2.73	802		
							Per



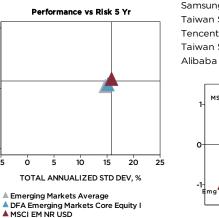


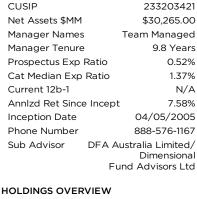
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Period Ending 12.31.19 | Q4 19

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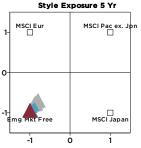
INVESTMENT PROFILE

Ticker

Total Number of Holdings	4912
% Assets in Top 10 Holdings	14.81%
Avg Mkt Cap \$MM	\$9,756.19
Turnover Ratio	4.00%

TOP HOLDINGS

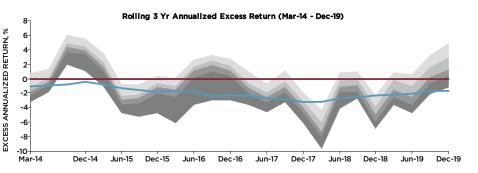
Samsung Electronics Co Lto	4.38%
Taiwan Semiconductor Mar	2.03%
Tencent Holdings Ltd	1.77%
Taiwan Semiconductor Mar	1.46%
Alibaba Group Holding Ltd	1.03%



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TIAA REAL ESTATE ACCOUNT

	TIAA Real Estate Account	Peer Group Rank	CREIFPropertyIndex.mng	Morningstar Sp-Real Estate	# of Funds	Last Qtr.
KEY MEASURES / 5 YEAR	0.00	10/	7.57	12.00	00.4	I
Standard Deviation	0.98	1%	3.53	12.99	224	
Sharpe Ratio	4.64	1%	2.03	0.45	224	YTD
Alpha	4.23	29%	0.00	3.15	224	
Beta	0.04	93%	1.00	0.35	224	
R-Squared	1.98	4%	100.00	1.13	224	_
Up Mkt Capture	67.88	81%	100.00	81.85	224	1 year
Down Mkt Capture	NA	0%	NA	NA	0	
Information Ratio	-0.70	100%	NA	-0.11	224	-
TRAILING RETURNS						3 years
Last Qtr.	1.19	16%	1.55	0.46	242	
YTD	5.51	100%	6.42	27.76	242	_
1 Year	5.51	100%	6.42	27.76	242	5 years
3 Years	4.89	97%	6.70	8.37	229	
5 Years	5.60	81%	8.25	6.75	224	10
10 Years	8.58	98%	10.17	11.29	195	10 years
CALENDAR RETURNS						-
2018	4.79	1%	6.71	-6.40	240	
2017	4.37	66%	6.98	6.06	258	
2016	5.20	73%	7.97	6.69	278	
2015	8.16	1%	13.33	2.33	282	
2014	12.22	99%	11.81	28.25	281	
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Period Ending 12.31.19 | Q4 19

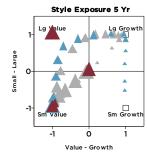
INVESTMENT PROFILE ID VAUSA059TL 878094200 Cusip Net Assets \$ \$27,306,011,838.31 Manager Name Team Managed Manager Start Date 2016-05-01 Expense Ratio 0.76% Cat Median Exp Ratio 1.23% AnnIzd Ret Since Incept 6.25% Inception Date 10-02-1995 Share Class Incep Date 10/02/1995 Phone Number 877-518-9161 Sub Advisor

HOLDINGS OVERVIEW

% Assets in Top 10 Holdings	21.00%
Avg Mkt Cap \$MM	\$18,134.53
Turnover Ratio	11.80%

TOP HOLDINGS

1001 Pennsylvania Avenue	2.73%
Ddrtc Core Retail Fund Llc	2.67%
Florida Mall	2.64%
Fashion Show Mall	2.45%
United States Treasury Not	2.24%



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▲ TIAA Real Estate Account CREIFPropertyIndex.mng

TOTAL ANNUALIZED STD DEV, %

A Morningstar Sp-Real Estate Average

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APPENDIX

University of Maine System

APPENDIX

Advisory Services Review
Plan Administration Review
Action Items/Notes
Your CAPTRUST Service Team
Glossary of Terms
Evaluation Methodology

YOUR CAPTRUST SERVICE TEAM MEMBERS

University of Maine System

TEAM MEMBERS	RESPONSIBILITIES
Barron V. Schmitt Principal Financial Advisor Barry.Schmitt@captrust.com	Account Role: Lead Consultant Our Lead Consultants serve as the primary relationship manager for the fiduciaries of corporate retirement plans. They oversee and ensure quality delivery of comprehensive investment advisory services. They are available to assist with any aspect of clients' accounts, or put them in contact with the appropriate resources here at CAPTRUST.
Michael S. Pratico Senior Vice President Financial Advisor Barry.Schmitt@captrust.com	Account Role: Consultant Our Consultants have responsibility for client project management, client meetings, report preparation, and presentation. Projects involve the establishment of investment policies and objectives, asset allocation modeling, investment manager analyses and searches, fee analysis, performance evaluation, and other specialized projects. In addition, they will provide comprehensive written investment option and plan reviews, as well as monitor overall results and service delivery to ensure complete satisfaction.
Cheryl Walters Client Management Consultant Cheryl.Walters@captrust.com	Account Role: Client Management Consultant The Client Management Consultants are focused on overall client management from initial conversion of new plans to CAPTRUST throughout their 'life' at CAPTRUST. As the primary contact for day-to-day client service needs, the main goal of the Client Management Consultant is to deliver exceptional proactive client service. On a daily basis, the Client Management Consultants are available to assist employees with questions related to plan enrollment and education, available investment options, and other areas.
Andrew Battle Client Relationship Manager Drew.Battle@captrust.com	Account Role: Client Management Consultant The Client Management Consultants are focused on overall client management from initial conversion of new plans to CAPTRUST throughout their 'life' at CAPTRUST. As the primary contact for day-to-day client service needs, the main goal of the Client Management Consultant is to deliver exceptional proactive client service. On a daily basis, the Client Management Consultants are available to assist employees with questions related to plan enrollment and education, available investment options, and other areas.
Scott T. Matheson, CFA, CPA Senior Director Defined Contribution Practice Leader Scott.Matheson@captrust.com	Account Role: Research Analyst Our Investment Analysts conduct investment manager research, asset allocation studies, portfolio monitoring and performance measurement. Some of their specific duties include: evaluating fund lineups and investment options, reporting due diligence findings to clients, and researching the various universes for viable investment options. Our team monitors and evaluates mutual funds, separate account managers and alternative investments for use with current and prospective clients.

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Period Ending 12.31.19 | Q4 19

GLOSSARY

ALPHA

Alpha measures a manager's rate of return in excess of that which can be explained by its systematic risk, or Beta. It is a result of regressing a manager's returns against those of a benchmark index. A positive alpha implies that a manager has added value relative to its benchmark on a risk-adjusted basis.

BATTING AVERAGE

Batting Average, an indicator of consistency, measures the percentage of time an active manager outperformed the benchmark.

BETA

Beta measures a manager's sensitivity to systematic, or market risk. Beta is a result of the analysis regressing a manager's returns against those of a benchmark Index. A manager with a Beta of 1 should move perfectly with a benchmark. A Beta of less than 1 implies that a manager's returns are less volatile than the market's (i.e., selected benchmarks). A Beta of greater than 1 implies that a manager exhibits greater volatility than the market (i.e., selected benchmark).

CAPTURE RATIO

Up Market Capture is the average return of a manager relative to a benchmark index using only periods where the benchmark return was positive. Down Market Capture is the average return of a manager relative to a benchmark index using only periods where the benchmark return was negative. An Up Market Capture of greater than 100% and a Down Market Capture of less than 100% is considered desirable.

INFORMATION RATIO

The Information Ratio measures a manager's excess return over the passive index divided by the volatility of that excess return, or Tracking Error. To obtain a higher Information Ratio, which is preferable, a manager must demonstrate the ability to generate returns above its benchmark while avoiding large performance swings relative to that same benchmark.

PERCENTILE RANK

Percentile Rankings are based on a manager's performance relative to all other available funds in its universe. Percentiles range from 1, being the best, to 100 being the worst. A ranking in the 50th percentile or above demonstrates that the manager has performed better on a relative basis than at least 50% of its peers.

RISK-ADJUSTED PERFORMANCE

Risk-adjusted Performance, or RAP, measures the level of return that an investment option would generate given a level of risk equivalent to the benchmark index.

R-SQUARED

R-squared measures the portion of a manager's movements that are explained by movements in a benchmark index. R-squared values range from 0 to 100. An R-squared of 100 means that all movements of a manager are completely explained by movements in the index. This measurement is identified as the coefficient of determination from a regression equation. A high R-squared value supports the validity of the Alpha and Beta measures, and it can be used as a measure of style consistency.

SHARPE RATIO

Sharpe ratio measures a manager's return per unit of risk, or standard deviation. It is the ratio of a manager's excess return above the risk-free rate divided by a manager's standard deviation. A higher sharpe ratio implies greater manager efficiency.

Period Ending 12.31.19 | Q4 19

STANDARD DEVIATION

Standard Deviation is a measure of the extent to which observations in a series vary from the arithmetic mean of the series. This measure of volatility or risk allows the estimation of a range of values for a manager's returns. The wider the range, the more uncertainty, and, therefore, the riskier a manager is assumed to be.

TRACKING ERROR

Tracking Error is the standard deviation of the portfolio's residual (i.e. excess) returns. The lower the tracking error, the closer the portfolio returns have been to its risk index. Aggressively managed portfolios would be expected to have higher tracking errors than portfolios with a more conservative investment style.

TREYNOR RATIO

The Treynor Ratio is a measure of reward per unit of risk. With Treynor, the numerator (i.e. reward) is defined as the annualized excess return of the portfolio versus the risk-free rate. The denominator (i.e. risk) is defined as the portfolio beta. The result is a measure of excess return per unit of portfolio systematic risk. As with Sharpe and Sortino, the Treynor Ratio only has value when it is used as the basis of comparison between portfolios. The higher the Treynor Ratio, the better.

INVESTMENT REVIEW | EVALUATION METHODOLOGY

University of Maine System

MARKED FOR REVIEW

The following categories of the Investment Policy Monitor appear "Marked For Review" when:

CAPTRUST's Investment Policy Monitoring Methodology

The Investment Policy Monitoring Methodology document describes the systems and procedures CAPTRUST uses to monitor and evaluate the investment vehicles in your plan/account on a quarterly basis.

Our current Investment Policy Monitoring Methodology document can be accessed through the following link:

captrust.com/investmentmonitoring

QUANTITATIVE EVALUATION ITEMS

3/5 Year Risk- adjusted Performance

The investment option's 3 or 5 Year Annualized Risk Adjusted Performance falls below the 50th percentile of the peer group.

3/5 Year Performance vs. Peers

The investment option's 3 or 5 Year Annualized Peer Relative Performance falls below the 50th percentile of the peer group.

3/5 Year Style

The investment option's 3 or 5 Year R-Squared measure falls below the absolute threshold set per asset class.

3/5 Year Confidence

The investment option's 3 or 5 Year Confidence Rating falls below the $50^{\rm th}$ percentile of the peer group.

Glidepath Assessment

% of Equity Exposure: The combined percentage of an investment option's equity exposure ranks in the top 20th percentile or bottom 20th percentile of the peer group.

Regression to the Benchmark: The investment option's sensitivity to market risk - as measured by beta relative to a Global Equity Index - is above 0.89.

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QUALITATIVE EVALUATION ITEMS

Fund Management

A significant disruption to the investment option's management team has been discovered.

Period Ending 12.31.19 | Q4 19

Fund Family

A significant disruption to the investment option's parent company has been discovered.

Portfolio Construction

The investment option's combined Portfolio Construction score is 6 or below out of a possible 15 points.

Underlying Investment Vehicles

The investment option's combined Underlying Investment Vehicles score is 6 or below out of a possible 15 points.

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4.1



UNIVERSITY OF MAINE SYSTEM

AGENDA ITEM SUMMARY

- 1. NAME OF ITEM: Contributory Retirement Plans Investment Advisory Services Contract Extension
- 2. INITIATED BY: Sven P. Bartholomew, Chair Pro tem
- **3. BOARD INFORMATION**:

BOARD ACTION: X

4. OUTCOME: Primary Outcome: Enhance fiscal positioning **BOARD POLICY:** Bylaws – Section 3

5. BACKGROUND:

Through a competitive procurement process, UMS engaged CAPTRUST Financial Advisors (CAPTRUST) to perform investment advisory services commencing January 2, 2013. The contract allowed for a set 7-year period with three 1-year extensions. The contract is currently in its eighth year and management recommends that the Investment Committee approve the extension of CAPTRUST for calendar year 2021.

This extension would be based on the terms of the Request of Proposal (RFP) issued in 2012 and CAPTRUST's pricing provided in 2012. CAPTRUST fees are \$99,995 for calendar year 2020 and the contract allows for a Consumer Price Index for all Urban Consumers (CPI-U) based annual increase capped at 5% annually, for a maximum annual fee of \$104,995 for calendar year 2021.

6. TEXT OF PROPOSED RESOLUTION:

That the Board of Trustees, acting through the Investment Committee, approves the extension of CAPTRUST's appointment as the University of Maine System's investment advisers for the Contributory Retirement Plans for calendar year 2021.