

# **Nevada Public Employees'**

# **ANALYSIS OF INVESTMENT PERFORMANCE**

Deferred Compensation Plan

March 2019

Francis Picarelli Senior Vice President

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### ANALYSIS OF INVESTMENT PERFORMANCE

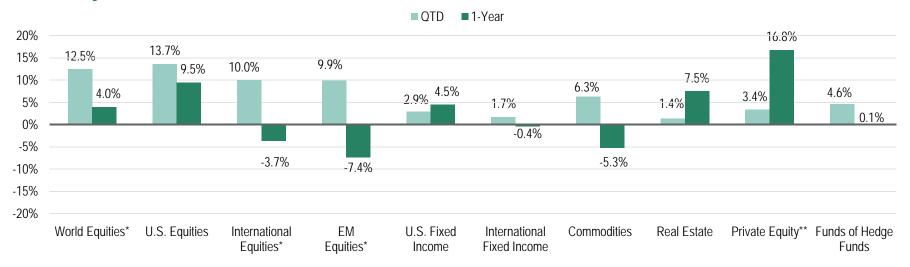
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**Financial Market Conditions** 

## Q1 2019 In Review

### **Summary of Investment Returns**



### **Quarterly Synopsis**

- World equity markets rose in Q1. Fears over U.S./China trade relations lessened and central banks became more accommodative.
- U.S. equity gained in the quarter. Economic data was broadly positive and the Federal Reserve kept interest rates on hold.
- International equities were higher with optimism over global trade and with the European Central Bank not raising rates.
- Emerging market equity rose in Q1 with more optimism surrounding U.S./China trade talks.
- U.S. fixed income rose in the quarter. Investors favored riskier assets like corporate and high-yield bonds over Treasuries.
- Non-U.S. fixed income also gained in Q1, with rates on hold and growth concerns in Europe leading investors to safer assets.
- Hedge funds rose during the quarter. Equity hedge strategies were the top performers.



<sup>\*</sup> Net of Dividends

<sup>\*\*</sup> Performance as of Q3 2018 because Q4 2018 and Q1 2019 performance data is not yet available. Sources: Investment Metrics, Thomson One, FactSet

# **Q1 2019 Index Returns**

Asset Class	Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
World Equity	MSCI World <sup>1</sup>	12.48	12.48	4.01	10.68	6.78	12.38
U.S. Equity	Russell 3000	14.04	14.04	8.77	13.48	10.36	16.00
Non-U.S. Equity	MSCI EAFE <sup>1</sup>	9.98	9.98	-3.71	7.27	2.33	8.96
Emerging Market Equity	MSCI EM <sup>1</sup>	9.92	9.92	-7.41	10.68	3.68	8.94
U.S. Fixed Income	Bloomberg Barclays U.S. Aggregate	2.94	2.94	4.48	2.03	2.74	3.77
Non-U.S. Fixed Income	FTSE <sup>2</sup> Non-U.S. WGBI (Unhedged)	1.52	1.52	-4.55	0.87	-0.06	2.02
Commodities	Bloomberg Commodity Index	6.32	6.32	-5.25	2.22	-8.92	-2.56
Private Real Estate	NFI-ODCE <sup>3</sup>	1.42	1.42	7.52	7.97	10.17	8.74
Private Equity	Thomson Reuters Private Equity <sup>4</sup>	3.37	11.19	16.80	13.87	13.79	11.54
Hedge Funds	HFRI Fund of Funds Composite	4.59	4.59	0.11	3.92	2.20	3.54

<sup>&</sup>lt;sup>1</sup> Net of Dividends

Sources: Investment Metrics, Thomson One, FactSet



<sup>&</sup>lt;sup>1</sup> Ner of Dividends
<sup>2</sup> Formerly Citigroup Non-U.S. WGBI. Citigroup's fixed income indices were purchased by London Stock Exchange Group (LSEG) and were all rebranded to FTSE by July 31, 2018.
FTSE Russell is a unit of LSEG's Information Services Division and a wholly owned subsidiary of LSEG.

<sup>3</sup> NCREIF Fund Index (NFI) – Open End Diversified Core Equity (ODCE)

<sup>4</sup> Performance as of Q3 2018 because Q4 2018 and Q1 2019 performance data is not yet available.

# **Q1 2019 Index Returns**

Equity Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
S&P 500®	13.65	13.65	9.50	13.51	10.91	15.92
Russell 1000	14.00	14.00	9.30	13.52	10.63	16.05
Russell 1000 Growth	16.10	16.10	12.75	16.53	13.50	17.52
Russell 1000 Value	11.93	11.93	5.67	10.45	7.72	14.52
Russell 2000	14.58	14.58	2.05	12.92	7.05	15.36
Russell 2000 Growth	17.14	17.14	3.85	14.87	8.41	16.52
Russell 2000 Value	11.93	11.93	0.17	10.86	5.59	14.12
Russell 3000	14.04	14.04	8.77	13.48	10.36	16.00
MSCI EAFE*	9.98	9.98	-3.71	7.27	2.33	8.96
MSCI World*	10.45	10.45	-3.14	7.29	2.20	8.82
MSCI EM*	9.92	9.92	-7.41	10.68	3.68	8.94
Electronic to Pro-	OTD	VTD	4. 27	0.1/	F. V	40 \
Fixed-Income Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
Blbg Bar U.S. Aggregate	2.94	2.94	4.48	2.03	2.74	3.77
Blbg Bar U.S. Govt/Credit	3.26	3.26	4.48	2.12	2.78	3.92
Blbg Bar U.S. Intermediate Govt/Credit	2.32	2.32	4.24	1.66	2.12	3.14
Blbg Bar U.S. L/T Govt/Credit	6.45	6.45	5.24	3.75	5.35	7.23
Blbg Bar U.S. Government	2.10	2.10	4.20	1.07	2.15	2.44
Blbg Bar U.S. Credit	4.87	4.87	4.89	3.48	3.61	6.22
Blbg Bar U.S. Mortgage-Backed Securities	2.17	2.17	4.42	1.77	2.66	3.12
BofA ML U.S. High Yield Master II	7.26	7.26	5.93	8.56	4.68	11.26
Citigroup Non-U.S. WGBI (Unhedged)	1.52	1.52	-4.55	0.87	-0.06	2.02
Citigroup 3-Month T-Bill	0.60	0.60	2.11	1.17	0.72	0.41
	0.00	0.00			0.72	0.11
Other Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
Hueler Stable Value	0.59	0.59	2.31	2.05	1.92	2.22
Bloomberg Commodity	6.32	6.32	-5.25	2.22	-8.92	-2.56
HFRI Fund of Funds Composite	4.59	4.59	0.11	3.92	2.20	3.54
NCREIF NFI-ODCE	1.42	1.42	7.52	7.97	10.17	8.74
Thomson Reuters Private Equity**	3.37	11.19	16.80	13.87	13.79	11.54



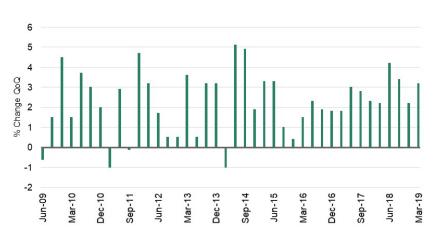
<sup>\*</sup> Net of Dividends
\*\* Performance reported as of Q3 2018 because Q4 2018 performance data is not yet available.
Sources: eVestment Alliance, Hueler Analytics, Investment Metrics, Thomson One, FactSet

# Q1 2019 In Review: U.S. Economy

### **GDP Growth**

- U.S. GDP growth rose by 3.2% in Q1 2019.
- A rise in exports, a drop in imports and higher inventory investment helped drive GDP growth in the guarter.
- However, consumer spending, which drives 2/3 of economic activity, was weaker in Q1. Americans bought fewer vehicles and services in the quarter.

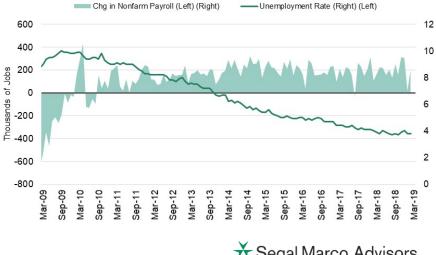
### U.S. Real GDP Growth



### **Employment Picture**

- The unemployment rate fell to 3.8% in March. Nonfarm payrolls rose by 520,000 over the quarter.
- Employment gains were led by health care, professional and technical services, and food services and drinking places.
- Employment in industries such as construction, manufacturing, mining, wholesale trade, transportation and warehousing, information, financial activities, and government, showed little change.

### U.S. Nonfarm Payrolls and Unemployment Rate

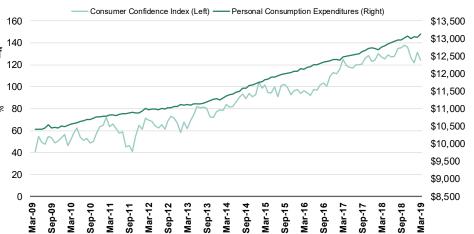


Source this page: FactSet

# Q1 2019 In Review: U.S. Economy

### **Consumer Confidence and Spending**

- Sentiment declined again in Q1, as the Conference Board's Consumer Confidence Index decreased from 128.1 at the end of December 2018 to 124.1 at the end of March.
- Personal consumption expenditures rose in January\*.
- Consumer confidence fell as global trade tensions persisted and worries grew about the state of the global economy.



**Consumer Confidence and Spending** 

### **Retail Sales**

- Retail sales ended March\* up 3.5% from one year ago.
- Auto, gasoline, furniture and clothing sales gained the most in March.
- The gains show a significant rebound from late 2018's sales slowdown. Continued positive economic news has helped boost consumers' willingness to spend so far in 2019.

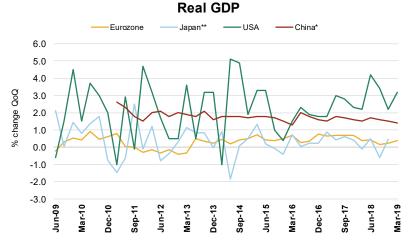


<sup>\*</sup>The most recent data available. Source this page: FactSet

# Q1 2019 In Review: Global Economy

### **World GDP Growth**

- Eurozone GDP grew 0.4% quarter over quarter (QoQ), its best growth rate since early 2018. The Eurozone's annual growth rate stayed steady at 1.2%.
- China's GDP growth declined by 0.1% QoQ to 1.4% in Q1. The country's annual growth rate remains at 6.4%.
- Japan's GDP was back in positive territory QoQ in Q4\*\*, coming in at 0.5%. The Japanese economy's annual growth rate grew to 0.3%.
- U.S. GDP grew 3.2% in Q1.

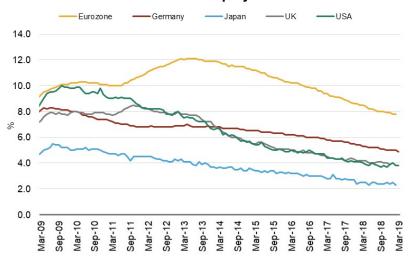


Note that the figures in the graph above represent the percent change in real GDP from the previous quarter, not the annual growth rate of these economies.

### **Global Employment Picture**

- Eurozone unemployment fell to 7.7% in March 2019\*\*, the region's lowest-recorded rate since October 2008. The Eurozone shook off recession fears in Q1 with strong GDP growth, and jobs grew accordingly in the quarter.
- Japan's unemployment rate ticked up to 2.5% in March. While higher than its earlier historic low of 2.2%, unemployment remained quite modest in Japan.

### International Unemployment Rates



\*Quarter over quarter data calculations began in 2011.

Source this page: FactSet

<sup>\*\*</sup>Most recent data available.

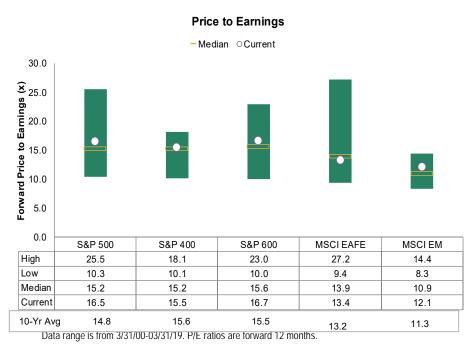
# Q1 2019 In Review: Global Equity Overview

Equity Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
S&P 500	13.65	13.65	9.50	13.51	10.91	15.92
MSCI Europe, Australasia and Far East (EAFE)*	9.98	9.98	-3.71	7.27	2.33	8.96
MSCI Emerging Markets (EM)*	9.92	9.92	-7.41	10.68	3.68	8.94

All data in the table are percentages.

### **Global Equity Performance and Valuations**

- Equity markets posted positive returns around the globe in Q1, with U.S. equities outperforming non-U.S. developed and emerging markets. The financial markets responded favorably to the U.S. Federal Reserve's shift away from its monetary tightening bias.
- While only the U.S. is in positive territory for the trailing one-year period, the U.S., non-U.S. developed, and EM equities are all in positive territory over the 3-, 5-, and 10-year periods.
- The P/E multiple for U.S. large, small and mid-caps all rose above median in Q1.
- The MSCI EAFE P/E multiple increased from 11.9x to 13.4x but still remains lower than its median. As such, developed international equities appear to be undervalued by this measure.
- The MSCI EM P/E multiple ended Q1 above its median. EM equities thus appear to be fully valued.



\*Segal Marco Advisors

<sup>\*</sup> Net of dividends

# Q1 2019 In Review: U.S. Equity

U.S. Equity Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
S&P 500	13.65	13.65	9.50	13.51	10.91	15.92
Russell 1000	14.00	14.00	9.30	13.52	10.63	16.05
Russell 1000 Growth	16.10	16.10	12.75	16.53	13.50	17.52
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Russell 2000 Growth	17.14	17.14	3.85	14.87	8.41	16.52
Russell 2000 Value	11.93	11.93	0.17	10.86	5.59	14.12
Russell 3000	14.04	14.04	8.77	13.48	10.36	16.00

All data in the tables are percentages.

### **Performance**

- U.S. equity markets posted significant gains in the first quarter after a volatile end to 2018. A reversal of market sentiment was led by positive global economic news and muted inflation expectations.
- The S&P 500 notched positive performance across all sectors, led by economically sensitive areas like Information Technology, Industrials, and Real Estate. Financials, with news that the Federal Reserve would keep interest rate hikes on hold, and Health Care, with uncertainty surrounding regulatory changes, were the worst performing sectors.
- Amid a late cycle rally, the faster growing companies helped growth stocks outpace value stocks. Among capitalizations, small and mid-caps led the way for 1Q19.

S&P 500 Sector Returns	QTD	1-Year
Cons. Disc.	15.73	13.19
Cons. Staples	12.01	10.49
Energy	16.43	1.32
Financials	8.56	-4.67
Healthcare	6.59	14.89
Industrials	17.20	3.23
IT	19.86	15.44
Materials	10.30	-0.43
Telecom	13.98	7.75
Utilities	10.84	19.33
Real Estate	17.53	21.00

\*Segal Marco Advisors

# Q1 2019 In Review: International Equity

MSCI International Equity Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
World ex. U.S.	10.45	10.45	-3.14	7.29	2.20	8.82
EAFE	9.98	9.98	-3.71	7.27	2.33	8.96
EAFE Local Currency	10.59	10.59	2.83	8.53	5.98	9.75
Europe	10.84	10.84	-3.72	6.56	1.04	8.95
Europe ex U.K.	10.45	10.45	-5.09	6.66	1.18	8.75
U.K.	11.89	11.89	-0.07	6.31	0.69	9.27
Pacific ex Japan	12.24	12.24	4.59	10.32	3.88	11.42
Japan	6.66	6.66	-7.84	8.06	5.61	7.96

All data in the tables are percentages and net of dividends.

### **Performance**

- After a tough end to 2018, developed markets outside of the U.S. rebounded to positive returns during the quarter (though they underperformed the U.S. equity market). Developed markets, as measured by the MSCI EAFE Index, rose 10%. Italy, Netherlands and Switzerland led the way, each gaining between 13-15% for the quarter. Japan, Germany and Spain trailed the benchmark, up just 7% apiece.
- Markets in Europe (including the U.K., which rose 12% in the quarter) were resilient despite the overhang of Brexit, slowing economic data, and other political and monetary uncertainty.
- Sector returns were all positive in Q1, with Information Technology and Real Estate stocks performing the best in a relative sense.
   Communication Services, Utilities and Financials were relative laggards as the market returned to a risk-on environment during the quarter.

MSCI EAFE Sector Returns	QTD	1-Year
Consumer Disc.	7.52	-10.39
Cons. Staples	12.38	3.28
Energy	10.44	4.59
Financials	6.93	-12.65
Healthcare	11.23	7.37
Industrials	10.56	-5.41
IT	15.31	-3.80
Materials	13.18	-2.96
Telecom	4.33	-4.52
Utilities	8.97	8.73
Real Estate	14.01	4.19

# Q1 2019 In Review: Emerging Market Equity

MSCI EM Equity Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
Emerging Markets	9.92	9.92	-7.41	10.68	3.68	8.94
EM Local Currency	9.83	9.83	-1.94	11.25	7.10	10.16
Asia	11.11	11.11	-6.84	11.79	6.21	10.80
EMEA	5.52	5.52	-10.57	5.43	-1.81	5.96
Latin America	7.85	7.85	-6.72	11.10	-0.30	5.27

All data in the tables are percentages and net of dividends.

### **Performance**

- Emerging markets, which suffered for much of 2018, returned almost 10% for the quarter. While positive, EM returns still came in behind the U.S. in Q1.
- Emerging markets stocks were lifted by progress in the U.S.-China trade dispute and news the U.S. Federal Reserve expects to slow its pace of interest rate hikes.
- The standout performer in EM in Q1 was China, which climbed nearly 18%. China's gain came amid optimism over a trade agreement with the U.S., better economic data and ongoing government support for the Chinese domestic economy. China Ashares were particularly strong as MSCI announced plans to quadruple their weight in its global benchmark indices between May and November 2019.
- Every sector had positive returns in Q1. Consumer Discretionary, Real Estate, Information Technology and Energy all had double digit positive returns in the guarter to lead the way.

MSCI EM Sector Returns	QTD	1-Year
Cons. Disc.	20.78	-13.15
Cons. Staples	5.33	-8.37
Energy	12.20	9.41
Financials	7.20	-6.01
Healthcare	3.63	-23.41
Industrials	4.82	-7.63
IT	12.79	-10.83
Materials	6.87	-6.16
Telecom	9.51	-3.26
Utilities	4.21	-2.66
Real Estate	15.62	-2.12

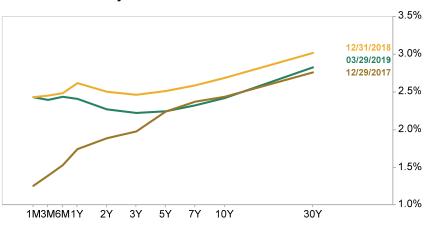
Sources this page: Investment Metrics, FactSet

## Q1 2019 In Review: Fixed Income Overview

### **Yield Curve**

- Treasury yields fell across the curve in Q1, with the Fed saying it would take more of a 'wait and see' approach to interest rate hikes in 2019.
- Global demand for Treasuries helped make the yield curve flatter. Changes were particularly noteworthy among shorter maturities, as the 5-yr yield (2.24%) fell below the 3 month yield (2.39%).
- The 30-year Treasury ended the quarter yielding 2.82%, which was 19 basis points (bps) lower than its yield at the end of Q4.
   The 2-year Treasury ended the quarter at 2.27%, which was 23 bps lower than the prior quarter.

#### **United States Treasury Yield Curve**

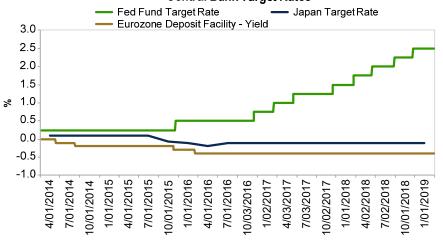


### **Monetary Policies/Global Interest Rates**

- Central bank deposit rates remained negative in Japan and Europe.
- The U.S. continues to be an outlier with the policy rate at 2.5%, but the outlook and expectations for future hikes has come under scrutiny.
- The Fed did not hike in 1Q as its plans for future rate increases are less clear now than previously stated due to concerns about market volatility and economic growth.

Interest Rates	Fed Funds Rate	EZ Deposit Facility Rate
Average	5.16% (1971-2019)	1.02% (1999-2019)
Max	20.0% (Mar. 1980)	3.75% (Oct. 2000)
Min	0.25% (Dec. 2008)	-0.40% (Mar. 2016)

### Central Bank Target Rates



\*\* Segal Marco Advisors

## Q1 2019 In Review: U.S. Fixed Income

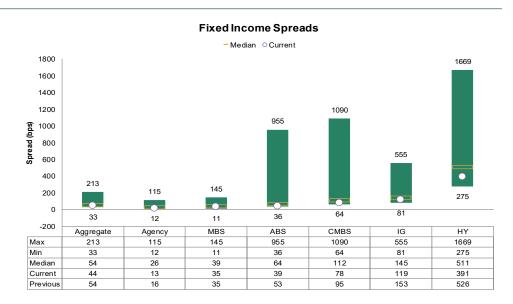
U.S. Fixed Income Indices*	QTD	YTD	1-Year	3-Year	5-Year	10-Year
U.S. Aggregate	2.94	2.94	4.48	2.03	2.74	3.77
Government/Credit	3.26	3.26	4.48	2.12	2.78	3.92
Government	2.10	2.10	4.20	1.07	2.15	2.44
Investment Grade Corporate	5.14	5.14	4.94	3.64	3.72	6.66
Investment Grade CMBS	3.23	3.23	5.54	2.56	2.99	8.04
U.S. Corporate High Yield	7.26	7.26	5.93	8.56	4.68	11.26
FTSE** 3-Month T-Bill	0.60	0.60	2.11	1.17	0.72	0.41
Hueler Stable Value	0.59	0.59	2.31	2.05	1.92	2.22

<sup>\*</sup> Bloomberg Barclays Indices, unless otherwise noted.

All data in the table are percentages.

### **Performance and Spreads**

- The U.S. Aggregate Index was positive in Q1.
   Performance was driven most notably by Corporates (+5.14%). Treasuries and Agency MBS also performed well, each returning over 2.0%.
- High yield generated a 7.26% return in Q1. Higher yielding credits performed well in a reversal from Q4's numbers.
- Most domestic fixed income spreads are tighter than the levels seen at the end of Q4, but still higher than the levels seen at the end of the third quarter of 2018.



Data range is from 9/30/00-3/31/19



<sup>\*\*</sup> Formerly Citigroup. Citigroup's fixed income indices were purchased by London Stock Exchange Group (LSEG) and were rebranded to FTSE by July 31, 2018. FTSE Russell is a unit of LSEG's Information Services Division and a wholly owned subsidiary of LSEG.

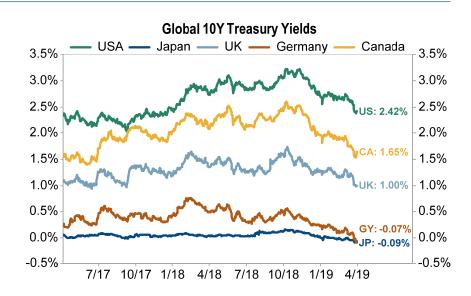
## Q1 2019 In Review: International Fixed Income

Global Fixed Income Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
Bloomberg Barclays Global Aggregate	2.20	2.20	-0.38	1.49	1.04	3.05
Bloomberg Barclays Global Aggregate (Hgd)	2.99	2.99	4.93	2.82	3.64	4.09
FTSE Non-U.S. WGBI*	1.52	1.52	-4.55	0.87	-0.06	2.02
FTSE Non-U.S. WGBI (Hgd)	3.10	3.10	5.12	3.20	4.50	4.07
JPM EMBI Global Diversified**	6.59	6.59	3.52	5.20	4.80	8.12
JPM GBI-EM Global Diversified***	2.92	2.92	-7.58	3.27	-0.76	4.38

All data in the table are percentages.

### **Global Performance and Yields**

- Government yields fell in Q1 across developed markets.
- The euro and Japanese yen depreciated relative to the U.S. dollar, while the British pound appreciated. In emerging markets, modest currency appreciation was seen in Asia ex-Japan and Latin America.
- In Q1, central banks continued to adjust policy away from accommodation, but the pace and rhetoric have decelerated given lackluster global growth.



Sources this page: FactSet, Investment Metrics

\*Segal Marco Advisors

<sup>\*</sup> Formerly Citigroup. The FTSE Non-U.S. World Government Bond Index (WGBI) measures the performance of fixed-rate, local currency, investment grade sovereign bonds excluding the U.S.

<sup>\*\*</sup> The JP Morgan Emerging Market Bond Index (EMBI) Global Diversified index measures government bonds in hard currencies.

<sup>\*\*\*</sup> The JP Morgan Government Bond Index – Emerging Markets (GBI-EM) Global Diversified index measures government bonds in local currencies.

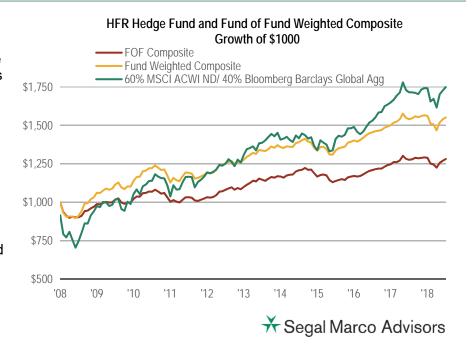
## Q1 2019 In Review: Absolute Return Strategies

HFRI Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
Fund of Funds Composite	4.59	4.59	0.11	3.92	2.20	3.54
Fund Weighted Composite	5.71	5.71	0.72	5.06	3.03	5.46
Event Driven	4.20	4.20	1.87	6.91	3.01	6.94
Equity Hedge	7.82	7.82	-0.19	6.79	3.59	6.46
Macro	2.59	2.59	-0.01	0.01%	1.22	1.39
Emerging Markets	7.51	7.51	-5.22	7.08	3.04	5.96
Relative Value	3.95	3.95	3.05	5.53	3.49	6.90

### **Hedge Fund Performance**

- The HFRI Fund Weighted Composite increased 5.7% during Q1, and all of the major hedge fund strategies were positive during the quarter. Despite Macro being the weakest performer, contributions from quantitative managers helped the Composite have its best quarter since Q3 of 2017.
- Equity Hedge was the strongest performing strategy in Q1, as the
  previous quarter's largest detractors rebounded. Healthcare
  sector-focused managers led sub-strategy performance, followed
  by Fundamental Growth strategies, largely as a result of the
  reversal in investor sentiment after improving trade negotiations
  between the U.S. and China.
- The Fund Weighted Composite and Fund of Funds Composite indices were both positive but underperformed the 60/40 Balanced MSCI ACWI/Bloomberg Barclays Global Aggregate index, which gained 8.22% during the quarter. The Fund Weighted Composite also had its highest first-quarter return since the first quarter of 2006.

Sources this page: FactSet, eVestment



# Q1 2019 In Review: Private Equity

### **Performance**

- The total return for private equity funds, comprising performance across all regions and strategies, was (0.6%) in Q4 2018\* amidst the public market sell down. The 1-year period return ending Q4 still reached 11.5%.
- The 5-, 10-, and 20-year returns for private equity funds were 12.0%, 14.2% and 13.2%, respectively, at the end of Q4. Venture funds performed especially well, generating meaningful returns across multiple time periods.
- All funds from recent vintage years performed well with 2017 vintages having come out of the J-curve.

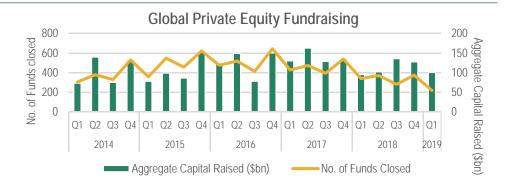
# Global Private Equity Performance by Investment Horizon and Vintage Year



"Vintage year" refers to the first year that capital was committed in a particular fund. Vintage-year performance is calculated as the median percentile returns of all funds reporting as pooled IRRs.

### **Fundraising**

- Globally, private equity funds raised approximately \$100.2 billion across 219 funds through in Q1 2019, which is about the same amount that was raised in Q1 2018.
- North America and Asia continue to be active fundraising markets, while Europe has fewer funds.
- Dry powder\*\* continues to reach new records, with \$1.26 trillion as of March 2019. Buyout funds account for the majority (59%) of this dry powder, while venture capital and growth funds hold 17% and 5% of the total respectively.

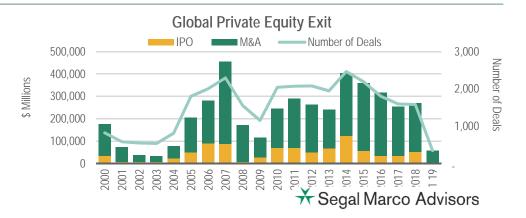


### **Exit Activity**

- Exit activity continued to decline, falling from 464 exits in Q4 2018 to 348 exits in Q1 2019. Aggregate deal value was also considerably lower compared with the prior guarter.
- The total value of venture capital exits has spiked in recent quarters, driven by the exit activity of a small number of large companies. However, developing exit strategies for venture capital-backed companies is becoming increasingly challenging.

\*Most recent data available.

\*\*Dry powder is capital raised that hasn't yet been invested. Sources this page: Thomson Reuters, Pregin



### Q1 2019 In Review: Real Estate

### **Real Estate Performance**

- NFI ODCE produced a 1.42% return for the quarter, with Appreciation down 34 bps QoQ. The NCREIF NPI was up 1.80%, gaining 43 bps in Appreciation QoQ. Income for both remained flat for the quarter.
- For the quarter, Industrial was the highest performing NPI Property Type at 3.02% with Retail (1.74%), Office (1.63%), and Apartment (1.35%) producing close results. Hotel was the worst performing property type (0.44%), underperforming Industrial by 258 bps.
- The NAREIT Equity REIT Index produced a 17.17% gain for the quarter, climbing roughly 23% from the -6.06% loss in 4Q 2018
- NFI-CEVA trailing vintage year cohorts for the trailing 10-years are reporting the following Top/Median/Bottom Quartile performance:

2016/17: 11.5%/9.1%/7.2%

• 2014/15: 15.1%/14.1%/11.9%

• 2013/: 17.6%/12.7%/12.2%

• 2011/12: 17.9%/15.2%/9.8%

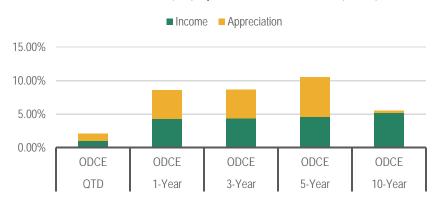
• 2008-2010: 20.7%/15.2%/9.8%

### Real Estate Capitalization Rates\* vs. Treasuries

- Asset values remain steady for the most part; however, lower quality properties possess the most risk potential
- Prevailing cap rates have been buoyed by historically wide spreads versus financing costs and persistent demand for real estate.
- Further compounding the cap rate spread issue, there is a record level of capital available to invest in real estate.

\*A cap rate is the potential rate of return on a real estate investment. Assuming no change in net operating income, real estate valuations rise when cap rates fall. Comparing cap rates to the10-year U.S. Treasury provides investors with an estimated spread for expected returns from real estate (higher risk) vs. fixed rate bond (lower risk) investments. Sources this page: NCREIF, Bloomberg

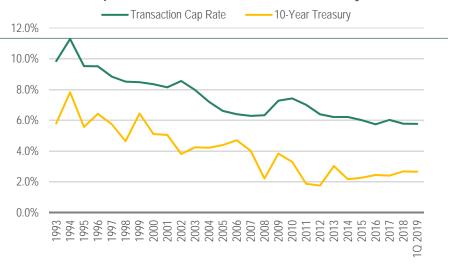
### NCREIF Fund Index (NFI) Open-End Diversified Core (ODCE)



The NFI-ODCE (Open-end Diversified Core Equity) is defined by NCREIF as a fund-level cap-weighted, gross of fee, time-weighted return index with an inception date of December 31, 1977.

The NFI-CEVA Index, which is a quarter lagged in performance reporting, is defined by NCREIF as a capitalization-weighted, gross of fees, time-weighted return index. Funds included in the index must be closed-end with a value-add strategy operated for U.S. institutional investors and must comply with NCREIF's data collection and reporting standards.

### Capitalization Rates & 10-Year U.S. Treasury



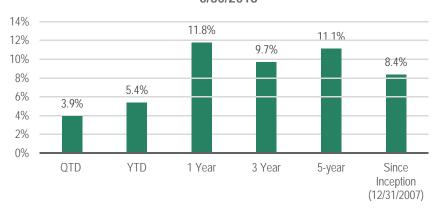
\*Segal Marco Advisors

## Q1 2019 In Review: Infrastructure

### Infrastructure Performance

- Private infrastructure gained 3.9% in Q2 2018\* and 11.8% over the 1-year period ending June 30, 2018.
- The 1-, 3-, and 5-year results exceeded the since-inception return, indicating the asset class has recovered well from the global financial crisis. The strong Q2 2018 return is a good sign for investors after a weak Q1 2018(1.4%).
- The number of deals completed in Q1 2019 fell to 534 relative to 750 deals completed in Q1 of 2018. At \$448.5M, the average deal size year to date is on pace to be a record high.
- Public infrastructure registered a 13.3% return in Q1 2019, as per the FTSE Global Infrastructure 50/50 Index. Public infrastructure securities recovered with the rest of public equity markets from a rough December 2018.

# Preqin Infrastructure Annualized Return as of 6/30/2018\*

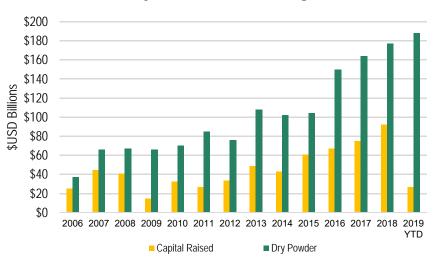


According to Preqin, the Preqin Infrastructure Index captures the average returns earned by investors in their infrastructure portfolios, based on the actual amount of money invested. The Preqin Infrastructure index is calculated on a quarterly basis using data from Preqin's Infrastructure Online services.

### **Dry Powder and Fundraising**

- Infrastructure fundraising remains strong with large funds successfully driving capital inflows into the asset. \$23.7 billion in funds were raised in Q1 2019 with an average fund size of \$2.2 billion. Compare that to the historical average quarterly fund size of \$919.0 million.
- Dry powder\*\* increased by \$11 billion, a small increase following a strong fundraising quarter in Q1 2019. Dry powder continues to reach record highs with strong investor demand for infrastructure investments.
- European funds drove the growth in dry powder during the quarter with a \$14 billion increase. North American focused funds saw dry powder decrease by \$4 billion.

### Dry Powder and Fundraising



Sources this page: Pregin



<sup>\*</sup>The most recent data available. Pregin did not report Q3 2018 numbers by the time of this publication.

<sup>\*\*</sup>Dry powder is capital raised that hasn't yet been invested.

## Q1 2019 In Review: Commodities and Currencies

BCOM Indices	QTD	YTD	1-Year	3-Year	5-Year	10-Year
Bloomberg Commodity Index (BCOM)	6.32	6.32	-5.25	2.22	-8.92	-2.56
Energy	15.93	15.93	-0.55	7.48	-16.72	-10.02
Agriculture	-3.18	-3.18	-16.26	-7.99	-12.40	-2.81
Industrial Metals	12.85	12.85	-3.10	11.28	0.11	2.37
Precious Metals	0.02	0.02	-4.04	0.19	-1.90	2.42
Livestock	4.69	4.69	14.37	0.70	-4.28	-1.56

### **Commodity and Currency Highlights**

- The Bloomberg Commodity Index increased during Q1, with 15 out of 23 constituents posting positive performance.
- Top three performers during the quarter were in the Energy sector, as WTI Crude Oil (30.2%), Gasoline (26.7%) and Brent Crude oil (25.2%) all saw strong gains. These subsectors saw tighter inventories as a result of U.S. sanctions on Iran, domestic problems in Venezuela and supply cuts from OPEC.
- The only sector that posted negative performance during the quarter was Agriculture. That sector was impacted by mild weather in the Black Sea region, which increased supply internationally, and an expectation for higher yields in the U.S. in 2019.
- The USD rose against most major currencies in Q1, though its gains were modest.
- Both the euro and the yen declined against the USD.
- The Canadian dollar appreciated against the USD. The CAD rose amid solid Canada economic data and higher oil prices.

### Major World Currencies Indexed to Zero US Trade-Weighted Dollar Exchange Rate Index USD per Euro USD per Japanese Yen USD per China Yuan Renminbi USD per Canadian Dollar 20 15 10 -5 -10 -15 12/30/16 02/28/17 04/30/17 08/31/17 02/28/18 06/30/18 10/31/18 06/30/17 12/31/17

\*\* Segal Marco Advisors

Source this page: FactSet

### **Annual Asset Class Performance**

As of March 31 2019

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	n 31, 2019 <b>YTD</b>
Best	34.54	35.93	39.78	5.24	79.02	29.09	13.56	18.64	43.30	30.38	5.67	31.74	37.75	1.86	17.14
	14.02	32.59	11.81	1.80	58.21	28.47	8.68	18.53	38.82	13.45	2.52	21.31	30.21	0.01	16.27
	12.11	26.86	11.63	-2.35	37.21	26.85	8.46	18.05	34.52	13.24	1.23	17.34	25.62	-0.23	16.10
	10.74	23.48	11.63	-10.91	34.47	24.50	7.84	17.90	33.48	13.05	0.92	17.13	22.17	-1.26	14.58
	7.05	22.25	7.05	-20.30	32.46	19.20	4.98	17.78	33.11	5.97	0.65	12.05	21.69	-1.51	14.00
	6.27	18.37	6.97	-26.16	28.61	16.71	2.64	17.51	32.53	5.60	0.55	11.60	14.65	-2.08	11.93
	5.66	15.46	6.28	-28.92	28.43	16.10	1.50	16.42	23.29	5.53	0.03	11.32	13.66	-4.57	11.93
	5.26	13.35	5.77	-33.79	28.19	15.51	0.39	16.35	7.90	4.89	-0.39	10.19	9.32	-4.61	10.13
	4.71	11.86	4.74	-36.85	27.17	15.12	0.06	15.81	7.44	4.22	-1.38	8.60	7.84	-4.78	9.97
	4.55	9.86	1.87	-37.60	24.67	13.16	-2.44	15.26	2.47	3.64	-1.44	7.08	7.50	-8.27	7.26
	4.15	9.07	1.81	-37.98	20.58	12.06	-2.91	14.59	0.06	3.40	-3.83	6.36	5.07	-9.31	6.59
	3.01	8.99	-0.17	-38.44	19.69	8.21	-4.18	8.18	-2.02	2.45	-4.41	4.68	4.09	-11.01	3.19
	2.84	4.76	-1.57	-38.54	11.41	6.54	-5.50	6.98	-2.27	0.02	-4.47	2.65	3.54	-12.86	2.94
	2.74	4.34	-9.78	-43.06	5.93	6.31	-11.73	4.21	-6.58	-1.82	-7.47	1.51	3.01	-13.36	2.89
Worst	2.43	0.49	-16.81	-53.18	0.16	0.10	-18.17	0.09	-8.61	-4.48	-14.60	0.27	0.84	-14.25	0.60
	- ·	- I					140						IDM 4	LIEDI DV	
Russell 1000 Index	Russell 1000 Value Index	Russell 1000 Growth Index	Russell 2000 Index	Russel 2000 Value Index	Russe 2000 Growt Index	th EAF	E Emer	ging U.S.	REII	Ba	rc. U.S.	Blmbg. arc. U.S. Corp: gh Yield	JPM EMBI Global (USD)	HFRI RV: Multi- Strategy Index	FTSE 3 Month T- Bill

# Administrative Review

# **Executive Summary as of March 31, 2019**

### **Deferred Compensation Total Assets**

> Plan assets in the 457 Plan totaled to **\$827.6 million** as of March 31, 2019. This represented an increase of **\$56.4 million** during the first quarter of 2019.

0	Total	\$869,278,751
0	FICA Alternative Plans	\$41,698,343
0	Political Sub-Divisions	\$189,102,069
0	NSHE	\$64,606,947
0	State 457	\$573,871,392

- > As of March 31, 2019, the Plan's Total Number of Loans Outstanding is **518.** The Plan's Outstanding Loan Balance is **\$3,679,871.31.**
- > The largest amount of Plan assets, are invested in the Stable Value Funds representing \$317.5 million, or 38.4%, in the Voya Fixed Account. The next largest fund allocations among the Plan are: 11.2% in the Vanguard Institutional Index Fund; 7.8% in the T. Rowe Price Growth Stock Fund I; 6.5% in the Hartford Mid Cap HLS Fund; and, 4.6% in the Vanguard Target Date 2035 Fund.
- > Target date funds' assets totaled \$160.8 million and accounted for approximately 19.4% of Total Plan assets.
- As of March 31, 2019, the projected total annual funding requirements is \$760,204 based on 8 basis points fee on the variable assets (\$405,709) per the VOYA contract and the Plan administration budget of \$354,495. The fee model revenue is projected at \$804,164 derived from the 8 basis points from the VOYA contract, \$25 new loan charge and the \$30 per participant charge. The projected revenue includes only the participant account with balances over \$1,000 being charged. At March 31, 2019, the projected revenue would be over the funding requirement by \$43,960.

### Goldman Sachs Small/Mid Cap Growth

- > The Goldman Sachs Small/Mid Cap Growth Fund outperformed the Russell 2500 Growth Index in the first quarter (19.75% vs 18.99%) peer group rank 34.
- > Stock selection in the Health Care and Consumer Staples sectors contributed to relative returns, Top contributors to performance we Spark Therapeutics and Guardant Health, Inc.
- > Stock selection Financials and Communication Services sectors partially offset the outperformance as Amalgamated Bank and Cboe Global Markets, Inc. were the major detractors to performance.

### **Oppenheimer Main Street Mid Cap**

- > The Oppenheimer Main Street Mid Cap Fund underperformed the Russell Mid-Cap Index in the first quarter (16.39% vs. 16.54%) peer ranking 15.
- > During the quarter, the slight underperformance was mainly driven by stock selection the Industrials, Materials, and Consumer Discretionary sectors.
- > The underperformance was partially offset by strong stock selection across the Information Technology, Consumer Staples, and Real Estate sectors.
- > The primary negative contributors to relative performance included Weight Watchers, Spirit Airlines, and Eastman Chemical.
- > The primary positive contributors to relative performance included First Data, Noble Energy, and Ulta Beauty.

## Nevada Public Employees' Deferred Compensation Plan Current Investment Structure

Voya

STYLE

		Value	Blend	Growth
	Large	MFS Value Fund	Vanguard Institutional Index (passive)	T. Rowe Price Growth Stock
ATION	Medium	Vanguard Mid-Cap Value Index	Hartford Mid Cap HLS	
CAPITALIZATION	SMID		Vanguard Extended Market Index (passive) Oppenheimer Main Street Mid Cap	Goldman Sachs Small/Mid Cap Growth

Fixed Income/Stable Value	International Equity	Target Date/Lifecycle Funds
Voya Fixed Account	Vanguard Developed Markets Index (passive)	Vanguard Target Retirement Income I
	American Funds Europacific Growth Fund R6	Vanguard Target Retirement 2015 I
		Vanguard Target Retirement 2020 I
		Vanguard Target Retirement 2025 I
		Vanguard Target Retirement 2030 I
		Vanguard Target Retirement 2035 I
Fixed Income/Bond		Vanguard Target Retirement 2040 I
anguard Total Bond Market Index		Vanguard Target Retirement 2045 I
		Vanguard Target Retirement 2050 I
		Vanguard Target Retirement 2055 I
		Vanguard Target Retirement 2060 I
		Vanguard Target Retirement 2065 I
		Self Directed Brokerage
		TD Ameritrade SDBA

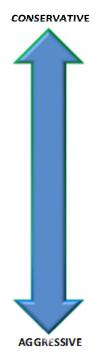
### State of Nevada Deferred Compensation Plan Line-Up

Plan Review - Investment Options Array

Tier I - A	sset Allocation	1				
	e/Lifecycle Funds					
<u> </u>	t Retirement Income I					
Vanguard Target Retirement 2015 I						
Vanguard Target Retirement 2020 I						
	et Retirement 2025 I	Conservative				
	et Retirement 2030 I	Ĕ				
	et Retirement 2035 I	le ge				
	et Retirement 2040 I	i ii				
1	et Retirement 2045 I	3				
Vanguard Targ	et Retirement 2050 I					
1	et Retirement 2055 I					
1	et Retirement 2060 I					
	et Retirement 2065 I					
Tier II- Passive Core (index options)	Tier II - Active Core					
	<u>Stable Value</u>					
	Voya Fixed Account					
Core Fixed Income						
Vanguard Total Bond Market Index						
	<u>Large Cap Value</u>					
	MFS Value Fund					
Large Cap Blend						
Vanguard Institutional Index						
	Large Cap Growth					
	T.Rowe Price Growth Stock					
Mid Cap Blend	Mid Cap Blend					
Vanguard Mid Cap Value Index	Hartford Mid Cap HLS					
SMID Cap Blend (Small & Mid Cap)	SMID Cap Blend (Small & Mid Cap)					
Vanguard Extended Market Index I	Oppenheimer Main Street Mid Cap					
	SMID Cap Growth					
	Goldman Sachs Small/Mid Cap Growth					
International Equity						
Vanguard Developed Markets Index Adm						
American Funds Europacific Growth Fund R6						
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### State of Nevada Deferred Compensation Plan Line-Up

Plan Review - Investment Options Array



Tier I: Asset Allocation	Tier II (A): Passive Core (index options)	Tier II(B): Active Core	Tier III: (Specialty
<u>Target Date/Lifecycle Funds</u> Vanguard Target Retirement Funds	<u>Core Fixed Income</u> Vanguard Total Bond Market Index	<u>Stable Value</u> Voya Fixed Account	
	<u>Large Cap Blend</u> Vanguard Institutional Index	Large Cap Value  MFS Value Fund	
	Mid Cap Blend Vanguard Mid Cap Value Index SMID Cap Blend (Small & Mid Cap)	Large Cap Growth  T.Rowe Price Growth Stock  Mid Cap Blend  Hartford Mid Cap HLS  SMID Cap Blend (Small & Mid Cap)	
	Vanguard Extended Market Index I  International Equity  Vanguard Developed Markets Index I  American Funds Europacific Growth Fund R6	Oppenheimer Main Street Mid Cap <u>SMID Cap Growth</u> Goldman Sachs Small/Mid Cap Growth	<u>Self-Directed Brokerage</u> TD Ameritrade

### Current Watch List as of March 31, 2019

<u>Fund</u>	Date Put on <u>Watchlist</u>	Date Removed from Watchlist	Current Reccomendations
Vanguard Developed Markets Index Instl	June 30, 2018	Remain	5-year performance under benchmark by -30 bps related to fair value pricing and Spliced Dev ex US Index
Oppenheimer Main Street Mid Cap	December 31, 2016	Remain	5-year performance under benchmark
Goldman Sachs Small/Mid Cap Growth	December 31, 2016	Remain	5-year performance under benchmark and peer
Vanguard Target Retirement 2020 Instl	March 31, 2019	Remain	5-year performance under benchmark and peer by -21 bps
Vanguard Target Retirement 2025 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -21 bps
Vanguard Target Retirement 2030 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -21 bps
Vanguard Target Retirement 2035 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -23 bps
Vanguard Target Retirement 2040 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -25 bps
Vanguard Target Retirement 2045 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -26 bps
Vanguard Target Retirement 2050 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer by -26 bps
Vanguard Target Retirement 2055 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer -29 bps
Vanguard Target Retirement 2060 Instl	March 31, 2018	Remain	5-year performance under benchmark and peer -29 bps

### Watch list criteria:

Fund to out perform benchmak AND peer group for the 5-year period
 Index Fund underperform benchmark by more than 20bps

### Historical Watch List as of March 31, 2019

<u>Fund</u>	Date Put on Watch List	Date Removed from Watchlist	<u>Prior Action</u>
T.Rowe Price Growth Stock I	December 31, 2018	March 31, 2019	5-year performance under benchmark.
MFS Value Fund R4	December 31, 2018	March 31, 2019	5-year performance under benchmark.
Franklin Mutual Global Discovery	June 30, 2017	March 31, 2019	5-year performance under benchmark and peer. Fund terminated and assets maaped to Vanguard Extended Market Index Fund.
Dodge & Cox International Stock	June 30, 2018	March 31, 2019	5-year performance under benchmark and peer. Fund terminated and assets mapped to the American Funds EuroPacific Growth Fund.
Vanguard Target Retirement 2020 Instl	March 31, 2018	December 31, 2018	5-year performance under benchmark and peer by -23 bps
Vanguard Developed Markets Index	June 30, 2017	March 31, 2018	Removed from watchlist
Parnassus Equity Income	December 31, 2016	Dec. 21, 2017	This Fund was terminated and mapped over to the T. Rowe Price Growth Stock Fund
American Fund Growth Fund R3	June 30, 2017	Dec. 21, 2017	This Fund was terminated and mapped over to the T. Rowe Price Growth Stock Fund
Fidelity Contrafund	December 31, 2016	Dec. 21, 2017	This Fund was terminated and mapped over to the T. Rowe Price Growth Stock Fund
Allianz NFJ Dividend Value (ING)	September 30, 2015	September 30, 2016	This Fund was terminated and mapped over to the MFS Value Fund
Dodge & Cox International	June 30, 2016	December 31, 2016	Removed from watchlist
Franklin Mutual Global Discovery (ING)	September 30, 2015	June 30, 2016	Removed from Watchlist
American Funds Growth Fund of America (ING)	February 1, 2011	June 30, 2016	Removed from Watchlist
Keeley Small Cap Value Fund (ING)	November 1, 2010	December 31, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.
Hartford Small Company Fund HLS (Mass Mutual)	December 31, 2012	September 30, 2014	Removed from Watch List due to outperformance of the benchmark and median of the peer universe over the 5-year period, as well as outperformance of the median over the 3-year period.
Victory Diversified Stock Fund (Mass Mutual)	March 31, 2013	December 31, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.
Oppenheimer Main St Small & Mid Cap Fund (Mass Mutual)	March 31, 2013	September 30, 2014	Removed from Watch List due to strong recent and long term performance.
American Funds Capital World Growth & Income (ING)	September 30, 2013	December 31, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.
Lord Abbett Value Opportunities Fund (MM & ING)	December 31, 2013	December 31, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.
Columbia Acorn Fund (ING)	December 31, 2013	December 31, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.

### Historical Watch List as of March 31, 2019

<u>Fund</u>	Date Put on Watch List	Date Removed from Watchlist	Prior Action
Hartford MidCap HLS (Mass Mutual)	February 1, 2011	September 30, 2014	Removed from Watchlist.
Lazard US Mid Cap Equity Fund (ING)	May 1, 2008	March 31, 2013	Fund terminated at the 6/30/2012 review period. Assets were mapped to the Hartford Mid Cap HLS Fund.
Munder Mid Cap Core Growth Fund (Mass Mutual)	November 1, 2010	September 30, 2014	This fund will be removed from the Plan as a result of the vendor consolidation to Voya.
Mutual Global Discovery(Mass Mutual)	February 1, 2010	September 30, 2014	Removed from Watchlist.
Hartford General Account	March 1, 2012	September 30, 2014	This Fund has been removed from the Plan as a result of the vendor consolidation to Voya.

#### Fee Level Model Analysis for Total Plan As of March 31, 2019

					М	utual Fund	Revenue Sharing		Net Mutual Fund Total	et Mutual und Total	Fee level for				
			Plan Assets	Mutual Fund		tal Expense	to	Revenue	Expense	Expense	all variable	As	set Fee		
Fund Name	Ticker	Asset Class	03/31/2019	Expense Ratio		Ratio \$	Participants	Sharing \$	Ratio	Ratio \$	Participants		level	Tot	tal Cost
Voya Fixed Account	n/a	Stable Value	\$ 317,457,544	0.00%	\$	-	0.00%	\$ -	0.00%	\$ -	0.00%	\$	-	\$	-
Vanguard Total Bond Market Index I	VBTIX	Core Fixed Income	\$ 17,945,832	0.04%	\$	7,178	0.00%	\$ -	0.04%	\$ 7,178	0.08%	\$	14,357	\$	21,535
Vanguard Institutional Index I	VINIX	Large Cap Core (passive)	\$ 92,724,322	0.04%	\$	37,090	0.00%	\$ -	0.04%	\$ 37,090	0.08%	\$	74,179	\$	111,269
MFS Value Fund R4	MEIJX	Large Cap Value	\$ 17,630,718	0.59%	\$	104,021	0.15%	\$ 26,446	0.44%	\$ 77,575	0.08%	\$	14,105	\$	91,680
T Rowe Price Growth Stock Fund I	PRUFX	Large Cap Growth	\$ 64,275,248	0.52%	\$	334,231	0.00%	\$ -	0.52%	\$ 334,231	0.08%	\$	51,420	\$	385,651
Hartford Mid Cap HLS IA	HIMCX	Mid Cap Blend	\$ 54,167,217	0.70%	\$	379,171	0.05%	\$ 27,084	0.65%	\$ 352,087	0.08%	\$	43,334	\$	395,421
Vanguard Mid-Cap Value	VMVAX	Mid Cap Value	\$ 2,217,145	0.07%	\$	1,552	0.00%	\$ -	0.07%	\$ 1,552	0.08%	\$	1,774	\$	3,326
Oppenheimer Main Street Mid Cap Fund	OPMYX	SMID Blend	\$ 24,266,658	0.86%	\$	208,693	0.25%	\$ 60,667	0.61%	\$ 148,027	0.08%	\$	19,413	\$	167,440
Vanguard Extended Market Idx I	VIEIX	SMID Blend	\$ 24,922,220	0.06%	\$	14,953	0.00%	\$ -	0.06%	\$ 14,953	0.08%	\$	19,938	\$	34,891
Goldman Sachs Small/Mid Cap Growth	GSMAX	SMID Growth	\$ 14,321,707	1.27%	\$	181,886	0.55%	\$ 78,769	0.72%	\$ 103,116	0.08%	\$	11,457	\$	114,574
Vanguard Developed Markets Index Instl	VTMNX	International Equity	\$ 28,798,052	0.06%	\$	17,279	0.00%	\$ -	0.06%	\$ 17,279	0.08%	\$	23,038	\$	40,317
Dodge & Cox International Stock	DODFX	International Equity w/EM	\$ -	0.63%	\$	-	0.10%	\$ -	0.53%	\$ -	0.08%	\$	-	\$	-
American Funds Europacific Growth Fund R6	RERGX	International Equity w/EM	\$ 5,088,172	0.49%	\$	24,932	0.00%	\$ -	0.49%	\$ 24,932	0.08%	\$	4,071	\$	29,003
Franklin Mutual Global Discovery Fund	TEDIX	Global Equity	\$ -	1.21%	\$	-	0.55%	\$ -	0.66%	\$ -	0.08%	\$	-	\$	-
Vanguard Institutional Target Retirement Income Instl	VITRX	Lifecycle	\$ 16,746,807	0.09%	\$	15,072	0.00%	\$ -	0.09%	\$ 15,072	0.08%	\$	13,397	\$	28,470
Vanguard Institutional Target Retirement 2015 Instl	VITVX	Lifecycle	\$ 31,086,188	0.09%	\$	27,978	0.00%	\$ -	0.09%	\$ 27,978	0.08%	\$	24,869	\$	52,847
Vanguard Institutional Target Retirement 2020 Instl	VITWX	Lifecycle	\$ 9,659,523	0.09%	\$	8,694	0.00%	\$ -	0.09%	\$ 8,694	0.08%	\$	7,728	\$	16,421
Vanguard Institutional Target Retirement 2025 Instl	VRIVX	Lifecycle	\$ 33,790,267	0.09%	\$	30,411	0.00%	\$ -	0.09%	\$ 30,411	0.08%	\$	27,032	\$	57,443
Vanguard Institutional Target Retirement 2030 Instl	VTTWX	Lifecycle	\$ 8,295,554	0.09%	\$	7,466	0.00%	\$ -	0.09%	\$ 7,466	0.08%	\$	6,636	\$	14,102
Vanguard Institutional Target Retirement 2035 Instl	VITFX	Lifecycle	\$ 38,212,054	0.09%	\$	34,391	0.00%	\$ -	0.09%	\$ 34,391	0.08%	\$	30,570	\$	64,960
Vanguard Institutional Target Retirement 2040 Instl	VIRSX	Lifecycle	\$ 3,831,274	0.09%	\$	3,448	0.00%	\$ -	0.09%	\$ 3,448	0.08%	\$	3,065	\$	6,513
Vanguard Institutional Target Retirement 2045 Instl	VITLX	Lifecycle	\$ 14,948,773	0.09%	\$	13,454	0.00%	\$ -	0.09%	\$ 13,454	0.08%	\$	11,959	\$	25,413
Vanguard Institutional Target Retirement 2050 Instl	VTRLX	Lifecycle	\$ 780,729	0.09%	\$	703	0.00%	\$ -	0.09%	\$ 703	0.08%	\$	625	\$	1,327
Vanguard Institutional Target Retirement 2055 Instl	VIVLX	Lifecycle	\$ 3,133,603	0.09%	\$	2,820	0.00%	\$ -	0.09%	\$ 2,820	0.08%	\$	2,507	\$	5,327
Vanguard Institutional Target Retirement 2060 Instl	VILVX	Lifecycle	\$ 167,700	0.09%	\$	151	0.00%	\$ -	0.09%	\$ 151	0.08%	\$	134	\$	285
Vanguard Institutional Target Retirement 2065 Instl	VSXFX	Lifecycle	\$ 125,923	0.09%	\$	113	0.00%	\$ -	0.09%	\$ 113	0.08%	\$	101	\$	214
TD Ameritrade SDBA	N/A	Brokerage account	\$ 2,987,176	0.00%	\$	-	0.00%	\$ -	0.00%	\$ -	0.00%	\$	-	\$	-
TOTALS		<u> </u>	\$ 827,580,407		\$	1,455,687		\$ 192,966		\$ 1,262,721		\$	405,709	\$ 1	,668,430

All Funds	
Average Net Expense Ratio <sup>1</sup>	0.24%
Weighted Gross Average Variable Expense Ratio <sup>1</sup>	0.29%
Weighted Net Average Variable Expense Ratio <sup>1</sup>	0.25%
<sup>1</sup> Does not include Stable Value or TD Ameritrade	
Voya Contract Requirements: 0.08% on variable assets	\$ 405,709
Plan Administration Costs:	\$ 354,495
Total Funding Requirements	\$ 760,204
Voya Contract Requirements: 0.08% on variable assets	\$ 405,709
New loan fee: \$25 per loan for 43 new loans to-date	\$ 1,075
\$30 per participant accounts (13,246)	\$ 397,380
Total Revenue	\$ 804,164
Estimated Excess Revenue Share (excludes	
participants less than \$1,000 account balances)	\$ 43,960

Number of participants with account balances: 13,246 \*\*

Explicit Asset Based Fee 8 basis points plus \$30/participant this illustration

Account Totals	
	Accounts
	Charged
State	9,835
Pol Sub	2,686
NSHE	725
Total	13,246

<sup>\*\*</sup> Does not include FICA participants or participants with account balanced below \$1,000

### Plan Activity: Total All Plans January 1, 2019 through March 31, 2019

Funds	J	Beginning Balance anuary 1, 2019	(	Contributions	erfund InterPlan Exchanges	V	Vithdrawals	Loan Repayments	Misc*	Fees*	(i	Investment Gain/Loss ncl. Dividends)	М	Ending Balance arch 31, 2019
Voya Fixed Account	\$		\$	3,969,544	\$ 1,833,514	\$	(8,596,540)	\$ (11,179)	\$ 75,552	\$ (103,401)	\$	2,086,689	\$	317,457,544
Vanguard Total Bond Market Index I	\$	16,782,656	\$	312,002	\$ 648,899	\$	(313,880)	\$ 10,116	\$ 3,950	\$ (8,316)	\$	510,405	\$	17,945,832
MFS Value Fund R4	\$	15,915,400	\$	238,853	\$ (95,997)	\$	(493,531)	\$ 12,887	\$ 34,894	\$ (5,622)	\$	2,023,835	\$	17,630,718
Vanguard Institutional Index I	\$	82,853,991	\$	1,321,881	\$ (1,048,976)	\$	(1,702,453)	\$ 38,492	\$ 24,781	\$ (28,853)	\$	11,265,459	\$	92,724,322
T. Rowe Price Growth Stock Fund I	\$	55,191,638	\$	1,011,321	\$ 329,542	\$	(1,073,718)	\$ 13,850	\$ 2,488	\$ (19,469)	\$	8,819,596	\$	64,275,248
Hartford Mid Cap HLS IA	\$	46,028,366	\$	590,619	\$ (638,149)	\$	(1,049,347)	\$ 14,074	\$ 2,832	\$ (14,810)	\$	9,233,632	\$	54,167,217
Oppenheimer Main Street Mid Cap Fund	\$	21,226,701	\$	292,215	\$ (348,803)	\$	(411,231)	\$ 21,680	\$ 25,160	\$ (7,042)	\$	3,467,979	\$	24,266,658
Vanguard Mid-Cap Value Index Fund	\$	1,860,454	\$	76,648	\$ 96,307	\$	(79,731)	\$ 1,229	\$ -	\$ (1,343)	\$	263,581	\$	2,217,145
Vanguard Extended Market Idx I	\$	20,812,229	\$	570,473	\$ 459,938	\$	(280,281)	\$ 7,537	\$ 8,300	\$ (8,173)	\$	3,352,196	\$	24,922,220
Goldman Sachs Small/Mid Cap Growth	\$	12,553,892	\$	203,515	\$ (603,989)	\$	(237,035)	\$ 10,329	\$ 23,263	\$ (4,349)	\$	2,376,081	\$	14,321,707
Vanguard Developed Markets Index Insti	\$	15,076,913	\$	447,665	\$ 11,918,531	\$	(256,102)	\$ 5,972	\$ 38,620	\$ (9,960)	\$	1,576,414	\$	28,798,052
Dodge & Cox International Stock	\$	4,961,238	\$	82,785	\$ (5,142,090)	\$	(418,488)	\$ 9,160	\$ -	\$ (89)	\$	507,483	\$	-
American Funds Europacific Growth Fund R6	\$	-	\$	29,083	\$ 4,984,308	\$	(16,439)	\$ 2,798	\$ -	\$ (1,595)	\$	90,018	\$	5,088,172
Franklin Mutual Global Discovery Fund A	\$	10,536,374	\$	272,347	\$ (11,811,168)	\$	(202,682)	\$ (1,003)	\$ 16,570	\$ (106)	\$	1,189,669	\$	-
Vanguard Institutional Target Retirement Income Insti	\$	15,763,581	\$	132,193	\$ 534,410	\$	(559,793)	\$ 882	\$ -	\$ (4,929)	\$	880,464	\$	16,746,807
Vanguard Institutional Target Retirement 2015 Instl	\$	29,691,593	\$	579,913	\$ (580,791)	\$	(498,165)	\$ (10,982)	\$ 3,291	\$ (13,078)	\$	1,914,406	\$	31,086,188
Vanguard Institutional Target Retirement 2020 Instl	\$	8,831,629	\$	301,393	\$ 136,326	\$	(302,208)	\$ 1,402	\$ 2,716	\$ (2,701)	\$	690,965	\$	9,659,523
Vanguard Institutional Target Retirement 2025 Instl	\$	30,601,365	\$	1,296,991	\$ (258,613)	\$	(528,919)	\$ 10,889	\$ 96	\$ (14,746)	\$	2,683,204	\$	33,790,267
Vanguard Institutional Target Retirement 2030 Instl	\$	7,233,530	\$	201,214	\$ 408,104	\$	(238,510)	\$ 1,713	\$ -	\$ (2,812)	\$	692,315	\$	8,295,554
Vanguard Institutional Target Retirement 2035 Instl	\$	34,576,219	\$	1,141,368	\$ (437,564)	\$	(617,873)	\$ (172)	\$ 2,710	\$ (19,694)	\$	3,567,060	\$	38,212,054
Vanguard Institutional Target Retirement 2040 Instl	\$	3,351,117	\$	179,120	\$ (52,020)	\$	(10,370)	\$ (8,732)	\$ -	\$ (1,733)	\$	373,893	\$	3,831,274
Vanguard Institutional Target Retirement 2045 Insti	\$	13,040,687	\$	972,091	\$ (263,594)	\$	(332,085)	\$ 581	\$ 13,918	\$ (12,490)	\$	1,529,665	\$	14,948,773
Vanguard Institutional Target Retirement 2050 Insti	\$	550,273	\$	160,334	\$ 750	\$	(2,231)	\$ 493	\$ 2,578	\$ (616)	\$	69,148	\$	780,729
Vanguard Institutional Target Retirement 2055 Instl	\$	2,746,556	\$	218,498	\$ (141,065)	\$	(10,666)	\$ 310	\$ 2,762	\$ (2,799)	\$	320,008	\$	3,133,603
Vanguard Institutional Target Retirement 2060 Insti	\$	104,011	\$	47,761	\$ 113	\$	(87)	\$ 477	\$ 1,622	\$ (229)	\$	14,033	\$	167,700
Vanguard Institutional Target Retirement 2065 Insti	\$	83,460	\$	20,287	\$ 11,555	\$	-	\$ -	\$ -	\$ (76)	\$	10,697	\$	125,923
TD Ameritrade SDBA	\$	2,652,286	\$	-	\$ 60,524	\$	-	\$ -	\$ -	\$ -	\$	274,366	\$	2,987,176
Total	\$	771,229,524	\$	14,670,113	\$ -	\$	(18,232,364)	\$ 132,804	\$ 286,101	\$ (289,030)	\$	59,783,257	\$	827,580,407

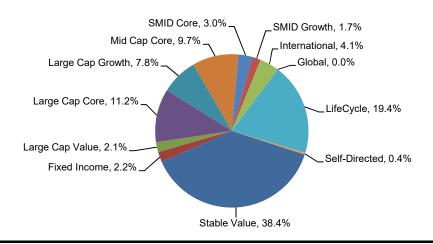
\$ 86,611.05 4 Roth Conversion  Total \$ 286,101.42	20 Rollovers in	148,453.90	\$ Misc:
Total \$ 286,101.42	4 Roth Conversion	86,611.05	\$
		286,101.42	\$ Total
Fund Transfers: \$ (3,291.35) Transferred from 666971	Transferred from 666971	(3,291.35)	\$ Fund Transfers:
\$ 3,291.35 Tranferred into 666783	Tranferred into 666783	3,291.35	\$
\$ (25,371.47) Transferred from 666970	Transferred from 666970	(25,371.47)	\$
\$ 25,371.47 Tranferred into 666783	Tranferred into 666783	25,371.47	\$
\$ (25,881.37) Transferred from 666783	Transferred from 666783	(25,881.37)	\$
\$ 25,881.37 Transferred into 666970	Transferred into 666970	25,881.37	\$
\$ -		-	\$ •

Internal Transfers: \$ 675,902.80 16 Transfers into Beneficary Accounts \$ (675,902.80) 16 Transfers out to Beneficary Accounts \$ 218,564.52 2 Transfers into QDRO Accounts \$ (218,564.52) 2 Transfers out to QDRO Accounts \$ -

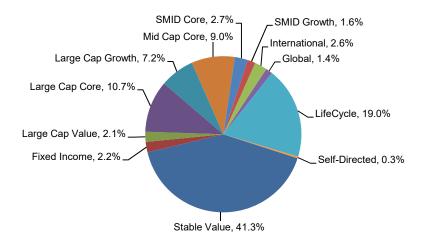
## **Asset Allocation Summary: Total All Plans**

		March 31, 2019					
Fund			Assets	% of Total Assets			
Voya Fixed Account		\$	317,457,544	38.4%			
Vanguard Total Bond Market Index I		\$	17,945,832	2.2%			
MFS Value Fund R4		\$	17,630,718	2.1%			
Vanguard Institutional Index I		\$	92,724,322	11.2%			
T. Rowe Price Growth Stock Fund I		\$	64,275,248	7.8%			
Hartford Mid Cap HLS IA		\$	54,167,217	6.5%			
Oppenheimer Main Street Mid Cap Fund		\$	24,266,658	2.9%			
Vanguard Mid-Cap Value Index Fund		\$	2,217,145	0.3%			
Vanguard Extended Market Idx I		\$	24,922,220	3.0%			
Goldman Sachs Small/Mid Cap Growth		\$	14,321,707	1.7%			
Vanguard Developed Markets Index Instl		\$	28,798,052	3.5%			
Dodge & Cox International Stock		\$	-	0.0%			
American Funds Europacific Growth Fund R6		\$	5,088,172	0.6%			
Franklin Mutual Global Discovery Fund A		\$	-	0.0%			
Vanguard Institutional Target Retirement Income Instl		\$	16,746,807	2.0%			
Vanguard Institutional Target Retirement 2015 Instl		\$	31,086,188	3.8%			
Vanguard Institutional Target Retirement 2020 Instl		\$	9,659,523	1.2%			
Vanguard Institutional Target Retirement 2025 Instl		\$	33,790,267	4.1%			
Vanguard Institutional Target Retirement 2030 Instl		\$	8,295,554	1.0%			
Vanguard Institutional Target Retirement 2035 Instl		\$	38,212,054	4.6%			
Vanguard Institutional Target Retirement 2040 Instl		\$	3,831,274	0.5%			
Vanguard Institutional Target Retirement 2045 Instl		\$	14,948,773	1.8%			
Vanguard Institutional Target Retirement 2050 Instl		\$	780,729	0.1%			
Vanguard Institutional Target Retirement 2055 Instl		\$	3,133,603	0.4%			
Vanguard Institutional Target Retirement 2060 Instl		\$	167,700	0.0%			
Vanguard Institutional Target Retirement 2065 Instl		\$	125,923	0.0%			
TD Ameritrade SDBA		\$	2,987,176	0.4%			
	Total	\$	827,580,407	100.0%			

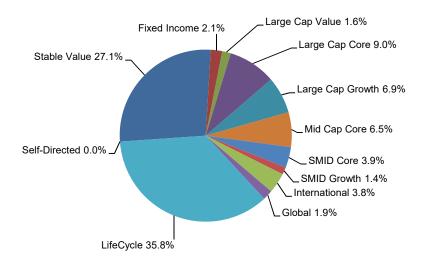
### Asset Allocation as of March 31, 2019



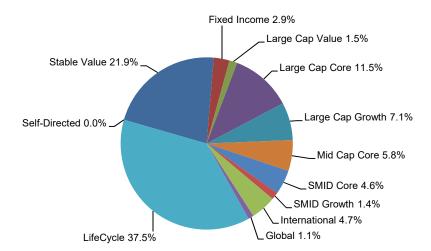
### Asset Allocation as of January 1, 2019



### Plan Contributions - 1st Quarter 2019



### Plan Contributions - 4th Quarter 2018



#### Plan Activity: State Plan Activity January 1, 2019 through March 31, 2019

Funds	Beginning Balance January 1, 2019	ď	Contributions	Interfund InterPlan Exchanges	Withdrawals		Loan Repayments	Misc*	Fees*	Investment Gain/Loss cl. Dividends)	Ending Balance March 31, 2019
Voya Fixed Account	\$ 233,138,51	6 \$	2,669,948	\$ 1,568,449	\$ (6,323,971)	) \$	(11,179)	\$ 70,417	\$ (96,730)	\$ 1,528,017	\$ 232,543,467
Vanguard Total Bond Market Index I	\$ 9,932,73	1 \$	186,976	\$ 543,754	\$ (180,580)	\$	10,116	\$ -	\$ (5,756)	\$ 304,173	\$ 10,791,414
MFS Value Fund R4	\$ 10,538,87	4 \$	127,260	\$ (2,085)	\$ (345,446)	\$	12,887	\$ 34,894	\$ (3,890)	\$ 1,337,472	\$ 11,699,966
Vanguard Institutional Index I	\$ 53,586,09	3 \$	827,408	\$ (251,213)	\$ (1,428,360)	\$	38,492	\$ 24,209	\$ (19,502)	\$ 7,291,251	\$ 60,068,379
T Rowe Price Growth Stock Fund I	\$ 36,814,42	3 \$	693,930	\$ 263,703	\$ (905,127)	\$	13,850	\$ -	\$ (13,517)	\$ 5,870,812	\$ 42,738,075
Hartford Mid Cap HLS IA	\$ 34,033,91	5 \$	416,319	\$ (592,031)	\$ (911,586)	\$	14,074	\$ -	\$ (10,978)	\$ 6,809,958	\$ 39,759,671
Oppenheimer Main Street Mid Cap Fund	\$ 12,671,14	0 \$	161,354	\$ (123,382)	\$ (311,221)	\$	21,680	\$ 23,263	\$ (4,398)	\$ 2,069,803	\$ 14,508,239
Vanguard Mid-Cap Value Index Fund - Admiral Shares	\$ 1,336,92	5 \$	56,669	\$ 80,714	\$ (42,169)	\$	1,229	\$ -	\$ (1,027)	\$ 189,194	\$ 1,621,535
Vanguard Extended Market Idx I	\$ 11,920,87	5 \$	279,767	\$ 230,361	\$ (246,897)	\$	7,537	\$ 8,300	\$ (5,017)	\$ 1,911,122	\$ 14,106,046
Goldman Sachs Small/Mid Cap Growth	\$ 8,493,65	0 \$	127,163	\$ (618,091)	\$ (154,776)	\$	10,329	\$ 23,263	\$ (3,032)	\$ 1,568,389	\$ 9,446,894
Vanguard Developed Markets Index Insti	\$ 8,836,98	1 \$	203,087	\$ 7,124,469	\$ (137,013)	\$	5,972	\$ 38,620	\$ (6,367)	\$ 917,175	\$ 16,982,925
Dodge & Cox International Stock	\$ 3,097,58	9 \$	53,589	\$ (3,413,340)	\$ (81,846)	\$	9,160	\$ -	\$ (77)	\$ 334,925	\$ -
American Funds EuroPacific Growth Fund R6	\$ -	\$	25,706	\$ 3,339,615	\$ (11,591)	\$	2,798	\$ -	\$ (1,121)	\$ 60,582	\$ 3,415,989
Franklin Mutual Global Discovery Fund	\$ 6,621,08	2 \$	221,601	\$ (7,402,065)	\$ (185,251)	) \$	(1,003)	\$ -	\$ (93)	\$ 745,730	\$ -
Vanguard Institutional Target Retirement Income Insti	\$ 11,920,62	7 \$	75,982	\$ 359,400	\$ (454,664)	\$	882	\$ -	\$ (3,712)	\$ 662,677	\$ 12,561,192
Vanguard Institutional Target Retirement 2015 InstI	\$ 22,927,85	9 \$	399,605	\$ (309,877)	\$ (374,371)	) \$	\$ (10,982)	\$ 3,291	\$ (10,677)	\$ 1,480,717	\$ 24,105,565
Vanguard Institutional Target Retirement 2020 InstI	\$ 6,022,94	6 \$	275,171	\$ 57,098	\$ (290,512)	\$	1,402	\$ 2,716	\$ (1,882)	\$ 470,203	\$ 6,537,142
Vanguard Institutional Target Retirement 2025 Instl	\$ 21,032,02	5 \$	836,130	\$ 1,197	\$ (395,109)	\$	10,889	\$ 96	\$ (10,931)	\$ 1,841,692	\$ 23,315,990
Vanguard Institutional Target Retirement 2030 Insti	\$ 4,835,51	3 \$	145,573	\$ (192,193)	\$ (178,814)	\$	1,713	\$ -	\$ (1,888)	\$ 456,358	\$ 5,066,262
Vanguard Institutional Target Retirement 2035 InstI	\$ 26,065,50	3 \$	770,411	\$ (335,667)	\$ (526,173)	) \$	\$ (172)	\$ 194	\$ (15,246)	\$ 2,683,846	\$ 28,642,696
Vanguard Institutional Target Retirement 2040 InstI	\$ 2,269,10	3 \$	103,912	\$ (3,889)	\$ (10,191)	) \$	(8,732)	\$ -	\$ (1,204)	\$ 254,417	\$ 2,603,416
Vanguard Institutional Target Retirement 2045 InstI	\$ 7,632,76	5 \$	468,808	\$ (149,608)	\$ (204,743)	\$	581	\$ 5,504	\$ (8,880)	\$ 889,933	\$ 8,634,362
Vanguard Institutional Target Retirement 2050 Instl	\$ 336,51	1 \$	123,097	\$ (1,760)	\$ (2,231)	\$	493	\$ 196	\$ (366)	\$ 42,950	\$ 498,890
Vanguard Institutional Target Retirement 2055 Instl	\$ 1,986,19	1 \$	127,676	\$ (130,329)	\$ (8,690)	\$	310	\$ -	\$ (1,971)	\$ 229,169	\$ 2,202,355
Vanguard Institutional Target Retirement 2060 Instl	\$ 64,21	6 \$	28,879	\$ 113	\$ (87)	\$	477	\$ 103	\$ (130)	\$ 8,751	\$ 102,320
Vanguard Institutional Target Retirement 2065 Instl	\$ 59,48	3 \$	19,587	\$ 11,544	\$ -	9	-	\$ -	\$ (48)	\$ 7,892	\$ 98,459
TD Ameritrade SDBA	\$ 1,687,57	3 \$	-	\$ (26,223)	\$ -	9	-	\$ -	\$ -	\$ 158,794	\$ 1,820,145
Total	\$ 537,863,11	1 \$	9,425,607	\$ 28,663	\$ (13,711,421)	\$	132,804	\$ 235,065	\$ (228,439)	\$ 40,126,001	\$ 573,871,392

\$ 148,453.90 9 Rollovers in \$ 86,611.05 4 Roth Conversion 
Total \$ 235,064.95

Fund Transfers:

\$ 3,291.35 Transferred into 666783 from 666971

25,371.47 Transferred into 666783 from 666970

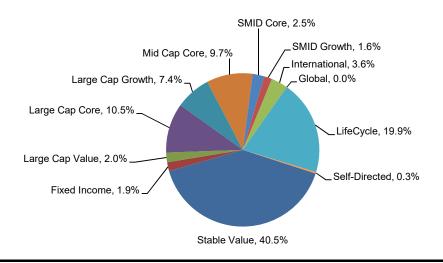
Total \$ 28,662.82

Total \$

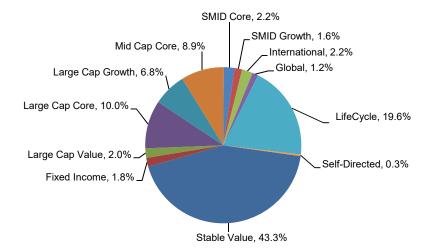
# **Asset Allocation Summary: State Plan Activity**

		March 31, 2019					
Fund		Assets	% of Total Assets				
Voya Fixed Account	\$	232,543,467	40.5%				
Vanguard Total Bond Market Index I	\$	10,791,414	1.9%				
MFS Value Fund R4	\$	11,699,966	2.0%				
Vanguard Institutional Index I	\$	60,068,379	10.5%				
T Rowe Price Growth Stock Fund I	\$	42,738,075	7.4%				
Hartford Mid Cap HLS IA	\$	39,759,671	6.9%				
Oppenheimer Main Street Mid Cap Fund	\$	14,508,239	2.5%				
Vanguard Extended Market Idx I	\$	1,621,535	0.3%				
Goldman Sachs Small/Mid Cap Growth	\$	14,106,046	2.5%				
Vanguard Mid-Cap value Index Fund-Admiral Shares	\$	9,446,894	1.6%				
Vanguard Developed Markets Index Instl	\$	16,982,925	3.0%				
Dodge & Cox International Stock	\$	-	0.0%				
American Funds EuroPacific Growth Fund R6	\$	3,415,989	0.6%				
Franklin Mutual Global Discovery Fund	\$	-	0.0%				
Vanguard Institutional Target Retirement Income Instl	\$	12,561,192	2.2%				
Vanguard Institutional Target Retirement 2015 Instl	\$	24,105,565	4.2%				
Vanguard Institutional Target Retirement 2020 Instl	\$	6,537,142	1.1%				
Vanguard Institutional Target Retirement 2025 Instl	\$	23,315,990	4.1%				
Vanguard Institutional Target Retirement 2030 Instl	\$	5,066,262	0.9%				
Vanguard Institutional Target Retirement 2035 Instl	\$	28,642,696	5.0%				
Vanguard Institutional Target Retirement 2040 Instl	\$	2,603,416	0.5%				
Vanguard Institutional Target Retirement 2045 Instl	\$	8,634,362	1.5%				
Vanguard Institutional Target Retirement 2050 Instl	\$	498,890	0.1%				
Vanguard Institutional Target Retirement 2055 Instl	\$	2,202,355	0.4%				
Vanguard Institutional Target Retirement 2060 Instl	\$	102,320	0.0%				
Vanguard Institutional Target Retirement 2065 Instl	\$	98,459	0.0%				
TD Ameritrade SDBA	\$	1,820,145	0.3%				
Tot	al \$	573,871,392	100.0%				

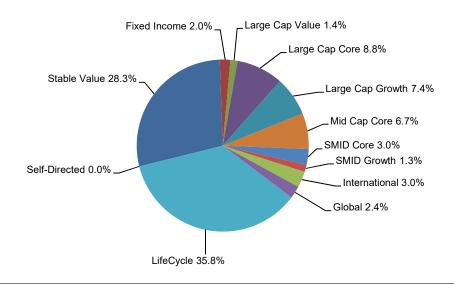
#### Asset Allocation as of March 31, 2019



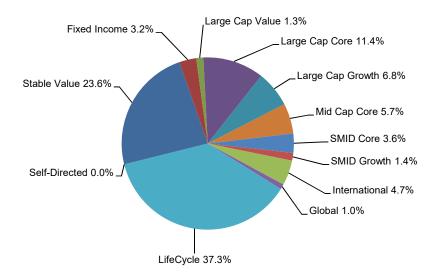
# Asset Allocation as of January 1, 2019



#### Plan Contributions - 1st Quarter 2019



#### Plan Contributions - 4th Quarter 2018



#### Plan Activity: Nevada System of Higher Education January 1, 2019 through March 31, 2019

Funds	Beginning Balance January 1, 2019	Contrib	outions	Interfund InterPlan Exchanges		Withdrawals		Loan Repayments	Misc	Fees*	G	vestment ain/Loss . Dividends)	Ending Balance March 31, 2019
Voya Fixed Account	\$ 13,207,41		196,146		2 \$			-	\$ 4,205	\$ (944)	,		\$ 12,932,325
Vanguard Total Bond Market Index I	\$ 2,952,61	8 \$	66,147	\$ (55,91)	2) \$	(29,415)	) \$	-	\$ -	\$ (1,071)	\$	87,782	\$ 3,020,149
MFS Value Fund R4	\$ 1,365,54	4 \$	21,970	\$ (22,32)	3) \$	(108,928)	\$	-	\$ -	\$ (368)	\$	171,163	\$ 1,427,052
Vanguard Institutional Index I	\$ 8,513,00	1 \$	143,341	\$ (593,07)	7) \$	(27,086)	\$	-	\$ -	\$ (2,455)	\$	1,145,689	\$ 9,179,413
T Rowe Price Growth Stock Fund I	\$ 4,424,40	4 \$	78,284	\$ (124,662	2) \$	(11,462)	\$	-	\$ -	\$ (1,384)	\$	702,618	\$ 5,067,798
Hartford Mid Cap HLS IA	\$ 2,882,02	6 \$	23,730	\$ (7,70	5) \$	(19,240)	\$	-	\$ -	\$ (822)	\$	583,156	\$ 3,461,145
Oppenheimer Main Street Mid Cap Fund	\$ 1,913,35	8 \$	17,718	\$ (24,01)	2) \$	(15,220)	) \$	-	\$ -	\$ (533)	\$	314,185	\$ 2,205,495
Vanguard Mid-Cap Value Index Fund	\$ 217,26	9 \$	6,846	\$ (17,298	3) \$	(1,080)	\$	-	\$ -	\$ (109)	\$	30,486	\$ 236,115
Vanguard Extended Market ldx I	\$ 2,885,16	1 \$	55,366	\$ (48,573	3) \$	(696)	\$	-	\$ -	\$ (888)	\$	468,656	\$ 3,359,026
Goldman Sachs Small/Mid Cap Growth	\$ 1,438,15	\$	24,433	\$ (14,428	3) \$	(6,716)	) \$	-	\$ -	\$ (436)	\$	286,515	\$ 1,727,517
Vanguard Developed Markets Index Insti	\$ 1,153,81	\$	39,779	\$ 1,287,386	s \$	(1,162)	\$	-	\$ -	\$ (754)	\$	124,195	\$ 2,603,255
Dodge & Cox International Stock	\$ 1,263,53	\$	19,153	\$ (1,055,899	9) \$	(335,308)	\$	-	\$ -	\$ (1)	\$	108,525	\$ -
American Funds Europacific Growth Fund R6	\$ -	\$	341	\$ 973,540	\$	(4,521)	\$	-	\$ -	\$ (256)	\$	17,323	\$ 986,427
Franklin Mutual Global Discovery Fund	\$ 1,015,33	7 \$	14,973	\$ (1,146,662	2) \$	-	\$	-	\$ -	\$ (1)	\$	116,352	\$ -
Vanguard Institutional Target Retirement Income Insti	\$ 1,468,83	4 \$	36,637	\$ 65,669	9 \$	(58,073)	) \$	-	\$ -	\$ (525)	\$	82,383	\$ 1,594,925
Vanguard Institutional Target Retirement 2015 InstI	\$ 3,926,38	1 \$	134,068	\$ (204,03	1) \$	(81,266)	) \$	-	\$ -	\$ (1,341)	\$	254,901	\$ 4,028,713
Vanguard Institutional Target Retirement 2020 InstI	\$ 997,43	2 \$	14,514	\$ 93,60	7 \$	-	\$	-	\$ -	\$ (327)	\$	80,757	\$ 1,185,982
Vanguard Institutional Target Retirement 2025 Insti	\$ 4,240,01	в \$	203,241	\$ (53,50)	3) \$	(119,939)	\$	-	\$ -	\$ (1,446)	\$	375,093	\$ 4,643,464
Vanguard Institutional Target Retirement 2030 Insti	\$ 536,18	2 \$	25,212	\$ 666,918	8 \$	(258)	\$	-	\$ -	\$ (363)	\$	60,845	\$ 1,288,536
Vanguard Institutional Target Retirement 2035 Insti	\$ 2,756,44	6 \$	112,283	\$ 546	s \$	(25,565)	\$	-	\$ 2,516	\$ (1,232)	\$	288,637	\$ 3,133,632
Vanguard Institutional Target Retirement 2040 Insti	\$ 314,57	4 \$	30,401	\$ (5,26)	7) \$	-	\$	-	\$ -	\$ (166)	\$	36,192	\$ 375,734
Vanguard Institutional Target Retirement 2045 InstI	\$ 1,322,36	\$	113,330	\$ (9,638	3) \$	(1,214)	) \$	-	\$ 4,181	\$ (685)	\$	159,815	\$ 1,588,148
Vanguard Institutional Target Retirement 2050 InstI	\$ 27,22	8 \$	5,533	\$ -	\$	-	\$	-	\$ -	\$ (53)	\$	3,427	\$ 36,135
Vanguard Institutional Target Retirement 2055 Instl	\$ 274,92	2 \$	8,235	\$ (9,37)	7) \$	-	\$	-	\$ -	\$ (115)	\$	32,022	\$ 305,687
Vanguard Institutional Target Retirement 2060 InstI	\$ 6,73	7 \$	1,930	\$ -	\$	-	\$	-	\$ -	\$ (17)	\$	862	\$ 9,512
Vanguard Institutional Target Retirement 2065 Instl	\$ 1,13	7 \$	700	\$ 10	) \$	-	\$	-	\$ -	\$ (8)	\$	168	\$ 2,008
TD Ameritrade SDBA	\$ 180,102.3	8 \$	-	\$ -	\$	-	\$	-	\$ -	\$ -	\$	28,650.08	\$ 208,752
Total	\$ 59,283,97	5 \$ 1,	394,312	\$ (3,29	1) \$	(1,707,697)	\$	-	\$ 10,902	\$ (16,302)	\$	5,645,048	\$ 64,606,947

Misc:

\$ 10,901.83 3 Rollovers in

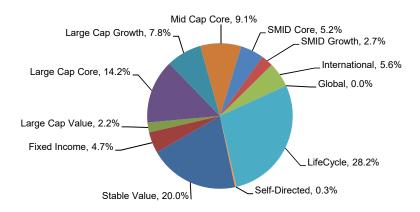
Fund Transfers:

\$ (3,291.35) Transferred to 666783

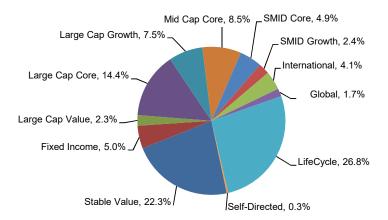
# **Asset Allocation Summary: Nevada System of Higher Education**

		March 31,	2019
Fund		Assets	% of Total Assets
Voya Fixed Account	\$	12,932,325	20.0%
Vanguard Total Bond Market Index I	\$	3,020,149	4.7%
MFS Value Fund R4	\$	1,427,052	2.2%
Vanguard Institutional Index I	\$	9,179,413	14.2%
T Rowe Price Growth Stock Fund I	\$	5,067,798	7.8%
Hartford Mid Cap HLS IA	\$	3,461,145	5.4%
Oppenheimer Main Street Mid Cap Fund	\$	2,205,495	3.4%
Vanguard Mid-Cap Value Index Fund	\$	236,115	0.4%
Vanguard Extended Market Idx I	\$	3,359,026	5.2%
Goldman Sachs Small/Mid Cap Growth	\$	1,727,517	2.7%
Vanguard Developed Markets Index Instl	\$	2,603,255	4.0%
Dodge & Cox International Stock	\$	-	0.0%
American Funds Europacific Growth Fund R6	\$	986,427	1.5%
Franklin Mutual Global Discovery Fund	\$	-	0.0%
Vanguard Institutional Target Retirement Income Instl	\$	1,594,925	2.5%
Vanguard Institutional Target Retirement 2015 Instl	\$	4,028,713	6.2%
Vanguard Institutional Target Retirement 2020 Instl	\$	1,185,982	1.8%
Vanguard Institutional Target Retirement 2025 Instl	\$	4,643,464	7.2%
Vanguard Institutional Target Retirement 2030 Instl	\$	1,288,536	2.0%
Vanguard Institutional Target Retirement 2035 Instl	\$	3,133,632	4.9%
Vanguard Institutional Target Retirement 2040 Instl	\$	375,734	0.6%
Vanguard Institutional Target Retirement 2045 Instl	\$	1,588,148	2.5%
Vanguard Institutional Target Retirement 2050 Instl	\$	36,135	0.1%
Vanguard Institutional Target Retirement 2055 Instl	\$	305,687	0.5%
Vanguard Institutional Target Retirement 2060 Instl	\$	9,512	0.0%
Vanguard Institutional Target Retirement 2065 Instl	\$	2,008	0.0%
TD Ameritrade SDBA	\$	208,752	0.3%
Tot	al \$	64,606,947	100.0%

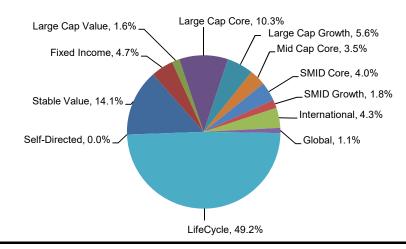
#### Asset Allocation as of March 31, 2019



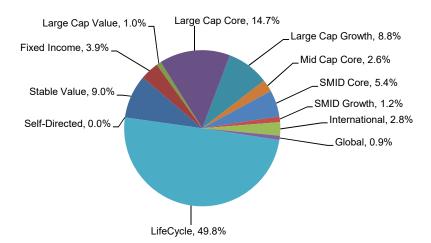
#### Asset Allocation as of January 1, 2019



#### Plan Contributions - 1st Quarter 2019



#### Plan Contributions - 4th Quarter 2018



Plan Activity: Political Subdivision January 1, 2019 through March 31, 2019

Funds	1	eginning Balance Jary 1, 2019	Co	ontributions	Interfund InterPlan Exchanges	Withdrawals	Loan Repayments	Misc.	Fees	nvestment Gain/Loss cl. Dividends)	Ending Balance March 31, 2019
Voya Fixed Account	\$	71,857,434	\$	1,103,451	\$ (36,337)	\$ (1,412,022)	\$ -	\$ 930	\$ (5,727)	\$ 474,023	\$ 71,981,752
Vanguard Total Bond Market Index I	\$	3,897,307	\$	58,879	\$ 161,057	\$ (103,885)	\$ -	\$ 3,950	\$ (1,489)	\$ 118,450	\$ 4,134,269
MFS Value Fund R4	\$	4,010,982	\$	89,623	\$ (71,584)	\$ (39,157)	\$ -	\$ -	\$ (1,364)	\$ 515,200	\$ 4,503,701
Vanguard Institutional Index I	\$	20,754,896	\$	351,132	\$ (204,686)	\$ (247,006)	\$ -	\$ 572	\$ (6,896)	\$ 2,828,518	\$ 23,476,530
T Rowe Price Growth Stock Fund I	\$	13,952,811	\$	239,107	\$ 190,500	\$ (157,129)	\$ -	\$ 2,488	\$ (4,568)	\$ 2,246,166	\$ 16,469,375
Hartford Mid Cap HLS IA	\$	9,112,426	\$	150,570	\$ (38,413)	\$ (118,521)	\$ -	\$ 2,832	\$ (3,010)	\$ 1,840,518	\$ 10,946,402
Oppenheimer Main Street Mid Cap Fund	\$	6,642,204	\$	113,143	\$ (201,409)	\$ (84,790)	\$ -	\$ 1,897	\$ (2,111)	\$ 1,083,990	\$ 7,552,924
Vanguard Mid-Cap Value Index Fund - Admiral Shares	\$	306,259	\$	13,133	\$ 32,891	\$ (36,482)	\$ -	\$ -	\$ (208)	\$ 43,901	\$ 359,495
Vanguard Extended Market ldx I	\$	6,006,193	\$	235,341	\$ 278,150	\$ (32,687)	\$ -	\$ -	\$ (2,267)	\$ 972,418	\$ 7,457,147
Goldman Sachs Small/Mid Cap Growth	\$	2,622,092	\$	51,919	\$ 28,530	\$ (75,542)	\$ -	\$ -	\$ (880)	\$ 521,178	\$ 3,147,296
Vanguard Developed Markets Index Insti	\$	5,086,122	\$	204,798	\$ 3,506,676	\$ (117,928)	\$ -	\$ -	\$ (2,839)	\$ 535,043	\$ 9,211,872
Dodge & Cox International Stock	\$	600,119	\$	10,043	\$ (672,851)	\$ (1,333)	\$ -	\$ -	\$ (11)	\$ 64,033	\$ -
American Funds Europacific Growth Fund R6	\$	-	\$	3,036	\$ 671,153	\$ (327)	\$ -	\$ -	\$ (219)	\$ 12,113	\$ 685,756
Franklin Mutual Global Discovery Fund	\$	2,899,955	\$	35,773	\$ (3,262,441)	\$ (17,431)	\$ -	\$ 16,570	\$ (12)	\$ 327,586	\$ -
Vanguard Institutional Target Retirement Income Instl	\$	2,374,120	\$	19,574	\$ 109,340	\$ (47,056)	\$ -	\$ -	\$ (692)	\$ 135,404	\$ 2,590,691
Vanguard Institutional Target Retirement 2015 Instl	\$	2,837,353	\$	46,241	\$ (66,883)	\$ (42,527)	\$ -	\$ -	\$ (1,060)	\$ 178,787	\$ 2,951,910
Vanguard Institutional Target Retirement 2020 Instl	\$	1,811,251	\$	11,709	\$ (14,379)	\$ (11,695)	\$ -	\$ -	\$ (491)	\$ 140,005	\$ 1,936,400
Vanguard Institutional Target Retirement 2025 Instl	\$	5,329,322	\$	257,620	\$ (206,307)	\$ (13,871)	\$ -	\$ -	\$ (2,369)	\$ 466,419	\$ 5,830,813
Vanguard Institutional Target Retirement 2030 Instl	\$	1,861,834	\$	30,430	\$ (66,622)	\$ (59,438)	\$ -	\$ -	\$ (560)	\$ 175,112	\$ 1,940,756
Vanguard Institutional Target Retirement 2035 Instl	\$	5,754,270	\$	258,674	\$ (102,443)	\$ (66,135)	\$ -	\$ -	\$ (3,216)	\$ 594,577	\$ 6,435,726
Vanguard Institutional Target Retirement 2040 Instl	\$	767,440	\$	44,807	\$ (42,864)	\$ (180)	\$ -	\$ -	\$ (362)	\$ 83,283	\$ 852,124
Vanguard Institutional Target Retirement 2045 Instl	\$	4,085,562	\$	389,953	\$ (104,349)	\$ (126,128)	\$ -	\$ 4,233	\$ (2,925)	\$ 479,917	\$ 4,726,263
Vanguard Institutional Target Retirement 2050 Instl	\$	186,534	\$	31,704	\$ 2,510	\$ -	\$ -	\$ 2,382	\$ (197)	\$ 22,771	\$ 245,704
Vanguard Institutional Target Retirement 2055 Instl	\$	485,443	\$	82,586	\$ (1,359)	\$ (1,976)	\$ -	\$ 2,762	\$ (712)	\$ 58,817	\$ 625,561
Vanguard Institutional Target Retirement 2060 Instl	\$	33,058	\$	16,952	\$ -	\$ -	\$ -	\$ 1,519	\$ (81)	\$ 4,420	\$ 55,868
Vanguard Institutional Target Retirement 2065 Instl	\$	22,840	\$	-	\$ -	\$ -	\$ -	\$ -	\$ (20)	\$ 2,637	\$ 25,457
TD Ameritrade SDBA	\$	784,611	\$	-	\$ 86,747	\$ -	\$ -	\$ -	\$ -	\$ 86,921	\$ 958,279
Total	\$	174,082,438	\$	3,850,194	\$ (25,371)	\$ (2,813,246)	\$ -	\$ 40,135	\$ (44,289)	\$ 14,012,208	\$ 189,102,069

Misc:

\$ 40,134.64 8 Rollovers in

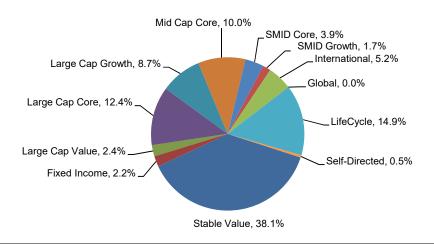
Fund Transfers:

(25,371.47) Transferred to 666783

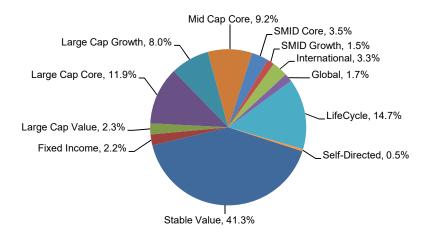
# Asset Allocation Summary: Political Subdivision

		March 31, 2019					
Fund		Assets	% of Total Assets				
Voya Fixed Account	\$	71,981,752	38.1%				
Vanguard Total Bond Market Index I	\$	4,134,269	2.2%				
MFS Value Fund R4	\$	4,503,701	2.4%				
Vanguard Institutional Index I	\$	23,476,530	12.4%				
T Rowe Price Growth Stock Fund I	\$	16,469,375	8.7%				
Hartford Mid Cap HLS IA	\$	10,946,402	5.8%				
Oppenheimer Main Street Mid Cap Fund	\$	7,552,924	4.0%				
Vanguard Mid-Cap Value Index Fund - Admiral Shares	\$	359,495	0.2%				
Vanguard Extended Market Idx I	\$	7,457,147	3.9%				
Goldman Sachs Small/Mid Cap Growth	\$	3,147,296	1.7%				
Vanguard Developed Markets Index Instl	\$	9,211,872	4.9%				
Dodge & Cox International Stock	\$	-	0.0%				
American Funds Europacific Growth Fund R6	\$	685,756	0.4%				
Franklin Mutual Global Discovery Fund	\$	-	0.0%				
Vanguard Institutional Target Retirement Income Instl	\$	2,590,691	1.4%				
Vanguard Institutional Target Retirement 2015 Instl	\$	2,951,910	1.6%				
Vanguard Institutional Target Retirement 2020 Instl	\$	1,936,400	1.0%				
Vanguard Institutional Target Retirement 2025 Instl	\$	5,830,813	3.1%				
Vanguard Institutional Target Retirement 2030 Instl	\$	1,940,756	1.0%				
Vanguard Institutional Target Retirement 2035 Instl	\$	6,435,726	3.4%				
Vanguard Institutional Target Retirement 2040 Instl	\$	852,124	0.5%				
Vanguard Institutional Target Retirement 2045 Instl	\$	4,726,263	2.5%				
Vanguard Institutional Target Retirement 2050 Instl	\$	245,704	0.1%				
Vanguard Institutional Target Retirement 2055 Instl	\$	625,561	0.3%				
Vanguard Institutional Target Retirement 2060 Instl	\$	55,868	0.0%				
Vanguard Institutional Target Retirement 2065 Instl	\$	25,457	0.0%				
TD Ameritrade SDBA	\$	958,279	0.5%				
Tota	al \$	189,102,069	100.0%				

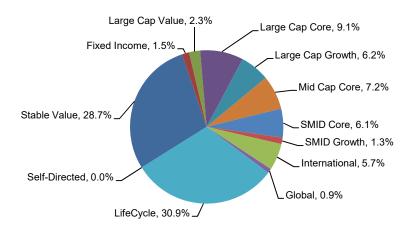
#### Asset Allocation as of March 31, 2019



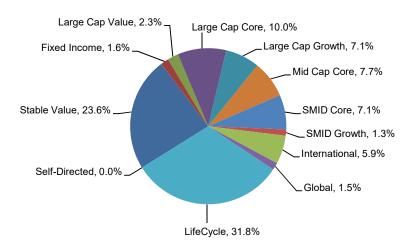
### Asset Allocation as of January 1, 2019



#### Plan Contributions - 1st Quarter 2019



#### Plan Contributions - 4th Quarter 2018



# **Summary of Loan Activity**

As of March 31, 2019

Loans Issued*	Loans Paid in Full*	Outstanding Balance	Principal Paid**	Interest Paid**
923	250	\$3,679,871	\$685,006	\$80,969

<sup>\*</sup>Total loans since inception.

# **Summary of Roth Accounts**

	As of Decem	ber 31, 2018	As of Marc	h 31, 2019
	Number of Accounts	Total Balance	Number of Accounts	Total Balance
State	1591	\$8,436,454	1657	\$9,111,125
NSHE	181	\$2,043,529	197	\$2,190,094
Poltical Sub Divisions	193	\$1,155,844	209	\$1,268,784
Total	1965	\$11,635,826	2063	\$12,570,003

<sup>\*\*</sup> Paid during the quarter

# **ROTH Transactions**

		State	e		P	olitical S	ubdivision	S		NS	НЕ	
Fund Name			Conver	sions			Conve	rsions			Conver	rsions
Tunu Ivanie	Contributions	Withdraws	From Pre-Tax	To Roth	Contributions	Withdraws	From Pre-Tax	To Roth	Contributions	Withdraws	From Pre-Tax	To Roth
American Funds EuroPacific R6	\$2,103.35	\$0.00	\$0.00	\$0.00	\$125.50	\$0.00	\$0.00	\$0.00	\$17.07	\$0.00	\$0.00	\$0.00
Dodge & Cox Intl Stock Fnd	\$3,788.34	(\$58.22)	\$0.00	\$0.00	\$437.00	\$0.00	\$0.00	\$0.00	\$555.83	\$0.00	\$0.00	\$0.00
Franklin Mutual Glbl Disc Fd A	\$2,787.73	(\$71.11)	\$0.00	\$0.00	\$1,420.10	\$0.00	\$0.00	\$0.00	\$336.99	\$0.00	\$0.00	\$0.00
Gldmn Sachs SmMd Cap Grw Fnd A	\$10,693.65	(\$100.17)	\$0.00	\$0.00	\$3,729.25	\$0.00	\$0.00	\$0.00	\$118.42	\$0.00	\$0.00	\$0.00
Hartfd MidCap HLS Fnd IA	\$19,636.82	(\$4,018.13)	\$0.00	\$0.00	\$5,123.12	\$0.00	\$0.00	\$0.00	\$1,347.60	\$0.00	\$0.00	\$0.00
MFS Value Fund R4	\$4,837.33	(\$53.64)	\$0.00	\$0.00	\$2,425.14	\$0.00	\$0.00	\$0.00	\$2,592.92	\$0.00	\$0.00	\$0.00
Oppenhmr Main Str Md Cp Fd Y	\$5,930.59	(\$59.84)	\$0.00	\$0.00	\$1,434.62	\$0.00	\$0.00	\$0.00	\$1,432.50	\$0.00	\$0.00	\$0.00
TD AMERITRADE SDBA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TRwPr Growth Stock Fund I	\$51,552.75	(\$7,779.73)	\$0.00	\$0.00	\$4,519.52	\$0.00	\$0.00	\$0.00	\$1,528.54	\$0.00	\$0.00	\$0.00
Vangrd Dev Mkts Index Fd Ins	\$16,471.60	(\$46.56)	(\$3,726.01)	\$3,726.01	\$8,146.98	\$0.00	\$0.00	\$0.00	\$1,377.64	\$0.00	\$0.00	\$0.00
Vngrd Extend Mrkt Inc F - I Sh	\$22,171.02	(\$4,977.16)	(\$8,299.61)	\$8,299.61	\$8,748.93	\$0.00	\$0.00	\$0.00	\$8,613.99	\$0.00	\$0.00	\$0.00
Vangrd Instit Index Fnd Ins	\$73,031.23	(\$4,072.84)	(\$4,341.88)	\$4,341.88	\$14,929.49	\$0.00	\$0.00	\$0.00	\$9,957.47	\$0.00	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2015 Ins	\$44,478.42	\$0.00	\$0.00	\$0.00	\$300.00	\$0.00	\$0.00	\$0.00	\$18,041.98	\$0.00	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2020 Ins	\$2,096.30	(\$7,309.98)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300.00	\$0.00	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2025 Ins	\$52,871.40	(\$3,601.55)	\$0.00	\$0.00	\$12,517.22	\$0.00	\$0.00	\$0.00	\$10,605.27	(\$682.52)	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2030 Ins	\$8,370.00	(\$6,172.90)	\$0.00	\$0.00	\$397.50	\$0.00	\$0.00	\$0.00	\$4,423.66	\$0.00	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2035 Ins	\$53,052.52	\$0.00	\$0.00	\$0.00	\$13,787.88	(\$5,700.89)	\$0.00	\$0.00	\$11,019.13	\$0.00	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2040 Ins	\$13,099.98	(\$20,368.09)	\$0.00	\$0.00	\$4,038.60	\$0.00	\$0.00	\$0.00	\$6,705.51	\$0.00	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2045 Ins	\$62,695.90	\$0.00	\$0.00	\$0.00	\$15,955.75	\$0.00	\$0.00	\$0.00	\$23,644.28	(\$607.10)	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2050 Ins	\$7,386.50	\$0.00	\$0.00	\$0.00	\$4,584.00	\$0.00	\$0.00	\$0.00	\$2,990.14	\$0.00	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2055 Ins	\$28,597.75	\$0.00	\$0.00	\$0.00	\$11,179.63	\$0.00	\$0.00	\$0.00	\$3,848.79	\$0.00	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2060 Ins	\$4,847.80	\$0.00	\$0.00	\$0.00	\$2,308.99	\$0.00	\$0.00	\$0.00	\$1,450.92	\$0.00	\$0.00	\$0.00
Vangrd Instit Tgt Ret 2065 Ins	\$4,800.78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$650.87	\$0.00	\$0.00	\$0.00
Vangrd Instit Tgt Ret Inc Ins	\$3,111.70	\$0.00	\$0.00	\$0.00	\$1,719.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Vangrd Mid-Cap VI Indx Fnd Adm	\$6,471.66	(\$26.85)	\$0.00	\$0.00	\$2,000.13	\$0.00	\$0.00	\$0.00	\$2,430.35	\$0.00	\$0.00	\$0.00
Vangrd Tot Bd Mkt Ind Fd Ins	\$10,905.70	(\$1,623.75)	\$0.00	\$0.00	\$698.25	\$0.00	\$0.00	\$0.00	\$7,973.93	\$0.00	\$0.00	\$0.00
Voya Fixed Account 457/401	\$62,525.93	(\$26,647.07)	(\$70,243.55)	\$70,243.55	\$6,059.65	\$0.00	\$0.00	\$0.00	\$21,751.15	(\$6,939.84)	\$0.00	\$0.00
Plan Total	578,316.75	(86,987.59)	(86,611.05)	86,611.05	126,460.99	(5,700.89)	0.00	0.00	143,697.88	(8,229.46)	0.00	0.00

FICA Plan Activity	All	State	Pol. Sub- Division	NSHE
Number of Participants Actively Contributing:	7,173	89	390	5,356
Number of Participants with Account Balance:	27,136	1,269	1,761	24,143
Average Account Balance:	\$1,537	\$1,385	\$1,232	\$1,564
Opening Balance as of 01/01/2019:	\$40,981,957	\$1,745,943	\$2,191,989	\$37,044,025
Closing Balance as of 03/01/2019:	\$41,698,343	\$1,756,963	\$2,170,260	\$37,771,121

# Number of Participants Invested by Fund: Total Plan As of March 31, 2019

Fund	# of Participants	# of One-Funders
Voya Fixed Account	5,943	2,244
Vanguard Total Bond Market Index I	1,381	32
MFS Value Fund R4	1,741	9
Vanguard Institutional Index I	4,384	131
T Rowe Price Growth Stock Fund I	3,393	119
Hartford Mid Cap HLS IA	2,878	18
Oppenheimer Main Street Mid Cap Fund	2,038	5
Vanguard Mid-Cap Value Index Fund	543	2
Vanguard Extended Market ldx I	1,904	8
Goldman Sachs Small/Mid Cap Growth	1,205	6
Vanguard Developed Markets Index Instl	3,094	13
American Funds EuroPacific Growth Fund R6	883	5
Vanguard Institutional Target Retirement Income Instl	561	120
Vanguard Institutional Target Retirement 2015 Instl	1,282	693
Vanguard Institutional Target Retirement 2020 Instl	375	73
Vanguard Institutional Target Retirement 2025 Instl	1,732	995
Vanguard Institutional Target Retirement 2030 Instl	505	157
Vanguard Institutional Target Retirement 2035 Instl	2,491	1,614
Vanguard Institutional Target Retirement 2040 Instl	417	206
Vanguard Institutional Target Retirement 2045 Instl	1,964	1,505
Vanguard Institutional Target Retirement 2050 Instl	345	253
Vanguard Institutional Target Retirement 2055 Instl	726	600
Vanguard Institutional Target Retirement 2060 Instl	172	153
Vanguard Institutional Target Retirement 2065 Instl	28	13
TD Ameritrade SDBA	87	0

**Investment Diversification as of March 31, 2019** 

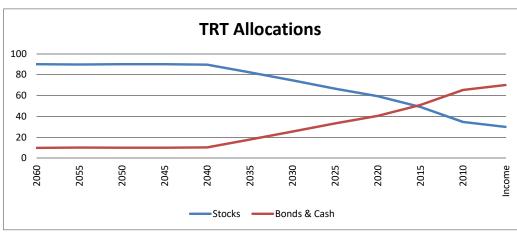
Number of Funds	Number of Participants	Percent
One	8,974	56.74%
Two	1,476	9.33%
Three	1043	6.59%
Four	1165	7.37%
Five	1,158	7.32%
Six	886	5.60%
Seven	405	2.56%
Eight	416	2.63%
Nine	129	0.82%
Ten +	164	1.04%
TOTAL	15,816	100.00%

Average number of funds being used in the Plan: 2.60

# **Vanguard Target Date Retirement Funds**

Estimated allocations

Fund	Total Stock Market Index Fund	Total International Stock Index Fund	Total Bond Market Index II Fund	Total Intl Bond Market Index Fund	ST Inflation- Protected Securities Fund	Stocks	Bonds & Cash
2065	54.2%	35.9%	7.0%	2.9%	0.0%	90.10%	9.90%
2060	54.3%	35.7%	7.1%	2.9%	0.0%	90.00%	10.00%
2055	54.3%	35.7%	7.1%	2.9%	0.0%	90.0%	10.0%
2050	54.1%	35.8%	7.2%	2.9%	0.0%	89.9%	10.1%
2045	54.2%	35.7%	7.2%	2.9%	0.0%	89.9%	10.1%
2040	50.8%	33.3%	11.2%	4.7%	0.0%	84.1%	15.9%
2035	46.4%	30.2%	16.5%	6.9%	0.0%	76.6%	23.4%
2030	41.7%	27.3%	21.8%	9.2%	0.0%	69.0%	31.0%
2025	37.3%	24.3%	27.0%	11.4%	0.0%	61.6%	38.4%
2020	31.4%	20.8%	29.3%	12.3%	6.2%	52.2%	47.8%
2015	23.3%	15.5%	34.0%	14.4%	12.8%	38.8%	61.2%
Income	18.1%	12.0%	37.5%	15.8%	16.6%	30.1%	69.9%



# **Voya General Fixed Account**

	US Gov/Agency	Mortgage Backed Securities	Corporate Bonds	Asset Backed Securities	CMBS	Cash / Equivalents	Foreign Securities	Other *	Total
Voya Fixed Account	5.00%	26.00%	38.00%	4.00%	6.00%	0.00%	18.00%	3.00%	100%
Barcays Aggregated Bond Index	42.20%	29.00%	23.10%	0.50%	2.00%	0.00%	3.10%	0.00%	100%

<sup>\*</sup>Other for Voya includes Derivatives, LPs & Policy Loans and Mortgage Loans.

Quality Ratings	Voya	BC Agg
AAA	19.00%	71.70%
AA	6.00%	4.60%
Α	26.00%	11.80%
ВВВ	42.00%	11.90%
BB and Below	7.00%	0.00%

Voya Financial Insurance Company Ratings								
Fitch	Α	Strong						
S&P	Α	Strong						
Moody's	A2	Good						
A.M. Best	Α	Excellent						

457 Plans Minimum Crediting Rate Per Contract						
2015	3.50%					
2016	3.15%					
2017	2.75%					
01/01/2018	2.50%					
09/01/2018	2.65%					
2019	2.75%					

<b>FICA Alternative Plans</b>						
2015	2.50%					
2016	2.25%					
2017	1.50%					
2018	1.00%					
2019	Prevailing					

<sup>\*</sup>Effective 12/19/2014 the separate account funds were transferred to Voya General Account.

Investment Manager Performance Review

	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
Large Cap Domestic Equity Funds						
MFS Value Fund R4	12.82	12.82	4.83	10.16	8.21	0.58
Russell 1000 Value Index	11.93	11.93	5.67	10.45	7.72	
Excess Return	0.89	0.89	-0.84	-0.29	0.49	
IM U.S. Large Cap Value Equity (MF) Median	11.56	11.56	4.23	10.28	7.12	
MFS Value Fund R4 Rank	17	17	42	54	17	
T.Rowe Price Growth Stock I	15.92	15.92	10.62	18.16	13.81	0.52
Russell 1000 Growth Index	16.10	16.10	12.75	16.53	13.50	
Excess Return	-0.18	-0.18	-2.13	1.63	0.31	
IM U.S. Large Cap Growth Equity (MF) Median	16.26	16.26	12.03	16.08	12.46	
T.Rowe Price Growth Stock I Rank	62	62	69	22	19	
Vanguard Institutional Index	13.65	13.65	9.47	13.48	10.88	0.04
S&P 500	13.65	13.65	9.50	13.51	10.91	
Excess Return	0.00	0.00	-0.03	-0.03	-0.03	
IM U.S. Large Cap Core Equity (MF) Median	13.12	13.12	7.74	12.37	9.37	
Vanguard Institutional Index Rank	31	31	22	23	13	
Mid-Cap Domestic Equity Funds						
Vanguard Mid-Cap Value Index	13.81	13.81	1.05	9.77	7.70	0.07
CRSP U.S. Mid Cap Value TR Index	13.84	13.84	1.08	9.82	7.74	
Excess Return	-0.03	-0.03	-0.03	-0.05	-0.04	
IM U.S. Mid Cap Value Equity (MF) Median	13.37	13.37	-1.14	7.96	5.05	
Vanguard Mid-Cap Value Index Rank	38	38	24	13	3	
Hartford Mid Cap HLS IA	20.20	20.20	7.57	15.57	11.03	0.70
Russell Midcap Index	16.54	16.54	6.47	11.82	8.81	
Excess Return	3.66	3.66	1.10	3.75	2.22	
IM U.S. Mid Cap Core Equity (MF) Median	14.58	14.58	2.76	9.32	6.19	
Hartford Mid Cap HLS IA Rank	1	1	8	3	3	

Page 1

	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
SMID Domestic Equity Funds						
Goldman Sachs Small/Mid Cap Growth	19.75	19.75	8.53	14.72	8.72	1.24
Russell 2500 Growth Index	18.99	18.99	7.54	15.60	9.72	
Excess Return	0.76	0.76	0.99	-0.88	-1.00	
IM U.S. SMID Cap Growth Equity (MF) Median	17.60	17.60	8.75	16.52	8.86	
Goldman Sachs Small/Mid Cap Growth Rank	34	34	52	71	53	
Oppenheimer Main Street Mid Cap Fund	16.39	16.39	2.96	9.22	6.19	0.84
Russell Midcap Index	16.54	16.54	6.47	11.82	8.81	
Excess Return	-0.15	-0.15	-3.51	-2.60	-2.62	
IM U.S. Mid Cap Core Equity (MF) Median	14.58	14.58	2.76	9.32	6.19	
Oppenheimer Main Street Mid Cap Fund Rank	15	15	47	52	50	
Vanguard Extended Market Idx I	15.99	15.99	4.97	13.32	7.88	0.06
S&P Completion Index	15.99	15.99	4.76	13.17	7.75	
Excess Return	0.00	0.00	0.21	0.15	0.13	
IM U.S. SMID Cap Core Equity (MF) Median	14.01	14.01	0.38	9.97	6.01	
Vanguard Extended Market Idx I Rank	13	13	12	9	14	
International Equity Funds						
Vanguard Developed Markets Index Instl	10.25	10.25	-4.69	7.62	2.75	0.06
Spliced Developed ex US Index	10.24	10.24	-4.15	7.71	3.05	
Excess Return	0.01	0.01	-0.54	-0.09	-0.30	
Vanguard Developed Market Policy Index	9.84	9.84	-4.24	7.92	3.03	
Excess Return	0.41	0.41	-0.45	-0.30	-0.28	
IM International Equity (MF) Median	10.53	10.53	-7.09	7.21	2.55	
Vanguard Developed Markets Index Instl Rank	56	56	31	44	46	

	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
International Equity Funds						
American Funds Europacific Growth MSCI AC World ex USA (Net) Excess Return IM International Large Cap Growth Equity (MF) Median American Funds Europacific Growth Rank	13.20 10.31 2.89 12.38 27	13.20 10.31 2.89 12.38 27	-4.66 -4.22 -0.44 -4.57 52	9.33 8.09 1.24 7.33 19	4.27 2.57 1.70 2.93 24	0.49
Stable Value Fund						
Voya Fixed Account Hueler Stable Value Excess Return	0.67 0.60 0.07	0.67 0.60 0.07	2.61 2.34 0.27	2.78 2.06 0.72	2.86 1.93 0.93	
Domestic Fixed Income Funds						
Vanguard Total Bond Market Index Vanguard Total Bond Policy Index Excess Return IM U.S. Broad Market Core Fixed Income (MF) Median Vanguard Total Bond Market Index Rank	2.95 3.00 -0.05 3.23 71	2.95 3.00 -0.05 3.23 71	4.47 4.46 0.01 4.09 21	2.00 2.05 -0.05 2.13 60	2.68 2.73 -0.05 2.49 35	0.04
Target Date Funds						
Vanguard Target Retirement Income Instl Vanguard Target Income Composite Index Excess Return IM Mixed-Asset Target 2010 (MF) Median Vanguard Target Retirement Income Instl Rank	5.58 5.60 -0.02 6.26 85	5.58 5.60 -0.02 6.26 85	4.03 4.06 -0.03 3.33 21	4.96 5.04 -0.08 5.66 79	4.13 4.31 -0.18 4.08 48	0.09

	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
Target Date Funds						
Vanguard Target Retirement 2015 Instl	6.49	6.49	3.92	6.33	4.98	0.09
Vanguard Target 2015 Composite Index	6.53	6.53	4.06	6.44	5.16	
Excess Return	-0.04	-0.04	-0.14	-0.11	-0.18	
IM Mixed-Asset Target 2015 (MF) Median	7.11	7.11	3.32	6.24	4.49	
Vanguard Target Retirement 2015 Instl Rank	76	76	31	44	23	
Vanguard Target Retirement 2020 Instl	7.80	7.80	3.86	7.42	5.65	0.09
Vanguard Target 2020 Composite Index	7.88	7.88	4.08	7.57	5.86	
Excess Return	-0.08	-0.08	-0.22	-0.15	-0.21	
IM Mixed-Asset Target 2020 (MF) Median	7.35	7.35	3.14	6.51	4.48	
Vanguard Target Retirement 2020 Instl Rank	40	40	28	17	4	
Vanguard Target Retirement 2025 Instl	8.79	8.79	3.91	8.25	6.07	0.09
Vanguard Target 2025 Composite Index	8.87	8.87	4.12	8.38	6.28	
Excess Return	-0.08	-0.08	-0.21	-0.13	-0.21	
IM Mixed-Asset Target 2025 (MF) Median	8.48	8.48	3.29	7.46	5.02	
Vanguard Target Retirement 2025 Instl Rank	30	30	31	20	5	
Vanguard Target Retirement 2030 Instl	9.56	9.56	3.77	8.92	6.39	0.09
Vanguard Target 2030 Composite Index	9.58	9.58	4.02	9.06	6.60	
Excess Return	-0.02	-0.02	-0.25	-0.14	-0.21	
IM Mixed-Asset Target 2030 (MF) Median	9.52	9.52	3.16	8.27	5.37	
Vanguard Target Retirement 2030 Instl Rank	48	48	30	28	11	
Vanguard Target Retirement 2035 Instl	10.28	10.28	3.62	9.58	6.69	0.09
Vanguard Target 2035 Composite Index	10.30	10.30	3.89	9.73	6.92	
Excess Return	-0.02	-0.02	-0.27	-0.15	-0.23	
IM Mixed-Asset Target 2035 (MF) Median	10.30	10.30	3.00	9.12	5.92	
Vanguard Target Retirement 2035 Instl Rank	53	53	27	34	16	

Page 4

	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
Target Date Funds						
Vanguard Target Retirement 2040 Instl	11.00	11.00	3.45	10.25	6.96	0.09
Vanguard Target 2040 Composite Index	11.03	11.03	3.73	10.38	7.21	
Excess Return	-0.03	-0.03	-0.28	-0.13	-0.25	
IM Mixed-Asset Target 2040 (MF) Median	10.98	10.98	2.82	9.48	6.02	
Vanguard Target Retirement 2040 Instl Rank	50	50	29	24	16	
Vanguard Target Retirement 2045 Instl	11.54	11.54	3.33	10.49	7.08	0.09
Vanguard Target 2045 Composite Index	11.57	11.57	3.63	10.62	7.34	
Excess Return	-0.03	-0.03	-0.30	-0.13	-0.26	
IM Mixed-Asset Target 2045 (MF) Median	11.46	11.46	2.89	9.83	6.38	
Vanguard Target Retirement 2045 Instl Rank	46	46	36	24	16	
Vanguard Target Retirement 2050 Instl	11.52	11.52	3.31	10.47	7.08	0.09
Vanguard Target 2050 Composite Index	11.57	11.57	3.63	10.62	7.34	
Excess Return	-0.05	-0.05	-0.32	-0.15	-0.26	
IM Mixed-Asset Target 2050 (MF) Median	11.52	11.52	2.84	9.83	6.22	
Vanguard Target Retirement 2050 Instl Rank	50	50	35	28	16	
Vanguard Target Retirement 2055 Instl	11.53	11.53	3.36	10.49	7.05	0.09
Vanguard Target 2055 Composite Index	11.57	11.57	3.63	10.62	7.34	
Excess Return	-0.04	-0.04	-0.27	-0.13	-0.29	
IM Mixed-Asset Target 2055 (MF) Median	11.69	11.69	2.84	10.00	6.46	
Vanguard Target Retirement 2055 Instl Rank	59	59	35	29	21	
Vanguard Target Retirement 2060 Instl	11.53	11.53	3.31	10.47	7.05	0.09
Vanguard Target 2060 Composite Index	11.57	11.57	3.63	10.62	7.34	
Excess Return	-0.04	-0.04	-0.32	-0.15	-0.29	
IM Mixed-Asset Target 2060+ (MF) Median	12.01	12.01	2.98	10.27	6.13	
Vanguard Target Retirement 2060 Instl Rank	72	72	39	39	21	

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	1 Quarter	Year To Date	1 Year	3 Years	5 Years	Expense Ratio
Target Date Funds						
Vanguard Target Retirement 2065 Instl	11.55	11.55	3.28	N/A	N/A	0.09
Vanguard Target 2060 Composite Index	11.57	11.57	3.63	10.62	7.34	
Excess Return	-0.02	-0.02	-0.35	N/A	N/A	
IM Mixed-Asset Target 2060+ (MF) Median	12.01	12.01	2.98	10.27	6.13	
Vanguard Target Retirement 2065 Instl Rank	72	72	41	N/A	N/A	

**Large Cap Domestic Equity** 

MFS Value;R4 (MEIJX)

As of March 31, 2019

Product Name : MFS Value;R4 (MEIJX)

Fund Family: MFS Investment Management

Ticker: MEIJX

Peer Group: IM U.S. Large Cap Value Equity (MF)

Benchmark: Russell 1000 Value Index

 Fund Inception :
 04/01/2005

 Portfolio Manager :
 Chitkara/Gorham

 Total Assets :
 \$2,856 Million

 Total Assets Date :
 03/31/2019

 Gross Expense :
 0.58%

 Net Expense :
 0.58%

 Turnover :
 11%

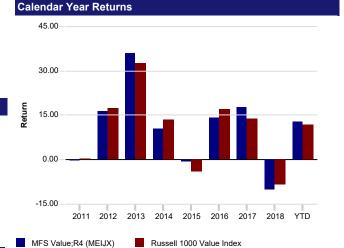
Avg. Market Cap \$113,558 Million

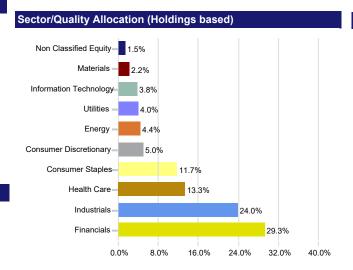
P/E 20.58 P/B 4.61 Div. Yield 2.63% Annual EPS 25.69 5Yr EPS 7.32 3Yr EPS Growth 9.48

	Portfolio	Benchmark	Peer Median
Standard Deviation	10.98	10.48	12.46
Beta	1.02	1.00	0.91
Sharpe Ratio	0.83	0.89	1.19
Information Ratio	-0.09	N/A	0.67
Tracking Error	2.31	0.00	8.16
Consistency	58.33	0.00	58.33
Up Market Capture	97.89	100.00	110.58
Down Market Capture	97.75	100.00	60.88
R-Squared	0.96	1.00	0.59

The Fund seeks capital appreciation and reasonable income. The Fund invests, under normal market conditions, at least 65% of its net assets in equity securities of companies which the adviser believes are undervalued in the market relative to their long term potential.

Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
MFS Value;R4 (MEIJX)	12.82	12.82	4.83	10.16	8.21	13.85
Russell 1000 Value Index	11.93	11.93	5.67	10.45	7.72	14.52
Excess Return	0.89	0.89	-0.84	-0.29	0.49	-0.67



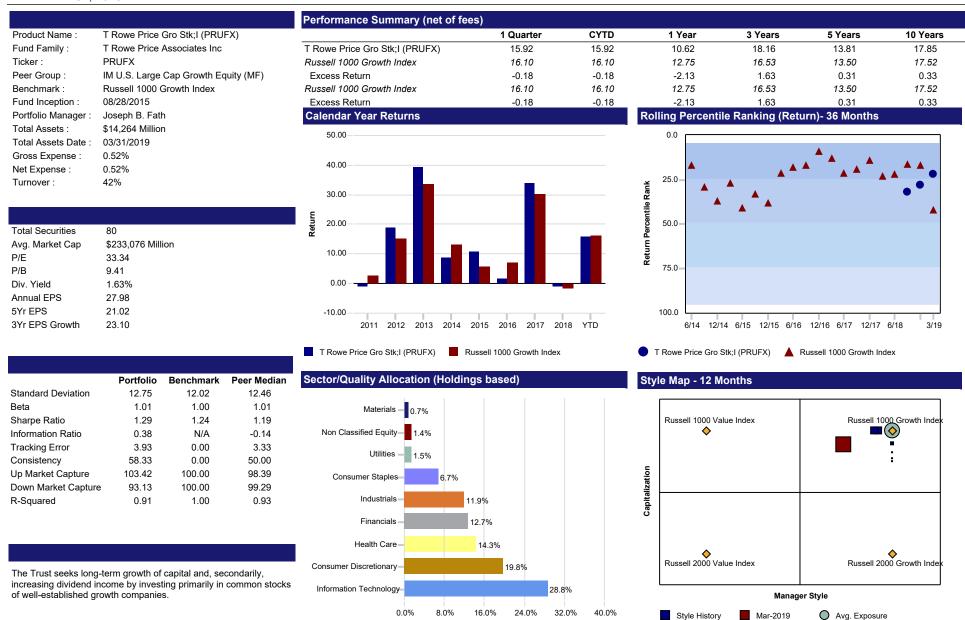






T Rowe Price Gro Stk;I (PRUFX)

As of March 31, 2019



Vanguard Instl Indx;Inst (VINIX)

As of March 31, 2019

Product Name: Vanguard Instl Indx;Inst (VINIX)

Fund Family: Vanguard Group Inc

Ticker: VINIX

Peer Group: IM U.S. Large Cap Core Equity (MF)

Benchmark: S&P 500 07/31/1990 Fund Inception: Portfolio Manager: Butler/Louie \$114.380 Million Total Assets: Total Assets Date: 03/31/2019 Gross Expense: 0.04% 0.04% Net Expense: Turnover: 6%

Avg. Market Cap \$203,274 Million

P/E 25.24
P/B 6.77
Div. Yield 2.53%
Annual EPS 31.60
5Yr EPS 15.71
3Yr EPS Growth 19.27

	Portfolio	Benchmark	Peer Median
Standard Deviation	10.58	10.58	10.73
Beta	1.00	1.00	0.99
Sharpe Ratio	1.14	1.15	1.05
Information Ratio	-2.68	N/A	-0.40
Tracking Error	0.01	0.00	2.49
Consistency	19.44	0.00	44.44
Up Market Capture	99.89	100.00	94.89
Down Market Capture	100.08	100.00	100.07
R-Squared	1.00	1.00	0.95

The Fund seeks to track the performance of a benchmark index that measures the investment return of large-capitalization stocks. The Fund employs an indexing investment approach designed to track the performance of the Standard & Poors 500 Index by investing all of its assets in the stocks that make up the Index.

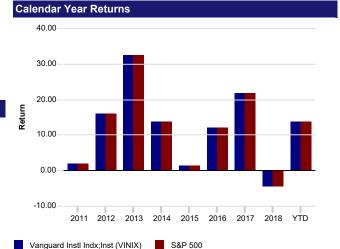
Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Vanguard Instl Indx;Inst (VINIX)	13.65	13.65	9.47	13.48	10.88	15.90
S&P 500	13.65	13.65	9.50	13.51	10.91	15.92
Excess Return	0.00	0.00	-0.03	-0.03	-0.03	-0.02

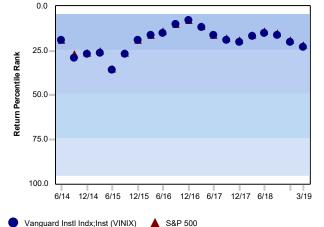
18.2%

18.0%

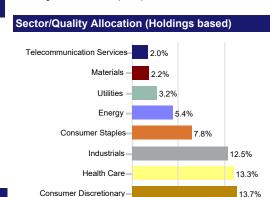
21.0%

24.0%





Rolling Percentile Ranking (Return)- 36 Months



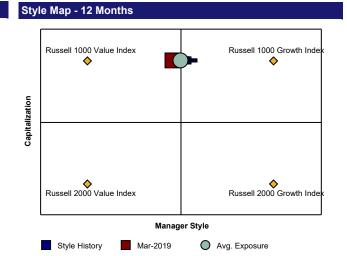
Financials

0.0%

6.0%

12.0%

Information Technology



Mid-Cap Domestic Equity

Vanguard MC V I;Adm (VMVAX)

As of March 31, 2019

Product Name : Vanguard MC V I;Adm (VMVAX)

Fund Family: Vanguard Group Inc

Ticker: VMVAX

Peer Group: IM U.S. Mid Cap Value Equity (MF)
Benchmark: CRSP U.S. Mid Cap Value TR Index

 Fund Inception:
 09/27/2011

 Portfolio Manager:
 Butler/Johnson

 Total Assets:
 \$8,772 Million

 Total Assets Date:
 03/31/2019

 Gross Expense:
 0.07%

 Net Expense:
 0.07%

 Turnover:
 17%

Avg. Market Cap \$13,905 Million

 P/E
 22.32

 P/B
 3.11

 Div. Yield
 2.74%

 Annual EPS
 22.37

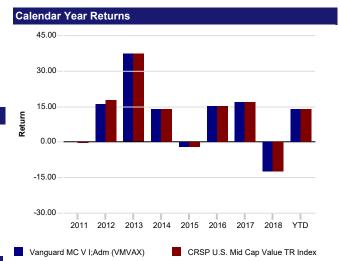
 5Yr EPS
 7.37

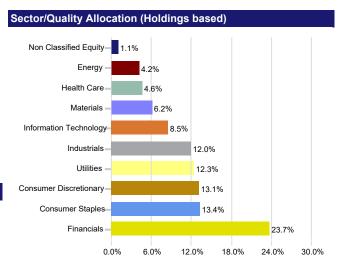
 3Yr EPS Growth
 12.69

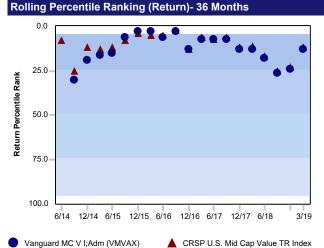
	Portfolio	Benchmark	Peer Median
Standard Deviation	11.73	11.74	13.14
Beta	1.00	1.00	1.06
Sharpe Ratio	0.76	0.76	0.56
Information Ratio	-1.22	N/A	-0.42
Tracking Error	0.04	0.00	3.90
Consistency	38.89	0.00	41.67
Up Market Capture	99.72	100.00	95.53
Down Market Capture	99.92	100.00	108.15
R-Squared	1.00	1.00	0.92

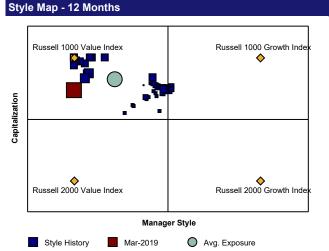
The Fund seeks to track the performance of a benchmark index that measures the investment return of mid-capitalization value stocks. The Fund employs an indexing investment approach designed to track the performance of the CRSP US Mid Cap Value Index by investing all of its assets in the stocks that make up the Index.

Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Vanguard MC V I;Adm (VMVAX)	13.81	13.81	1.05	9.77	7.70	N/A
CRSP U.S. Mid Cap Value TR Index	13.84	13.84	1.08	9.82	7.74	16.96
Excess Return	-0.03	-0.03	-0.03	-0.05	-0.04	N/A



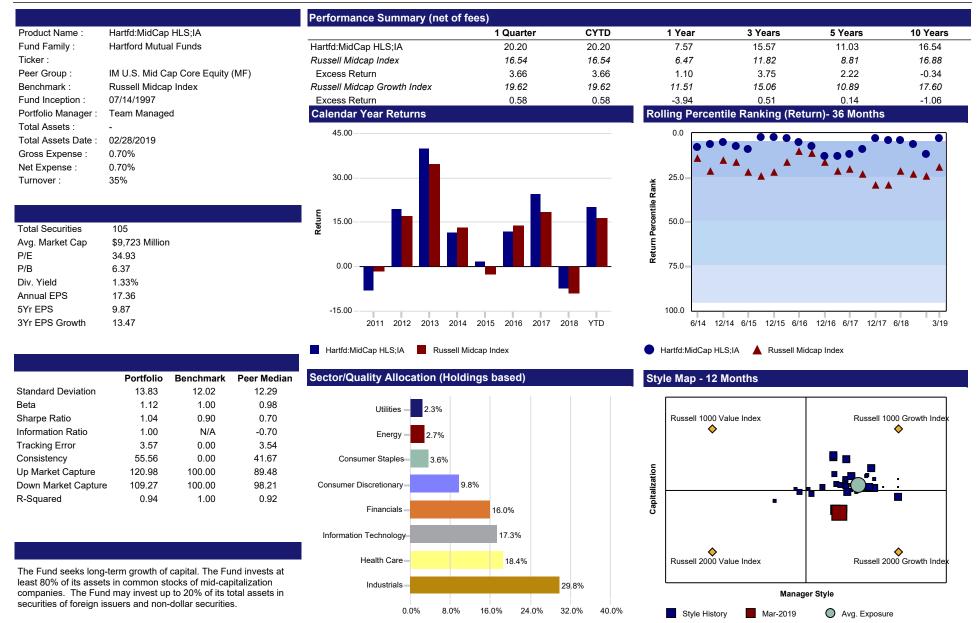






Hartfd:MidCap HLS;IA

As of March 31, 2019



**SMID Domestic Equity** 

Goldman:Sm/Md Cp Gr;A (GSMAX)

As of March 31, 2019

Product Name: Goldman:Sm/Md Cp Gr;A (GSMAX)
Fund Family: Goldman Sachs & Co/GSAM

Ticker: GSMAX

Peer Group: IM U.S. SMID Cap Growth Equity (MF)

Benchmark: Russell 2500 Growth Index

 Fund Inception:
 06/30/2005

 Portfolio Manager:
 Katz/Barry

 Total Assets:
 \$293 Million

 Total Assets Date:
 03/31/2019

 Gross Expense:
 1.31%

 Net Expense:
 1.24%

 Turnover:
 59%

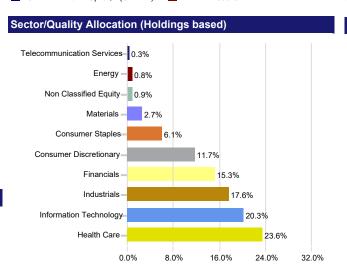
Total Securities	123
Avg. Market Cap	\$6,959 Million
P/E	36.37
P/B	6.60
Div. Yield	1.30%
Annual EPS	33.21
5Yr EPS	19.20
3Yr EPS Growth	16.67

	Portfolio	Benchmark	Peer Median
Standard Deviation	14.05	15.18	15.89
Beta	0.89	1.00	1.00
Sharpe Ratio	0.97	0.96	1.00
Information Ratio	-0.24	N/A	0.24
Tracking Error	3.94	0.00	4.04
Consistency	50.00	0.00	50.00
Up Market Capture	93.81	100.00	101.40
Down Market Capture	93.51	100.00	95.55
R-Squared	0.93	1.00	0.94

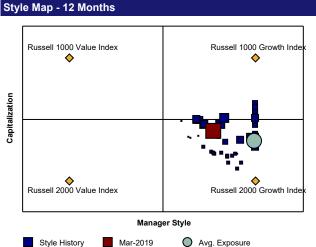
The Fund seeks long-term growth of capital. The Fund achieves this objective by investing at least 90% of its assets in equity investments with a primary focus on small and mid-capitalization companies.

Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Goldman:Sm/Md Cp Gr;A (GSMAX)	19.75	19.75	8.53	14.72	8.72	16.61
Russell 2500 Growth Index	18.99	18.99	7.54	15.60	9.72	17.50
Excess Return	0.76	0.76	0.99	-0.88	-1.00	-0.89









Oppenheimer Mn St MC;Y (OPMYX)

As of March 31, 2019

Product Name: Oppenheimer Mn St MC;Y (OPMYX)

Fund Family: OppenheimerFunds Inc

Ticker: OPMYX

Peer Group: IM U.S. Mid Cap Core Equity (MF)

Benchmark: Russell Midcap Index

Fund Inception: 08/02/1999
Portfolio Manager: Raymond Anello
Total Assets: \$470 Million
Total Assets Date: 03/31/2019
Gross Expense: 0.84%
Net Expense: 0.84%
Turnover: 60%

Total	Securities	7
Total	Securities	7

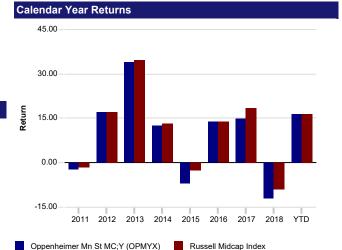
Avg. Market Cap \$18,404 Million

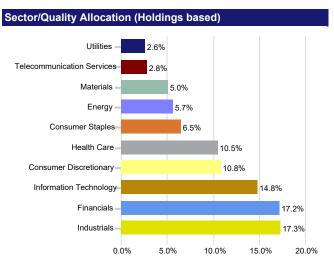
P/E 27.49
P/B 5.48
Div. Yield 2.97%
Annual EPS 31.32
5Yr EPS 18.66
3Yr EPS Growth 14.23

	Portfolio	Benchmark	Peer Median
Standard Deviation	12.59	12.02	12.29
Beta	1.00	1.00	0.98
Sharpe Ratio	0.67	0.90	0.70
Information Ratio	-0.62	N/A	-0.70
Tracking Error	3.68	0.00	3.54
Consistency	41.67	0.00	41.67
Up Market Capture	85.13	100.00	89.48
Down Market Capture	90.80	100.00	98.21
R-Squared	0.91	1.00	0.92

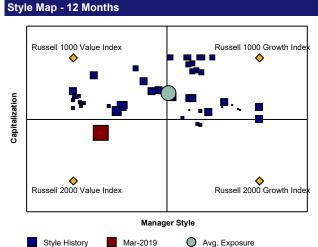
The Fund seeks capital appreciation. The Fund mainly invests in common stocks of small and mid-cap companies. Under normal market conditions, the Fund will invest at least 80% of its net assets in securities of companies having a market capitalization in the range of the Russell 2500 Index and the Russell Midcap Index.

Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Oppenheimer Mn St MC;Y (OPMYX)	16.39	16.39	2.96	9.22	6.19	15.57
Russell Midcap Index	16.54	16.54	6.47	11.82	8.81	16.88
Excess Return	-0.15	-0.15	-3.51	-2.60	-2.62	-1.31









Vanguard Ext MI;Inst (VIEIX)

As of March 31, 2019

Product Name: Vanguard Ext MI;Inst (VIEIX)

Fund Family: Vanguard Group Inc

Ticker: VIEIX

Peer Group: IM U.S. SMID Cap Core Equity (MF)

Benchmark : S&P Completion Index

 Fund Inception:
 07/07/1997

 Portfolio Manager:
 Butler/Coleman

 Total Assets:
 \$14,238 Million

 Total Assets Date:
 03/31/2019

 Gross Expense:
 0.06%

 Net Expense:
 0.06%

 Turnover:
 10%

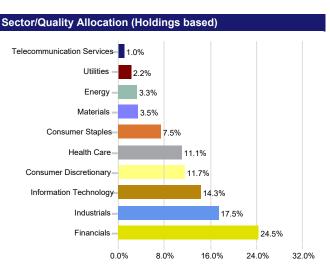
Total Securities	3,265
Avg. Market Cap	\$7,543 Million
P/E	29.12
P/B	5.54
Div. Yield	2.76%
Annual EPS	21.02
5Yr EPS	13.23
3Yr EPS Growth	15.26

	Portfolio	Benchmark	Peer Median
Standard Deviation	13.84	13.85	14.96
Beta	1.00	1.00	1.04
Sharpe Ratio	0.89	0.88	0.64
Information Ratio	1.83	N/A	-0.72
Tracking Error	0.07	0.00	4.15
Consistency	80.56	0.00	41.67
Up Market Capture	100.38	100.00	95.36
Down Market Capture	99.68	100.00	114.56
R-Squared	1.00	1.00	0.93

The Fund seeks to track the performance of a benchmark index that measures the investment return of small- and mid-capitalization stocks.

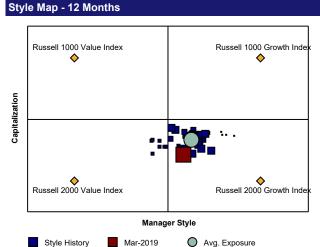
Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Vanguard Ext MI;Inst (VIEIX)	15.99	15.99	4.97	13.32	7.88	16.62
S&P Completion Index	15.99	15.99	4.76	13.17	7.75	16.49
Excess Return	0.00	0.00	0.21	0.15	0.13	0.13







Vanguard Ext MI;Inst (VIEIX) ▲ S&P Completion Index



**International Equity** 

Vanguard Dev Mkt;Inst (VTMNX)

As of March 31, 2019

Product Name : Vanguard Dev Mkt;Inst (VTMNX)

Fund Family: Vanguard Group Inc

Ticker: VTMNX

Peer Group: IM International Equity (MF)

Benchmark: Vanguard Developed Market Policy Index

Fund Inception: 01/04/2001
Portfolio Manager: Franquin/Perre
Total Assets: \$11,824 Million
Total Assets Date: 03/31/2019
Gross Expense: 0.06%
Net Expense: 0.06%
Turnover: 3%

Total Securities	3,955
------------------	-------

Avg. Market Cap \$52,045 Million

 P/E
 19.61

 P/B
 3.07

 Div. Yield
 3.21%

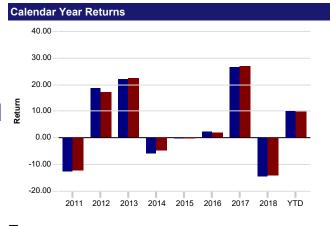
 Annual EPS
 21.29

 5Yr EPS
 10.88

 3Yr EPS Growth
 13.40

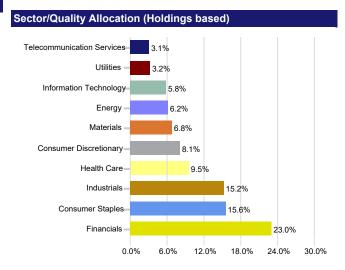
	Portfolio	Benchmark	Peer Median
Standard Deviation	10.34	10.48	11.68
Beta	0.98	1.00	0.96
Sharpe Ratio	0.65	0.67	0.56
Information Ratio	-0.18	N/A	-0.11
Tracking Error	1.60	0.00	5.51
Consistency	44.44	0.00	50.00
Up Market Capture	94.36	100.00	93.41
Down Market Capture	92.79	100.00	91.33
R-Squared	0.98	1.00	0.78

Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Vanguard Dev Mkt;Inst (VTMNX)	10.25	10.25	-4.69	7.62	2.75	9.18
Vanguard Developed Market Policy Index	9.84	9.84	-4.24	7.92	3.03	9.31
Excess Return	0.41	0.41	-0.45	-0.30	-0.28	-0.13





Vanguard Developed Market Policy Index

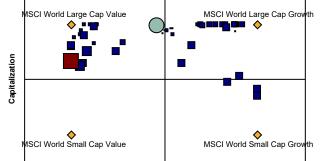




Vanguard Dev Mkt;Inst (VTMNX)

Style Map - 12 Months

▲ Vanguard Developed Market Policy Index



Manager Style

Style History Mar-2019

Average Style Exposure

American Funds Europacific Growth

As of March 31, 2019

Product Name : American Funds EuPc;R6 (RERGX)

Fund Family: American Funds

Ticker: RERGX

Peer Group : IM International Large Cap Growth Equity (MF)

Benchmark: MSCI AC World ex USA (Net)

 Fund Inception :
 05/01/2009

 Portfolio Manager :
 Team Managed

 Total Assets :
 \$68,421 Million

 Total Assets Date :
 03/31/2019

 Gross Expense :
 0.49%

 Net Expense :
 0.49%

 Turnover :
 29%

Total Securities 425

Avg. Market Cap \$67,891 Million

 P/E
 22.19

 P/B
 4.32

 Div. Yield
 2.21%

 Annual EPS
 33.66

 5Yr EPS
 16.83

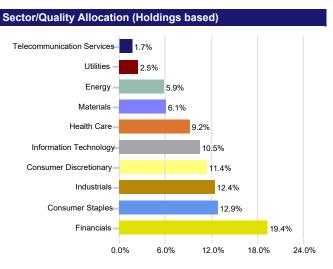
 3Yr EPS Growth
 18.93

	Portfolio	Benchmark
Standard Deviation	11.22	10.41
Beta	1.03	1.00
Sharpe Ratio	0.75	0.69
Information Ratio	0.39	N/A
Tracking Error	3.20	0.00
Consistency	52.78	0.00
Up Market Capture	103.83	100.00
Down Market Capture	95.35	100.00
R-Squared	0.92	1.00

The Fund seeks to provide long-term growth of capital by investing in companies based outside the United States. The Fund Invests in companies based chiefly in Europe and the Pacific Basin, ranging from small firms to large corporations.

Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
American Funds Europacific Growth	13.20	13.20	-4.66	9.33	4.27	9.95
MSCI AC World ex USA (Net)	10.31	10.31	-4.22	8.09	2.57	8.85
Excess Return	2.89	2.89	-0.44	1.24	1.70	1.10









**Domestic Fixed Income** 

Vanguard Tot Bd;Inst (VBTIX)

As of March 31, 2019

Product Name : Vanguard Tot Bd;Inst (VBTIX)

Fund Family: Vanguard Group Inc

Ticker: VBTIX

Peer Group: IM U.S. Broad Market Core Fixed Income

(MF)

Benchmark: Vanguard Total Bond Policy Index

Fund Inception : 09/18/1995

Portfolio Manager: Joshua C. Barrickman

 Total Assets:
 \$42,564 Million

 Total Assets Date:
 03/31/2019

 Gross Expense:
 0.04%

 Net Expense:
 0.04%

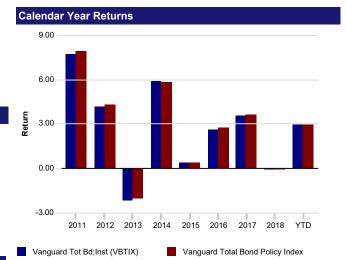
 Turnover:
 54%

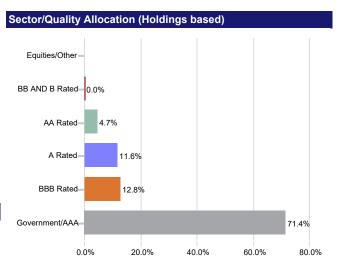
Avg. Coupon 3.18 %
Nominal Maturity N/A
Effective Maturity 8.14 Years
Duration 5.82 Years
SEC 30 Day Yield 2.69
Avg. Credit Quality AA

	Portfolio	Benchmark	Peer Median
Standard Deviation	3.01	2.98	2.82
Beta	1.01	1.00	0.92
Sharpe Ratio	0.29	0.31	0.37
Information Ratio	-0.20	N/A	0.13
Tracking Error	0.25	0.00	0.64
Consistency	38.89	0.00	52.78
Up Market Capture	98.27	100.00	96.03
Down Market Capture	98.75	100.00	89.16
R-Squared	0.99	1.00	0.96

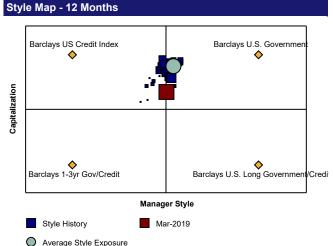
The Fund seeks to track the performance of a broad, marketweighted bond index.

Performance Summary (net of fees)						
	1 Quarter	CYTD	1 Year	3 Years	5 Years	10 Years
Vanguard Tot Bd;Inst (VBTIX)	2.95	2.95	4.47	2.00	2.68	3.71
Vanguard Total Bond Policy Index	3.00	3.00	4.46	2.05	2.73	3.79
Excess Return	-0.05	-0.05	0.01	-0.05	-0.05	-0.08









**Target Date Retirement Funds** 

Vanguard ITR Inc;Inst (VITRX)

As of March 31, 2019

Vanguard ITR Inc;Inst (VITRX) Product Name:

Fund Family: Vanguard Group Inc

VITRX Ticker:

IM Mixed-Asset Target 2010 (MF) Peer Group:

Benchmark: Vanguard Target Income Composite Index

06/26/2015 Fund Inception: Portfolio Manager: Coleman/Nejman \$5.992 Million Total Assets: Total Assets Date: 03/31/2019 Gross Expense: 0.09% Net Expense: 0.09% Turnover: 13%

**Total Securities** 6

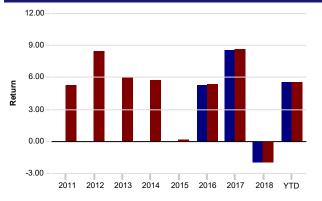
\$37,332 Million Avg. Market Cap

P/E 7.04 P/B 1.58 0.87% Div. Yield Annual EPS 7.99 5Yr EPS 3.50 3Yr EPS Growth 4.20

	Portfolio	Benchmark	Peer Median
Standard Deviation	3.42	3.42	4.31
Beta	1.00	1.00	1.22
Sharpe Ratio	1.09	1.12	1.04
Information Ratio	-0.49	N/A	0.47
Tracking Error	0.17	0.00	1.32
Consistency	44.44	0.00	61.11
Up Market Capture	99.22	100.00	116.17
Down Market Capture	100.91	100.00	127.19
R-Squared	1.00	1.00	0.93

The Fund seeks to provide current income and some capital appreciation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors currently in retirement.

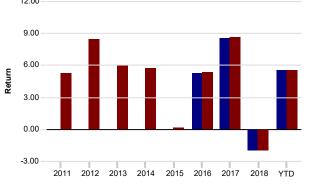
#### Performance Summary (net of fees) Year 1 To 3 5 10 Quarter Year Date Years Years Years Vanguard ITR Inc;Inst (VITRX) 5.58 5.58 4.03 4.96 N/A N/A Vanguard Target Income Composite Index 5.60 5.60 4.06 5.04 4.31 6.85 -0.02 -0.03 -0.08 Excess Return -0.02 N/A N/A



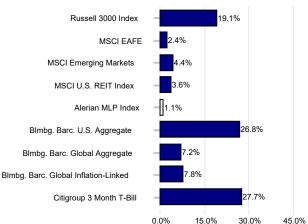


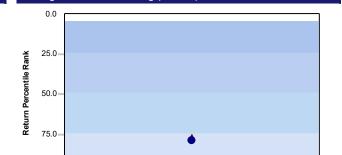
**Calendar Year Returns** 

Vanguard Target Income Composite Index



# Investment Style Exposure (Returns based ) - 36 Months





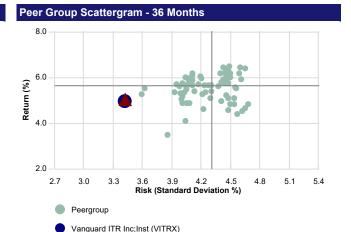
3/19

Rolling Percentile Ranking (Return)- 36 Months

Vanguard ITR Inc;Inst (VITRX)

100.0

Vanguard Target Income Composite Index



Vanguard Target Income Composite Index

Vanguard ITR 2015;Inst (VITVX)

As of March 31, 2019

Vanguard ITR 2015;Inst (VITVX) Product Name:

Fund Family: Vanguard Group Inc

VITVX Ticker:

IM Mixed-Asset Target 2015 (MF) Peer Group:

Vanguard Target 2015 Composite Index Benchmark:

06/26/2015 Fund Inception:

Buek/Coleman/Nejman Portfolio Manager:

Total Assets: \$8,497 Million Total Assets Date: 03/31/2019 Gross Expense: 0.09% Net Expense: 0.09% Turnover: 15%

**Total Securities** 6

\$48,565 Million Avg. Market Cap

P/E 9.15 P/B 2.05 Div. Yield 1.14% Annual EPS 10.39 5Yr EPS 4.55 3Yr EPS Growth 5.46

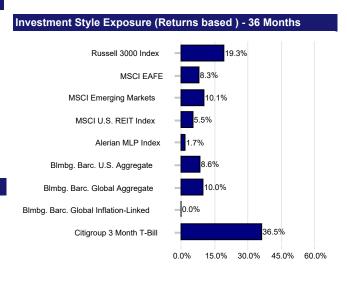
	Portfolio	Benchmark	Peer Median
Standard Deviation	4.31	4.34	4.98
Beta	0.99	1.00	1.13
Sharpe Ratio	1.17	1.19	1.04
Information Ratio	-0.50	N/A	-0.20
Tracking Error	0.21	0.00	1.10
Consistency	47.22	0.00	50.00
Up Market Capture	98.65	100.00	102.77
Down Market Capture	99.31	100.00	113.38
R-Squared	1.00	1.00	0.97

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2015.

#### Performance Summary (net of fees) Year To 3 5 10 Quarter Year Years Date Years Years Vanguard ITR 2015;Inst (VITVX) 6.49 6.49 3.92 N/A N/A 6.33 Vanguard Target 2015 Composite Index 6.53 6.53 4.06 6.44 5.16 9.38 N/A Excess Return -0.04-0.04 -0.14-0.11 N/A



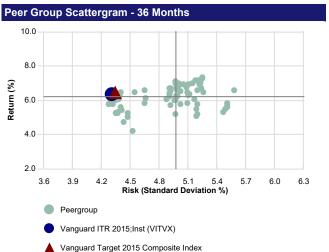
Vanguard Target 2015 Composite Index





Vanguard ITR 2015;Inst (VITVX)

Vanguard Target 2015 Composite Index



Vanguard ITR 2020;Inst (VITWX)

As of March 31, 2019

### **Fund Information**

Vanguard ITR 2020;Inst (VITWX) Product Name:

Fund Family: Vanguard Group Inc

VITWX Ticker:

IM Mixed-Asset Target 2020 (MF) Peer Group: Benchmark: Vanguard Target 2020 Composite Index

06/26/2015 Fund Inception: Coleman/Nejman Portfolio Manager: Total Assets: \$23.259 Million Total Assets Date: 03/31/2019 Gross Expense: 0.09% Net Expense: 0.09% Turnover: 8%

#### Fund Characteristics As of 02/28/2019

**Total Securities** 

\$64,922 Million Avg. Market Cap

P/E 12.24 P/B 2.74 1.52% Div. Yield Annual EPS 13.88 5Yr EPS 6.07 3Yr EPS Growth 7.30

#### Portfolio Statistics - 36 Months

	Portfolio	Benchmark	Peer Median
Standard Deviation	5.50	5.51	5.35
Beta	1.00	1.00	0.96
Sharpe Ratio	1.12	1.14	1.00
Information Ratio	-0.54	N/A	-0.83
Tracking Error	0.25	0.00	0.99
Consistency	44.44	0.00	38.89
Up Market Capture	98.97	100.00	91.03
Down Market Capture	100.43	100.00	99.60
R-Squared	1.00	1.00	0.98

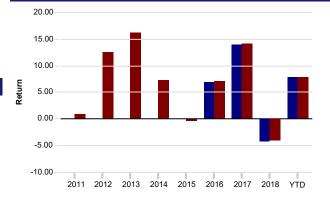
#### **Fund Objective**

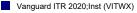
The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2020.

#### Performance Summary (net of fees) Year To

Quarter Year Years Date Years Years Vanguard ITR 2020;Inst (VITWX) 7.80 7.80 3.86 7.42 N/A N/A Vanguard Target 2020 Composite Index 7.88 7.88 4.08 7.57 5.86 10.42 -0.08 -0.22 N/A Excess Return -0.08 -0.15 N/A

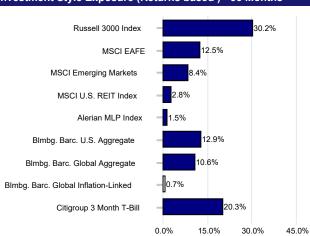
### **Calendar Year Returns**





Vanguard Target 2020 Composite Index

### Investment Style Exposure (Returns based ) - 36 Months

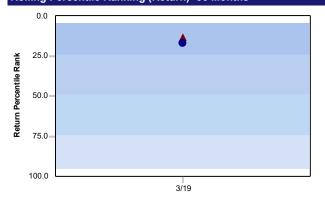


#### Rolling Percentile Ranking (Return)- 36 Months

3

5

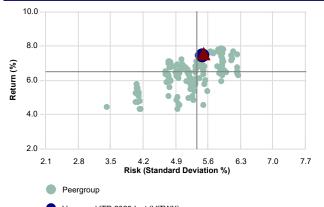
10



Vanguard ITR 2020;Inst (VITWX)

Vanguard Target 2020 Composite Index

### Peer Group Scattergram - 36 Months



Vanguard ITR 2020;Inst (VITWX)

Vanguard Target 2020 Composite Index

Vanguard ITR 2025;Inst (VRIVX)

As of March 31, 2019

### **Fund Information**

Product Name: Vanguard ITR 2025;Inst (VRIVX)

Fund Family: Vanguard Group Inc

Ticker: VRIVX

Peer Group: IM Mixed-Asset Target 2025 (MF)
Benchmark: Vanguard Target 2025 Composite Index

Fund Inception: 06/26/2015
Portfolio Manager: Coleman/Nejman
Total Assets: \$30,690 Million

 Total Assets Date :
 03/31/2019

 Gross Expense :
 0.09%

 Net Expense :
 0.09%

 Turnover :
 9%

#### Fund Characteristics As of 02/28/2019

Total Securities 5

Avg. Market Cap \$76,434 Million

 P/E
 14.37

 P/B
 3.22

 Div. Yield
 1.78%

 Annual EPS
 16.29

 5Yr EPS
 7.13

 3Yr EPS Growth
 8.56

#### Portfolio Statistics - 36 Months

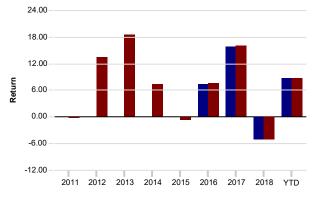
	Portfolio	Benchmark	Peer Median
Standard Deviation	6.35	6.37	6.28
Beta	1.00	1.00	0.97
Sharpe Ratio	1.10	1.11	1.02
Information Ratio	-0.41	N/A	-0.82
Tracking Error	0.30	0.00	1.09
Consistency	47.22	0.00	38.89
Up Market Capture	99.20	100.00	93.47
Down Market Capture	100.40	100.00	99.02
R-Squared	1.00	1.00	0.98

#### **Fund Objective**

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2025.

#### Performance Summary (net of fees) Year To 1 3 5 10 Quarter Year Years Date Years Years Vanguard ITR 2025;Inst (VRIVX) 8.79 8.79 3.91 N/A 8.25 N/A 6.28 Vanguard Target 2025 Composite Index 8.87 8.87 4.12 8.38 11.18 Excess Return -0.08 -0.21 N/A -0.08 -0.13 N/A

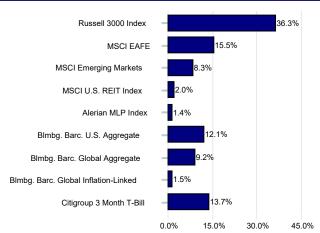
### Calendar Year Returns



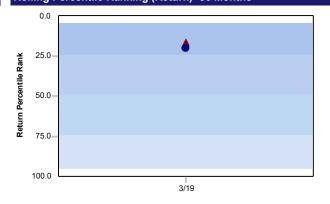
Vanguard ITR 2025;Inst (VRIVX)

Vanguard Target 2025 Composite Index

### Investment Style Exposure (Returns based ) - 36 Months



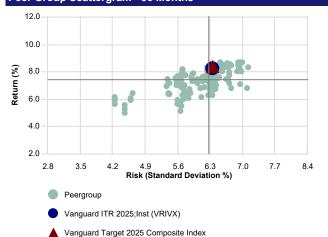
#### Rolling Percentile Ranking (Return)- 36 Months



Vanguard ITR 2025;Inst (VRIVX)

▲ Vanguard Target 2025 Composite Index

### Peer Group Scattergram - 36 Months



\*Segal Marco Advisors

Vanguard ITR 2030;Inst (VTTWX)

As of March 31, 2019

### Fund Information

Product Name: Vanguard ITR 2030;Inst (VTTWX)

Fund Family: Vanguard Group Inc

Ticker: VTTWX

Peer Group: IM Mixed-Asset Target 2030 (MF)
Benchmark: Vanguard Target 2030 Composite Index

 Fund Inception:
 06/26/2015

 Portfolio Manager:
 Coleman/Nejman

 Total Assets:
 \$28,713 Million

 Total Assets Date:
 03/31/2019

 Gross Expense:
 0.09%

 Net Expense:
 0.09%

 Turnover:
 7%

#### Fund Characteristics As of 02/28/2019

Total Securities

Avg. Market Cap \$85,435 Million

 P/E
 16.07

 P/B
 3.60

 Div. Yield
 1.99%

 Annual EPS
 18.22

 5Yr EPS
 7.97

 3Yr EPS Growth
 9.58

#### Portfolio Statistics - 36 Months

	Portfolio	Benchmark	Peer Mediar
Standard Deviation	7.08	7.08	7.15
Beta	1.00	1.00	1.00
Sharpe Ratio	1.08	1.10	1.00
Information Ratio	-0.39	N/A	-0.57
Tracking Error	0.35	0.00	1.19
Consistency	50.00	0.00	41.67
Up Market Capture	99.19	100.00	97.32
Down Market Capture	100.31	100.00	101.70
R-Squared	1.00	1.00	0.98

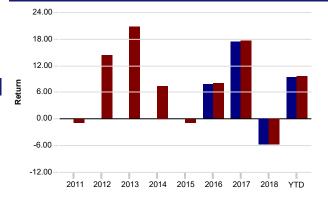
#### **Fund Objective**

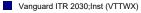
The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2030.

# Performance Summary (net of fees) Year 1 To 1 3 Quarter Date Year Years

Years Years Vanguard ITR 2030;Inst (VTTWX) 9.56 9.56 3.77 8.92 N/A N/A Vanguard Target 2030 Composite Index 9.58 9.58 4.02 9.06 6.60 11.88 -0.02 -0.25 N/A Excess Return -0.02 -0.14 N/A

### Calendar Year Returns



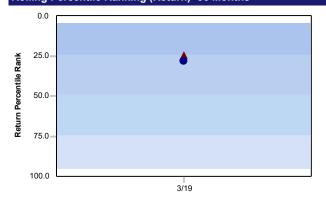


Vanguard Target 2030 Composite Index

### Investment Style Exposure (Returns based ) - 36 Months



#### Rolling Percentile Ranking (Return)- 36 Months



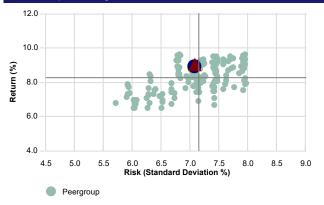
5

10

Vanguard ITR 2030;Inst (VTTWX)

Vanguard Target 2030 Composite Index

### Peer Group Scattergram - 36 Months



Vanguard ITR 2030;Inst (VTTWX)

▲ Vanguard Target 2030 Composite Index

Vanguard ITR 2035;Inst (VITFX)

As of March 31, 2019

### **Fund Information**

Vanguard ITR 2035;Inst (VITFX) Product Name:

Fund Family: Vanguard Group Inc

VITFX Ticker:

IM Mixed-Asset Target 2035 (MF) Peer Group:

Benchmark: Vanguard Target 2035 Composite Index

06/26/2015 Fund Inception: Portfolio Manager: Coleman/Nejman Total Assets: \$26.191 Million Total Assets Date: 03/31/2019 Gross Expense: 0.09%

Net Expense: 0.09% Turnover: 8%

#### Fund Characteristics As of 02/28/2019

**Total Securities** 

\$94,454 Million Avg. Market Cap

P/E 17.77 P/B 3.98 2.20% Div. Yield Annual EPS 20.14 5Yr EPS 8.82 3Yr EPS Growth 10.59

#### Portfolio Statistics - 36 Months

	Portfolio	Benchmark	Peer Median
Standard Deviation	7.81	7.81	8.04
Beta	1.00	1.00	1.02
Sharpe Ratio	1.06	1.08	0.99
Information Ratio	-0.35	N/A	-0.46
Tracking Error	0.38	0.00	1.25
Consistency	50.00	0.00	43.06
Up Market Capture	99.32	100.00	98.59
Down Market Capture	100.43	100.00	103.03
R-Squared	1.00	1.00	0.98

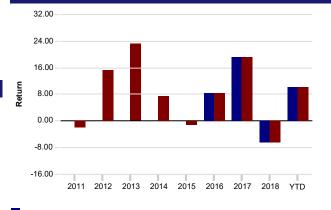
#### **Fund Objective**

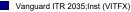
The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2035.

#### Performance Summary (net of fees) Year To 3 5 10 Quarter Year Years Date Years Years Vanguard ITR 2035;Inst (VITFX) 10.28 10.28 3.62 9.58 N/A N/A Vanguard Target 2035 Composite Index 10.30 10.30 3.89 9.73 6.92 12.52 Excess Return -0.02 -0.27 N/A

-0.02

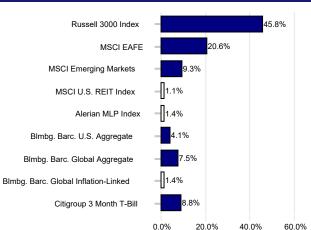
#### **Calendar Year Returns**





Vanguard Target 2035 Composite Index

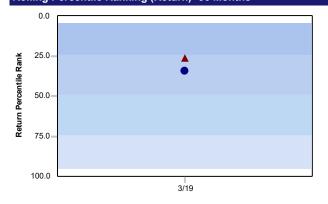
### Investment Style Exposure (Returns based ) - 36 Months



#### Rolling Percentile Ranking (Return)- 36 Months

-0.15

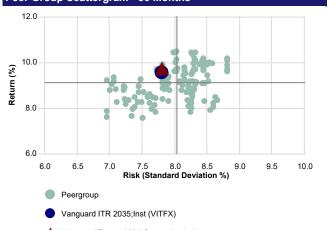
N/A



Vanguard ITR 2035;Inst (VITFX)

Vanguard Target 2035 Composite Index

### Peer Group Scattergram - 36 Months



Vanguard Target 2035 Composite Index

Vanguard ITR 2040;Inst (VIRSX)

As of March 31, 2019

### **Fund Information**

Product Name: Vanguard ITR 2040;Inst (VIRSX)

Fund Family: Vanguard Group Inc

Ticker: VIRSX

Peer Group: IM Mixed-Asset Target 2040 (MF)
Benchmark: Vanguard Target 2040 Composite Index

 Fund Inception:
 06/26/2015

 Portfolio Manager:
 Coleman/Nejman

 Total Assets:
 \$22,894 Million

 Total Assets Date:
 03/31/2019

 Gross Expense:
 0.09%

 Net Expense:
 0.09%

#### Fund Characteristics As of 02/28/2019

7%

Total Securities

Turnover:

Avg. Market Cap \$103,666 Million

 P/E
 19.50

 P/B
 4.37

 Div. Yield
 2.41%

 Annual EPS
 22.11

 5Yr EPS
 9.68

 3Yr EPS Growth
 11.62

#### Portfolio Statistics - 36 Months

	Portfolio	Benchmark	Peer Median
Standard Deviation	8.57	8.55	8.66
Beta	1.00	1.00	1.01
Sharpe Ratio	1.05	1.06	0.96
Information Ratio	-0.27	N/A	-0.61
Tracking Error	0.44	0.00	1.27
Consistency	47.22	0.00	41.67
Up Market Capture	99.28	100.00	96.73
Down Market Capture	99.97	100.00	100.65
R-Squared	1.00	1.00	0.98

#### **Fund Objective**

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2040.

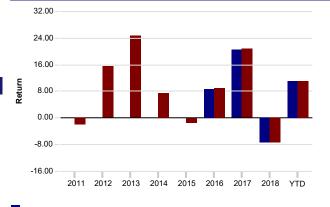
#### Performance Summary (net of fees) Year To 3 5 10 Quarter Year Years Date Years Years Vanguard ITR 2040;Inst (VIRSX) 11.00 11.00 3.45 10.25 N/A N/A Vanguard Target 2040 Composite Index 11.03 11.03 3.73 10.38 7.21 12.83

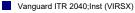
-0.03

-0.03

### Calendar Year Returns

Excess Return





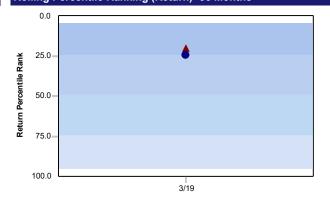
Vanguard Target 2040 Composite Index

### Investment Style Exposure (Returns based ) - 36 Months



#### Rolling Percentile Ranking (Return)- 36 Months

-0.13



N/A

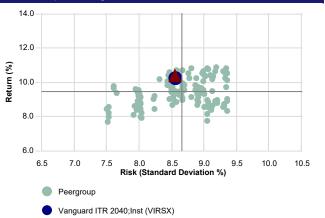
N/A

Vanguard ITR 2040;Inst (VIRSX)

-0.28

▲ Vanguard Target 2040 Composite Index

### Peer Group Scattergram - 36 Months



Vanguard Target 2040 Composite Index

\_\_\_\_\_

Vanguard ITR 2045;Inst (VITLX)

As of March 31, 2019

# Fund Information

Product Name: Vanguard ITR 2045;Inst (VITLX)

Fund Family: Vanguard Group Inc

Ticker: VITLX

Peer Group: IM Mixed-Asset Target 2045 (MF)

Benchmark: Vanguard Target 2045 Composite Index

Fund Inception: 06/26/2015
Portfolio Manager: Coleman/Nejman
Total Assets : \$19,317 Million
Total Assets Date: 03/31/2019

Gross Expense: 0.09%
Net Expense: 0.09%
Turnover: 6%

#### Fund Characteristics As of 02/28/2019

Total Securities

Avg. Market Cap

\$110,460 Million

P/E 20.80
P/B 4.66
Div. Yield 2.58%
Annual EPS 23.59
5Yr EPS 10.32
3Yr EPS Growth 12.40

### Portfolio Statistics - 36 Months

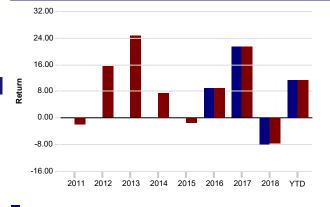
	Portfolio	Benchmark	Peer Median
Standard Deviation	9.02	9.01	9.07
Beta	1.00	1.00	0.99
Sharpe Ratio	1.02	1.04	0.96
Information Ratio	-0.24	N/A	-0.60
Tracking Error	0.46	0.00	1.27
Consistency	52.78	0.00	41.67
Up Market Capture	99.16	100.00	96.73
Down Market Capture	99.47	100.00	100.50
R-Squared	1.00	1.00	0.98

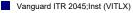
#### **Fund Objective**

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2045.

#### Performance Summary (net of fees) Year To 3 5 10 Year Years Quarter Date Years Years Vanguard ITR 2045;Inst (VITLX) 11.54 11.54 3.33 10.49 N/A N/A Vanguard Target 2045 Composite Index 11.57 11.57 3.63 10.62 7.34 12.90 -0.03 -0.30 N/A Excess Return -0.03 -0.13 N/A

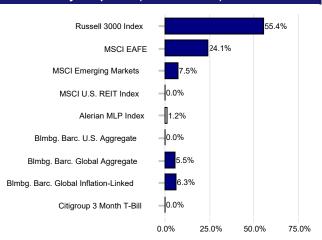
#### **Calendar Year Returns**



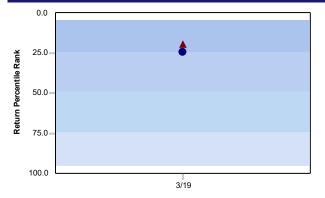


Vanguard Target 2045 Composite Index

### Investment Style Exposure (Returns based ) - 36 Months



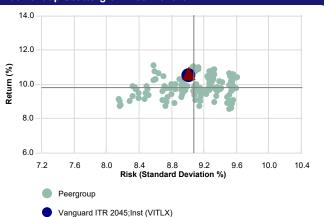
#### Rolling Percentile Ranking (Return)- 36 Months



Vanguard ITR 2045;Inst (VITLX)

Vanguard Target 2045 Composite Index

### Peer Group Scattergram - 36 Months



Vanguard Target 2045 Composite Index

\*Segal Marco Advisors

Vanguard ITR 2050;Inst (VTRLX)

As of March 31, 2019

### Fund Information

Product Name : Vanguard ITR 2050;Inst (VTRLX)

Fund Family: Vanguard Group Inc

Ticker: VTRLX

Peer Group: IM Mixed-Asset Target 2050 (MF)
Benchmark: Vanguard Target 2050 Composite Index

Fund Inception: 06/26/2015
Portfolio Manager: Coleman/Nejman
Total Assets: \$14,148 Million
Total Assets Date: 03/31/2019
Gross Expense: 0.09%
Net Expense: 0.09%
Turnover: 5%

#### Fund Characteristics As of 02/28/2019

Total Securities

Avg. Market Cap

\$110,359 Million

P/E 20.79
P/B 4.66
Div. Yield 2.58%
Annual EPS 23.59
5Yr EPS 10.32
3Yr EPS Growth 12.40

#### Portfolio Statistics - 36 Months

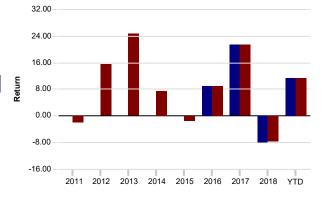
	Portfolio	Benchmark	Peer Median
Standard Deviation	9.02	9.01	9.15
Beta	1.00	1.00	1.01
Sharpe Ratio	1.02	1.04	0.95
Information Ratio	-0.29	N/A	-0.49
Tracking Error	0.46	0.00	1.31
Consistency	47.22	0.00	41.67
Up Market Capture	99.01	100.00	98.16
Down Market Capture	99.39	100.00	102.38
R-Squared	1.00	1.00	0.98

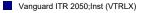
#### **Fund Objective**

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2050.

#### Performance Summary (net of fees) Year To 1 3 5 10 Quarter Years Date Year Years Years Vanguard ITR 2050;Inst (VTRLX) 11.52 11.52 3.31 10.47 N/A N/A Vanguard Target 2050 Composite Index 11.57 11.57 3.63 10.62 7.34 12.90 -0.05 -0.32 N/A Excess Return -0.05 -0.15N/A

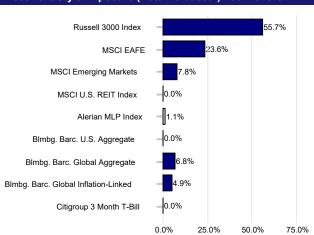
### Calendar Year Returns



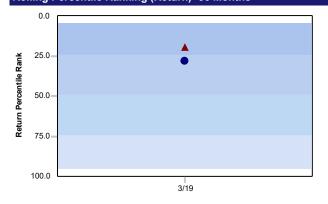


Vanguard Target 2050 Composite Index

### Investment Style Exposure (Returns based ) - 36 Months



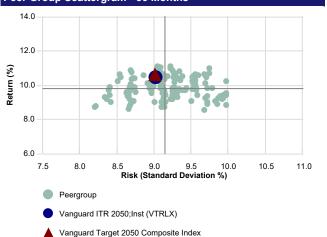
#### Rolling Percentile Ranking (Return)- 36 Months



Vanguard ITR 2050;Inst (VTRLX)

▲ Vanguard Target 2050 Composite Index

### Peer Group Scattergram - 36 Months



Vanguard ITR 2055;Inst (VIVLX)

As of March 31, 2019

### **Fund Information**

Vanguard ITR 2055;Inst (VIVLX) Product Name:

Fund Family: Vanguard Group Inc

VIVLX Ticker:

IM Mixed-Asset Target 2055 (MF) Peer Group:

Benchmark: Vanguard Target 2055 Composite Index

06/26/2015 Fund Inception: Coleman/Nejman Portfolio Manager: Total Assets: \$6.605 Million Total Assets Date: 03/31/2019 Gross Expense: 0.09%

Net Expense: 0.09% Turnover: 5%

#### Fund Characteristics As of 02/28/2019

**Total Securities** 

\$110,290 Million Avg. Market Cap

P/E 20.78 P/B 4.65 2.58% Div. Yield Annual EPS 23.58 5Yr EPS 10.32 3Yr FPS Growth 12 40

#### Portfolio Statistics - 36 Months

	Portfolio	Benchmark	Peer Median
Standard Deviation	9.00	9.01	9.19
Beta	1.00	1.00	1.01
Sharpe Ratio	1.03	1.04	0.96
Information Ratio	-0.25	N/A	-0.44
Tracking Error	0.46	0.00	1.28
Consistency	44.44	0.00	44.44
Up Market Capture	99.07	100.00	98.54
Down Market Capture	99.34	100.00	102.76
R-Squared	1.00	1.00	0.98

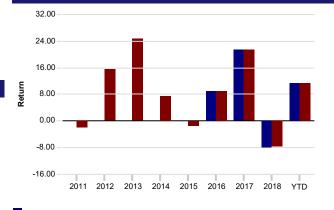
#### **Fund Objective**

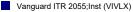
The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2055.

#### Performance Summary (net of fees) Year To 3 5 10 Quarter Year Years Years Date Years Vanguard ITR 2055;Inst (VIVLX) 11.53 11.53 3.36 10.49 N/A N/A Vanguard Target 2055 Composite Index 11.57 11.57 3.63 10.62 7.34 N/A Excess Return -0.04 -0.27 N/A

-0.04

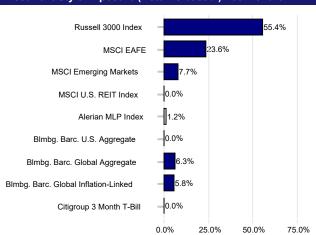
#### **Calendar Year Returns**





Vanguard Target 2055 Composite Index

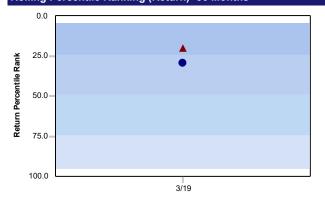
### Investment Style Exposure (Returns based ) - 36 Months



#### Rolling Percentile Ranking (Return)- 36 Months

-0.13

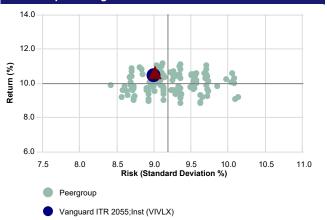
N/A



Vanguard ITR 2055;Inst (VIVLX)

Vanguard Target 2055 Composite Index

### Peer Group Scattergram - 36 Months



Vanguard Target 2055 Composite Index

Vanguard ITR 2060;Inst (VILVX)

As of March 31, 2019

### Fund Information

Product Name: Vanguard ITR 2060;Inst (VILVX)

Fund Family: Vanguard Group Inc

Ticker: VILVX

Peer Group: IM Mixed-Asset Target 2060+ (MF)
Benchmark: Vanguard Target 2060 Composite Index

Fund Inception: 06/26/2015
Portfolio Manager: Coleman/Nejman
Total Assets: \$1,982 Million
Total Assets Date: 03/31/2019
Gross Expense: 0.09%

Net Expense: 0.09% Turnover: 5%

#### Fund Characteristics As of 02/28/2019

Total Securities

Avg. Market Cap \$110,282 Million

P/E 20.78
P/B 4.65
Div. Yield 2.58%
Annual EPS 23.58
5Yr EPS 10.32
3Yr EPS Growth 12.40

### Portfolio Statistics - 36 Months

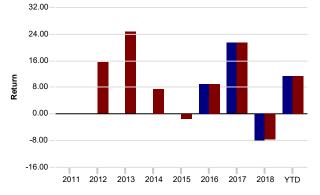
	Portfolio	Benchmark	Peer Median
Standard Deviation	9.05	9.01	9.29
Beta	1.00	1.00	1.03
Sharpe Ratio	1.02	1.04	0.97
Information Ratio	-0.27	N/A	-0.24
Tracking Error	0.46	0.00	1.28
Consistency	47.22	0.00	44.44
Up Market Capture	99.26	100.00	99.91
Down Market Capture	99.93	100.00	103.98
R-Squared	1.00	1.00	0.98

#### **Fund Objective**

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2060.

#### Performance Summary (net of fees) Year To 1 3 5 10 Quarter Year Years Years Date Years Vanguard ITR 2060;Inst (VILVX) 11.53 11.53 3.31 10.47 N/A N/A Vanguard Target 2060 Composite Index 11.57 11.57 3.63 10.62 7.34 N/A Excess Return -0.04 -0.32 N/A -0.04-0.15N/A

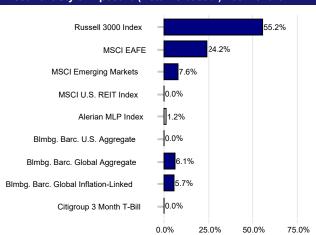
# Calendar Year Returns



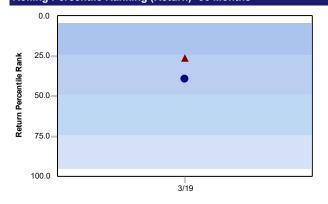


Vanguard Target 2060 Composite Index

### Investment Style Exposure (Returns based ) - 36 Months



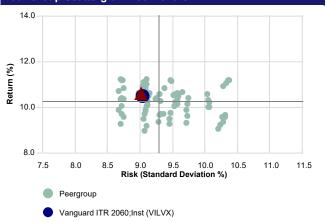
#### Rolling Percentile Ranking (Return)- 36 Months



Vanguard ITR 2060;Inst (VILVX)

Vanguard Target 2060 Composite Index

### Peer Group Scattergram - 36 Months



Vanguard Target 2060 Composite Index

Vanguard ITR 2065;Inst (VSXFX)

As of March 31, 2019

### **Fund Information**

Vanguard ITR 2065;Inst (VSXFX) Product Name:

Fund Family: Vanguard Group Inc

VSXFX Ticker:

IM Mixed-Asset Target 2060+ (MF) Peer Group: Benchmark: Vanguard Target 2060 Composite Index

07/12/2017 Fund Inception: Portfolio Manager: Coleman/Nejman Total Assets: \$167 Million Total Assets Date: 03/31/2019 Gross Expense: 0.09% Net Expense: 0.09%

#### Fund Characteristics As of 12/31/2018

28%

**Total Securities** 

Turnover:

\$102,649 Million Avg. Market Cap

P/E 19.73 P/B 4.45 Div. Yield 2.72% Annual EPS 21.65 5Yr EPS 10.86 3Yr EPS Growth 11.23

### Portfolio Statistics - 36 Months

	Portfolio	Benchmark	Peer Median
Standard Deviation	N/A	9.01	9.29
Beta	N/A	1.00	1.03
Sharpe Ratio	N/A	1.04	0.97
Information Ratio	N/A	N/A	-0.24
Tracking Error	N/A	0.00	1.28
Consistency	N/A	0.00	44.44
Up Market Capture	N/A	100.00	99.91
Down Market Capture	N/A	100.00	103.98
R-Squared	N/A	1.00	0.98

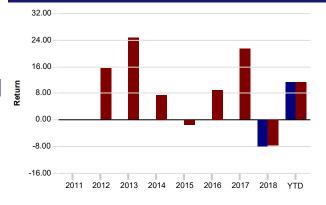
#### **Fund Objective**

The Fund seeks to provide capital appreciation and current income consistent with its current asset allocation. The Fund invests in other Vanguard mutual funds according to an asset allocation strategy designed for investors planning to retire and leave the workforce in or within a few years of 2065.

### Performance Summary (net of fees)

		Year				
	1	To	1	3	5	10
	Quarter	Date	Year	Years	Years	Years
Vanguard ITR 2065;Inst (VSXFX)	11.55	11.55	3.28	N/A	N/A	N/A
Vanguard Target 2060 Composite Index	11.57	11.57	3.63	10.62	7.34	N/A
Excess Return	-0.02	-0.02	-0.35	N/A	N/A	N/A

#### **Calendar Year Returns**



Vanguard ITR 2065;Inst (VSXFX)

Vanguard Target 2060 Composite Index

No data found.

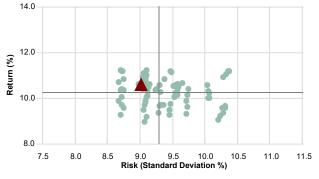
#### Rolling Percentile Ranking (Return)- 36 Months



Vanguard ITR 2065;Inst (VSXFX)

Vanguard Target 2060 Composite Index

# Peer Group Scattergram - 36 Months 14.0



Peergroup

Vanguard ITR 2065;Inst (VSXFX)

▲ Vanguard Target 2060 Composite Index