### State of Wisconsin



# Investment Performance and Expense Ratio Review

Performance as of June 30, 2018

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# **Executive Summary**

# Wisconsin Deferred Compensation Program – Asset Class Coverage

			Core "	Doers"			
Stable Value/ Money Market	Fixed Income	Large Cap Value	Large Cap Core	Large Cap Growth	Mid Cap	Small Cap	Global/ International
FDIC Bank Option, Vanguard Treasury Money Market, Stable Value Fund		American Beacon Bridgeway Large Cap Value		Fidelity Contrafund, Calvert Equity	BlackRock Mid Cap Equity Index, T.Rowe Price Instl Mid-Cap Equity	BlackRock Russell 2000 Index, DFA US Micro Cap	American Funds Europacific Growth, Blackrock EAFE Equity Index
			Asset Allocation	on "Delegators"			
	Balanced/Life	style/Lifecycle			Managed	Accounts	
Vanguar	d Target Retirement	Suite, Vanguard We	ellington	Pro	ofessional Managem	ent Program - Ibbots	son
			Specialty "S	ophisticates"			
E	Brokerage		Ot	her		Company St	ock

Schwab

This graph is intended to show generally the anticipated relationship between various asset classes and the corresponding funds within each asset class available through your plan. Please note this is not intended to predict an actual level of return or risk for these funds. The historical returns and risk for these funds may vary significantly from the linear relationship represented above. Please refer to the funds' prospectuses and shareholder reports for actual return information.

Generally, the asset allocation of each target date fund will change on an annual basis with the asset allocation becoming more conservative as the fund nears the target retirement date. The target date is the approximate date when investors plan to start withdrawing their money.

The principal value of the fund(s) in a plan's lineup is not guaranteed at any time, including at the time of target date and/or withdrawal.



Name	Total Ret 3 Mth	Total Ret 1 Yr	Total Ret 3 Yr	Total Ret 5 Yr	Total Ret 10 Yr	Total Net Assets \$M	Expense Ratio
American Funds EuroPacific Gr R6	-2.82	9.35	6.51	8.34	4.82	163,636	0.49
Morningstar Foreign Large Growth Avg	-0.72	10.53	6.62	7.72	3.92	-	1.18
MSCI EAFE Index	-1.24	6.84	4.90	6.44	2.84	-	-
MSCI ACWI ex U.S.	-2.61	7.28	5.07	5.99	2.54	-	-
Blackrock EAFE Equity Index Coll T	-1.21	7.22	5.21	6.70	3.10	-	0.08
MSCI EAFE Index	-1.24	6.84	4.90	6.44	2.84	-	-
DFA US Micro Cap I	8.31	17.70	11.60	12.98	11.75	7,193	0.52
Morningstar Small Cap Blend Avg	6.31	14.67	9.41	11.02	9.73	-	1.18
Russell 2000 Index	7.75	17.57	10.96	12.46	10.60	-	-
Blackrock Russell 2000 Index Coll T	7.74	17.76	11.19	12.68	10.78	-	0.07
Russell 2000 Index	7.75	17.57	10.96	12.46	10.60	-	-
T. Rowe Price Mid-Cap Growth	0.91	14.37	11.23	14.88	12.03	31,845	0.76
Morningstar Mid Cap Growth Avg	4.16	18.06	9.68	12.31	9.45	-	1.21
Russell Mid Cap Growth Index	3.16	18.52	10.73	13.37	10.45	-	-
S&P Midcap 400 Index	4.29	13.50	10.89	12.69	10.78	-	-
Blackrock Midcap Equity Index Coll F	4.31	13.54	10.93	12.72	10.82	-	0.04
S&P MidCap 400 Index	4.29	13.50	10.89	12.69	10.78	-	-
Calvert Equity I	3.00	18.46	11.32	13.74	10.05	2,392	0.71
S&P 500 Index	3.43	14.37	11.93	13.42	10.17	-	-
Morningstar Socially Resp Large Cap Avg**	2.80	13.63	10.16	11.96	9.00	-	0.90
Morningstar Large Cap Growth Avg	5.13	20.58	12.21	14.37	10.23	-	1.10
Fidelity Contrafund	6.28	22.14	14.31	15.67	10.72	130,952	0.74
Morningstar Large Cap Growth Avg	5.13	20.58	12.21	14.37	10.23	-	1.10
Russell 1000 Growth Index	5.76	22.51	14.98	16.36	11.83	-	-
S&P 500 Index	3.43	14.37	11.93	13.42	10.17	-	-
American Beacon Bridgeway Lg Cap Value I CIT*	-1.14	10.73	8.94	12.08	10.20	5,321	0.55
Morningstar Large Cap Value Avg	1.18	6.77	8.26	10.34	8.49	<u>-</u>	-
Russell 1000 Value Index	1.63	9.04	8.35	9.94	8.30	-	-

<sup>\*</sup> The American Beacon CIT is newly established. Returns presented in italics are linked to mutual fund performance.

<sup>\*\*</sup>This index is a compilation of all Large Cap Socially Conscious Funds in the Morningstar Database

# Performance Benchmarking

Name	Total Ret 3 Mth	Total Ret 1 Yr	Total Ret 3 Yr	Total Ret 5 Yr	Total Ret 10 Yr	Total Net Assets \$M	Expense Ratio
Vanguard Institutional Index InstI PI	3.43	14.36	11.92	13.41	10.19	231,559	0.02
S&P 500 Index	3.43	14.37	11.93	13.42	10.17	-	-
Vanguard Wellington Adm	0.77	6.90	7.97	8.86	8.08	104,970	0.17
Morningstar Moderate Allocation Avg	1.16	6.58	5.59	6.85	6.27	-	1.15
Composite 65% S&P 500 / 35% Barclay's Aggregate	2.18	9.20	8.36	9.52	7.91	-	-
Composite 65% S&P 500 / 35% Barclay's U.S. Credit A or Better ldx	1.93	8.99	8.75	9.90	8.34	-	-
Vanguard Long-Term Investment-Grade Adm	-2.14	-1.51	5.14	5.75	7.38	16,462	0.12
Barclay's LT Corporate A	-0.86	-1.01	2.84	3.37	4.93	-	-
Morningstar Corp Bond	-0.81	-0.68	2.88	3.49	5.05	-	0.84
Blackrock US Debt Index Fund Coll W	-0.14	-0.36	1.77	2.33	3.78	-	0.05
BarCap US Agg Bond TR USD	-0.16	-0.40	1.72	2.27	3.72	-	-
Federated US Govt 2-5 Yr Instl	-0.16	-1.25	-0.04	0.29	1.77	285	0.59
Morningstar Short Government Avg	0.19	-0.06	0.28	0.49	1.39	-	0.73
Barclay's US Treas/Agency 3-5 Yr	-0.01	-0.98	0.61	1.13	2.67	-	-
BofA Merrill Lynch US Treas 3-5 Yr	-0.01	-0.95	0.60	1.12	2.63	-	-
Vanguard Admiral Treasury Money Mkt Inv	0.42	1.26	0.61	0.37	0.29	18,131	0.09
Morningstar Taxable Money Mkt Avg	0.34	0.92	0.39	0.24	0.20	-	0.49
U.S. Treasury 90-Day T-Bill	0.46	1.41	0.71	0.44	0.31	-	-
iMoney Net Average Treasury MM	0.32	0.77	0.29	0.18	0.12	-	-
Stable Value Fund	0.55	2.06	1.94	1.88	2.72	662	0.34
5 Yr. Constant Maturity Treasury Yield	0.69	2.30	1.78	1.70	1.67	-	-

3-Year Percentile Ranks

## **Name**

American Funds EuroPacific Gr R6
Calvert Equity I
DFA U.S. Micro Cap
Federated U.S. Govt: 2-5 Yr Instl
Fidelity Contrafund
T. Rowe Price Mid-Cap Growth
Vanguard Institutional Index Instl PI
Vanguard Long-Term Inv Grade Adm
Vanguard Wellington Adm

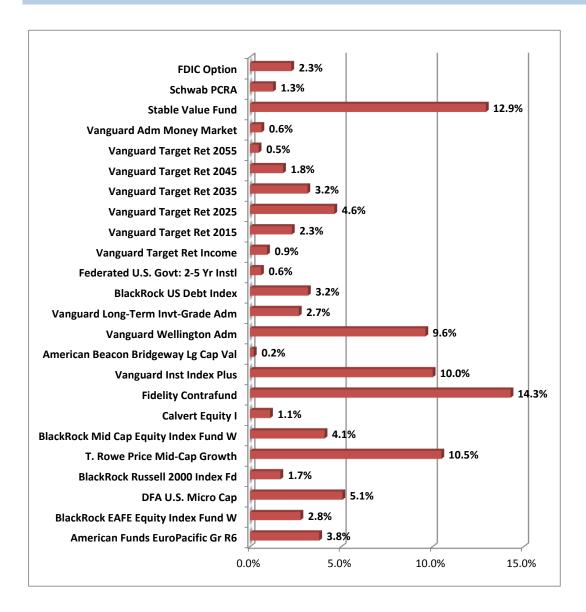
<u>2018</u>	<u>2018</u>	2017	2017	2017	2017	2016	<u>2016</u>	<u>2016</u>	<u>2016</u>	<u>2015</u>	<u>2015</u>
<u>Q2</u>	<u>Q1</u>	<u>Q4</u>	<u>Q3</u>	<u>Q2</u>	<u>Q1</u>	<u>Q4</u>	<u>Q3</u>	<u>Q2</u>	<u>Q1</u>	<u>Q4</u>	<u>Q3</u>
56	66	68	69	79	77	80	80	66	66	64	69
35	46	38	44	52	44	52	71	62	61	40	61
83	80	75	82	77	61	71	63	61	82	79	73
14	14	30	55	47	60	45	63	70	38	19	30
79	79	80	71	75	69	59	63	60	63	59	59
71	88	92	96	97	96	95	98	98	99	97	98
89	88	87	87	91	94	95	95	90	89	84	74
98	86	96	99	99	99	99	100	100	100	98	69
93	97	97	97	96	96	97	94	94	92	88	88

1st Quartile	76-100
2nd Quartile	51-75
3rd Quartile	26-50
4th Quartile	1-25

Asset Summary 6/29/2018

							Percentage of WDC
	Plan Inception		WDC Assets in	WDC as a Percentage of	Fund as a Percentage of	Number of	Participants Utilizing
	Date	Fund Net Assets	Fund	Fund Assets	WDC Assets	Participants	Fund
American Funds EuroPacific Gr R6	1/28/2005	\$163,636,333,258	\$194,226,010	0.12%	3.80%	21,752	34.30%
BlackRock EAFE Equity Index Fund W	2/1/2001	N/A	\$141,673,952	N/A	2.77%	18,345	28.93%
DFA U.S. Micro Cap	2/1/1997	\$7,192,542,990	\$259,335,685	3.61%	5.07%	12,740	20.09%
BlackRock Russell 2000 Index Fd	2/20/2004	N/A	\$85,378,276	N/A	1.67%	13,752	21.68%
T. Rowe Price Mid-Cap Growth	2/1/1998	\$31,845,341,357	\$536,809,577	1.69%	10.49%	29,676	46.79%
BlackRock Mid Cap Equity Index Fund W	2/1/2001	N/A	\$209,339,082	N/A	4.09%	20,255	31.94%
Calvert Equity I	4/18/2003	\$2,391,669,265	\$56,457,872	2.36%	1.10%	3,052	4.81%
Fidelity Contrafund	1/31/1994	\$130,951,635,633	\$730,917,052	0.56%	14.29%	19,433	30.64%
Vanguard Inst Index Plus	9/9/1990	\$231,558,575,983	\$512,515,158	0.22%	10.02%	26,478	41.75%
American Beacon Bridgeway Lg Cap Val	11/1/2017	N/A	\$10,966,373	N/A	0.21%	10,474	16.52%
Vanguard Wellington Adm	10/26/2001	\$104,969,749,009	\$492,114,889	0.47%	9.62%	25,159	39.67%
Vanguard Long-Term Invt-Grade Adm	10/26/2001	\$16,461,707,433	\$137,077,799	0.83%	2.68%	17,328	27.32%
BlackRock US Debt Index	2/1/2001	N/A	\$162,682,233	N/A	3.18%	16,359	25.79%
Federated U.S. Govt: 2-5 Yr Instl	2/3/1992	\$285,417,567	\$31,226,640	10.94%	0.61%	6,090	9.60%
Vanguard Target Ret Income	7/29/2005	\$5,642,111,483	\$48,099,264	0.85%	0.94%	1,887	2.98%
Vanguard Target Ret 2015	7/29/2005	\$8,401,685,951	\$117,661,406	1.40%	2.30%	3,134	4.94%
Vanguard Target Ret 2025	7/29/2005	\$27,584,009,393	\$236,623,460	0.86%	4.62%	6,686	10.54%
Vanguard Target Ret 2035	7/29/2005	\$23,252,503,312	\$161,230,459	0.69%	3.15%	6,809	10.74%
Vanguard Target Ret 2045	7/29/2005	\$16,820,041,902	\$92,870,751	0.55%	1.82%	6,211	9.79%
Vanguard Target Ret 2055	8/18/2010	\$5,167,777,550	\$24,365,065	0.47%	0.48%	3,428	5.41%
Vanguard Adm Money Market	10/1/1993	\$18,131,200,000	\$32,245,466	0.18%	0.63%	6,629	10.45%
Stable Value Fund	9/1/1996	N/A	\$661,708,938	N/A	12.93%	24,434	38.53%
Schwab PCRA	2/17/2000	N/A	\$64,866,600	N/A	1.27%	1,240	1.96%
FDIC Option	12/31/1996	N/A	\$115,902,034	N/A	2.27%	9,878	15.58%

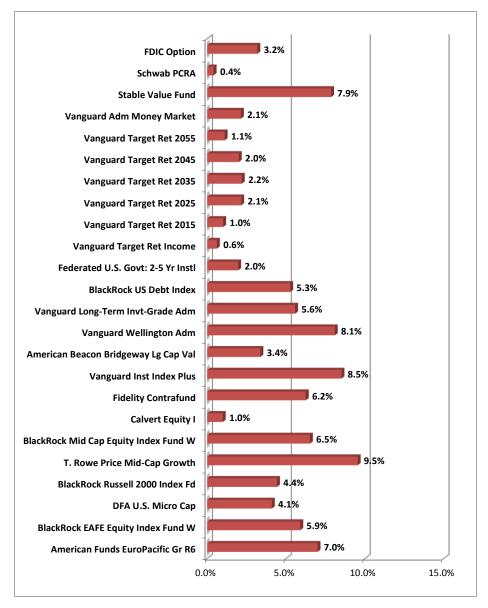
Asset Summary 6/29/2018



### **Total WDC Assets**

# \$5,116,294,039

Domestic Equity	\$2,401,719,073	47%
Intl Equity	\$335,899,962	7%
Asset Allocation	\$1,172,965,295	23%
Fixed Income	\$330,986,672	6%
Cash Equiv.	\$809,856,438	16%
Self-Directed Brok.	\$64,866,600	1%



Total WDC Participants 63,421

# **Expense Summary**

Name	Expense Ratio
American Funds EuroPacific Gr R6	0.49
Cat: Foreign Large Growth	1.18
Blackrock EAFE Equity Index Fund W	0.08
Cat: Foreign Large Blend Index	0.43
DFA U.S. Micro Cap	0.52
Cat: Small Blend	1.18
Blackrock Russell 2000 Index Fd	0.07
Cat: Small Cap Blend Index	0.43
T. Rowe Price Mid-Cap Growth	0.76
Cat: Mid Growth	1.21
Blackrock Mid Cap Equity Index Fund W	0.04
Cat: Mid Cap Blend Index	0.46
Calvert Equity I	0.71
Cat: Socially Resp Large Cap	0.90
Fidelity Contrafund*	0.74
Cat: Large Growth	1.10
Vanguard Inst Index Plus	0.02
Cat: Large Cap Blend Index	0.45
American Beacon Bridgeway Lg Cap Val	0.55
Cat: Large Value	1.01
Stable Value Fund	0.34
Cat: Stable Value	0.71

Asset-Weighted Average	Expense Ratio: 0.28%
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Name	Expense Ratio
Vanguard Wellington Adm	0.17
Cat: Moderate Allocation	1.15
Vanguard Target Retirement 2055 Inv	0.09
Cat: Target Date 2050+	0.82
Vanguard Target Retirement 2045 Inv	0.09
Cat: Target Date 2041-2045	0.81
Vanguard Target Retirement 2035 Inv	0.09
Cat: Target Date 2031-2035	0.81
Vanguard Target Retirement 2025 Inv	0.09
Cat: Target Date 2021-2025	0.79
Vanguard Target Retirement 2015 Inv	0.09
Cat: Target Date 2011-2015	0.74
Vanguard Target Retirement Income Inv	0.09
Cat: Retirement Income	0.79
Vanguard Long-Term Invmt-Grade Adm	0.12
Cat: Corporate Bond	0.84
Blackrock US Debt Index	0.05
Cat: Intermediate Bond Index	0.33
Federated U.S. Govt: 2-5 Yr Instl*	0.59
Cat: Short Government	0.73
Vanguard Adm Money Market	0.09
Average US Taxable Money Market Fund	0.49

<sup>\*</sup> The Fidelity Contrafund and Federated U.S. Govt. 2-5 Yr Fund both share revenue back to the plan's participants, which is not reflected in the expense ratios above. The expense ratios of the funds including this reimbursement would be 0.46 for Contrafund and 0.43 for the Federated fund.



# Target Date Fund Summary

Name	Total Ret 3 Mth	Total Ret 1 Yr	Total Ret 3 Yr	Total Ret 5 Yr	Total Ret 10 Yr	Total Net Assets \$M	Expense Ratio	% Short- Term	% US Stocks	% Non US Stocks	% Inv Grade Bond	% High Yield Bond
Vanguard Target Retirement Income Instl	0.45	4.00	4.15	<i>4.7</i> 9	5.08	5,642	0.09	4	18	11	67	0
S&P Target Date Retirement Income TR USD	0.70	4.23	4.08	4.56	4.50	-	-	-	-	-	-	-
Composite Returns*	0.40	2.86	3.43	4.28	4.30	-	-	-	-	-	-	-
Vanguard Target Retirement 2015 Instl	0.50	5.43	5.14	6.43	5.94	8,402	0.09	3	25	16	56	0
S&P Target Date 2015 TR USD	0.97	5.55	5.33	6.20	5.63	-	-	-	-	-	-	-
Composite Returns*	0.59	4.09	4.12	5.10	4.59	-	-	-	-	-	-	-
Vanguard Target Retirement 2025 Instl	0.70	7.63	6.68	8.11	6.71	27,584	0.09	2	38	24	36	0
S&P Target Date 2025 TR USD	1.24	7.38	6.59	7.60	6.43	-	-	-	-	-	-	-
Composite Returns*	0.97	6.36	5.39	6.61	5.12	-	-	-	-	-	-	-
Vanguard Target Retirement 2035 Instl	0.86	9.33	7.66	9.31	7.29	23,253	0.09	2	46	30	22	0
S&P Target Date 2035 TR USD	1.52	9.47	7.83	8.88	7.00	-	-	-	-	-	-	-
Composite Returns*	1.19	7.84	6.20	7.57	5.42	-	-	-	-	-	-	-
Vanguard Target Retirement 2045 Instl	0.97	10.62	8.40	9.95	7.68	16,820	0.09	2	53	35	10	0
S&P Target Date 2045 TR USD	1.66	10.55	8.52	9.59	7.27	-	-	-	-	-	-	-
Composite Returns*	1.40	9.13	6.89	8.39	5.68	-	-	-	-	-	-	-
Vanguard Target Retirement 2055 Instl	0.97	10.59	8.37	9.92	-	5,168	0.09	2	54	34	10	0
S&P Target Date 2055+ TR USD	1.70	10.96	8.86	10.06	-	-	-	-	-	-	-	-
Composite Returns*	1.44	9.17	6.93	8.43	5.73	-	-	-	-	-	-	-

The Institutional shares of the Vanguard Target Date Funds have an inception date of June 26, 2015. Returns in italics are based on the Investor share class, which has a longer track record.

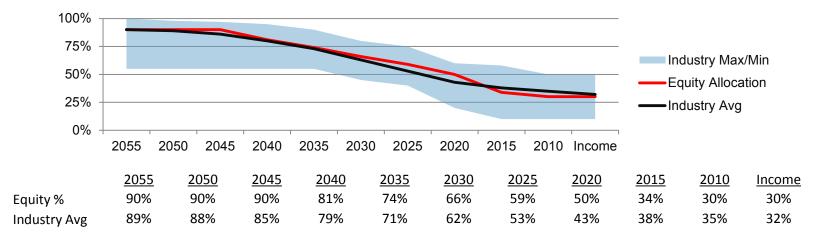


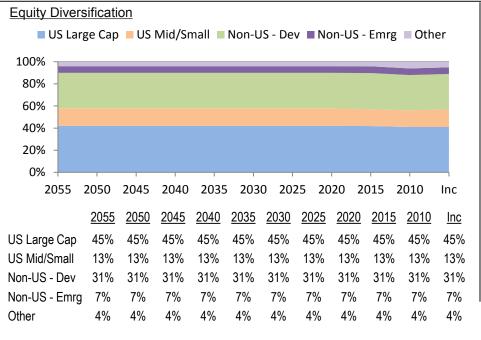
<sup>\*</sup>Composite benchmark consists of the following indices weighted to match the allocation of the specific target date fund: MSCI Broad Market, MSCI EAFE, Barclays Aggregate Bond, and Barclays US Treasury 1-3 Month

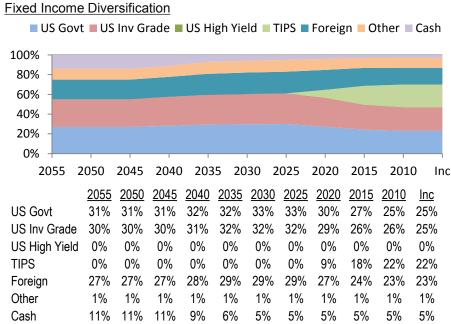
### 6/29/2018

# Glide Path Summary

Data as of June 30, 2018









# **Expense Ratio Information**

6/29/2018

# **Expense Summary**

	Net Expense Ratio	Peer Rank	Gross Expense Ratio	Peer Rank
Cash Equiv				
Stable Value				
Stable Value (Wisconsin)	0.34		0.34	
Fixed Income				
Money Market-Taxable				
Vanguard Treasury Money Market Investor	0.09	1	0.09	1
Money Market-Taxable Median	0.51		0.61	
Short Government				
Federated US Govt 2-5 Yr Instl	0.59	32	0.88	47
Short Government Median	0.76		0.90	
Intermediate-term Bond				
BlackRock US Debt Index-W	0.05	2	0.05	2
Intermediate-Term Bond Median	0.77		0.93	
Corporate Bond				
Vanguard Long-Term Investment-Grade Adm	0.12	15	0.12	13
Corporate Bond Median	0.65		0.80	
Balanced				
Allocation50% to 70% Equity				
Vanguard Wellington Admiral	0.17	1	0.17	1
Allocation50% to 70% Equity Median	1.16		1.31	
Target-Date Retirement				
Vanguard Instl Trgt Retire Inc Instl	0.09	1	0.09	1
Target-Date Retirement Median	0.82		1.17	
Target-Date 2015				
Vanguard Instl Trgt Retire 2015 Instl	0.09	1	0.09	1
Target-Date 2015 Median	0.86		1.24	
Target-Date 2025				
Vanguard Instl Trgt Retire 2025 Instl	0.09	1	0.09	1
Target-Date 2025 Median	0.84		1.14	
Target-Date 2035				
Vanguard Instl Trgt Retire 2035 Instl	0.09	1	0.09	1
Target-Date 2035 Median	0.85		1.17	

6/29/2018

# **Expense Summary**

	Net Expense Ratio	Peer Rank	<b>Gross Expense Ratio</b>	Peer Rank
Target-Date 2045				
Vanguard Instl Trgt Retire 2045 Instl	0.09	1	0.09	1
Target-Date 2045 Median	0.84		1.21	
Target-Date 2055				
Vanguard Instl Trgt Retire 2055 Instl	0.09	2	0.09	1
Target-Date 2055 Median	0.83		1.41	
Equity				
Large Value				
Bridgeway Large Cap Value CIT Class I	0.55	16	0.65	13
Large Value Median	1.05		1.21	
Large Blend				
Vanguard Institutional Index Instl PI	0.02	1	0.02	1
Large Blend Median	1.04		1.22	
Large Growth				
Calvert Equity I	0.71	15	0.71	11
Fidelity Contrafund	0.74	16	0.74	13
Large Growth Median	1.15		1.28	
Mid-Cap Blend				
BlackRock Mid Cap Equity Index- F	0.03	1	0.03	1
Mid-Cap Blend Median	1.11		1.27	
Mid-Cap Growth				
T. Rowe Price Instl Mid-Cap Equity Gr	0.61	4	0.61	3
Mid-Cap Growth Median	1.25		1.46	
Small Blend				
DFA US Micro Cap I	0.52	11	0.52	9
BlackRock Russell 2000 Index-T	0.07	2	0.07	2
Small Blend Median	1.19		1.35	
International				
Foreign Large Blend				
BlackRock EAFE Equity Index-T	0.12	4	0.12	3
Foreign Large Blend Median	1.12		1.32	

Expense Summary 6/29/2018

	Net Expense Ratio	Peer Rank	Gross Expense Ratio	Peer Rank
Foreign Large Growth				
American Funds Europacific Growth R6	0.49	3	0.49	3
Foreign Large Growth Median	1.20		1.38	



# Fund Analysis

Please consider the investment objectives, risks, fees and expenses carefully before investing. The prospectus contains this and other information about the investment options. Depending on the investment options offered in your Plan, your registered representative can provide you with prospectuses for any mutual funds; any applicable annuity contracts and the annuity's underlying funds; and/or disclosure documents for investment options exempt from SEC registration. Please read them carefully before investing.

Past performance is not indicative of future results. Performance includes the reinvestment of any income. Returns will fluctuate; and an investment upon redemption may be worth more or less than its original value. Current performance may be higher or lower than the performance data shown. For up-to-date month end performance information please call 800-345-2345.

Rankings provided based on total return.

Sources: MPI Stylus Web, Morningstar, individual investment managers

# Stable Value (Wisconsin)

#### 6/29/2018

Fund Incep Date: 07/01/1998

Benchmark:

Citi Treasury Bill 3 Mon USD

Category: Stable Value Net Assets: \$661.80M

Manager Name Galliard Capital Management

Manager Start Date : 06/30/1998

Expense Ratio: 0.34% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)

Assets



#### Sector Breakdown

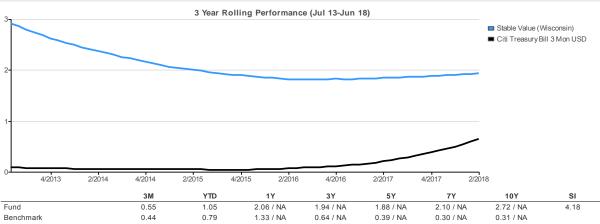
**TOP 10 HOLDINGS** 

Sensitive	
Communication Services	0.00%
Industrials	0.00%
Technology	0.00%
Energy	0.00%
Cyclical	
Basic Materials	0.00%
Consumer Cyclical	0.00%
Real Estate	0.00%
Financial Services	0.00%
Defensive	
Consumer Defensive	0.00%
Healthcare	0.00%
Utilities	0.00%

#### INVESTMENT OVERVIEW

To provide safety of principal and a stable crediting rate, while generating a competitive return.

#### **PERFORMANCE**



CALENDAR	2017	2016	2015	2014	2013	2012	2011	2010	2009
Fund	1.89	1.89	1.85	1.73	2.10	2.63	3.13	3.93	4.32
Benchmark	0.84	0.27	0.03	0.03	0.05	0.07	0.08	0.13	0.16

Total: NA%

#### ASSET LOADINGS (Returns-based)

FUND EXPOSURES (W EIGHT) (Jul 15-Jun 18)

75-50-25-

100-

		Cui	rrent	Ave	rage
		Fund	Bmk	Fund	Bmk
Т	Cash	100.0	100.0	100.0	100.0
1	Mortgages	0.0	0.0	0.0	0.0
- 1	Gov/Corp Bonds	0.0	0.0	0.0	0.0

#### **RISK & PERFORMANCE STATISTICS**

3 Yr Fund Benchmark 1.28 Alpha 0.00 0.89 1.00 Beta 100.00 R-Squared 6.50 Sharpe Ratio 27.16 -0.25 Up Market Capture 303.49 100.00 Down Market Capture NA NA

5 Yr	Fund	Benchmark
Alpha	1.47	0.00
Beta	1.13	1.00
R-Squared	7.65	100.00
Sharpe Ratio	29.27	-0.18
Up Market Capture	475.66	100.00
Down Market Capture	NA	NA

# Vanguard Treasury Money Market Investor VUSXX

0.00%

0.00%

#### 6/29/2018

Fund Incep Date: 12/14/1992

Benchmark:

Citi Treasury Bill 3 Mon

Category: Money Market-Taxable

Net Assets: \$17,407.00M Manager Name:

Manager Start Date:

Expense Ratio: 0.09% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)



Non-US Bonds

Credit Quality (%) AAA AA Α

BBB BB В Below B

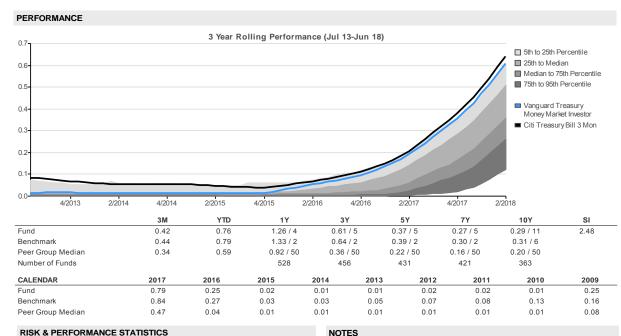
NR/NA Total:

#### Sector (%)

(,-,	
% Government	18.79%
% Municipal	0.00%
% Corporate	0.00%
% Securitized	0.00%
% Cash and Equivalent	81.21%
% Derivative	0.00%
Total:	100.00%

#### INVESTMENT OVERVIEW

The investment seeks to provide current income while maintaining liquidity and a stable share price of \$1. The fund invests solely in high-quality, short-term money market securities whose interest and principal payments are backed by the full faith and credit of the U.S. government. At least 80% of the fund's assets will be invested in U.S. Treasury securities; the remainder of the assets may be invested in securities issued by U.S. governmental agencies. The fund maintains a dollar-weighted average maturity of 60 days or less and a dollar-weighted average life of 120 days or less.



#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.03	0.00	-0.28
Beta	0.99	1.00	0.99
R-Squared	95.16	100.00	45.68
Sharpe Ratio	-0.47	-0.25	-2.44
Up Market Capture	95.02	100.00	56.31
Down Market Capture	NA	NA	NA

Down Market Capture	NA	NA	NA
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.03	0.00	-0.17
Beta	1.00	1.00	1.15
R-Squared	94.86	100.00	33.96
Sharpe Ratio	-0.37	-0.18	-1.83
Up Market Capture	93.21	100.00	54.90
Down Market Capture	NA	NA	NA

#### ASSET LOADINGS (Returns-based)

FUND EXPOSURES (W EIGHT) (Jul 15-Jun 18) 100-75-

50-25-

		Cu	Current		rage
		Fund	Bmk	Fund	Bmk
Т	Cash	100.0	100.0	100.0	100.0
1	Credit Bond	0.0	0.0	0.0	0.0
1	Govt Bond	0.0	0.0	0.0	0.0
	HY Corp Bond	0.0	0.0	0.0	0.0
1	MBS	0.0	0.0	0.0	0.0
1	Muni Bond	0.0	0.0	0.0	0.0
1	TIPS	0.0	0.0	0.0	0.0

### Federated US Govt 2-5 Yr Instl FIGTX

#### 6/29/2018

Fund Incep Date: 02/18/1983

Benchmark:

BofAML US Treasuries 3-5 Yr TR USD

Category: Short Government Net Assets: \$294.00M

Manager Name: J. Andrew Kirschler

Manager Start Date: 07/05/2013

Expense Ratio: 0.59% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)



	_			
Credit	Qua	lity	(%)	ì

orount quanty (70)	
AAA	98.90%
AA	0.70%
A	0.30%
BBB	0.10%
BB	0.00%
В	0.00%
Below B	0.00%
NR/NA	0.00%
Total:	100.00%

#### Sector (%)

100-75-50-25-

Cash

MBS

TIPS

Credit Bond

Govt Bond

Muni Bond

HY Corp Bond

Sector (78)	
% Government	98.59%
% Municipal	0.00%
% Corporate	0.00%
% Securitized	0.00%
% Cash and Equivalent	1.41%
% Derivative	0.00%
Total:	100.00%

FUND EXPOSURES (W EIGHT) (Jul 15-Jun 18)

Current

Bmk

29.6

0.0

35.8

0.0

3.0

0.0

31.7

Fund

41.3

0.0

31.6

0.0

27.1

0.0

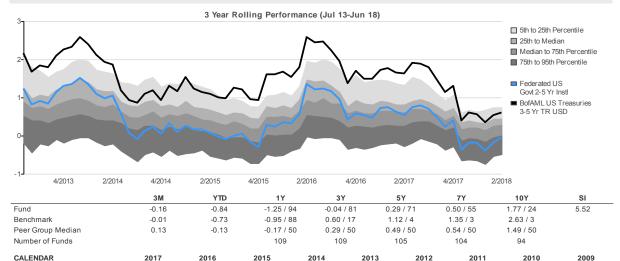
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ASSET LOADINGS (Returns-based)

#### INVESTMENT OVERVIEW

The investment seeks current income. The fund buys and sells portfolio securities based primarily on the Adviser's market outlook and analysis of how securities may perform under different market conditions. It may also use derivative contracts and/or hybrid instruments to implement elements of its strategies, particularly to manage duration and hedge against potential losses. The fund may also invest in government securities that are supported by the full faith and credit of the U.S. government.

#### PERFORMANCE



0.83

2.14

0.78

NOTES

-1.84

-0.91

-0.64

1.16

1.58

1.04

4.67

6.23

1.82

4.26

5.70

2.81

#### **RISK & PERFORMANCE STATISTICS**

Fund

Benchmark

Peer Group Median

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.66	0.00	-0.37
Beta	0.81	1.00	0.39
R-Squared	96.17	100.00	90.05
Sharpe Ratio	-0.40	-0.03	-0.40
Up Market Capture	73.31	100.00	38.96
Down Market Capture	94.27	100.00	40.25
5 Vr	Fund	Benchmark	Peer Grou

0.28

0.95

0.47

0.80

1.34

0.62

0.13

1.59

0.24

9	
Bmk	
28.4	
0.0	
48.1	
0.0	
19.0	
1.0	
3.5	

•			
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.68	0.00	-0.18
Beta	0.79	1.00	0.38
R-Squared	95.42	100.00	87.18
Sharpe Ratio	-0.07	0.33	0.08
Up Market Capture	69.26	100.00	39.12
Down Market Capture	90.36	100.00	38.53

0.28

-0.67

2.78

Fund

41.9

0.0

35.8

0.0

12.6

0.0

Average

### BlackRock US Debt Index-W

#### 6/29/2018

Fund Incep Date: 02/01/2001

Benchmark:

BBgBarc US Aggregate Bond Index

Category: Intermediate-term Bond Net Assets: NA Manager Name: Team Managed Manager Start Date: 02/01/2001

Expense Ratio: 0.05%

Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)

#### Assets

Cash	0.00%
US Stocks	0.00%
US Bonds	0.00%
Non-US Stocks	0.00%
Preferred Stocks	0.00%
Convertible Bonds	0.00%
Other	0.00%
Non-US Bonds	0.00%

0.00%

0.00%

#### Credit Quality (%)

AAA AA A

BBB

BB B

Below B

NR/NA Total:

#### Sector (%)

- % Government
- % Municipal
- % Corporate
- % Securitized
- % Cash and Equivalent

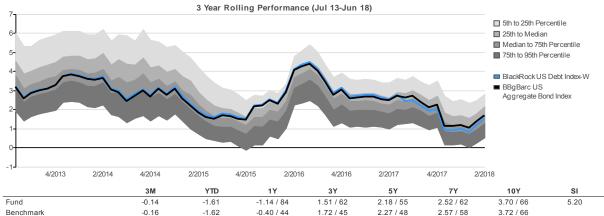
25-

% Derivative
Total:

INVESTMENT OVERVIEW

The Fund is an "index fund" that seeks investment results that correspond generally to the price and yield performance, before fees and expenses, of the Barclays U.S. Aggregate Bond Index.

#### PERFORMANCE



Benchmark Peer Group Median Number of Funds	-0.16 -0.26	-1.62 -1.70	-0.40 / 44 -0.49 / 50 1045	1.72 / 45 1.65 / 50 981		.27 / 48 .23 / 50 933	2.57 / 58 2.69 / 50 898	3.72 / 66 4.03 / 50 824	
CALENDAR	2017	2016	2015	2014	2013	2012	2011	2010	2009
Fund	2.83	2.72	0.56	6.19	-1.99	4.24	7.82	6.67	5.94
Benchmark	3.54	2.65	0.55	5.97	-2.02	4.22	7.84	6.54	5.93
Peer Group Median	3.81	3.01	-0.03	5.48	-1.64	6.69	6.35	7.48	12.38

#### **RISK & PERFORMANCE STATISTICS**

#### NOTES

# ASSET LOADINGS (Returns-based) FUND EXPOSURES (W EIGHT) (Jul 15-Jun 18) 7550-

- 0					
		Current		Ave	rage
		Fund	Bmk	Fund	Bmk
Т	Cash	4.1	0.4	3.0	0.4
T.	Credit Bond	29.6	30.7	29.9	30.4
1	Govt Bond	27.1	40.5	34.2	40.7
	HY Corp Bond	2.7	0.3	1.7	0.2
T.	MBS	30.0	27.8	27.5	28.2
1	Muni Bond	6.6	0.1	3.6	0.0
1	TIDS	0.0	0.1	0.1	0.1

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.18	0.00	0.03
Beta	0.98	1.00	0.91
R-Squared	97.01	100.00	89.20
Sharpe Ratio	0.33	0.40	0.39
Up Market Capture	94.82	100.00	96.20
Down Market Capture	99.52	100.00	94.50

bown maner ouptaic	00.0 <u>2</u>	100.00	54.50
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.07	0.00	0.13
Beta	0.99	1.00	0.92
R-Squared	98.19	100.00	89.83
Sharpe Ratio	0.66	0.69	0.69
Up Market Capture	97.71	100.00	95.88
Down Market Capture	99.50	100.00	91.89

# Vanguard Long-Term Investment-Grade Adm VWETX

6/29/2018

Fund Incep Date: 02/12/2001

Benchmark:

BBgBarc US Credit A+ Long TR USD

Category: Corporate Bond Net Assets: \$16,249.00M Manager Name: Scott I. St. John Manager Start Date: 05/28/2014

Expense Ratio: 0.12% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)

#### Assets



#### Credit Quality (%)

AAA	12.98%
AA	24.59%
A	54.71%
BBB	4.92%
BB	0.08%
В	0.02%
Below B	0.00%
NR/NA	2.70%
Total:	100.00%

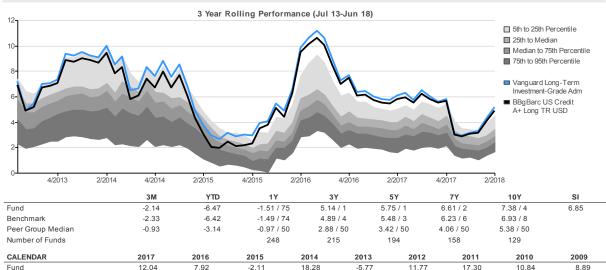
#### Sector (%)

Total:	100.00%
% Derivative	0.00%
% Cash and Equivalent	3.30%
% Securitized	1.02%
% Corporate	76.64%
% Municipal	11.65%
% Government	7.39%

#### INVESTMENT OVERVIEW

The investment seeks to provide a high and sustainable level of current income. The fund invests in a variety of high-quality and, to a lesser extent, medium-quality fixed income securities, at least 80% of which will be intermediate- and long-term investment-grade securities. High-quality fixed income securities are those rated the equivalent of A3 or better; medium-quality fixed income securities are those rated the equivalent of Baa1, Baa2, or Baa3. The fund's dollar-weighted average maturity is expected to fall within a range that is five years shorter than or five years longer than that of its benchmark index.

#### **PERFORMANCE**



17.22

7.07

NOTES

-6.79

-0.91

11.10

10.73

18.42

6.51

10.02

9.81

-1.95

-0.95

7.88

6.44

#### **RISK & PERFORMANCE STATISTICS**

Benchmark

Peer Group Median

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.06	0.00	0.06
Beta	1.05	1.00	0.51
R-Squared	98.51	100.00	78.95
Sharpe Ratio	0.69	0.68	0.61
Up Market Capture	103.74	100.00	50.14
Down Market Capture	102.45	100.00	46.47
E V.	Fund	Panahmark	Peer Group

11.49

6.06

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.10	0.00	0.56
Beta	1.03	1.00	0.47
R-Squared	98.93	100.00	79.77
Sharpe Ratio	0.76	0.75	0.82
Up Market Capture	104.01	100.00	49.81
Down Market Capture	102.85	100.00	43.17

#### ASSET LOADINGS (Returns-based)

400	FUND EXPOSURES (W EIGHT) (Jul 15-Jun 18)
100-	
75-	
50-	
25-	
0-	
	Current Av erage

		Cu	rrent	Ave	erage	
		Fund	Bmk	Fund	Bmk	
Т	Cash	0.0	0.0	0.0	0.0	
I.	Credit Bond	100.0	100.0	100.0	100.0	
1	Govt Bond	0.0	0.0	0.0	0.0	
	HY Corp Bond	0.0	0.0	0.0	0.0	
L	MBS	0.0	0.0	0.0	0.0	
L	Muni Bond	0.0	0.0	0.0	0.0	
£.	TIPS	0.0	0.0	0.0	0.0	

9.53

20.91

# Vanguard Wellington Admiral VWENX

#### 6/29/2018

Fund Incep Date: 05/14/2001

Benchmark: S&P 500 Index Category: Allocation-50% to 70% Equity

Net Assets: \$102,025.00M Manager Name: Edward P. Bousa Manager Start Date: 12/31/2002

Expense Ratio: 0.17% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)

Assets



#### Sector Breakdown

Chevron Corp

Total:

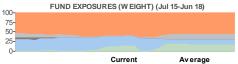
Bristol-Myers Squibb Company

PNC Financial Services Group Inc

US Treasury Note 2.25%

Sensitive	
Communication Services	6.91%
Industrials	10.45%
Technology	16.68%
Energy	8.55%
Cyclical	
Basic Materials	1.85%
Consumer Cyclical	5.22%
Real Estate	0.99%
Financial Services	24.64%
Defensive	
Consumer Defensive	6.42%
Healthcare	14.01%
Utilities	4.28%
TOP 10 HOLDINGS	
Microsoft Corp	2.53%
JPMorgan Chase & Co	2.26%
Bank of America Corporation	2.18%
Verizon Communications Inc	1.90%
Intel Corp	1.85%
Alphabet Inc A	1.75%

#### ASSET LOADINGS (Returns-based)

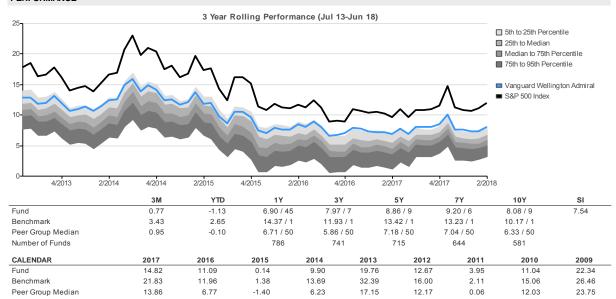


0-		Current		erage
	Fund	Bmk	Fund	Bmk
Cash	17.4	0.0	8.5	0.1
US Bonds	12.4	0.0	24.1	1.7
Intl Bonds	0.0	0.2	0.7	0.7
Intl Equity	15.1	6.3	8.5	4.3
US Equity	55.1	93.5	58.2	93.2

#### INVESTMENT OVERVIEW

The investment seeks to provide long-term capital appreciation and moderate current income. The fund invests 60% to 70% of its assets in dividend-paying and, to a lesser extent, non-dividend-paying common stocks of established large companies. The remaining 30% to 40% of the fund's assets are invested mainly in fixed income securities that the advisor believes will generate a moderate level of current income. These securities include investment-grade corporate bonds, with some exposure to U.S. Treasury and government agency bonds, and mortgage-backed securities.

#### PERFORMANCE



NOTES

#### **RISK & PERFORMANCE STATISTICS**

R-Squared

Sharpe Ratio

Up Market Capture

Down Market Capture

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.11	0.00	-1.70
Beta	0.66	1.00	0.62
R-Squared	93.59	100.00	90.00
Sharpe Ratio	1.05	1.10	0.79
Up Market Capture	66.21	100.00	57.35
Down Market Capture	69.55	100.00	73.29
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.05	0.00	-1.30
Beta	0.65	1.00	0.63

100.00

100.00

100.00

1.30

88.64

59.28

70.91

1.03

94.29

1.27

65.32

68.77

1.71%

1.46%

1.45%

1.37%

18.46%

# Vanguard Instl Trgt Retire Inc Instl VITRX

3.72%

Fund Incep Date: 06/26/2015

Benchmark:

S&P Target Date Retirement Income

Category: Target-Date Retirement

Net Assets: \$5,518.00M Manager Name: William A. Coleman

Manager Start Date: 06/26/2015

Expense Ratio: 0.09%

Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)

Assets



#### Sector Breakdown

3.20%
11.48%
17.48%
6.25%
5.34%
12.12%

Financial Services	18.44%
Defensive	
Consumer Defensive	7.71%
Healthcare	11.29%
Utilities	2.97%

#### **TOP 10 HOLDINGS**

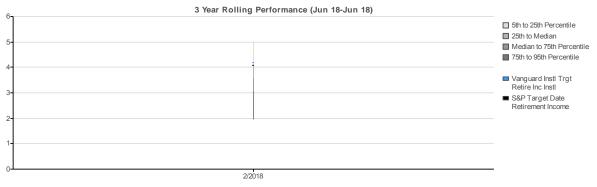
Real Estate

Vanguard Total Bond Market II ldx Inv	37.56%
Vanguard Total Stock Market Idx I	17.95%
Vanguard Shrt-Term Infl-Prot Sec Idx Adm	16.84%
Vanguard Total Intl Bd Idx Admiral™	15.92%
Vanguard Total Intl Stock Index Inv	11.73%
•	

#### INVESTMENT OVERVIEW

The investment 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. Its indirect bond holdings are a diversified mix of short-, intermediate-, and long-term U.S. government, U.S. agency, and investment-grade U.S. corporate bonds; inflation-protected public obligations issued by the U.S. Treasury; mortgage-backed and asset-backed securities; and government, agency, corporate, and securitized investment-grade foreign bonds issued in currencies other than the U.S. dollar.

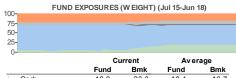
#### **PERFORMANCE**



	3M	YTD	1Y	3Y		5Y	7Y	10Y	SI
Fund	0.45	-0.07	4.00 / 34	4.19 / 20					4.07
Benchmark	0.70	-0.11	4.23 / 26	4.08 / 26		4.56 / 38	4.57 / 31	4.50 / 52	
Peer Group Median	0.28	-0.54	3.43 / 50	3.60 / 50		4.23 / 50	4.11 / 50	4.53 / 50	
Number of Funds			194	182		160	150	127	
CALENDAR	2017	2016	2015	2014	2013	2012	2011	2010	2009
Fund	8.54	5.29							
Benchmark	8.54	5.01	-0.18	4.86	6.28	7.51	3.98	9.09	11.37
Peer Group Median	8.73	5.05	-1.28	4.07	5.61	8.86	2.54	9.33	19.27

Total: 100.00%

#### ASSET LOADINGS (Returns-based)



Current		Ave	age	
Fund	Bmk	Fund	Bmk	
19.2	23.3	10.4	16.7	
49.6	44.4	58.6	51.4	
3.3	1.3	2.0	1.9	
10.1	10.3	7.8	7.9	
17.9	20.7	21.2	22.0	
	Fund 19.2 49.6 3.3 10.1	Fund         Bmk           19.2         23.3           49.6         44.4           3.3         1.3           10.1         10.3	Fund         Bmk         Fund           19.2         23.3         10.4           49.6         44.4         58.6           3.3         1.3         2.0           10.1         10.3         7.8	

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.12	0.00	-0.83
Beta	1.00	1.00	1.16
R-Squared	98.52	100.00	95.12
Sharpe Ratio	1.03	1.00	0.76
Up Market Capture	99.40	100.00	101.55
Down Market Capture	94.75	100.00	121.07

Bomi manor captaro	0 1 0	100.00	121.01
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	NA	0.00	-0.59
Beta	NA	1.00	1.19
R-Squared	NA	100.00	94.62
Sharpe Ratio	NA	1.21	1.01
Up Market Capture	NA	100.00	107.60
Down Market Capture	NA	100.00	122.56

# Vanguard Instl Trgt Retire 2015 Instl VITVX

6/29/2018

Fund Incep Date: 06/26/2015

Benchmark:

Category: S&P Target Date 2015 Target-Date 2015

16.29%

14.03%

11.82%

Net Assets: \$8,138.00M Manager Name: William A. Coleman

Manager Start Date: 06/26/2015

Expense Ratio: 0.09%

Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)



#### Sector Breakdown

Sensitive	
Communication Services	3.20%
Industrials	11.48%
Technology	17.46%
Energy	6.25%
Cyclical	
Basic Materials	5.35%
Consumer Cyclical	12.12%
Real Estate	3.72%
Financial Services	18.45%
Defensive	
Consumer Defensive	7.72%
Healthcare	11.28%
Utilities	2.97%
TOP 10 HOLDINGS	
Vanguard Total Bond Market II ldx Inv	33.09%
Vanguard Total Stock Market Idx I	24.76%

Total: 99.98%

FUND EXPOSURES (W EIGHT) (Jul 15-Jun 18)

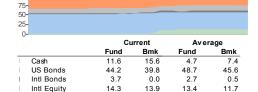
#### ASSET LOADINGS (Returns-based)

100-

US Equity

Vanguard Total Intl Stock Index Inv Vanguard Total Intl Bd Idx Admiral™

Vanguard Shrt-Term Infl-Prot Sec Idx Adm



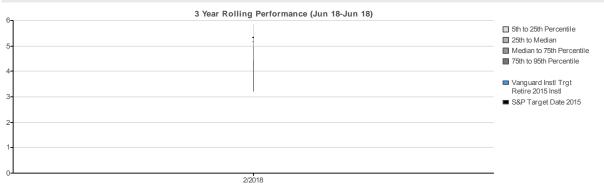
30.7

26.3

#### INVESTMENT OVERVIEW

The investment 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 (the target year). The fund's asset allocation will become more conservative over time, meaning that the percentage of assets allocated to stocks will decrease while the percentage of assets allocated to bonds and other fixed income investments will increase

#### PERFORMANCE



	3M	YTD	1Y	3Y		5Y	7Y	10Y	SI
Fund	0.50	0.00	5.43 / 30	5.18 / 38					4.88
Benchmark	0.97	0.07	5.55 / 25	5.33 / 27	6.	.20 / 47	6.01 / 49	5.63 / 30	
Peer Group Median	0.50	-0.22	5.05 / 50	4.97 / 50	6.	.08 / 50	5.87 / 50	5.32 / 50	
Number of Funds			142	124		98	94	70	
CALENDAR	2017	2016	2015	2014	2013	2012	2011	2010	2009
Fund	11.50	6.27							
Benchmark	11.39	6.56	-0.16	5.49	12.16	10.32	1.53	11.85	17.48
Peer Group Median	11.47	6.42	-1.14	4.76	11.48	11.02	-0.11	11.51	25.11

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.03	0.00	-0.53
Beta	0.97	1.00	1.07
R-Squared	98.91	100.00	96.97
Sharpe Ratio	0.92	0.93	0.82
Up Market Capture	96.11	100.00	100.11
Down Market Capture	95.14	100.00	112.21

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	NA	0.00	-0.48
Beta	NA	1.00	1.08
R-Squared	NA	100.00	96.95
Sharpe Ratio	NA	1.15	1.04
Up Market Capture	NA	100.00	102.82
Down Market Capture	NA	100.00	109.92

#### NOTES

30.5

34.8

# Vanguard Instl Trgt Retire 2025 Instl VRIVX

Fund Incep Date: 06/26/2015

Benchmark: S&P Target Date 2025 Category: Target-Date 2025

Net Assets: \$26,182.00M Manager Name: William A. Coleman

Manager Start Date: 06/26/2015

Expense Ratio: 0.09% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based) Assets



#### Sector Breakdown

Sensitive	
Communication Services	3.20%
Industrials	11.48%
Technology	17.52%
Energy	6.24%
Cyclical	
Basic Materials	5.32%
Consumer Cyclical	12.12%
Real Estate	3.72%
Financial Services	18.42%

Defensive	
Consumer Defensive	7.70%
Healthcare	11.32%
Utilities	2.96%

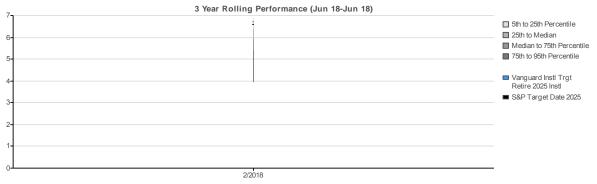
#### **TOP 10 HOLDINGS**

Vanguard Total Stock Market Idx I	38.25%
Vanguard Total Bond Market II ldx Inv	26.11%
Vanguard Total Intl Stock Index Inv	24.56%
Vanguard Total Intl Bd Idx Admiral™	11.08%

#### INVESTMENT OVERVIEW

The investment 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 (the target year). The fund's asset allocation will become more conservative over time, meaning that the percentage of assets allocated to stocks will decrease while the percentage of assets allocated to bonds and other fixed income investments will increase.

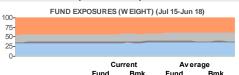
#### PERFORMANCE



	3M	YTD	1Y	3Y		5Y	7Y	10Y	SI
Fund	0.70	0.13	7.63 / 19	6.72 / 13					6.27
Benchmark	1.24	0.29	7.38 / 29	6.59 / 18		7.60 / 26	7.23 / 30	6.43 / 26	
Peer Group Median	0.66	-0.09	6.72 / 50	5.95 / 50		7.11 / 50	6.80 / 50	5.94 / 50	
Number of Funds			227	202		173	145	105	
CALENDAR	2017	2016	2015	2014	2013	2012	2011	2010	2009
Fund	15.94	7.56							
Benchmark	14.55	7.82	-0.25	5.56	17.03	12.51	-0.28	13.82	22.03
Peer Group Median	15.02	6.95	-1.35	5.35	16.53	13.21	-1.99	13.40	28.46

Total: 100.00%

#### ASSET LOADINGS (Returns-based)



	Cı	Current		rage
	Fund	Bmk	Fund	Bmk
Cash	0.0	9.5	0.1	4.0
US Bonds	33.7	30.4	33.2	33.8
Intl Bonds	4.6	0.0	4.2	0.7
Intl Equity	21.6	18.1	19.9	15.5
US Equity	40.0	42.0	42.7	46.1

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.05	0.00	-0.66
Beta	1.03	1.00	1.02
R-Squared	99.05	100.00	97.81
Sharpe Ratio	0.90	0.91	0.80
Up Market Capture	102.76	100.00	97.89
Down Market Capture	103.31	100.00	104.90

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	NA	0.00	-0.44
Beta	NA	1.00	1.03
R-Squared	NA	100.00	97.42
Sharpe Ratio	NA	1.10	1.02
Up Market Capture	NA	100.00	99.68
Down Market Capture	NA	100.00	104.52

# Vanguard Instl Trgt Retire 2035 Instl VITFX

47.19%

30.56%

15.68%

6.56%

Fund Incep Date: 06/26/2015

Benchmark: S&P Target Date 2035 Category: Target-Date 2035

Net Assets: \$21,833.00M Manager Name: William A. Coleman

Manager Start Date: 06/26/2015

Expense Ratio: 0.09% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)

Assets



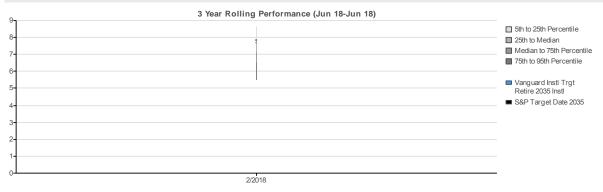
#### Sector Breakdown

Sensitive	
Communication Services	3.20%
Industrials	11.48%
Technology	17.50%
Energy	6.24%
Cyclical	
Basic Materials	5.33%
Consumer Cyclical	12.12%
Real Estate	3.72%
Financial Services	18.43%
Defensive	
Consumer Defensive	7.71%
Healthcare	11.31%
Utilities	2.96%
TOP 10 HOLDINGS	

#### INVESTMENT OVERVIEW

The investment 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 (the target year). The fund's asset allocation will become more conservative over time, meaning that the percentage of assets allocated to stocks will decrease while the percentage of assets allocated to bonds and other fixed income investments will increase.

#### PERFORMANCE



	3M	YTD	1Y	3Y		5Y	7Y	10Y	SI
Fund	0.86	0.30	9.33 / 38	7.70 / 30					7.09
Benchmark	1.52	0.56	9.47 / 30	7.83 / 25	8	3.88 / 35	8.28 / 33	7.00 / 29	
Peer Group Median	0.90	0.25	9.04 / 50	7.14 / 50	8	3.45 / 50	7.86 / 50	6.47 / 50	
Number of Funds			222	197		168	140	100	
CALENDAR	2017	2016	2015	2014	2013	2012	2011	2010	2009
Fund	19.14	8.39							
Benchmark	17.78	8.85	-0.35	5.69	20.84	14.12	-1.71	15.02	24.99
Peer Group Median	18.72	7.83	-1.51	5.57	21.14	14.97	-3.33	14.46	30.96

Total: 100.00%

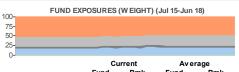
#### ASSET LOADINGS (Returns-based)

Vanguard Total Stock Market Idx I

Vanguard Total Intl Stock Index Inv

Vanguard Total Bond Market II Idx Inv

Vanguard Total Intl Bd Idx Admiral™



·		Cı	urrent	Ave	rage
		Fund	Bmk	Fund	Bmk
T	Cash	0.0	5.3	0.0	2.3
-1	US Bonds	18.8	18.5	18.1	21.5
- 1	Intl Bonds	5.2	0.0	5.0	0.9
	Intl Equity	27.3	23.2	25.4	19.3
-1	US Equity	48.8	53.1	51.5	56.0

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.42	0.00	-0.94
Beta	1.05	1.00	1.06
R-Squared	98.95	100.00	98.21
Sharpe Ratio	0.86	0.92	0.80
Up Market Capture	101.43	100.00	100.86
Down Market Capture	104.46	100.00	107.75

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	NA	0.00	-0.70
Beta	NA	1.00	1.06
R-Squared	NA	100.00	97.95
Sharpe Ratio	NA	1.09	0.99
Up Market Capture	NA	100.00	102.03
Down Market Capture	NA	100.00	105.96

# Vanguard Instl Trgt Retire 2045 Instl VITLX

35.31%

7.20%

2.96%

Fund Incep Date: 06/26/2015

Benchmark:

S&P Target Date 2045

Category: Target-Date 2045

Net Assets: \$15,607.00M Manager Name: William A. Coleman

Manager Start Date: 06/26/2015

Expense Ratio: 0.09% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)

Assets



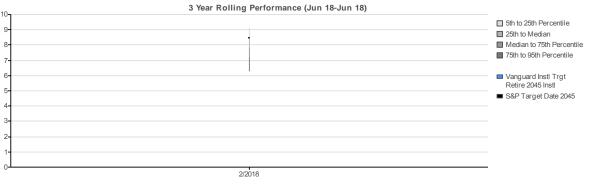
#### Sector Breakdown

Sensitive	
Communication Services	3.20%
Industrials	11.48%
Technology	17.50%
Energy	6.24%
Cyclical	
Basic Materials	5.33%
Consumer Cyclical	12.12%
Real Estate	3.72%
Financial Services	18.43%
Defensive	
Consumer Defensive	7.71%
Healthcare	11.31%
Utilities	2.96%
TOP 10 HOLDINGS	
Vanguard Total Stock Market Idx I	54.51%

#### INVESTMENT OVERVIEW

The investment 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 (the target year). The fund's asset allocation will become more conservative over time, meaning that the percentage of assets allocated to stocks will decrease while the percentage of assets allocated to bonds and other fixed income investments will increase.

#### PERFORMANCE



	3M	YTD	1Y	3Y		5Y	7Y	10Y	SI
Fund	0.97	0.42	10.62 / 30	8.45 / 26					7.76
Benchmark	1.66	0.70	10.55 / 34	8.52 / 22	9	9.59 / 27	8.89 / 23	7.27 / 31	
Peer Group Median	1.00	0.45	10.07 / 50	7.88 / 50	9	9.16 / 50	8.38 / 50	6.76 / 50	
Number of Funds			222	197		168	136	99	
CALENDAR	2017	2016	2015	2014	2013	2012	2011	2010	2009
Fund	21.47	8.94							
Benchmark	19.56	9.54	-0.46	5.67	23.14	15.15	-2.56	15.62	26.40
Peer Group Median	20.66	8.18	-1.61	5.65	23.24	15.50	-4.06	14.92	31.08

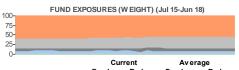
Total: 99.99%

#### ASSET LOADINGS (Returns-based)

Vanguard Total Intl Stock Index Inv

Vanguard Total Bond Market II Idx Inv

Vanguard Total Intl Bd Idx Admiral™



-		Cı	ırrent	Average		
		Fund	Bmk	Fund	Bmk	
Т	Cash	0.0	3.3	0.0	1.5	
1	US Bonds	6.8	12.0	7.7	14.3	
- 1	Intl Bonds	6.8	0.0	6.1	1.0	
	Intl Equity	30.6	25.7	28.4	21.4	
-1	US Equity	55.9	59.0	57.7	61.7	

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.46	0.00	-0.94
Beta	1.06	1.00	1.06
R-Squared	98.99	100.00	98.29
Sharpe Ratio	0.86	0.91	0.80
Up Market Capture	102.87	100.00	99.98
Down Market Capture	106.11	100.00	107.90

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	NA	0.00	-0.73
Beta	NA	1.00	1.04
R-Squared	NA	100.00	97.90
Sharpe Ratio	NA	1.07	0.98
Up Market Capture	NA	100.00	100.65
Down Market Capture	NA	100.00	104.36

# Vanguard Instl Trgt Retire 2055 Instl VIVLX

Fund Incep Date: 06/26/2015

Benchmark: S&P Target Date 2055 Category: Target-Date 2055

35.49%

7.15%

2.97%

Net Assets: \$4,701.00M Manager Name: William A. Coleman

Manager Start Date: 06/26/2015

Expense Ratio: 0.09% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)

Assets



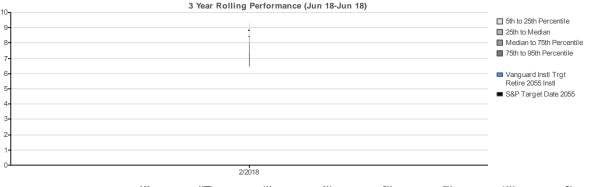
#### Sector Breakdown

Sector Breakdown	
Sensitive	
Communication Services	3.20%
Industrials	11.48%
Technology	17.48%
Energy	6.25%
Cyclical	
Basic Materials	5.34%
Consumer Cyclical	12.12%
Real Estate	3.72%
Financial Services	18.44%
Defensive	
Consumer Defensive	7.71%
Healthcare	11.29%
Utilities	2.97%
TOP 10 HOLDINGS	
Vanguard Total Stock Market Idx I	54.38%

#### INVESTMENT OVERVIEW

The investment 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 (the target year). The fund's asset allocation will become more conservative over time, meaning that the percentage of assets allocated to stocks will decrease while the percentage of assets allocated to bonds and other fixed income investments will increase.

#### **PERFORMANCE**



	3M	YTD	1Y	3Y		5Y	7Y	10Y	SI
Fund	0.97	0.42	10.59 / 43	8.44 / 30					7.76
Benchmark	1.70	0.78	10.96 / 31	8.86 / 12		10.06 / 20			
Peer Group Median	1.03	0.49	10.33 / 50	7.96 / 50		9.35 / 50	8.73 / 50	6.68 / 50	
Number of Funds			220	195		136	88	10	
CALENDAR	2017	2016	2015	2014	2013	2012	2011	2010	2009
Fund	21.47	8.94							
Benchmark	20.48	9.94	-0.54	5.64	24.96	15.81			
Peer Group Median	21.16	8.24	-1.65	5.70	23.31	15.60	-4.59	14.75	31.59

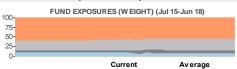
Total: 99.99%

#### ASSET LOADINGS (Returns-based)

Vanguard Total Intl Stock Index Inv

Vanguard Total Bond Market II Idx Inv

Vanguard Total Intl Bd Idx Admiral™



-		Current		Average	
		Fund	Bmk	Fund	Bmk
T	Cash	0.0	2.7	0.0	1.3
-1	US Bonds	6.6	8.9	8.0	10.1
- 1	Intl Bonds	6.5	0.0	5.9	0.7
	Intl Equity	30.9	26.3	28.3	22.5
-1	US Equity	55.9	62.1	57.8	65.4

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.35	0.00	-0.87
Beta	0.99	1.00	1.02
R-Squared	98.93	100.00	98.24
Sharpe Ratio	0.86	0.90	0.80
Up Market Capture	97.37	100.00	96.71
Down Market Capture	99.82	100.00	103.23

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	NA	0.00	-0.61
Beta	NA	1.00	0.99
R-Squared	NA	100.00	97.74
Sharpe Ratio	NA	1.06	0.99
Up Market Capture	NA	100.00	96.46
Down Market Capture	NA	100.00	99.37

# Bridgeway Large Cap Value CIT Class I

6/29/2018

Fund Incep Date: 12/15/2016

Benchmark

Russell 1000 Value Index

Category: Large Value Net Assets:

Manager Name Team Managed

Manager Start Date : 12/15/2016

Expense Ratio: 0.55%

Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)

Assets

Cash	0.00%
US Stocks	0.00%
US Bonds	0.00%
Non-US Stocks	0.00%
Preferred Stocks	0.00%
Convertible Bonds	0.00%
Other	0.00%
Non-US Bonds	0.00%

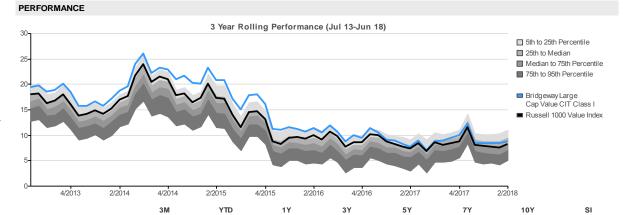
#### Sector Breakdown

**TOP 10 HOLDINGS** 

Sensitive	
Communication Services	0.00%
Industrials	0.00%
Technology	0.00%
Energy	0.00%
Cyclical	
Basic Materials	0.00%
Consumer Cyclical	0.00%
Real Estate	0.00%
Financial Services	0.00%
Defensive	
Consumer Defensive	0.00%
Healthcare	0.00%
Utilities	0.00%

#### INVESTMENT OVERVIEW

The Fund seeks to provide long-term total return on capital, primarily through capital appreciation and, to a lesser extent, income.

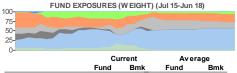


Fund	0.45	-0.85	10.93 / 22	8.71 / 41	12.	.05 / 5	12.77 / 3	10.19 / 6	8.27
Benchmark	1.18	-1.69	6.77 / 72	8.26 / 49	10.3	34 / 38	11.27 / 29	8.49 / 45	
Peer Group Median	1.46	-1.23	8.50 / 50	8.22 / 50	10.0	01 / 50	10.51 / 50	8.33 / 50	
Number of Funds			1305	1215	1	132	1047	965	
CALENDAR	2017	2016	2015	2014	2013	2012	2011	2010	2009
Fund	15.64	15.69	-0.64	14.18	37.75	18.05	2.33	14.50	24.91
Benchmark	13.66	17.34	-3.83	13.45	32.53	17.51	0.39	15.51	19.69

Peer Group Median 16.14 14.30 -3.58 10.94 14.79 -0.68 13.57 23.54

#### Total: NA%

#### ASSET LOADINGS (Returns-based)



		Current		Av erage	
		Fund	Bmk	Fund	Bmk
T	Cash	0.0	0.0	3.7	0.1
	Top Value	55.3	68.5	43.0	68.9
- 1	Top Growth	0.0	0.0	4.9	0.0
	Mid Value	17.0	31.4	16.0	31.0
1	Mid Growth	21.5	0.0	22.8	0.0
1	Sm Value	6.2	0.1	9.4	0.1
1	Sm Growth	0.0	0.0	0.4	0.0

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.55	0.00	0.05
Beta	0.98	1.00	0.99
R-Squared	93.51	100.00	92.85
Sharpe Ratio	0.79	0.76	0.73
Up Market Capture	97.34	100.00	97.99
Down Market Capture	91.34	100.00	98.52

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	1.72	0.00	-0.15
Beta	0.98	1.00	0.99
R-Squared	93.58	100.00	92.82
Sharpe Ratio	1.14	1.00	0.94
Up Market Capture	102.20	100.00	96.89
Down Market Capture	88.04	100.00	98.59

# Vanguard Institutional Index Instl PI VIIIX

#### 6/29/2018

Benchmark: Fund Incep Date: Category: Net Assets: Manager Name: Manager Start Date: Expense Ratio: Expense Rank: 07/07/1997 S&P 500 Index Large Blend \$223,489.00M Donald M. Butler 12/31/2000 0.02%

#### PORTFOLIO COMPOSITION (Holdings-based)



#### Sector Breakdown

Sensitive

Communication Services	3.00%
Industrials	10.40%
Technology	23.11%
Energy	6.26%
Cyclical	
Basic Materials	2.68%
Consumer Cyclical	12.05%
Real Estate	2.24%
Financial Services	16.53%
Defensive	
Consumer Defensive	7.09%
Healthcare	13.83%
Utilities	2.80%
TOP 10 HOLDINGS	
Apple Inc	4.10%
Microsoft Corp	3.29%
Amazon.com Inc	2.83%
Facebook Inc A	1.99%
JPMorgan Chase & Co	1.59%
Berkshire Hathaway Inc B	1.53%
Exxon Mobil Corp	1.49%
Alphabet Inc C	1.43%
Alphabet Inc A	1.42%

#### ASSET LOADINGS (Returns-based)

Johnson & Johnson

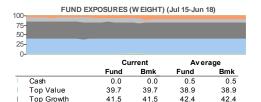
Mid Value

Mid Growth

Sm Value

Sm Growth

Total:



10.0

8.8

0.0

0.0

10.0

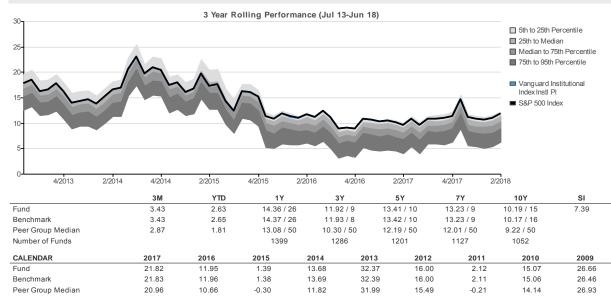
8.8

0.0

#### INVESTMENT OVERVIEW

The investment 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 & Poor's 500 Index, a widely recognized benchmark of U.S. stock market performance that is dominated by the stocks of large U.S. companies. The advisor attempts to replicate the target index by investing all, or substantially all, of its assets in the stocks that make up the index, holding each stock in approximately the same proportion as its weighting in the index.

#### PERFORMANCE



NOTES

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.01	0.00	-1.32
Beta	1.00	1.00	1.00
R-Squared	100.00	100.00	94.54
Sharpe Ratio	1.10	1.10	0.93
Up Market Capture	99.96	100.00	94.73
Down Market Capture	100.03	100.00	104.85
5 Yr	Fund	Benchmark	Peer Group Median
<b>5 Yr</b> Alpha	<b>Fund</b> -0.01	Benchmark 0.00	
			Median
Alpha	-0.01	0.00	Median -1.11
Alpha Beta	-0.01 1.00	0.00	<b>Median</b> -1.11 1.00
Alpha Beta R-Squared	-0.01 1.00 100.00	0.00 1.00 100.00	Median -1.11 1.00 94.54

10.6

7.6

0.0

1.39%

21.06%

10.6

7.6

0.0

0.0

# Calvert Equity I CEYIX

#### 6/29/2018

Fund Incep Date: 11/01/1999

Benchmark:

Russell 1000 Growth Index

Category: Large Growth Net Assets: \$2,300.00M Manager Name: Lance V. Garrison

Manager Start Date: 06/16/2015

Expense Ratio: 0.71% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)





#### Sector Breakdown

Sensitive	
Communication Services	4.04%
Industrials	10.43%
Technology	23.66%
Energy	0.00%

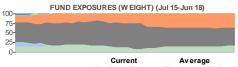
Cyclical	
Basic Materials	6.99%
Consumer Cyclical	7.95%
Real Estate	0.00%
Financial Services	14.90%

Defensive	
Consumer Defensive	11.00%
Healthcare	21.02%
Utilities	0.00%

	0.0070
TOP 10 HOLDINGS	
Danaher Corp	5.00%
Visa Inc Class A	4.96%
Thermo Fisher Scientific Inc	4.80%
Alphabet Inc C	4.70%
Microsoft Corp	4.17%
Zoetis Inc Class A	3.82%
Dollar General Corp	3.64%
Mastercard Inc A	3.41%
Praxair Inc	3.40%
Ecolab Inc	3.39%

#### ASSET LOADINGS (Returns-based)

Total:

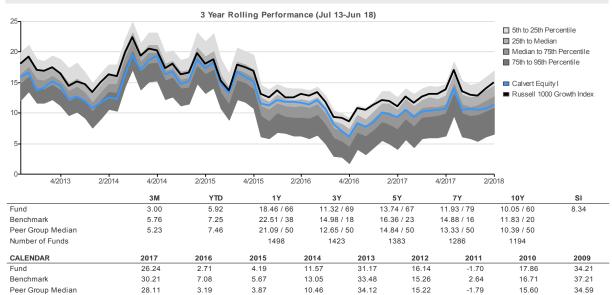


U		0		A.,	
		Current		Av erage	
		Fund	Bmk	Fund	Bmk
Т	Cash	15.2	0.0	14.1	0.1
L	Top Value	0.5	0.0	1.4	0.0
1	Top Growth	46.6	75.5	54.9	73.5
	Mid Value	0.0	0.0	0.0	0.0
L	Mid Growth	37.7	24.3	28.9	26.3
	Sm Value	0.0	0.0	0.2	0.0
T.	Sm Growth	0.0	0.2	0.6	0.1

#### INVESTMENT OVERVIEW

The investment seeks growth of capital through investment in stocks believed to offer opportunities for potential capital appreciation. The fund normally invests at least 80% of its net assets, including borrowings for investment purposes, in equity securities (common stock). It invests primarily in common stocks of U.S. large-cap companies. The managers define large-cap companies as those whose market capitalization falls within the range of the Russell 1000 Index at the time of investment.

#### PERFORMANCE



NOTES

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.97	0.00	-1.99
Beta	0.82	1.00	1.00
R-Squared	93.55	100.00	90.58
Sharpe Ratio	1.12	1.26	1.03
Up Market Capture	77.97	100.00	95.45
Down Market Capture	85.23	100.00	109.67
5 Yr	Fund	Benchmark	Peer Grou Median
Alpha	-0.40	0.00	-1.40

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.40	0.00	-1.40
Beta	0.87	1.00	1.01
R-Squared	92.97	100.00	90.13
Sharpe Ratio	1.37	1.47	1.27
Up Market Capture	84.15	100.00	96.59
Down Market Capture	87.22	100.00	106.48

41.29%

# Fidelity Contrafund FCNTX

#### 6/29/2018

Fund Incep Date: 05/17/1967

Benchmark:

Russell 1000 Growth Index

Category: Large Growth

0.17%

2.76%

2.73%

2.72%

2.62%

38.65%

Net Assets: \$129,354.00M Manager Name: William Danoff Manager Start Date: 09/17/1990

Expense Ratio: 0.74%

Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)



Non-US Bonds

#### Sector Breakdown

Salesforce.com Inc

Alphabet Inc C

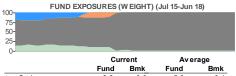
Visa Inc Class A

Netflix Inc

Total:

Sector Breakdown	
Sensitive	
Communication Services	0.11%
Industrials	5.59%
Technology	36.40%
Energy	3.98%
Cyclical	
Basic Materials	2.56%
Consumer Cyclical	16.31%
Real Estate	0.06%
Financial Services	23.59%
Defensive	
Consumer Defensive	2.47%
Healthcare	8.92%
Utilities	0.02%
TOP 10 HOLDINGS	
Facebook Inc A	7.24%
Amazon.com Inc	6.36%
Berkshire Hathaway Inc A	4.72%
Microsoft Corp	3.54%
Alphabet Inc A	3.04%
UnitedHealth Group Inc	2.92%

#### ASSET LOADINGS (Returns-based)

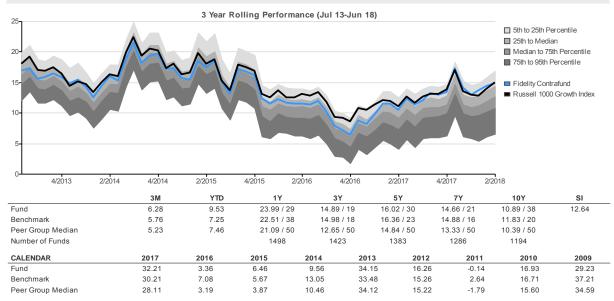


		Current		Av erage		Current Averag	
		Fund	Bmk	Fund	Bmk		
Т	Cash	0.0	0.0	5.8	0.1		
1	Top Value	0.0	0.0	0.0	0.0		
1	Top Growth	100.0	75.5	87.2	73.5		
	Mid Value	0.0	0.0	0.0	0.0		
1	Mid Growth	0.0	24.3	1.8	26.3		
1	Sm Value	0.0	0.0	0.0	0.0		
T.	Sm Growth	0.0	0.2	5.3	0.1		

#### INVESTMENT OVERVIEW

The investment seeks capital appreciation. The fund normally invests primarily in common stocks. It invests in securities of companies whose value the advisor believes is not fully recognized by the public. The fund invests in domestic and foreign issuers. It invests in either "growth" stocks or "value" stocks or both. The fund asses fundamental analysis of factors such as each issuer's financial condition and industry position, as well as market and economic conditions to select investments.

#### PERFORMANCE



NOTES

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.25	0.00	-1.99
Beta	0.98	1.00	1.00
R-Squared	93.13	100.00	90.58
Sharpe Ratio	1.24	1.26	1.03
Up Market Capture	99.14	100.00	95.45
Down Market Capture	98.91	100.00	109.67
5 Yr	Fund	Benchmark	Peer Group Median
<b>5 Yr</b> Alpha	<b>Fund</b> 0.16	Benchmark 0.00	
			Median
Alpha	0.16	0.00	Median -1.40
Alpha Beta	0.16 0.97	0.00	Median -1.40 1.01
Alpha Beta R-Squared	0.16 0.97 92.61	0.00 1.00 100.00	Median -1.40 1.01 90.13

# BlackRock Mid Cap Equity Index- F

6/29/2018

Fund Incep Date: 06/16/1997

Benchmark:

Russell Mid-Cap Index

Category: Mid-Cap Blend Net Assets: NA

Manager Name: Amy Whitelaw, Alan Mason

Manager Start Date: 06/16/1997

Expense Ratio: 0.03% Expense Rank:

#### PORTFOLIO COMPOSITION (Holdings-based)

Assets

Cash	0.00%
US Stocks	0.00%
US Bonds	0.00%
Non-US Stocks	0.00%
Preferred Stocks	0.00%
Convertible Bonds	0.00%
Other	0.00%
Non-US Bonds	0.00%

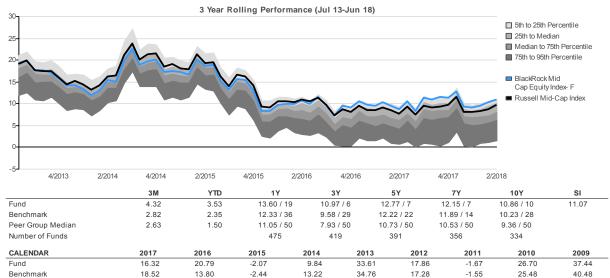
#### Sector Breakdown

Sensitive	
Communication Services	0.00%
Industrials	0.00%
Technology	0.00%
Energy	0.00%
Cyclical	
Basic Materials	0.00%
Consumer Cyclical	0.00%
Real Estate	0.00%
Financial Services	0.00%
Defensive	
Consumer Defensive	0.00%
Healthcare	0.00%
Utilities	0.00%
TOP 10 HOLDINGS	

#### INVESTMENT OVERVIEW

The Fund is an "index fund" that seeks investment results that correspond generally to the price and yield performance, before fees and expenses, of a particular index (its "Underlying Index"). The Fund is a collective investment trust maintained and managed by BlackRock Institutional Trust Company, N.A.

#### PERFORMANCE



#### Total: NA%

#### ASSET LOADINGS (Returns-based)



		Current		Average	
		Fund	Bmk	Fund	Bmk
Т	Cash	0.0	0.0	0.9	0.0
1	Top Value	0.0	0.0	0.2	0.4
1	Top Growth	0.0	0.0	1.2	0.0
	Mid Value	26.6	55.9	38.1	52.9
1	Mid Growth	39.1	44.0	28.9	46.3
1	Sm Value	34.4	0.0	29.6	0.3
1	Sm Growth	0.0	0.1	1.2	0.2

#### **RISK & PERFORMANCE STATISTICS**

Peer Group Median

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	1.03	0.00	-1.31
Beta	1.04	1.00	1.02
R-Squared	92.96	100.00	89.36
Sharpe Ratio	0.93	0.86	0.70
Up Market Capture	108.87	100.00	92.72
Down Market Capture	102.14	100.00	101.84

15.73

14.82

-3.13

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.07	0.00	-1.31
Beta	1.04	1.00	1.03
R-Squared	93.70	100.00	90.82
Sharpe Ratio	1.10	1.13	0.96
Up Market Capture	107.28	100.00	96.46
Down Market Capture	109.17	100.00	107.83

#### NOTES

34.34

16.98

-2.48

23.37

8.97

35.56

## T. Rowe Price Instl Mid-Cap Equity Gr PMEGX

0.00%

6/29/2018

Fund Incep Date: 07/31/1996

Benchmark:

Russell Mid-Cap Growth Index

Category: Mid-Cap Growth Net Assets: \$7,065.00M Manager Name: Brian W.H. Berghuis Manager Start Date: 07/31/1996

Expense Ratio: 0.61% Expense Rank:

### PORTFOLIO COMPOSITION (Holdings-based)



Non-US Bonds

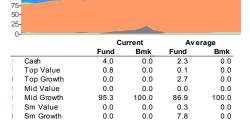
#### Sector Breakdown

Sensitive

100-

	2.13%
Textron Inc Microchip Technology Inc Reserve Invt Eds	2.32% 2.16%
Teleflex Inc	2.44%
Utilities TOP 10 HOLDINGS	0.96%
Consumer Defensive Healthcare	4.54% 16.81%
Defensive	
Financial Services	9.70%
Real Estate	0.82%
Basic Materials Consumer Cyclical	2.92% 14.70%
Cyclical	
Energy	2.20%
Technology	24.98%
Communication Services	0.00% 22.36%

### ASSET LOADINGS (Returns-based)

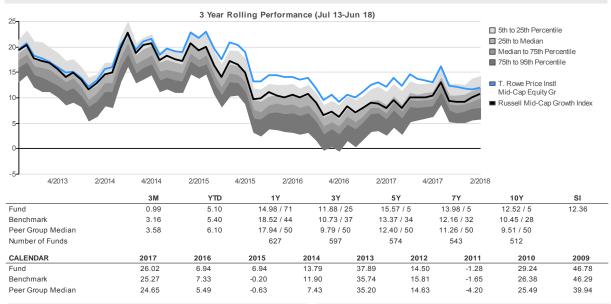


FUND EXPOSURES (W EIGHT) (Jul 15-Jun 18)

#### INVESTMENT OVERVIEW

The investment seeks to provide long-term capital appreciation. The fund will normally invest at least 80% of its net assets (including any borrowings for investment purposes) in a diversified portfolio of common stocks of mid-cap companies whose earnings T. Rowe Price expects to grow at a faster rate than the average company. The advisor defines mid-cap companies as those whose market capitalization (number of shares outstanding multiplied by share price) falls within the range of either the S&P MidCap 400 Index or the Russell Midcap Growth Index.

#### PERFORMANCE



NOTES

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund Benchmark		Peer Group Median
Alpha	1.25	0.00	-0.63
Beta	0.98	1.00	1.00
R-Squared	95.57	100.00	89.24
Sharpe Ratio	1.01	0.92	0.80
Up Market Capture	103.37	100.00	97.50
Down Market Capture	95.73	100.00	101.28
5 Yr	Fund	Benchmark	Peer Group Median
<b>5 Yr</b> Alpha	<b>Fund</b> 2.29	Benchmark 0.00	
			Median
Alpha	2.29	0.00	Median -0.72
Alpha Beta	2.29 0.97	0.00	<b>Median</b> -0.72 1.00
Alpha Beta R-Squared	2.29 0.97 94.67	0.00 1.00 100.00	Median -0.72 1.00 89.75

### DFA US Micro Cap I DFSCX

### 6/29/2018

Benchmark: Fund Incep Date: Category: Net Assets: Manager Name: 12/23/1981 Russell 2000 Index Small Blend \$6,964.00M

Manager Start Date: Joseph H. Chi 02/28/2012

Expense Ratio: 0.52% Expense Rank:

### PORTFOLIO COMPOSITION (Holdings-based)



#### Sector Breakdown

Sensitive	
Communication Services	1.46%
Industrials	18.76%
Technology	13.08%
Energy	4.78%
Cyclical	
Basic Materials	7.42%
Consumer Cyclical	15.21%
Real Estate	1.14%
Financial Services	22.98%
Defensive	
Consumer Defensive	4.09%
Healthcare	9.12%
Utilities	1.95%
TOP 10 HOLDINGS	
S+p500 Emini Fut Jun18 Xcme 20180615	0.86%
First Financial Bancorp	0.36%
Exponent Inc	0.34%
LHC Group Inc	0.32%
Chart Industries Inc	0.31%
Callaway Golf Co	0.30%
Cavco Industries Inc	0.29%
Kaman Corp Class A	0.29%
WD-40 Co	0.29%

### ASSET LOADINGS (Returns-based)

Medifast Inc

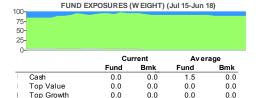
Mid Value

Mid Growth

Sm Value

Sm Growth

Total:



0.0

0.0

50.0

50.0

0.0

0.0

89.0

11.0

#### INVESTMENT OVERVIEW

The investment seeks long-term capital appreciation. The fund, using a market capitalization weighted approach, purchases a broad and diverse group of the securities of U.S. micro cap companies. It may purchase or sell futures contracts and options on futures contracts for U.S. equity securities and indices, to adjust market exposure based on actual or expected cash inflows to or outflows from the fund.

#### **PERFORMANCE** 3 Year Rolling Performance (Jul 13-Jun 18) ■ 5th to 25th Percentile 25th to Median 25 ■ Median to 75th Percentile ■ 75th to 95th Percentile DFA US Micro Cap I ■ Russell 2000 Index 4/2013 2/2014 4/2014 2/2015 4/2015 2/2016 4/2016 2/2017 4/2017 2/2018

	3M	YTD	1Y	3Y		5Y	7Y	10Y	SI
Fund	3.31	7.56	17.70 / 19	11.60 / 17	12.9	98 / 17	12.94 / 12	11.75 / 10	12.14
Benchmark	7.75	7.66	17.57 / 20	10.96 / 26	12.4	46 / 26	11.83 / 31	10.60 / 31	
Peer Group Median	3.41	5.44	14.85 / 50	9.68 / 50	11.3	28 / 50	10.95 / 50	9.98 / 50	
Number of Funds			801	732	(	667	609	564	
CALENDAR 20	17	2016	2015	2014	2013	2012	2011	2010	2009
Fund 11	.18	25.63	-3.62	2.92	45.06	18.24	-3.25	31.29	28.06
Benchmark 14	.65	21.31	-4.41	4.89	38.82	16.35	-4.18	26.85	27.17
		20.65	-4.54	4.82	37.76	15.74	-3.07	25.86	28.62

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.83	0.00	-0.45
Beta	0.98	1.00	0.91
R-Squared	94.04	100.00	92.76
Sharpe Ratio	0.80	0.76	0.71
Up Market Capture	98.20	100.00	88.02
Down Market Capture	93.24	100.00	91.26
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.56	0.00	-0.15
Beta	0.99	1.00	0.93
R-Squared	94.68	100.00	93.27
Sharpe Ratio	0.90	0.89	0.84
Up Market Capture	99.90	100.00	88.55
Down Market Capture	96.72	100.00	91.22

NOTES



0.0

0.0

89.0

0.28%

3.65%

0.0

0.0

50.2

49.8

### BlackRock Russell 2000 Index-T

6/29/2018

Fund Incep Date: 01/02/2001

Benchmark: Russell 2000 Index Category: Small Blend Net Assets: NA Manager Name: Team Managed Manager Start Date: 01/02/2001

Expense Ratio: 0.07%

Expense Rank:

### PORTFOLIO COMPOSITION (Holdings-based)

Assets

Cash	0.00%
US Stocks	0.00%
US Bonds	0.00%
Non-US Stocks	0.00%
Preferred Stocks	0.00%
Convertible Bonds	0.00%
Other	0.00%
Non-US Bonds	0.00%

#### Sector Breakdown

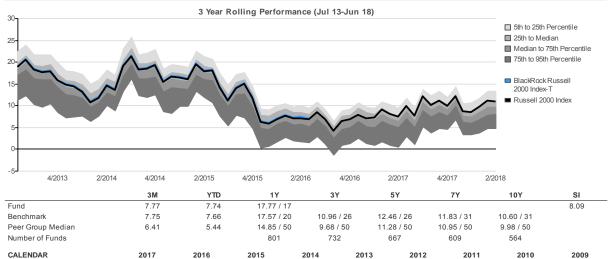
Total:

Sensitive	
Communication Services	0.00%
Industrials	0.00%
Technology	0.00%
Energy	0.00%
Cyclical	
Basic Materials	0.00%
Consumer Cyclical	0.00%
Real Estate	0.00%
Financial Services	0.00%
Defensive	
Consumer Defensive	0.000/
	0.00%
Healthcare	0.00%
Utilities	0.00%
TOP 10 HOLDINGS	

#### INVESTMENT OVERVIEW

The Fund is an "index fund" that seeks investment results that correspond generally to the price and yield performance, before fees and expenses, of the Russell 2000 Index.

### PERFORMANCE



-4.21

-4.41

-4.54

#### **RISK & PERFORMANCE STATISTICS**

Fund

NA%

Benchmark

Peer Group Median

NO	ш	=0
NO	ш	_3

4.89

4.82

39.10

38.82

37.76

16.54

16.35

15.74

-4.16

-4.18

-3.07

26.83

26.85

25.86

ASS	SET LOADINGS (Returns-based)	
400	FUND EXPOSURES (W EIGHT) (Jul 15-Jun 18)	
100-		
75-		
50-		
25-		
0-		
	Current Av erage	
	Fund Bmk Fund Bmk	

	Current		Av erage	
	Fund	Bmk	Fund	Bmk
Cash	0.0	0.0	0.0	0.0
Top Value	0.0	0.0	0.0	0.0
Top Growth	0.1	0.0	0.0	0.0
Mid Value	0.0	0.0	0.0	0.0
Mid Growth	0.0	0.0	0.0	0.0
Sm Value	49.9	50.0	50.1	50.2
Sm Growth	50.0	50.0	49.8	49.8
	Top Value Top Growth Mid Value Mid Growth Sm Value	Cash         0.0           Top Value         0.0           Top Growth         0.1           Mid Value         0.0           Mid Growth         0.0           Sm Value         49.9	Fund         Bmk           Cash         0.0         0.0           Top Value         0.0         0.0           Top Growth         0.1         0.0           Mid Value         0.0         0.0           Mid Growth         0.0         0.0           Sm Value         49.9         50.0	Fund         Bmk         Fund           Cash         0.0         0.0         0.0           Top Value         0.0         0.0         0.0           Top Growth         0.1         0.0         0.0           Mid Value         0.0         0.0         0.0           Mid Growth         0.0         0.0         50.1           Sm Value         49.9         50.0         50.1

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	NA	0.00	-0.45
Beta	NA	1.00	0.91
R-Squared	NA	100.00	92.76
Sharpe Ratio	NA	0.76	0.71
Up Market Capture	NA	100.00	88.02
Down Market Capture	NA	100.00	91.26
			D O

14.88

14.65

12.75

21.31

20.65

Down Market Capture	INA	100.00	91.20
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	NA	0.00	-0.15
Beta	NA	1.00	0.93
R-Squared	NA	100.00	93.27
Sharpe Ratio	NA	0.89	0.84
Up Market Capture	NA	100.00	88.55
Down Market Capture	NA	100.00	91.22

27.27

27.17

28.62

### BlackRock EAFE Equity Index-T

### 6/29/2018

Fund Incep Date: 06/30/1999

Benchmark: MSCI EAFE

Category: Foreign Large Blend Net Assets: NA

Manager Name: Team Managed

Manager Start Date: 06/30/1999

Expense Ratio: 0.12% Expense Rank:

### PORTFOLIO COMPOSITION (Holdings-based)

Assets

Cash	0.00%
US Stocks	0.00%
US Bonds	0.00%
Non-US Stocks	0.00%
Preferred Stocks	0.00%
Convertible Bonds	0.00%
Other	0.00%
Non-US Bonds	0.00%

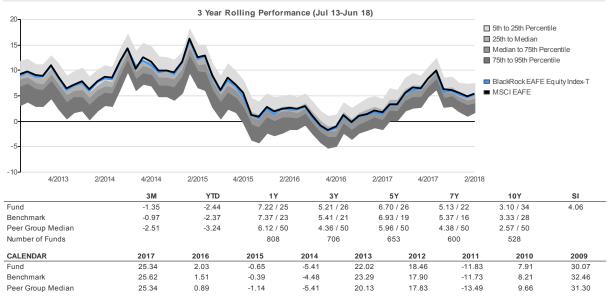
#### Sector Breakdown

Sensitive	
Communication Services	0.00%
Industrials	0.00%
Technology	0.00%
Energy	0.00%
Cyclical	
Basic Materials	0.00%
Consumer Cyclical	0.00%
Real Estate	0.00%
Financial Services	0.00%
Defensive	
Consumer Defensive	0.00%
Healthcare	0.00%
Utilities	0.00%
TOP 10 HOLDINGS	

#### INVESTMENT OVERVIEW

The Fund is an "index fund" that seeks investment results that correspond generally to the price and yield performance, before fees and expenses, of the MSCI EAFE Net Dividend Return Index.

### PERFORMANCE



#### Total: NA%

#### ASSET LOADINGS (Returns-based)

100-	FUND EXPOSURES (W EIGHT) (Jul 15-Jun 18)
75-	
50-	
25-	
0-	
-	

	Cu	rrent	Av erage			
	Fund	Bmk	Fund	Bmk		
Cash	4.0	3.0	5.3	1.5		
Europe Lg	60.0	55.7	61.4	59.1		
Europe Sm	3.4	5.1	3.5	3.5		
AsiaPac Lg	26.9	34.0	26.7	34.6		
AsiaPac Sm	4.2	1.1	2.0	0.8		
Emg Europe	0.2	1.2	0.2	0.6		
Emg Asia	1.3	0.0	0.9	0.0		

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.00	0.00	-0.63
Beta	0.95	1.00	0.91
R-Squared	98.03	100.00	91.16
Sharpe Ratio	0.43	0.44	0.36
Up Market Capture	95.51	100.00	89.12
Down Market Capture	96.04	100.00	92.16

· ·			
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.05	0.00	-0.58
Beta	0.97	1.00	0.93
R-Squared	98.34	100.00	91.63
Sharpe Ratio	0.59	0.60	0.53
Up Market Capture	96.88	100.00	90.71
Down Market Capture	97.54	100.00	94.84

#### **NOTES**

### American Funds Europacific Growth R6 RERGX

2.16%

2.11%

2.06%

1.98%

1.92%

1.86%

1.65%

21.22%

6/29/2018

Fund Incep Date: 05/01/2009

Benchmark:

MSCI ACWI ex USA GDP NR USD

Category: Foreign Large Growth

Net Assets: \$163,875.00M Manager Name: Mark E. Denning Manager Start Date: 12/31/1991

Expense Ratio: 0.49% Expense Rank:

### PORTFOLIO COMPOSITION (Holdings-based)



Sector Breakdown	
Sensitive	
Communication Services	3.12%
Industrials	10.25%
Technology	21.45%
Energy	5.47%
Cyclical	
Basic Materials	9.19%
Consumer Cyclical	11.79%
Real Estate	1.24%
Financial Services	19.10%
Defensive	
Consumer Defensive	8.98%
Healthcare	6.75%
Utilities	2.66%
TOP 10 HOLDINGS	
Samsung Electronics Co Ltd	2.62%
AIA Group Ltd	2.59%
Airbus SE	2.28%

### ASSET LOADINGS (Returns-based)

Taiwan Semiconductor Manufacturing Co Ltd

British American Tobacco PLC

Nintendo Co Ltd

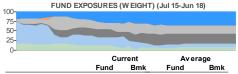
HDFC Bank Ltd

Total:

ASML Holding NV

Reliance Industries Ltd

Alibaba Group Holding Ltd ADR

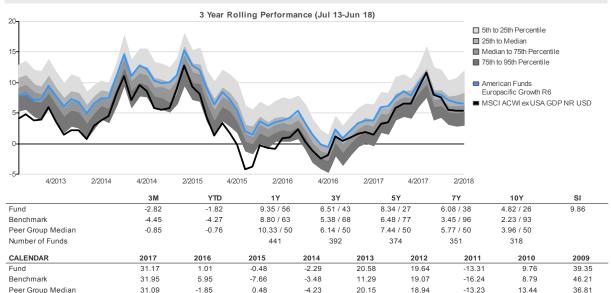


		Cu	rrent	Av erage			
		Fund	Bmk	Fund	Bmk		
T	Cash	7.9	0.0	9.7	0.0		
1	Europe Lg	8.3	36.0	21.4	22.5		
1	Europe Sm	26.5	0.0	19.2	2.2		
	AsiaPac Lg	19.9	6.8	20.9	20.1		
1	AsiaPac Sm	0.0	0.0	0.3	0.0		
1	Emg Europe	0.0	11.3	0.0	16.7		
1	Emg Asia	37.4	46.0	28.6	38.6		

#### INVESTMENT OVERVIEW

The investment seeks long-term growth of capital. The fund invests primarily in common stocks of issuers in Europe and the Pacific Basin that the investment adviser believes have the potential for growth. Growth stocks are stocks that the investment adviser believes have the potential for above-average capital appreciation. It normally will invest at least 80% of its net assets in securities of issuers in Europe and the Pacific Basin. The fund may invest a portion of its assets in common stocks and other securities of companies in emerging markets.

#### PERFORMANCE



NOTES

#### **RISK & PERFORMANCE STATISTICS**

3 Yr	Fund	Benchmark	Peer Group
			Median
Alpha	2.01	0.00	1.82
Beta	0.77	1.00	0.74
R-Squared	88.96	100.00	77.67
Sharpe Ratio	0.55	0.40	0.52
Up Market Capture	84.05	100.00	80.24
Down Market Capture	75.87	100.00	74.32
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	3.02	0.00	2.33
Beta	0.77	1.00	0.77
R-Squared	85.78	100.00	76.35
Sharpe Ratio	0.76	0.52	0.66
Up Market Capture	84.57	100.00	81.27
Down Market Capture	69 22	100.00	70.59



# Capital Markets Overview

Please consider the investment objectives, risks, fees and expenses carefully before investing. The prospectus contains this and other information about the investment options. Depending on the investment options offered in your Plan, your registered representative can provide you with prospectuses for any mutual funds; any applicable annuity contracts and the annuity's underlying funds; and/or disclosure documents for investment options exempt from SEC registration. Please read them carefully before investing.

Past performance is not indicative of future results. Performance includes the reinvestment of any income. Returns will fluctuate; and an investment upon redemption may be worth more or less than its original value. Current performance may be higher or lower than the performance data shown. For up-to-date month end performance information please call 800-345-2345.

Rankings provided based on total return.

Sources: MPI Stylus Web, Morningstar, individual investment managers

### **Macroeconomic Summary**

### U.S. Economy

- U.S. economic growth decreased in the first guarter of 2018
  - The final estimate of GDP growth came in at an annualized rate of 2.2%. This reflects a decrease from 2.3% in the fourth quarter
- Q2 job creation started slowly, but added 244,000 and 213,000 new jobs in May and June, respectively
  - Unemployment rate dropped to 3.9% in April, a new post-recession low, before ending the guarter at 4%
- Trump Tariffs continue to create fear in financial markets
  - Effective June 1, Canada, Mexico and the EU are no longer exempt from the steel and aluminum tariffs
  - Trump announced additional 25% tariffs on \$50 billion worth of Chinese technology imports, effective July 6
- In June, the Fed approved another quarter-point hike, moving the Fed Funds rate to 2.00%
  - This is the seventh rate hike since the policymaking FOMC began raising rates off near-zero in 2015, with two more expected in 2018

### **Global Economy**

- The IMF's July World Economic Outlook projection for global growth remains at 3.9% for 2018 and 2019
  - Despite an unchanged projection from April, tariff increases by the U.S. and retaliatory measures by trading partners could derail the recovery and depress medium-term growth prospects
- Global political uncertainty remains over the medium-term
  - Tariffs continue to cause tension as companies begin to announce negative earnings revisions as the tariff implications become clearer
  - Mexico, Italy, and Brazil all face possible turnabout policy agendas with upcoming elections in 2018
- The IEA forecasts that strong economic growth around the world will continue to support strong oil consumption until at least 2023
  - Despite near-term expansion, the IEA predicts that growth will slow down by 2023, mainly due to China's effort to tackle poor air quality. An increase in sales of electric vehicles and deployment of natural gas vehicles into fleets of trucks and buses will significantly slow demand growth

### **Market Summary**

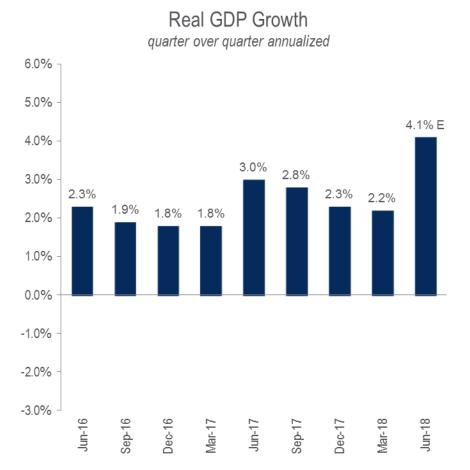
### **U.S. Markets**

- The S&P 500 Index closed the quarter with a gain of 3.43%, bringing year-to-date returns to 2.65%
  - As of June 30, 2018, three- and five-year annualized trailing returns for the S&P 500 Index were 11.9% and 13.4%, respectively
- Energy posted the strongest performance of all sectors for the quarter, returning 13.5%
- Industrials and Financials were the worst performing sectors for the guarter, returning -3.2%
- Small cap stocks outperformed large and mid-caps in Q2
  - Stylistically, small value stocks had the strongest performance, returning 8.3% in Q2, 2018
  - —The Bloomberg Barclays U.S. Aggregate Bond Index posted a quarterly return of -0.2% in Q2
    - · Fixed income continues to face the headwind of rising interest rates

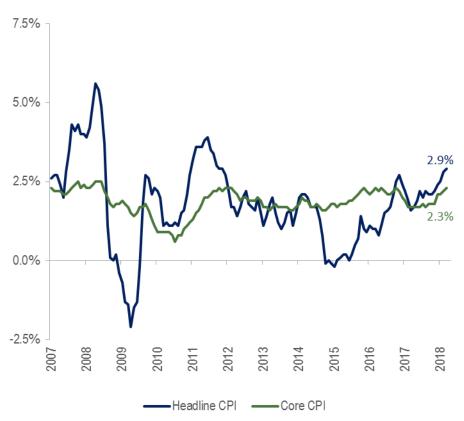
### **Global Markets**

- Emerging Market equities underperformed both domestic and developed international equities
  - The MSCI EAFE Index realized a total return of -1.2% for the quarter, trailing the S&P 500 index by 4.6%
  - The MSCI Emerging Markets Index realized a total return of -8.0% for the quarter, trailing the S&P 500 index by 11.4%
- Overall, through the medium and long-term, international equities continue to lag behind domestic equities
- Emerging Markets debt lagged US debt in Q2
  - The JPM EMBI Global Diversified Index lagged the Bloomberg Barclays US Agg by 3.3%, returning -3.5% for the guarter

# State of the U.S. Economy



U.S. Consumer Price Index annual percent change, through June 2018

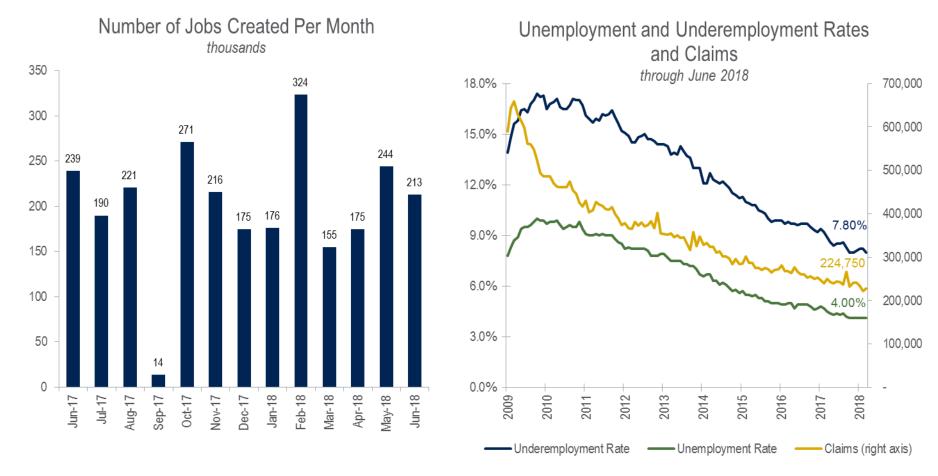


Source: Bloomberg; GWCM Analysis

The core measure of inflation excludes food and energy prices while the headline measure of inflation does not GDP estimates presented reflect the median estimate provided by Bloomberg



### **U.S. Labor Market Trends**



Source: Bloomberg; Bureau of Labor Statistics; GWCM Analysis

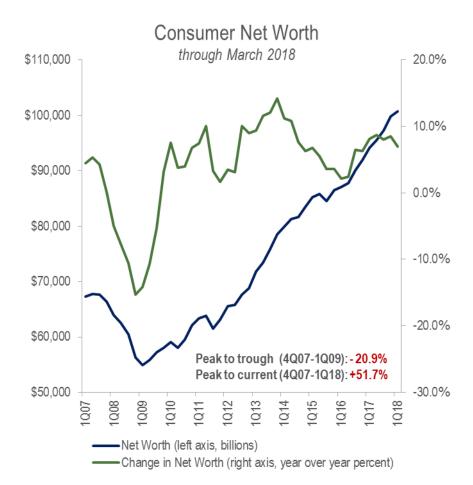
The Unemployment Rate represents total unemployed, as a percent of the civilian labor force

The Underemployment Rate represents total unemployed, plus all marginally attached workers, plus total employed part time for economic reasons, as a percent of the civilian labor force plus all marginally attached workers



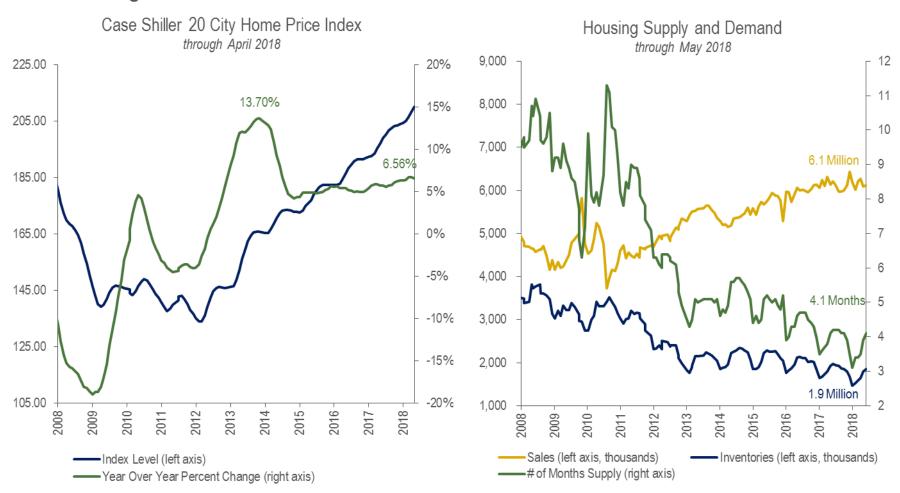
# U.S. Consumer Confidence, Spending and Net Worth





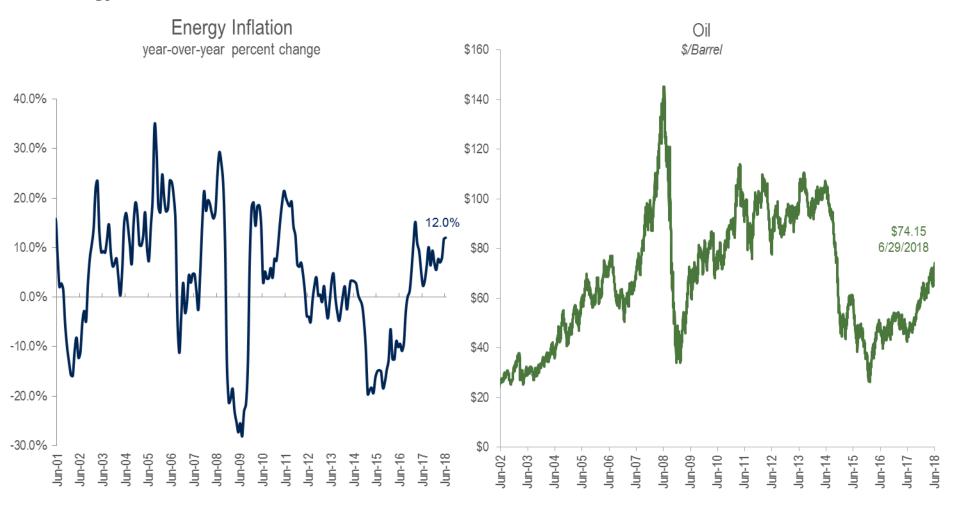
Source: Bloomberg; Federal Reserve; GWCM Analysis

# **U.S Housing Market Trends**



Source: Bloomberg; GWCM Analysis

# **Energy Inflation and Oil**

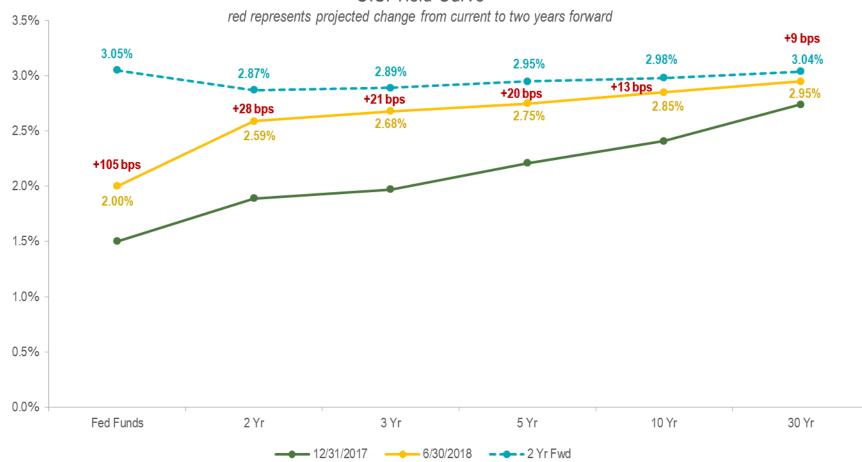


Source: Bloomberg; GWCM Analysis
Oil prices shown for West Texas Intermediate (WTI) Crude



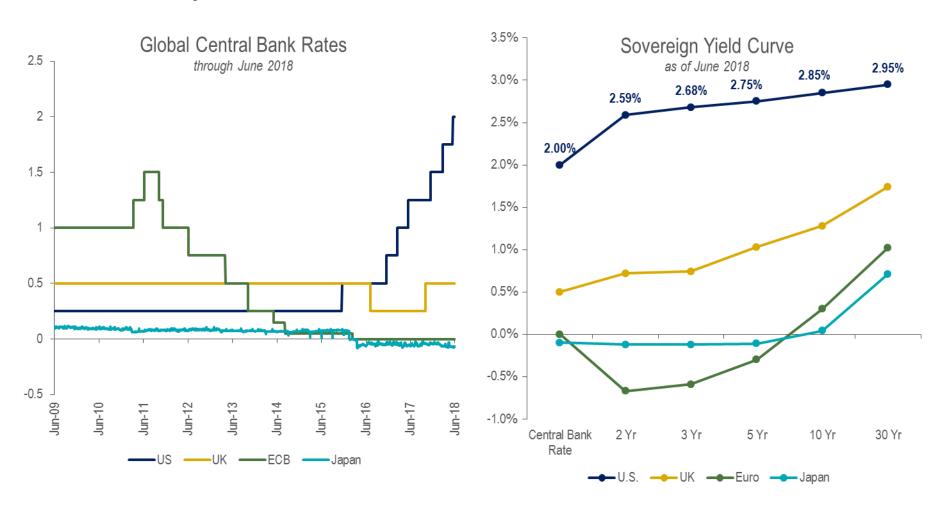
# **Historical, Current and Forward Rates**

U.S. Yield Curve



Source: Bloomberg; GWCM Analysis

# **Global Monetary Policies and Interest Rates**



Source: Bloomberg; GWCM Analysis

# The S&P 500 index generated a 3.43% return during the second quarter

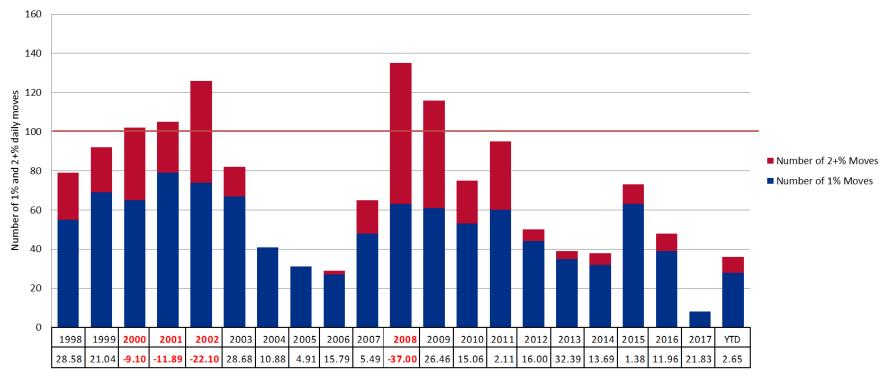
S&P 500 Index



Source: Morningstar Direct; GWCM Analysis

# At the mid-point of 2018, daily volatility is already 4.5 times higher than 2017, but does increased volatility result in lower annual returns?

- Looking at daily returns of the S&P 500 over the past 20 years, GWCM found that;
  - Years with low to moderate volatility experienced higher average annual returns than the average annual return for the 20 year period reviewed (14.77% vs 8.52%)
  - Years with high volatility produced negative annual returns in 4 of 5 occurrences in the past 20 calendar years



S&P 500 Annual Return (%)



# **Equity Market Returns**

(as of	June, 30 2018)	QTD	YTD	1 Year Trailing	3 Year Trailing	5 Year Trailing	10 Year Trailing	2017	2016	2015	2014	2013	2012	2011
Don	nestic Equity													
ap	S&P 500	3.4%	2.7%	14.4%	11.9%	13.4%	10.2%	21.8%	12.0%	1.4%	13.7%	32.4%	16.0%	2.1%
Large Cap	Russell 1000 Value	1.2%	-1.7%	6.8%	8.3%	10.3%	8.5%	13.7%	17.3%	-3.8%	13.5%	32.5%	17.5%	0.4%
Lar	Russell 1000 Growth	5.8%	7.3%	22.5%	15.0%	16.4%	11.8%	30.2%	7.1%	5.7%	13.1%	33.5%	15.3%	2.6%
ap	Russell Mid Cap	2.8%	2.4%	12.3%	9.6%	12.2%	10.2%	18.5%	13.8%	-2.4%	13.2%	34.8%	17.3%	-1.6%
Mid Cap	Russell Mid Cap Value	2.4%	-0.2%	7.6%	8.8%	11.3%	10.1%	13.3%	20.0%	-4.8%	14.8%	33.5%	18.5%	-1.4%
	Russell Mid Cap Growth	3.2%	5.4%	18.5%	10.7%	13.4%	10.5%	25.3%	7.3%	-0.2%	11.9%	35.7%	15.8%	-1.7%
Small Cap	Russell 2000	7.8%	7.7%	17.6%	11.0%	12.5%	10.6%	14.7%	21.3%	-4.4%	4.9%	38.8%	16.4%	-4.2%
= C	Russell 2000 Value	8.3%	5.4%	13.1%	11.2%	11.2%	9.9%	7.8%	31.7%	-7.5%	4.2%	34.5%	18.1%	-5.5%
Sm	Russell 2000 Growth	7.2%	9.7%	21.9%	10.6%	13.7%	11.2%	22.2%	11.3%	-1.4%	5.6%	43.3%	14.6%	-2.9%
Inte	rnational Equity													
	MSCIEAFE	-1.2%	-2.8%	6.8%	4.9%	6.4%	2.8%	25.0%	1.0%	-0.8%	-4.9%	22.8%	17.3%	-12.1%
Ś	Australia	5.2%	-1.3%	8.7%	7.1%	5.0%	3.5%	19.9%	11.5%	-10.0%	-3.4%	4.2%	22.1%	-11.0%
ırket	Canada	4.7%	-3.0%	9.1%	4.5%	4.1%	0.7%	16.1%	24.6%	-24.2%	1.5%	5.6%	9.1%	-12.7%
W N	France	-0.5%	-0.1%	9.9%	8.7%	8.2%	2.3%	28.8%	4.9%	-0.1%	-9.9%	26.3%	21.3%	-16.9%
Developed Markets	Germany	-4.0%	-7.4%	2.6%	5.3%	6.4%	2.5%	27.7%	2.8%	-1.9%	-10.4%	31.4%	30.9%	-18.1%
evel	Japan	-2.8%	-2.0%	10.5%	6.3%	7.4%	3.5%	24.0%	2.4%	9.6%	-4.0%	27.2%	8.2%	-14.3%
ă	Switzerland	-2.7%	-6.9%	-3.4%	1.0%	4.4%	5.0%	22.5%	-4.9%	0.4%	-0.1%	26.6%	20.4%	-6.8%
	UK	3.0%	-1.1%	10.0%	3.1%	4.9%	2.7%	22.3%	-0.1%	-7.6%	-5.4%	20.7%	15.3%	-2.6%
	MSCI Emerging Markets	-8.0%	-6.7%	8.2%	5.6%	5.0%	2.3%	37.3%	11.2%	-14.9%	-2.2%	-2.6%	18.2%	-18.4%
(0	Brazil	-26.4%	-17.3%	-0.3%	3.1%	-2.5%	-6.1%	24.1%	66.2%	-41.4%	-14.0%	-16.0%	0.1%	-21.9%
rket	China	-3.5%	-1.8%	21.2%	7.1%	12.1%	6.0%	54.1%	0.9%	-7.8%	8.0%	3.6%	22.8%	-18.4%
Ma	India	-0.6%	-7.5%	6.5%	5.3%	9.0%	5.2%	38.8%	-1.4%	-6.1%	23.9%	-3.8%	26.0%	-37.2%
ging	Indonesia	-12.5%	-18.8%	-13.1%	2.6%	-2.7%	4.2%	24.2%	17.0%	-19.5%	26.6%	-23.5%	4.7%	6.0%
Emerging Markets	Korea	-9.2%	-9.6%	3.4%	10.4%	7.5%	4.9%	47.3%	8.8%	-6.7%	-11.1%	3.9%	21.2%	-12.0%
Ш	Mexico	-3.6%	-2.7%	-9.3%	-3.8%	-3.3%	0.3%	16.0%	-9.2%	-14.4%	-9.3%	0.2%	29.1%	-12.1%
	Russia	-6.0%	2.8%	26.0%	11.0%	1.3%	-5.6%	5.2%	54.8%	4.2%	-46.3%	0.8%	13.7%	-19.6%

Source: Morningstar Direct; GWCM Analysis

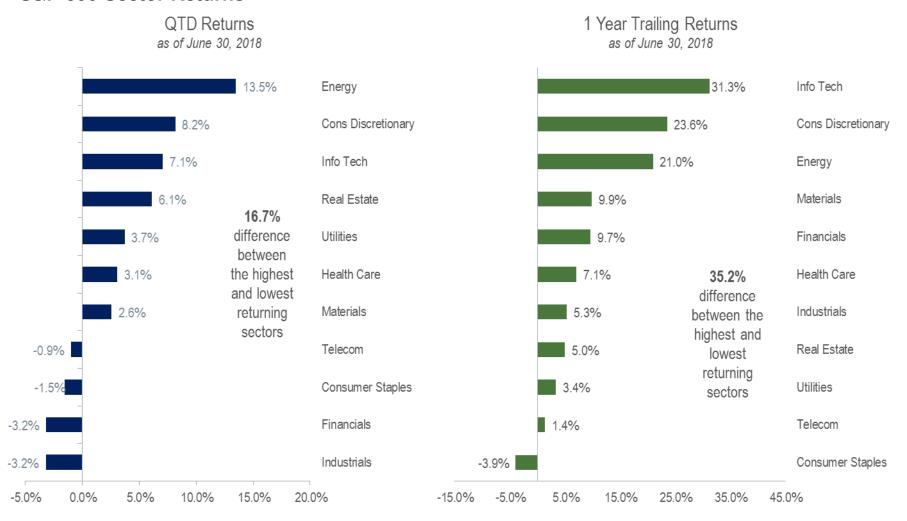
Individual country returns are represented by MSCI indices and shown as USD returns

Past performance is not a guarantee or prediction of future results.



<sup>\*</sup>Canada is not part of the EAFE Index

### **S&P 500 Sector Returns**



Source: Morningstar Direct; GWCM Analysis

# **Returns by Style**

		3 Months				1 Year		;	Since Market Peak (October, 2007)				
	Value	Blend	Growth		Value	Blend	Growth		Value	Blend	Growth		
Large	1.2%	3.4%	5.8%	Large	6.8%	14.4%	22.5%	Large	79.2%	118.7%	168.7%		
Mid	2.4%	2.8%	3.2%	Mid	7.6%	12.3%	18.5%	Mid	117.8%	129.0%	139.8%		
Small	8.3%	7.8%	7.2%	Small	13.1%	17.6%	21.9%	Small	105.3%	125.5%	145.2%		
		3 Year				5 Year			Since Mar	ket Low (Ma	rch, 2009)		
	Value	Blend	Growth		Value	Blend	Growth		Value	Blend	Growth		
Large	8.3%	11.9%	15.0%	Large	10.3%	13.4%	16.4%	Large	346.9%	388.6%	448.1%		
Mid	8.8%	9.6%	10.7%	Mid	11.3%	12.2%	13.4%	Mid	456.2%	452.6%	454.4%		
Small	11.2%	11.0%	10.6%	Small	11.2%	12.5%	13.7%	Small	407.6%	443.8%	478.6%		

performance as of 06/30/2018

Source: Morningstar Direct; GWCM Analysis; Large Blend - S&P 500 Index, Large Value - Russell 1000 Value Index, Large Growth - Russell 1000 Growth Index, Mid Blend - Russell Mid Cap Index, Mid Value - Russell Mid Cap Value Index, Mid Growth - Russell Mid Cap Growth Index, Small Blend - Russell 2000 Index, Small Value - Russell 2000 Value Index, Small 2000 Value Index, Small Value - Russell 2000 Value Index, Small Growth - Russell 2000 Growth Index

# **Fixed Income and Specialty Returns**

(as of June 30, 2018)	QTD	YTD	1 Year Trailing	3 Year Trailing	5 Year Trailing	10 Year Trailing	2017	2016	2015	2014	2013	2012	2011
Fixed Income													
Bloomberg Barclays US Aggregate	-0.2%	-1.6%	-0.4%	1.7%	2.3%	3.7%	3.5%	2.7%	0.6%	6.0%	-2.0%	4.2%	7.8%
Bloomberg Barclays US Treasury	0.1%	-1.1%	-0.7%	1.0%	1.5%	3.0%	2.3%	1.0%	0.8%	5.1%	-2.8%	2.0%	9.8%
Bloomberg Barclays US Govt/Credit Intermediate	0.0%	-1.0%	-0.6%	1.2%	1.6%	3.1%	2.1%	2.1%	1.1%	3.1%	-0.9%	3.9%	5.8%
Bloomberg Barclays US Govt/Credit Long	-1.5%	-5.0%	-0.8%	4.3%	5.1%	6.8%	10.7%	6.7%	-3.3%	19.3%	-8.8%	8.8%	22.5%
Bloomberg Barclays US TIPS	0.8%	0.0%	2.1%	1.9%	1.7%	3.0%	3.0%	4.7%	-1.4%	3.6%	-8.6%	7.0%	13.6%
Bloomberg Barclays US Corporate High Yield	1.0%	0.2%	2.6%	5.5%	5.5%	8.2%	7.5%	17.1%	-4.5%	2.5%	7.4%	15.8%	5.0%
Citi WGBI	-3.4%	-0.9%	1.9%	2.8%	1.1%	2.1%	7.5%	1.6%	-3.6%	-0.5%	-4.0%	1.7%	6.4%
JPM EMBI Global Diversified	-3.5%	-5.2%	-1.6%	4.6%	5.2%	6.8%	10.3%	10.2%	1.2%	7.4%	-5.3%	17.4%	7.4%
Citi Treasury Bill 3 Month	0.4%	0.8%	1.3%	0.6%	0.4%	0.3%	0.8%	0.3%	0.0%	0.0%	0.1%	0.1%	0.1%
Specialty													
Bloomberg Commodity	0.4%	0.0%	7.4%	-4.5%	-6.4%	-9.0%	1.7%	11.8%	-24.7%	-17.0%	-9.5%	-1.1%	-13.3%
DJ US Select REIT	10.0%	1.8%	4.2%	7.7%	8.3%	7.6%	3.8%	6.7%	4.5%	32.0%	1.2%	17.1%	9.4%
FTSE EPRA/NAREIT Developed Ex US	0.6%	0.0%	9.8%	5.7%	5.7%	4.3%	20.8%	2.0%	-3.2%	3.2%	6.1%	38.6%	-15.4%

Source: Morningstar Direct; GWCM Analysis

Past performance is not a guarantee or prediction of future results.



# **Calendar Year Returns by Asset Class**

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Emrg Mkt	Agg Bond	Emrg Mkt	Sm Growth	Agg Bond	Mid Value	Sm Growth	Mid Value	Lg Growth	Sm Value	Emrg Mkt
39.4	5.2	78.5	29.1	7.8	18.5	43.3	14.7	5.7	31.7	37.3
Lg Growth 11.8	Balanced -22.1	Mid Growth 46.3	Mid Growth 26.4	Balanced 4.7	Emrg Mkt 18.2	Mid Growth 35.7	Lg Value 13.5	Balanced 1.3	Mid Value 20.0	Lg Growth 30.2
Mid Growth	Sm Value	Lg Growth	Mid Value	Lg Growth	Sm Value	Sm Value	Lg Growth	Agg Bond	Lg Value	Mid Growth 25.3
11.4	-28.9	37.2	24.8	2.6	18.1	34.5	13.0	0.5	17.3	
International 11.2	Lg Value -36.8	Sm Growth 34.5	Sm Value 24.5	Lg Value 0.4	Lg Value 17.5	Lg Growth 33.5	Mid Growth 11.9	Mid Growth -0.2	Sm Growth 11.3	International 25.0
Sm Growth	Lg Growth	Mid Value	Emrg Mkt	Mid Value	International	Mid Value	Balanced	International -0.8	Emrg Mkt	Sm Growth
7.0	-38.4	34.2	18.9	-1.4	17.3	33.5	10.6		11.2	22.2
Agg Bond	Mid Value	International 31.8	Lg Growth	Mid Growth	Mid Growth	Lg Value	Agg Bond	Sm Growth	Balanced	Balanced
7.0	-38.4		16.7	-1.7	15.8	32.5	6.0	-1.4	8.3	14.2
Balanced 6.2	Sm Growth -38.5	Sm Value 20.6	Lg Value 15.5	Sm Growth -2.9	Lg Growth 15.3	International 22.8	Sm Growth 5.6	Lg Value -3.8	Mid Growth 7.3	Lg Value 13.7
Lg Value	International -43.4	Lg Value	Balanced	Sm Value	Sm Growth	Balanced	Sm Value	Mid Value	Lg Growth	Mid Value
-0.2		19.7	12.1	-5.5	14.6	17.6	4.2	-4.8	7.1	13.3
Mid Value	Mid Growth	Balanced	International 7.8	International	Balanced	Agg Bond	Emrg Mkt	Sm Value	Agg Bond	Sm Value
-1.4	-44.3	18.4		-12.1	11.3	-2.0	-2.2	-7.5	2.6	7.8
Sm Value	Emrg Mkt	Agg Bond	Agg Bond	Emrg Mkt	Agg Bond	Emrg Mkt	International	Emrg Mkt	International 1.0	Agg Bond
-9.8	-53.3	5.9	6.5	-18.4	4.2	-2.6	-4.9	-14.9		3.5

Source: Morningstar Direct; GWCM Analysis; Lg Growth - Russell 1000 Growth Index, Lg Value - Russell 1000 Value Index, Mid Growth - Russell Mid Cap Growth Index, Mid Value -Russell Mid Cap Value Index, Sm Growth - Russell 2000 Growth Index, Sm Value - Russell 2000 Value Index, International - MSCI EAFE NR Index, Emrg Mkt - MSCI EM NR Index, Agg Bond – Bloomberg Barclays US Aggregate Bond Index, Balanced – 60% S&P 500 Index and 40% Bloomberg Barclays US Aggregate Bond Index

### **Disclosures and Benchmark Definitions**

The opinions expressed herein are subject to change. The opinions are not investment advice, and should not be relied on as such. The information presented in this report was developed internally and/or obtained from sources believed to be reliable; however, GWFS Equities, Inc., and its parent company, Great-West Life & Annuity Insurance Company (GWL&A), do not guarantee the accuracy, adequacy, or completeness of such information. Predictions, opinions, and other information contained in this report are subject to change continually and without notice of any kind and may no longer be true after the date indicated.

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Past performance, where discussed in this material, is not a guarantee of future results. As with any investment, there is a potential for profit as well as the possibility of loss.

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The Citigroup 3-Month T-Bill Index is an unmanaged index that is generally representative of 3-month Treasury bills and consists of an average of the last 3-month U.S. Treasury Bill issues.

The MSCI Emerging Markets Index represents the performance of stocks in 26 emerging market countries in Europe, Latin America and the Pacific Basin.

The Bloomberg Barclays Capital US Aggregate Bond Index includes fixed rate debt issues rated investment grade or higher by Moody's Investors Service, Standard and Poor's, or Fitch Investor's Service, in that order. All issues must have at least 1 year left to maturity and have an outstanding par value of at least \$100 million. The Aggregate Index is comprised of the Government/Corporate, the Mortgage-Backed Securities, and the Asset-Backed Securities indices.

The Standard & Poor's 500 is a market capitalization-weighted index of 500 widely held stocks often used as a proxy for the stock market. Standard and Poor's chooses the member companies for the 500 based on market size, liquidity and industry group representation. Included are the stocks of industrial, financial, utility, and transportation companies. Since mid-1989, this composition has been more flexible and the number of issues in each sector has varied. The returns presented for the S&P 500 are total returns, including the reinvestment of dividends each month.

The Russell 1000 Value - Market capitalization-weighted index of those firms in the Russell 1000 with lower price-to-book ratios and lower forecasted growth values. The Russell 1000 includes the largest 1000 firms in the Russell 3000, which represents approximately 98% of the investable U.S. equity market.

The Russell 1000 Growth - Market capitalization-weighted index of those firms in the Russell 1000 with higher price-to-book ratios and higher forecasted growth values. The Russell 1000 includes the largest 1000 firms in the Russell 3000, which represents approximately 98% of the investable U.S. equity market.

### **Disclosures and Benchmark Definitions**

The Russell 2000 - Consists of the smallest 2000 companies in the Russell 3000 Index, representing approximately 7% of the Russell 3000 total market capitalization. Returns include reinvestment of dividends.

The Russell 2000 Value - Market-weighted total return index that measures the performance of companies within the Russell 2000 Index having lower price-to-book ratios and lower forecasted growth values. The Russell 2000 Index includes the 2000 firms from the Russell 3000 Index with the smallest market capitalizations.

The Russell 2000 Growth - Market-weighted total return index that measures the performance of companies within the Russell 2000 Index having higher price-to-book ratios and higher forecasted growth values. The Russell 2000 Index includes the 2000 firms from the Russell 3000 Index with the smallest market capitalizations.

The Russell Mid-Cap - Measures the performance of the 800 smallest companies in the Russell 1000 Index, which represent approximately 24% of the total market capitalization of the Russell 1000 Index.

The Russell Mid-Cap Value - Market-weighted total return index that measures the performance of companies within the Russell Mid-Cap Index having lower price-to-book ratios and lower forecasted growth values. The Russell Mid-Cap Index includes firms 201 through 1000, based on market capitalization, from the Russell 3000 Index.

The Russell Mid-Cap Growth - Market-weighted total return index that measures the performance of companies within the Russell Mid-Cap Index having higher price-to-book ratios and higher forecasted growth values. The Russell Mid-Cap Index includes firms 201 through 1000, based on market capitalization, from the Russell 3000 Index.

The Bloomberg Barclays U.S. Treasury Index includes public obligations of the U.S. Treasury with a remaining maturity of one year or more.

The Bloomberg Barclays US Corporate High Yield Index measures the US corporate market of non-investment grade, fixed-rate corporate bonds. Securities are classified as high yield if the middle rating of Moody's, Fitch, and S&P is Ba1/BB+/BB+ or below.

The Bloomberg Commodity Index measures price movements of the commodities included in the appropriate sub index. It does not account for effects of rolling futures contracts or costs associated with holding the physical commodity.

The Bloomberg Barclays US Government/Credit Intermediate Index measures the performance of U.S. Dollar denominated U.S. Treasuries, government-related and investment grade U.S. corporate securities that have a remaining maturity of greater than one year and less than ten years.

### **Disclosures and Benchmark Definitions**

The Bloomberg Barclays US Government/Credit Long Index includes publicly issued U.S. Treasury debt, U.S. government agency debt, taxable debt issued by U.S. states and territories and their political subdivisions, debt issued by U.S. and non-U.S. corporations, non-U.S. government debt and supranational debt.

The Citi World Government Bond Index is an index of bonds issued by governments in the U.S., Europe and Asia.

The Citigroup 3-Month T-Bill Index – The Citigroup 3-Month T-Bill Index is an unmanaged index that is generally representative of 3-month Treasury bills and consists of an average of the last 3-month U.S. Treasury Bill issues.

The JPMorgan Emerging Markets Bond Index Global tracks total returns for traded external debt instruments in the emerging markets, and is an expanded version of the JPMorgan EMBI+. As with the EMBI+, the EMBI Global includes U.S. dollar-denominated Brady bonds, loans, and Eurobonds with an outstanding face value of at least \$500 million. It covers more of the eligible instruments than the EMBI+ by relaxing somewhat the strict EMBI+ limits on secondary market trading liquidity.

The Bloomberg Barclays US TIPS Index includes all publicly issued, U.S. Treasury inflation-protected securities that have at least one year remaining to maturity, are rated investment grade, and have \$250 million or more of outstanding face value.

The Dow Jones U.S. Select REIT Index intends to measure the performance of publicly traded REITs and REIT-like securities. The index is a subset of the Dow Jones U.S. Select Real Estate Securities Index (RESI), which represents equity real estate investment trusts (REITs) and real estate operating companies (REOCs) traded in the U.S.

The FTSE EPRA/NAREIT Developed ex US Index is a subset of the FTSE EPRA/NAREIT Developed Index and is designed to track the performance of listed real estate companies and REITS.

Source: Morningstar Direct.

# **Disclosures**

Carefully consider the investment objectives, risks, fees and expenses of the annuity and/or the investment options. Contact us for a prospectus, a summary prospectus and disclosure document, as available, containing this information. Read them carefully before investing.

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# Disclosures

Morningstar rankings are based on total return and do not reflect of sales charges, which, if reflected, would reduce returns,

The date in a target date fund's name represents an approximate date when an investor is expected to retire (which is assumed to be at age 65) and/or begins withdrawing money. The principal value of the funds is not guaranteed at any time, including the target date. For more information, please refer to the fund prospectus and/or disclosure document. A target date fund will gradually shift its emphasis from more aggressive investments to more conservative ones based on its target date (which is the assumed retirement date for an investor).

Asset allocation and balanced investment options and models are subject to the risks of the underlying investments, which can be a mix of stocks/stock funds and bonds/bond funds. For more information, see the prospectus and/or disclosure documents.

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Equity securities of small and mid-sized companies may be more volatile than securities of larger, more established companies.

Real estate securities and trusts involve greater risks than other non-diversified investments, including but not limited to: declining property values, varying economic conditions, changes in zoning laws, or losses from casualty. Real estate securities that invest in foreign real estate involve additional risk, including currency fluctuations and political developments.

Investment return and principal value of a variable investment will fluctuate so that an investor's shares when redeemed, may be worth more or less than the original cost.

There is no quarantee that companies that can issue dividends will declare, continue to pay, or increase dividends.

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The Trustee of the JPMCB SmartRetirement Funds agrees to reimburse the Fund for such fund operating expenses, and/or to waive a portion of the Trustee's management fee, to the extent that the fund's total annual operating expenses (excluding management fees, service fees, underlying fund fees attributable to dividend and interest expenses on short sales, interest, expenses related to litigation and potential litigation, and extraordinary expenses not incurred in the ordinary course of the Fund's business) exceeds 0.04% of the Fund's average daily new assets through the expense cap expiration date.

The price of equity securities may rise or fall because of changes in the broad market or changes in a company's financial condition, sometimes rapidly or unpredictably. These price movements may result from factors affecting individual companies, sectors or industries selected for the Fund's portfolio or the securities market as a whole, such as changes in economic or political conditions. Equity securities are subject to "stock market risk" meaning that stock prices in general (or in particular, the prices of the types of securities in which a fund invests) may decline over short or extended periods of time. When the value of a fund's securities goes down, an investment in a fund decreases in value.

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