State of Wisconsin Deferred Compensation Plan

Investment Performance and Expense Ratio Review

Performance as of June 30, 2019

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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	BlackRock US Debt Index, Federated US Gov Securities, Vanguard Long-Term Investment Grade	American Beacon Bridgeway Large Cap Value	Vanguard Institutional 500 Trust Index	Fidelity Contrafund Commingled Pool, Calvert U.S. Core Large Cap Resp Idx	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 "Delegators"
Balanced/Lifestyle/Lifecycle	Managed Accounts

Vanguard Target Retirement Trusts, Vanguard Wellington

Professional Management Program - Ibbotson

	Specialty "Sophisticates"	
Brokerage	Other	Company Stock

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.

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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
American Funds EuroPacific Gr R6	3.87	1.91	10.84	4.45	8.15	157,004	0.49
Morningstar Foreign Large Growth Avg	4.81	2.25	9.63	4.09	8.20	-	1.13
MSCI EAFE Index	3.68	1.08	9.11	2.25	6.90	-	-
MSCI ACWI ex U.S.	2.98	1.29	9.39	2.16	6.54	-	-
Blackrock EAFE Equity Index Coll T	3.90	1.40	9.44	2.52	7.15	-	0.06
MSCI EAFE Index	3.68	1.08	9.11	2.25	6.90	-	-
DFA US Micro Cap I	0.85	-7.48	10.54	6.33	13.91	6,292	0.52
Momingstar Small Cap Blend Avg	2.21	-3.76	10.09	5.65	12.70	-	1.15
Russell 2000 Index	2.10	-3.31	12.30	7.06	13.45	-	-
Blackrock Russell 2000 Index Coll T	2.10	-3.23	12.46	7.25	13.61	-	0.05
Russell 2000 Index	2.10	-3.31	12.30	7.06	13.45	-	-
T. Rowe Price Mid-Cap Growth	6.93	15.93	16.75	12.88	16.98	33,831	0.75
Morningstar Mid Cap Growth Avg	5.61	9.88	15.59	9.78	14.53	-	1.19
Russell Mid Cap Growth Index	5.40	13.94	16.49	11.10	16.02	-	-
S&P Midcap 400 Index	3.05	1.36	10.90	8.02	14.64	-	-
Blackrock Midcap Equity Index Coll F	3.05	1.40	10.97	8.09	14.71	-	0.04
S&P MidCap 400 Index	3.05	1.36	10.90	8.02	14.64	-	-
Calvert US Large Cap Core Rspnb ldx R6	4.55	12.11	14.61	10.91	14.93	3,030	0.19
S&P 500 Index	4.30	10.42	14.19	10.71	14.70	-	-
Morningstar Socially Resp Large Cap Avg**	4.24	9.57	13.97	9.51	13.62	-	0.95
Morningstar Large Cap Growth Avg	4.63	10.02	16.97	11.33	14.71	-	1.08
Fidelity Contrafund Commingled Pool Cl 2	5.55	8.44	18.38	12.80	-		0.38
Morningstar Large Cap Growth Avg	4.63	10.02	16.97	11.33	14.71	-	1.08
Russell 1000 Growth Index	4.64	11.56	18.07	13.39	16.28	-	-
S&P 500 Index	4.30	10.42	14.19	10.71	14.70	-	-
American Beacon Bridgeway Lg Cap Value I CIT*	4.15	2.38	9.49	7.25	13.96	4,000	0.55
Morningstar Large Cap Value Avg	3.84	8.46	10.19	7.46	13.19	-	-
Russell 1000 Value Index	3.02	5.79	10.12	6.84	12.20	-	-

^{*} The American Beacon CIT returns presented in italics are linked to mutual fund performance.



^{**}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 500 Index Trust*	4.30	10.42	14.19	10.70	14.70		0.01
S&P 500 Inde	x 4.30	10.42	14.19	10.71	14.70	-	-
Vanguard Wellington Adm	3.91	10.38	9.84	7.55	10.75	106,286	0.17
Morningstar Moderate Allocation Av	g 2.95	5.73	7.79	5.04	8.93	-	1.11
Composite 65% S&P 500 / 35% Barclay's Aggregate	e 3.88	9.53	10.03	7.99	10.92	-	-
Composite 65% S&P 500 / 35% Barclay's U.S. Credit A or Better Id.	x 4.25	10.31	10.38	8.35	11.58	-	-
Vanguard Long-Term Investment-Grade Adm	6.48	14.77	4.63	6.19	8.41	18,947	0.12
Barclay's LT Corporate	A 4.16	10.12	3.29	3.96	5.78	-	-
Morningstar Corp Bon	d 3.82	9.33	3.84	3.63	5.70	-	0.82
Blackrock US Debt Index Fund Coll W	3.08	7.92	2.36	3.01	3.96	-	0.04
BarCap US Agg Bond TR USI	3.08	7.87	2.31	2.95	3.90	-	-
Federated US Govt 2-5 Yr Instl	2.25	5.57	0.95	1.16	1.61	266	0.59
Morningstar Short Government Av	g 1.30	3.54	1.02	1.03	1.35	-	0.76
Barclay's US Treas/Agency 3-5 Y	r 2.47	6.44	1.38	2.05	2.60	-	-
BofA Merrill Lynch US Treas 3-5 Y	r 2.42	6.34	1.38	2.03	2.55	-	-
Vanguard Admiral Treasury Money Mkt Inv	0.58	2.21	1.30	0.80	0.41	27,712	0.09
Morningstar Taxable Money Mkt Av	g 0.49	1.84	0.98	0.60	0.30	-	0.47
U.S. Treasury 90-Day T-Bi	II 0.57	2.26	1.41	0.88	0.48	-	-
iMoney Net Average Treasury MM	Л 0.46	1.72	0.87	0.52	0.26	-	-
Stable Value Fund	0.64	2.45	2.13	2.01	2.49	673	0.32
5 Yr. Constant Maturity Treasury Yiel	d 0.53	2.57	2.16	1.90	1.69	-	-

^{*} Italicized returns are taken from mutual fund share class..

3-Year Percentile Ranks 6/28/2019

	Q2 2019	Q1 2019	Q4 2018	Q3 2018	Q2 2018	Q1 2018	Q4 2017	Q3 2017	Q2 2017	Q1 2017	Q4 2016	Q3 2016
												% of Peer
	Group											
Group/Investment	Beaten											
				1				l				
Amer Beacon Bridge Lg Cp Val Inst	21	15	21	62	68	78	84	74	82	89	95	96
American Funds Europac Gro R6	73	72	69	56	59	66	68	69	73	74	77	78
BlackRock EAFE® Equity Index F	79	59	59	56	58	46	68	65	69	56	65	67
Blackrock Mid Cap Eq Idx Fund CF	61	68	90	73	90	90	93					
BlackRock Russell 2000® Index F	81	85	73	85	81	82	75	80	76	72	66	62
Blackrock US Debt ldx Fund CF	63	61	66	64	70	73	66	72	74	77	80	75
Calvert US Lg Cap Core Res Idx I	90	88	74	70	54	69	68	86	94	93	89	92
DFA US Micro Cap I	54	60	71	83	82	79	73	81	72	51	63	54
Federated US Govt 2-5 Yr Instl	48	33	40	16	24	23	45	55	49	58	46	66
Fidelity Contrafund Commingled PI 2	63	43	53	46	70	71	59	53	48	30	60	61
T. Rowe Price Mid-Cap Growth	62	57	72	55	68	86	89	95	96	96	95	97
Vanguard Institutional Index Instl Pl	84	87	89	92	93	91	89	90	91	94	94	95
Vanguard Long-Term Invt-Grd Adm	55	68	67	69	81	76	83	92	92	88	92	92
Vanguard Target Retire 2015 Trust I	67	65	65	62	64	65	63	65	72	70	80	71
Vanguard Target Retire 2025 Trust I	81	76	87	85	87	85	82	74	75	76	78	73
Vanguard Target Retire 2035 Trust I	81	78	77	74	75	76	67	62	63	61	61	68
Vanguard Target Retire 2045 Trust I	79	76	79	82	83	88	81	63	67	66	60	66
Vanguard Target Retire 2055 Trust I	72	69	80	69	67	75	63	47	55	57	50	58
Vanguard Target Retire Inc Trust I	58	51	68	57	67	75	67	69	78	80	83	83
Vanguard Wellington™ Admiral™	90	92	95	92	93	97	97	97	95	96	96	93

2nd Quartile

1st Quartile

Past performance is no guarantee of future results. Rankings provided based on total returns. Performance quoted for mutual funds may include performance of a predecessor fund/share class prior to the share class commencement of operations.

3rd Quartile

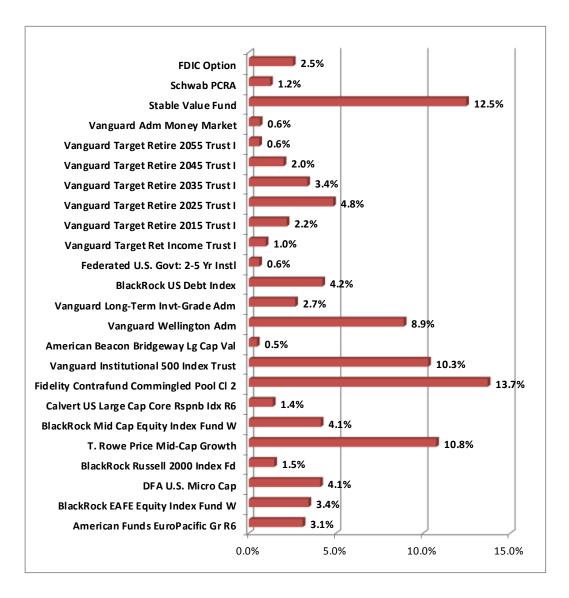
4th Quartile

^{*} Percentile ranks shown for American Beacon Bridgeway and Calvert US Large Cap Responsible Index are taken from oldest share class of their respective mutual funds.

Asset Summary 6/28/2019

							Percentage of WDC
	5 1 1 4		WD0 4	WDCasa	Fund as a		Participants
	Plan Inception Date	Fund Net Assets	WDC Assets in Fund	Percentage of Fund Assets	Percentage of WDC Assets	Number of Participants	Utilizing Fund
American Funds EuroPacific Gr R6	1/28/2005	\$157,003,811,319	\$166,779,995	0.11%	3.09%	16,072	24.81%
BlackRock EAFE Equity Index Fund W	2/1/2001	\$267,510,000	\$184,780,140	69.07%	3.43%	20,826	32.14%
DFA U.S. Micro Cap	2/1/1997	\$6,291,574,613	\$221,004,485	3.51%	4.10%	12,546	19.36%
BlackRock Russell 2000 Index Fd	2/20/2004	\$348,240,000	\$78,807,579	22.63%	1.46%	14,422	22.26%
T. Rowe Price Mid-Cap Growth	2/1/1998	\$33,831,311,429	\$579,735,912	1.71%	10.75%	31,500	48.62%
BlackRock Mid Cap Equity Index Fund W	2/1/2001	\$5,601,970,000	\$222,761,428	3.98%	4.13%	22,562	34.82%
Calvert US Large Cap Core Rspnb ldx R6	4/18/2003	\$3,029,995,597	\$74,307,901	2.45%	1.38%	18,100	27.94%
Fidelity Contrafund Commingled Pool CI 2	1/31/1994	\$120,889,859,357	\$739,246,918	0.61%	13.71%	32,890	50.77%
Vanguard Institutional 500 Index Trust	9/9/1990	\$69,808,000,000	\$554,845,072	0.79%	10.29%	28,414	43.86%
American Beacon Bridgeway Lg Cap Val	11/1/2017	\$181,838,149	\$25,358,237	13.95%	0.47%	15,751	24.31%
Vanguard Wellington Adm	10/26/2001	\$106,285,682,552	\$479,404,430	0.45%	8.89%	25,025	38.63%
Vanguard Long-Term Invt-Grade Adm	10/26/2001	\$18,947,313,648	\$143,665,670	0.76%	2.66%	16,000	24.70%
BlackRock US Debt Index	2/1/2001	\$11,793,280,000	\$227,394,251	1.93%	4.22%	18,918	29.20%
Federated U.S. Govt: 2-5 Yr Instl	2/3/1992	\$266,069,025	\$32,345,424	12.16%	0.60%	5,818	8.98%
Vanguard Target Ret Income Trust I	7/29/2005	\$1,965,000,000	\$52,265,891	2.66%	0.97%	1,855	2.86%
Vanguard Target Retire 2015 Trust I	7/29/2005	\$2,288,000,000	\$117,355,656	5.13%	2.18%	2,906	4.49%
Vanguard Target Retire 2025 Trust I	7/29/2005	\$9,866,000,000	\$261,133,432	2.65%	4.84%	6,515	10.06%
Vanguard Target Retire 2035 Trust I	7/29/2005	\$8,222,000,000	\$181,066,749	2.20%	3.36%	6,780	10.46%
Vanguard Target Retire 2045 Trust I	7/29/2005	\$5,898,000,000	\$107,698,334	1.83%	2.00%	6,387	9.86%
Vanguard Target Retire 2055 Trust I	8/18/2010	\$2,172,000,000	\$32,254,853	1.49%	0.60%	3,763	5.81%
Vanguard Adm Money Market	10/1/1993	\$27,711,500,000	\$34,050,323	0.12%	0.63%	6,473	9.99%
Stable Value Fund	9/1/1996	N/A	\$672,518,508	N/A	12.47%	25,984	40.11%
Schwab PCRA	2/17/2000	N/A	\$65,844,906	N/A	1.22%	1,197	1.85%
FDIC Option	12/31/1996	N/A	\$136,684,807	N/A	2.54%	10,843	16.74%

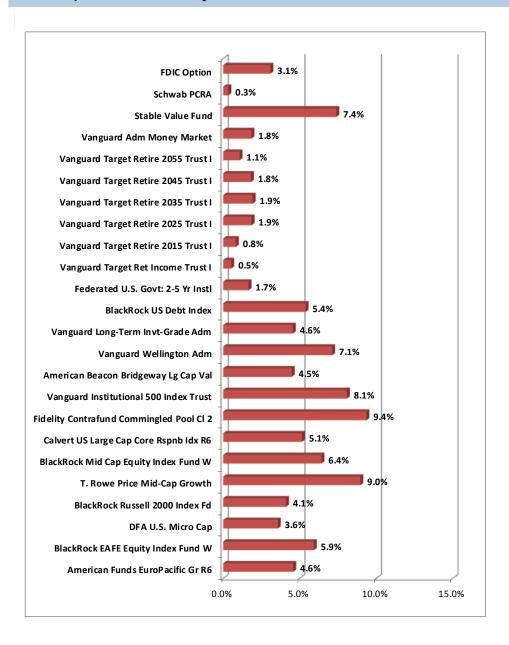
Asset Summary 6/28/2019



Total WDC Assets

\$5,391,310,904

Domestic Equity	\$2,496,067,533	46%
Intl Equity	\$351,560,136	7%
Asset Allocation	\$1,231,179,346	23%
Fixed Income	\$403,405,345	7%
Cash Equiv.	\$843,253,638	16%
Self-Directed Brok.	\$65,844,906	1%



Total WDC Participants 64,788

Expense Summary 6/28/2019

Name	Expense Ratio	Annual Expense per \$1000
American Funds EuroPacific Gr R6	0.49	\$4.90
Cat: Foreign Large Growth	1.13	
Blackrock EAFE Equity Index Fund W	0.06	\$0.60
Cat: Foreign Large Blend Index	0.41	
DFA U.S. Micro Cap	0.52	\$5.20
Cat: Small Blend	1.15	
Blackrock Russell 2000 Index Fd	0.05	\$0.50
Cat: Small Cap Blend Index	0.41	
T. Rowe Price Mid-Cap Growth	0.75	\$7.50
Cat: Mid Growth	1.19	
Blackrock Mid Cap Equity Index Fund W	0.04	\$0.40
Cat: Mid Cap Blend Index	0.48	
Calvert US Large Cap Core Rspnb ldx R6	0.19	\$1.90
Cat: Socially Resp Large Cap	0.95	
Fidelity Contrafund Commingled Pool Cl 2	0.38	\$3.80
Cat: Large Growth	1.08	
Vanguard Institutional 500 Index Trust	0.01	\$0.10
Cat: Large Cap Blend Index	0.45	
American Beacon Bridgeway Lg Cap Val	0.55	\$5.50
Cat: Large Value	1.00	
Stable Value Fund	0.32	\$3.20
Cat: Stable Value	0.70	

Name	Expense Ratio	Annual Expense per \$1000
Vanguard Wellington Adm	0.17	\$1.70
Cat: Moderate Allocation	1.11	
Vanguard Target Retirement 2055 Inv	0.07	\$0.70
Cat: Target Date 2050+	0.78	
Vanguard Target Retirement 2045 Inv	0.07	\$0.70
Cat: Target Date 2041-2045	0.78	
Vanguard Target Retirement 2035 Inv	0.07	\$0.70
Cat: Target Date 2031-2035	0.77	
Vanguard Target Retirement 2025 Inv	0.07	\$0.70
Cat: Target Date 2021-2025	0.75	
Vanguard Target Retirement 2015 Inv	0.07	\$0.70
Cat: Target Date 2011-2015	0.68	
Vanguard Target Retirement Income Inv	0.07	\$0.70
Cat: Retirement Income	0.76	
Vanguard Long-Term Invmt-Grade Adm	0.12	\$1.20
Cat: Corporate Bond	0.82	
Blackrock US Debt Index	0.04	\$0.40
Cat: Intermediate Bond Index	0.32	
Federated U.S. Govt: 2-5 Yr Instl*	0.59	\$5.90
Cat: Short Government	0.76	
Vanguard Adm Money Market	0.09	\$0.90
Average US Taxable Money Market Fund	0.47	

Asset-Weighted Average Expense Ratio: 0.21%



^{*} The Federated U.S. Govt. 2-5 Yr Fund shares revenue back to the plan's participants, which is not reflected in the expense ratios above. The expense ratio of the fund including this reimbursement would be 0.43 for the Federated fund.

Target Date Fund Summary



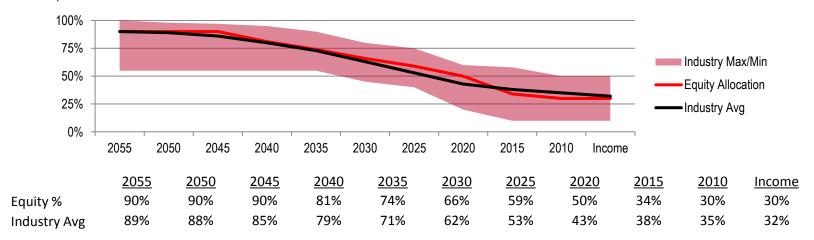
Name	Total Ret 3 Mth	Total Ret 1 Yr	Total Ret 3 Yr	Total Ret 5 Yr	Total Ret 10 Yr	Total Net Assets \$M	Expense Ratio	% Short- Term	% US Stocks	% Non US Stocks	%Inv Grade Bond	% High Yield Bond
Vanguard Target Retire Inc Trust I	2.96	6.62	5.24	4.18	6.36	2,288	0.07	4	18	11	67	0
S&P Target Date Retirement Income TR USD	2.82	5.90	5.02	3.94	6.03	-	-	-	-	-	-	-
Composite Returns*	3.15	6.71	4.78	3.72	5.67	-	-	-	-	-	-	-
Vanguard Target Retire 2015 Trust I	3.05	6.50	6.66	4.89	8.33	9,866	0.07	3	25	16	56	0
S&P Target Date 2015 TR USD	2.79	5.77	6.54	4.77	7.89	-	-	-	-	-	-	-
Composite Returns*	3.22	6.35	5.76	4.05	6.43	-	-	-	-	-	-	-
Vanguard Target Retire 2025 Trust I	3.39	6.70	8.69	5.94	9.79	8,222	0.07	2	38	24	36	0
S&P Target Date 2025 TR USD	2.99	5.70	8.09	5.52	9.33	-	-	-	-	-	-	-
Composite Returns*	3.35	5.71	7.55	4.68	7.82	-	-	-	-	-	-	-
Vanguard Target Retire 2035 Trust I	3.45	6.32	10.09	6.48	10.87	5,898	0.07	2	46	30	22	0
S&P Target Date 2035 TR USD	3.18	5.36	9.50	6.23	10.39	-	-	-	-	-	-	-
Composite Returns*	3.42	5.21	8.72	5.05	8.69	-	-	-	-	-	-	-
Vanguard Target Retire 2045 Trust I	3.51	5.94	11.05	6.86	11.24	2,172	0.07	2	53	35	10	0
S&P Target Date 2045 TR USD	3.32	5.15	10.32	6.61	10.94	-	-	-	-	-	-	-
Composite Returns*	3.48	4.79	9.72	5.37	9.43	-	-	-	-	-	-	-
Vanguard Target Retire 2055 Trust I	3.50	5.96	11.04	6.82	- '	#REF!	0.07	2	54	34	10	0
S&P Target Date 2055+ TR USD	3.34	5.03	10.80	6.79	-	-	-	-	-	-	-	-
Composite Returns*	3.47	4.83	9.74	5.41	9.48	-	-	-	-	-	-	-

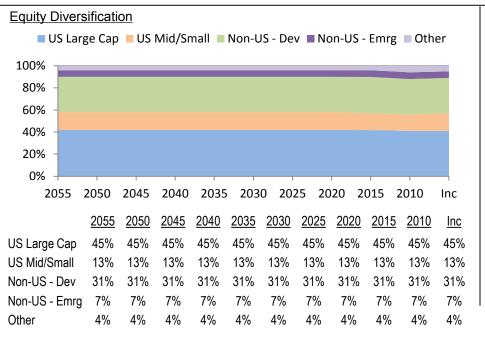


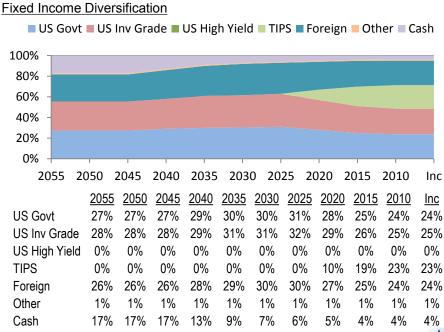
^{*}Composite benchmark consists of the following indices weighted to match the allocation of the specific target date fund: MSCI Broad Market, MSCI EAFE, Barclays Aggregate Bond, and Barclays US Treasury 1-3 Month

Glide Path Summary

Data as of June 30, 2019







Expense Ratio Information



6/28/2019

Expense Summary

	Net Expense Ratio	Peer Rank	Gross Expense Ratio	Peer Rank
Cash Equiv				
Stable Value				
Stable Value (Wisconsin)	0.32		0.32	
Fixed Income				
Money Market-Taxable				
Vanguard Treasury Money Market Investor	0.09	1	0.09	1
Money Market-Taxable Median	0.50		0.60	
Short Government				
Federated US Govt 2-5 Yr Instl	0.59	32	0.92	50
Short Government Median	0.76		0.92	
ntermediate Core Bond				
BlackRock US Debt Index-W	0.04	3	0.04	2
Intermediate Core Bond Median	0.81		0.98	
Long-term Bond				
Vanguard Long-Term Investment-Grade Adm	0.12	15	0.12	15
Long-Term Bond Median	0.76		0.87	
Balanced				
Allocation50% to 70% Equity				
Vanguard Wellington Admiral	0.17	1	0.17	1
Allocation50% to 70% Equity Median	1.16		1.30	
Target-Date Retirement				
The Vanguard Target Retire Inc Trust I	0.07	1	0.07	1
Target-Date Retirement Median	0.80		1.11	
Target-Date 2015				
The Vanguard Target Retire 2015 Trust I	0.07	1	0.07	1
Target-Date 2015 Median	0.84		1.16	
Target-Date 2025				
The Vanguard Target Retire 2025 Trust I	0.07	1	0.07	1
Target-Date 2025 Median	0.82		1.08	
Target-Date 2035				
The Vanguard Target Retire 2035 Trust I	0.07	1	0.07	1
Target-Date 2035 Median	0.82		1.13	



6/28/2019

Expense Summary

	Net Expense Ratio	Peer Rank	Gross Expense Ratio	Peer Rank
Target-Date 2045				
The Vanguard Target Retire 2045 Trust I	0.07	1	0.07	1
Target-Date 2045 Median	0.81		1.16	
Target-Date 2055				
The Vanguard Target Retire 2055 Trust I	0.07	1	0.07	1
Target-Date 2055 Median	0.79		1.25	
Equity				
Large Value				
Bridgeway Large Cap Value CIT Class I	0.55	10	0.55	8
Large Value Median	1.03		1.21	
Large Blend				
Vanguard Institutional 500 Index	0.01	1	0.01	1
Calvert US Large Cap Core Rspnb ldx R6 Large Blend Median	0.19	6	0.32	9
Large Diena Median	1.02		1.18	
Large Growth				
Fidelity Contrafund Commingled Pool CI 2	0.38	4	0.38	3
Large Growth Median	1.13		1.27	
Mid-Cap Blend				
BlackRock Mid Cap Equity Index- F	0.04	1	0.04	1
Mid-Cap Blend Median	1.11		1.25	
Mid-Cap Growth				
T. Rowe Price Instl Mid-Cap Equity Gr	0.75	5	0.75	4
Mid-Cap Growth Median	1.25		1.45	
Small Blend				
DFA US Micro Cap I	0.52	11	0.52	9
BlackRock Russell 2000 Index-T	0.06	2	0.06	2
Small Blend Median	1.18		1.31	
nternational				
Foreign Large Blend				
BlackRock EAFE Equity Index-T	0.06	2	0.08	3
Foreign Large Blend Median	1.11		1.29	

Expense Summary 6/28/2019

	Net Expense Ratio	Peer Rank	Gross Expense Ratio	Peer Rank
Foreign Large Growth				
American Funds Europacific Growth R6	0.49	4	0.49	3
Foreign Large Growth Median	1.16		1.32	

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



In order to present the most complete information possible, mutual fund share classes are used as a proxy in the following pages for the commingled trusts included in the Deferred Compensation Plan. To indicate these pages, the fund name at the top of the page has been italicized.

Stable Value (Wisconsin)

Fund Incep Date: 07/01/1998

Benchmark:

ML 3-month T-Bill

Category: Stable Value Net Assets: \$672.64M

Manager Name: Team Managed

Manager Start Date: 07/01/1998

Expense Ratio: 0.32% Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets

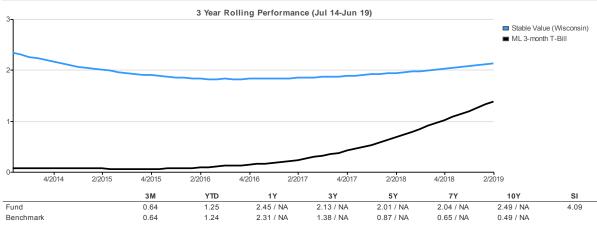


Sector Breakdown

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





CALENDAR	2018	2017	2016	2015	2014	2013	2012	2011	2010
Fund	2.26	1.90	1.90	1.85	1.73	2.10	2.63	3.13	3.93
Benchmark	1.87	0.86	0.33	0.05	0.03	0.07	0.11	0.10	0.13

Total: NA%

ASSET LOADINGS (Returns-based)

FUND EXPOSURES (W EIGHT) (Jul 16-Jun 19) 100-75-50-25-

		Current		Av erage	
		Fund	Bmk	Fund	Bmk
Т	Cash	100.0	100.0	99.9	100.0
1	Mortgages	0.0	0.0	0.0	0.0
- 1	Gov/Corp Bonds	0.0	0.0	0.1	0.0

RISK & PERFORMANCE STATISTICS

3 Yr Benchmark Fund Alpha 0.73 0.00 Beta 0.00 0.00 0.00 R-Squared 0.00 Sharpe Ratio 8.83 0.00 Up Market Capture 153.58 100.00 Down Market Capture NA NA

5 Yr	Fund	Benchmark
Alpha	1.12	0.00
Beta	0.00	0.00
R-Squared	0.00	0.00
Sharpe Ratio	14.20	0.00
Up Market Capture	222.26	100.00
Down Market Capture	-2787.19	100.00

NOTES



Vanguard Treasury Money Market Investor VUSXX

0.00%

6/28/2019

Fund Incep Date: 12/14/1992

Benchmark:

FTSE Treasury Bill 3 Mon

Category: Money Market-Taxable Net Assets: \$26,947.00M Manager Name:

Manager Start Date:

Expense Ratio: 0.09%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Credit Quality (%)

AAA AA

A BBB

BB B

Below B

NR/NA Total:

Sector (%)

Sector (%)	
% Government	4.58%
% Municipal	0.00%
% Corporate	0.00%
% Securitized	0.00%
% Cash and Equivalent	95.42%
% Derivative	0.00%
Total:	100 00%

ASSET LOADINGS (Returns-based)

FUND EXPOSURES (W EIGHT) (Jul 16-Jun 19)

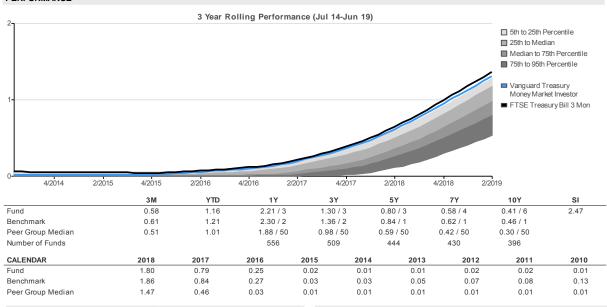
75-50-25-

-		Current		Ave	rage
		Fund	Bmk	Fund	Bmk
Т	Cash	100.0	100.0	100.0	100.0
L	Credit Bond	0.0	0.0	0.0	0.0
	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
	Muni Bond	0.0	0.0	0.0	0.0
i.	TIPS	0.0	0.0	0.0	0.0

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.

PERFORMANCE



NOTES

3 Yr	Fund	Benchmark	Peer Grou Median
Alpha	-0.06	0.00	-0.38
Beta	1.03	1.00	1.02
R-Squared	95.79	100.00	70.05
Sharpe Ratio	-0.39	-0.12	-1.85
Up Market Capture	95.59	100.00	71.90
Down Market Capture	NA	NA	NA
R-Squared Sharpe Ratio Up Market Capture	95.79 -0.39 95.59	100.00 -0.12 100.00	70.0 -1.8 71.9

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.04	0.00	-0.25
Beta	1.01	1.00	1.08
R-Squared	93.32	100.00	37.33
Sharpe Ratio	-0.27	-0.11	-1.27
Up Market Capture	95.39	100.00	70.00
Down Market Capture	NA	NA	NA



Federated US Govt 2-5 Yr Instl FIGTX

6/28/2019

Fund Incep Date: 02/18/1983

Benchmark:

BofAML US Treasuries 3-5 Yr TR USD

Category: Short Government Net Assets: \$266.00M Manager Name: J. Andrew Kirschler Manager Start Date: 07/05/2013

Expense Ratio: 0.59%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



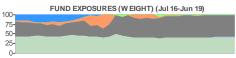
Credit Quality (%)

AAA	100.00%
AA	0.00%
A	0.00%
BBB	0.00%
BB	0.00%
В	0.00%
Below B	0.00%
NR/NA	0.00%
Total:	100.00%

Sector (%)

83.01%
0.00%
0.00%
12.03%
4.96%
0.00%
100.00%

ASSET LOADINGS (Returns-based)

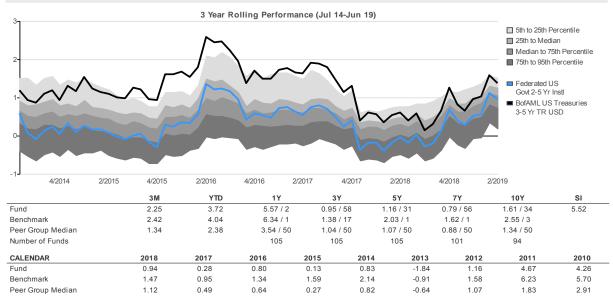


		Current		Average	
		Fund	Bmk	Fund	Bmk
Т	Cash	39.9	34.2	41.4	30.9
1	Credit Bond	1.5	0.0	0.2	0.0
1	Govt Bond	56.4	57.6	44.7	51.9
1	HY Corp Bond	0.0	0.0	0.0	0.0
1	MBS	0.7	8.2	6.8	13.4
	Muni Bond	1.5	0.0	1.2	1.1
1	TIPS	0.0	0.0	5.7	2.6

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



NOTES

RISK & PERFORMANCE STATISTICS

Sharpe Ratio

Up Market Capture

Down Market Capture

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.42	0.00	-0.34
Beta	0.88	1.00	0.38
R-Squared	97.71	100.00	88.23
Sharpe Ratio	-0.21	0.01	-0.29
Up Market Capture	84.84	100.00	50.65
Down Market Capture	94.99	100.00	31.86
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.67	0.00	-0.28
Beta	0.84	1.00	0.36
R-Squared	96.69	100.00	88.34

0.15

76.20

95.15

0.51

100.00

100.00

0.19

41.19

35.34

iShares US Aggregate Bond Index K WFBIX (Blackrock US Debt Index)

6/28/2019

Fund Incep Date: 07/02/1993

Benchmark:

BBgBarc US Aggregate Bond Index

Category : Intermediate Core Bond Net Assets : \$1.615.00M Manager Name : Scott Radell Manager Start Date: 05/01/2009

Expense Ratio : 0.05%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Credit Quality (%)

Orcan dunity (70)	
AAA	73.03%
AA	2.70%
A	10.66%
BBB	13.61%
BB	0.00%
В	0.00%
Below B	0.00%
NR/NA	0.00%
Total:	100.00%

Sector (%)

000101 (70)	
% Government	41.67%
% Municipal	0.58%
% Corporate	23.29%
% Securitized	26.37%
% Cash and Equivalent	8.10%
% Derivative	0.00%
Total:	100.01%

ASSET LOADINGS (Returns-based)

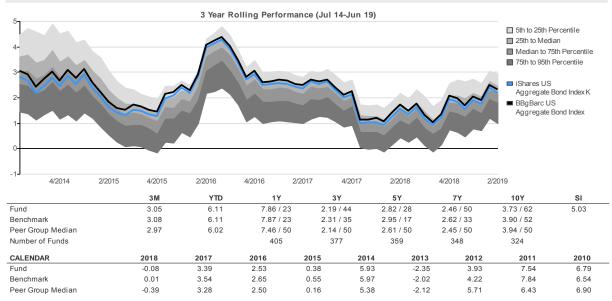


		Current		Av erage	
		Fund	Bmk	Fund	Bmk
Т	Cash	2.0	0.7	1.1	0.5
1	Credit Bond	30.4	30.2	30.4	30.3
1	Govt Bond	47.4	41.5	43.5	41.0
	HY Corp Bond	0.0	0.0	0.4	0.1
1	MBS	18.7	26.8	24.1	27.6
	Muni Bond	1.5	0.8	0.5	0.4
1	TIPS	0.0	0.0	0.0	0.0

INVESTMENT OVERVIEW

The investment seeks to provide investment results that correspond to the total return performance of fixed-income securities in the aggregate, as represented by the Bloomberg Barclays U.S. Aggregate Bond Index. The fund is a "feeder" fund that invests all of its assets in the Master Portfolio of MIP, which has the same investment objective and strategies as the fund. Under normal circumstances, at least 90% of the value of the fund's assets, plus the amount of any borrowing for investment purposes, is invested in securities comprising the Barclays U.S. Aggregate Index.

PERFORMANCE



NOTES

RISK & PERFORMANCE STATISTICS

R-Squared

Sharpe Ratio

Up Market Capture

Down Market Capture

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.12	0.00	-0.12
Beta	1.00	1.00	0.95
R-Squared	99.80	100.00	96.84
Sharpe Ratio	0.27	0.32	0.27
Up Market Capture	98.69	100.00	93.94
Down Market Capture	101.92	100.00	93.89
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.14	0.00	-0.17
Beta	1.01	1.00	0.95

99.75

0.66

99.66

103.92

100.00

100.00

100.00

0.71

95.88

0.63

92.58

97.18



Vanguard Long-Term Investment-Grade Adm VWETX

6/28/2019

Fund Incep Date: 02/12/2001

Benchmark:

BBgBarc US Credit A+ Long TR USD

Category: Long-term Bond Net Assets: \$18,637.00M 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 (%)

Great Quality (70)	
AAA	13.70%
AA	17.20%
A	59.99%
BBB	6.91%
BB	0.12%
В	0.07%
Below B	0.00%
NR/NA	2.01%
Total:	100.00%

Sector (%)

99 99%		Total:
0.00%		% Derivative
4.35%	quivalent	% Cash and Eq
2.01%		% Securitized
76.12%		% Corporate
10.53%		% Municipal
6.98%	it	% Government
6	nt .	% Covemment

ASSET LOADINGS (Returns-based)

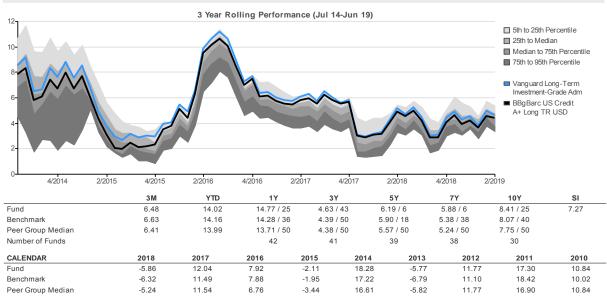


		Current		Average	
		Fund	Bmk	Fund	Bmk
	Cash	0.0	0.0	0.0	0.0
1	Credit Bond	100.0	100.0	100.0	100.0
-1	Govt Bond	0.0	0.0	0.0	0.0
	HY Corp Bond	0.0	0.0	0.0	0.0
1	MBS	0.0	0.0	0.0	0.0
	Muni Bond	0.0	0.0	0.0	0.0
1	TIPS	0.0	0.0	0.0	0.0

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



NOTES

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.22	0.00	0.26
Beta	1.01	1.00	0.98
R-Squared	99.24	100.00	95.18
Sharpe Ratio	0.48	0.45	0.48
Up Market Capture	100.00	100.00	97.59
Down Market Capture	96.99	100.00	88.06
5 Yr	Fund	Benchmark	Peer Grou

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.17	0.00	-0.17
Beta	1.02	1.00	0.98
R-Squared	98.98	100.00	95.38
Sharpe Ratio	0.72	0.70	0.66
Up Market Capture	103.09	100.00	98.13
Down Market Capture	101.41	100.00	98.16



Vanguard Wellington Admiral VWENX

6/28/2019

Fund Incep Date: 05/14/2001 Benchmark: S&P 500 Index Category: Allocation--50% to 70% Equity Net Assets: \$105,381.00M Manager Name: Edward P. Bousa Manager Start Date: 12/31/2002

Expense Ratio: 0.17%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Sector Breakdown

Sensitive	
Communication Services	8.46%
Industrials	10.95%
Technology	15.53%
Energy	8.76%
Cyclical	
Basic Materials	2.28%
Consumer Cyclical	6.10%
Real Estate	1.26%
Financial Services	21.19%
Defensive	
Consumer Defensive	6.72%
Healthcare	13.93%
Utilities	4.82%
TOP 10 HOLDINGS	
Microsoft Corp	2.97%
Verizon Communications Inc	2.47%
JPMorgan Chase & Co	2.17%
Bank of America Corporation	2.09%
Alphabet Inc A	1.91%
Chevron Corp	1.85%

ASSET LOADINGS (Returns-based)

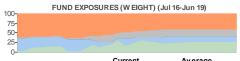
Comcast Corp Class A

Prudential Financial Inc

Chubb Ltd

Intel Corp

Total:



1.62%

1.45%

1.25%

1.22%

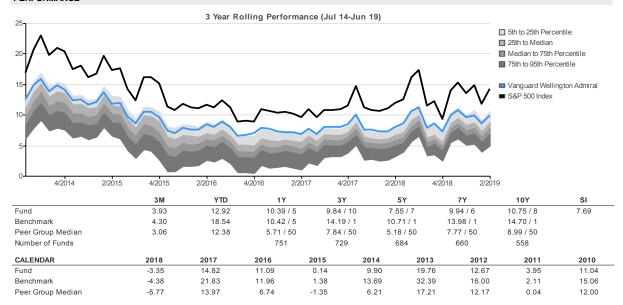
19.01%

		Current		Average	
		Fund	Bmk	Fund	Bmk
Т	Cash	24.7	0.9	17.9	0.3
1	US Bonds	14.9	0.0	18.1	1.2
1	Intl Bonds	0.0	0.6	0.0	0.8
	Intl Equity	18.2	4.2	12.8	4.3
1	US Equity	42.3	94.3	51.2	93.5

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

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.93	0.00	-1.09
Beta	0.58	1.00	0.59
R-Squared	93.84	100.00	91.81
Sharpe Ratio	1.14	1.04	0.85
Up Market Capture	61.86	100.00	56.03
Down Market Capture	58.06	100.00	61.61
5 Yr	Fund	Benchmark	Peer Group Median
5 Yr Alpha	Fund 0.56	Benchmark 0.00	
			Median
Alpha	0.56	0.00	Median -1.64
Alpha Beta	0.56 0.61	0.00	Median -1.64 0.61
Alpha Beta R-Squared	0.56 0.61 94.45	0.00 1.00 100.00	Median -1.64 0.61 91.27



Vanguard Target Retirement Income Inv VTINX (Vanguard Target Ret Income Tr)

15.85%

12.05%

6/28/2019

Fund Incep Date: 10/27/2003

Benchmark

S&P Target Date Retirement Income

Category Target-Date Retirement

Net Assets: \$16.765.00M Manager Name : William A. Coleman

Manager Start Date : 02/22/2013

Expense Ratio : 0.12% Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Sector Breakdown

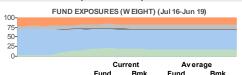
Sector Breakdown	
Sensitive	
Communication Services	3.47%
Industrials	11.38%
Technology	18.06%
Energy	5.53%
Cyclical	
Basic Materials	4.64%
Consumer Cyclical	11.87%
Real Estate	4.18%
Financial Services	17.76%
Defensive	
Consumer Defensive	8.15%
Healthcare	11.64%
Utilities	3.30%
TOP 10 HOLDINGS	
Vanguard Total Bond Market II ldx Inv	37.13%
Vanguard Total Stock Mkt Idx Inv	18.30%
Vanguard Shrt-Term Infl-Prot Sec Idx Inv	16.62%

Total: 99.95%

ASSET LOADINGS (Returns-based)

Vanguard Total Intl Bd Idx Investor

Vanguard Total Intl Stock Index Inv

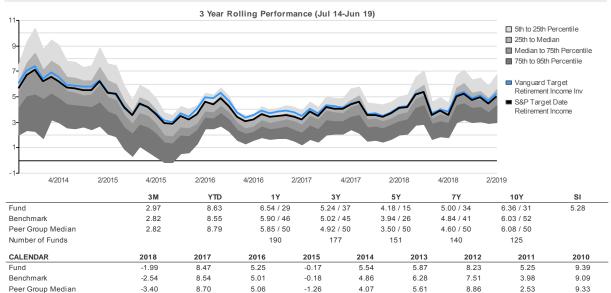


		Current		Av erage	
		Fund	Bmk	Fund	Bmk
T	Cash	16.0	20.6	13.7	19.7
- 1	US Bonds	50.4	44.5	54.2	47.0
- 1	Intl Bonds	3.1	1.0	2.5	1.4
	Intl Equity	12.0	11.1	10.3	9.5
-1	US Equity	18.5	22.8	19.3	22.4

INVESTMENT OVERVIEW

The investment seeks to provide current income and some capital appreciation. The fund invests in other Vanquard 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



NOTES

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.46	0.00	0.00
Beta	0.93	1.00	0.95
R-Squared	97.98	100.00	96.01
Sharpe Ratio	1.01	0.89	0.86
Up Market Capture	97.13	100.00	97.37
Down Market Capture	87.05	100.00	96.71
5 Yr	Fund	Benchmark	Peer Group Median
5 Yr Alpha	Fund 0.37	Benchmark 0.00	
			Median
Alpha	0.37	0.00	Median -0.57
Alpha Beta	0.37 0.95	0.00	Median -0.57 1.07
Alpha Beta R-Squared	0.37 0.95 98.19	0.00 1.00 100.00	Median -0.57 1.07 94.67



Vanguard Target Retirement 2015 Inv VTXVX (Vanguard Target Retirement 2015 Tr) 6/28/2019

Fund Incep Date: 10/27/2003

Benchmark:

S&P Target Date 2015

Category: Target-Date 2015 Net Assets: \$15,775.00M Manager Name: William A. Coleman Manager Start Date: 02/22/2013

Expense Ratio : 0.13%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Sector Breakdown

Sensitive	
Communication Services	3.48%
Industrials	11.39%
Technology	18.03%
Energy	5.54%
Cyclical	
Basic Materials	4.66%
Consumer Cyclical	11.87%
Real Estate	4.18%
Financial Services	17.77%
Defensive	
Consumer Defensive	8.16%
Healthcare	11.62%
Utilities	3.30%
TOP 10 HOLDINGS	
Vanguard Total Bond Market II ldx Inv	33.86%

Total: 99.96%

23.06%

15.41%

14.59%

13.04%

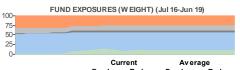
ASSET LOADINGS (Returns-based)

Vanguard Total Stock Mkt Idx Inv

Vanguard Total Intl Stock Index Inv

Vanguard Total Intl Bd Idx Investor

Vanguard Shrt-Term Infl-Prot Sec Idx Inv

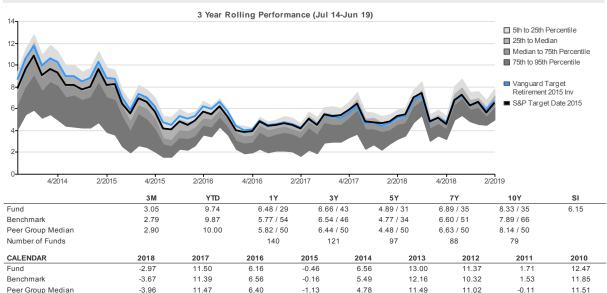


		Current		Average	
		Fund	Bmk	Fund	Bmk
Т	Cash	10.5	16.1	7.5	11.8
1	US Bonds	45.5	38.3	47.5	42.1
1	Intl Bonds	4.0	0.0	3.6	0.2
	Intl Equity	15.0	13.9	14.1	13.0
1	US Equity	25.0	31.7	27.4	32.9

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



NOTES

3 Yr	Fund	Fund Benchmark	
Alpha	0.65	0.00	0.07
Beta	0.89	1.00	1.01
R-Squared	97.99	100.00	97.62
Sharpe Ratio	1.08	0.95	0.96
Up Market Capture	94.18	100.00	99.54
Down Market Capture	84.13	100.00	100.51
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.37	0.00	-0.30
Beta	0.93	1.00	1.03
R-Squared	98.45	100.00	97.18
Sharpe Ratio	0.76	0.70	0.63
Up Market Capture	95.89	100.00	100.12
Down Market Capture	90.71	100.00	106.56



Vanguard Target Retirement 2025 Inv VTTVX (Vanguard Target Retirement 2025 Tr) 6/28/2019

Fund Incep Date: 10/27/2003

Benchmark :

S&P Target Date 2025

Category : Target-Date 2025 Net Assets: \$43,560.00M Manager Name: William A. Coleman Manager Start Date: 02/22/2013

Expense Ratio : 0.13%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Sector Breakdown

Sensitive	
Communication Services	3.48%
Industrials	11.39%
Technology	18.06%
Energy	5.53%
Cyclical	
Basic Materials	4.65%
Consumer Cyclical	11.87%
Real Estate	4.18%
Financial Services	17.76%
Defensive	
Consumer Defensive	8.15%
Healthcare	11.64%
Utilities	3.30%
TOP 10 HOLDINGS	
Vanguard Total Stock Mkt Idx Inv	37.31%

Total: 99.97%

26.68%

24.61%

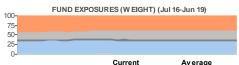
11.37%

ASSET LOADINGS (Returns-based)

Vanguard Total Bond Market II Idx Inv

Vanguard Total Intl Stock Index Inv

Vanguard Total Intl Bd Idx Investor

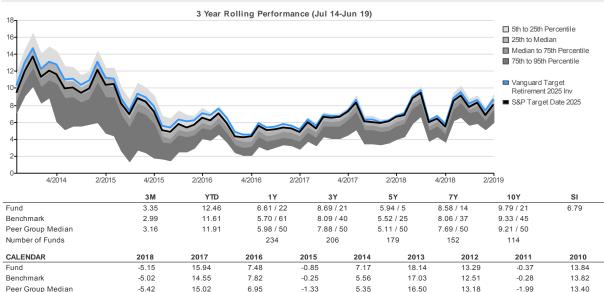


		Current		Av erage	
		Fund	Bmk	Fund	Bmk
Т	Cash	0.0	9.5	0.1	6.1
11	US Bonds	32.3	29.6	32.9	32.5
-1	Intl Bonds	5.3	0.5	5.0	0.5
- 1	Intl Equity	23.0	18.9	21.6	17.5
1	US Equity	39.4	41.5	40.5	43.4

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



NOTES

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.40	0.00	0.01
Beta	1.03	1.00	0.99
R-Squared	99.14	100.00	98.06
Sharpe Ratio	1.00	0.95	0.93
Up Market Capture	104.67	100.00	97.17
Down Market Capture	100.68	100.00	98.61
F.V.	Found		Peer Grou

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.30	0.00	-0.33
Beta	1.02	1.00	0.99
R-Squared	99.28	100.00	98.02
Sharpe Ratio	0.69	0.65	0.60
Up Market Capture	104.10	100.00	98.02
Down Market Capture	101.23	100.00	100.26

Vanguard Target Retirement 2035 Inv VTTHX (Vanguard Target Retirement 2035 Tr) 6/28/2019

Fund Incep Date: 10/27/2003

Benchmark :

S&P Target Date 2035

Category : Target-Date 2035 Net Assets: \$36,493.00M Manager Name: William A. Coleman Manager Start Date: 02/22/2013

Expense Ratio : 0.14%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Sector Breakdown

Sensitive	
Communication Services	3.48%
Industrials	11.39%
Technology	18.04%
Energy	5.53%
Cyclical	

Cyclical	
Basic Materials	4.66%
Consumer Cyclical	11.87%
Real Estate	4.18%
Financial Services	17.77%

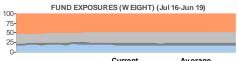
Defensive	
Consumer Defensive	8.16%
Healthcare	11.63%
Utilities	3.30%

TOP 10 HOLDINGS

Vanguard Total Stock Mkt Idx Inv	45.96%
Vanguard Total Intl Stock Index Inv	30.50%
Vanguard Total Bond Market II ldx Inv	16.52%
Vanguard Total Intl Bd Idx Investor	6.97%

Total: 99.96%

ASSET LOADINGS (Returns-based)

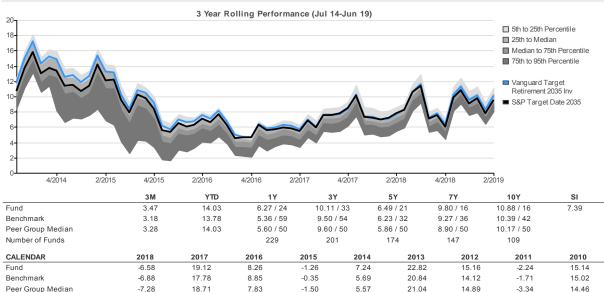


		Current		Ave	rage
		Fund	Bmk	Fund	Bmk
Т	Cash	0.0	1.8	0.0	1.4
	US Bonds	16.7	17.9	17.3	20.3
1	Intl Bonds	5.7	1.0	5.6	0.9
	Intl Equity	29.4	24.9	27.6	22.5
1	US Equity	48.2	54.4	49.5	54.9

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



NOTES

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.74	0.00	0.20
Beta	0.97	1.00	1.00
R-Squared	99.22	100.00	98.64
Sharpe Ratio	0.97	0.89	0.91
Up Market Capture	101.32	100.00	100.74
Down Market Capture	95.84	100.00	97.83
5 Yr	Fund	Benchmark	Peer Grou Median

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.20	0.00	-0.45
Beta	1.01	1.00	1.03
R-Squared	99.12	100.00	98.47
Sharpe Ratio	0.63	0.61	0.56
Up Market Capture	102.17	100.00	100.91
Down Market Capture	100.72	100.00	103.66



Vanguard Target Retirement 2045 Inv VTIVX (Vanguard Target Retirement 2045 Tr) 6/28/2019

Fund Incep Date: 10/27/2003

Benchmark:

S&P Target Date 2045

Category: Target-Date 2045 Net Assets: \$26.144.00M Manager Name: William A. Coleman Manager Start Date: 02/22/2013

Expense Ratio : 0.15%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Sector Breakdown

Sensitive	
Communication Services	3.48%
Industrials	11.39%
Technology	18.04%
Energy	5.53%
Cyclical	

Cyclical	
Basic Materials	4.66%
Consumer Cyclical	11.87%
Real Estate	4.18%
Financial Services	17.77%

Defensive	
Consumer Defensive	8.16%
Healthcare	11.63%
Utilities	3.30%

TOP 10 HOLDINGS

Vanguard Total Stock Mkt Idx Inv	54.01%
Vanguard Total Intl Stock Index Inv	35.92%
Vanguard Total Bond Market II Idx Inv	7.08%
Vanguard Total Intl Bd Idx Investor	2.95%

Total: 99.97%

ASSET LOADINGS (Returns-based)

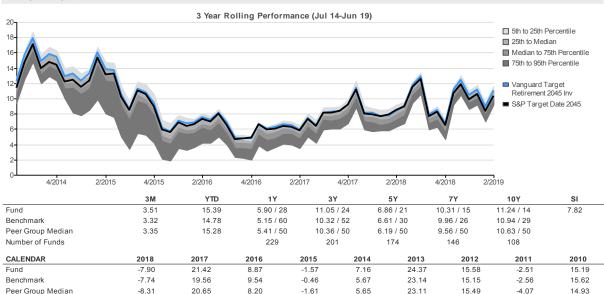


		Current		Av erage	
		Fund	Bmk	Fund	Bmk
Т	Cash	0.0	0.0	0.0	0.7
-1	US Bonds	3.0	10.3	5.2	12.4
-1	Intl Bonds	7.0	1.9	6.6	1.3
- 1	Intl Equity	33.1	28.1	31.2	25.2
1	US Equity	56.9	59.8	56.9	60.5

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



NOTES

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.49	0.00	-0.06
Beta	1.02	1.00	1.02
R-Squared	99.38	100.00	98.80
Sharpe Ratio	0.94	0.89	0.88
Up Market Capture	104.63	100.00	101.66
Down Market Capture	101.41	100.00	101.68

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.06	0.00	-0.50
Beta	1.03	1.00	1.03
R-Squared	99.32	100.00	98.70
Sharpe Ratio	0.60	0.60	0.55
Up Market Capture	103.86	100.00	100.97
Down Market Capture	103.29	100.00	104.21



Vanguard Target Retirement 2055 Inv VFFVX (Vanguard Target Retirement 2055 Tr) 6/28/2019

Fund Incep Date: 08/18/2010

Benchmark:

S&P Target Date 2055

Category: Target-Date 2055 Net Assets: \$9.695.00M Manager Name: William A. Coleman Manager Start Date: 02/22/2013

Expense Ratio : 0.15%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Sector Breakdown

Sector Breakdown	
Sensitive	
Communication Services	3.48%
Industrials	11.39%
Technology	18.03%
Energy	5.54%
Cyclical	
Basic Materials	4.66%
Consumer Cyclical	11.87%
Real Estate	4.18%
Financial Services	17.77%
Defensive	
Consumer Defensive	8.16%
Healthcare	11.63%
Utilities	3.30%
TOP 10 HOLDINGS	
Vanguard Total Stock Mkt Idx Inv	53.97%
Vanguard Total Intl Stock Index Inv	35.94%

Total: 99.91%

7.06%

2.94%

ASSET LOADINGS (Returns-based)

Vanguard Total Bond Market II ldx Inv

Vanguard Total Intl Bd Idx Investor

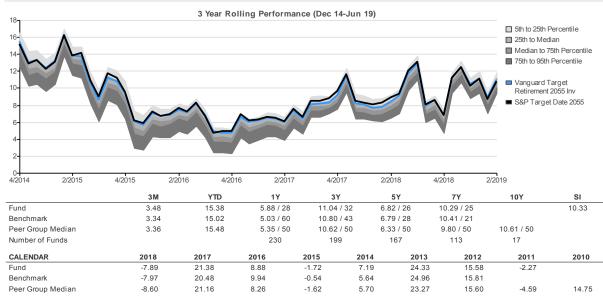


		Current		Av erage	
		Fund	Bmk	Fund	Bmk
Т	Cash	0.0	0.0	0.0	0.7
1	US Bonds	2.8	7.3	5.3	8.8
1	Intl Bonds	7.3	2.4	6.8	1.4
	Intl Equity	32.7	28.9	31.1	26.2
1	US Equity	57.2	61.4	56.9	63.0

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



NOTES

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.32	0.00	-0.23
Beta	0.99	1.00	1.00
R-Squared	99.31	100.00	98.78
Sharpe Ratio	0.94	0.91	0.88
Up Market Capture	100.29	100.00	99.81
Down Market Capture	98.31	100.00	99.68
			Peer Gro

Down Market Capture	90.31	100.00	99.00
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.08	0.00	-0.45
Beta	0.99	1.00	1.01
R-Squared	99.31	100.00	98.72
Sharpe Ratio	0.60	0.59	0.55
Up Market Capture	99.18	100.00	98.44
Down Market Capture	98.63	100.00	101.70

American Beacon Bridgeway Lg Cp Val Y BWLYX

1.64%

1.63%

1.54%

1.50%

17.10%

6/28/2019

Fund Incep Date: 02/03/2012

Benchmark :

Russell 1000 Value Index

Category: Large Value Net Assets: \$4,233.00M Manager Name: John N.R. Montgomery Manager Start Date : 10/31/2003

Expense Ratio : 0.79%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)



Sector Breakdown

Ameren Corp

Coming Inc

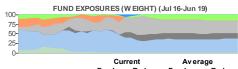
Marathon Petroleum Corp

AT&T Inc

Total:

Sector Breakdown	
Sensitive	
Communication Services	4.59%
Industrials	7.57%
Technology	12.29%
Energy	6.93%
Cyclical	
Basic Materials	4.45%
Consumer Cyclical	9.79%
Real Estate	4.54%
Financial Services	27.10%
Defensive	
Consumer Defensive	6.87%
Healthcare	11.56%
Utilities	4.31%
TOP 10 HOLDINGS	
HCA Healthcare Inc	1.94%
Micron Technology Inc	1.87%
Intel Corp	1.85%
Bank of America Corporation	1.81%
Pfizer Inc	1.66%
Procter & Gamble Co	1.65%

ASSET LOADINGS (Returns-based)

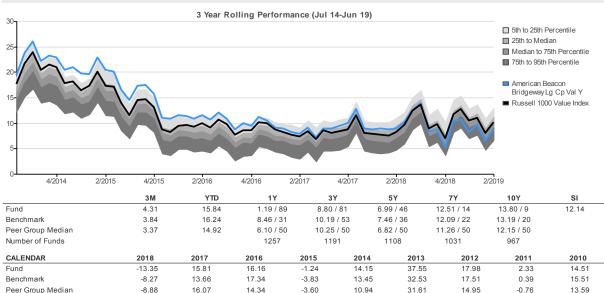


		Current		Avei	rage
		Fund	Bmk	Fund	Bmk
Т	Cash	0.0	0.0	2.6	0.1
1	Top Value	36.4	67.8	41.8	68.2
1	Top Growth	14.4	0.1	8.4	0.1
	Mid Value	32.7	31.9	30.5	31.5
1	Mid Growth	0.0	0.1	6.7	0.0
	Sm Value	16.5	0.0	9.4	0.0
1	Sm Growth	0.0	0.1	0.5	0.1

INVESTMENT OVERVIEW

The investment seeks to provide long-term total return on capital, primarily through capital appreciation and some income. The fund invests in a diversified portfolio of stocks of large capitalization companies that are listed on the New York Stock Exchange, NYSE American, or NASDAQ. Under normal market conditions, at least 80% of Fund net assets (plus borrowings for investment purposes) are invested in stocks from among those in the large-cap value category at the time of purchase.

PERFORMANCE



NOTES

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-1.92	0.00	0.09
Beta	1.09	1.00	1.00
R-Squared	95.66	100.00	95.37
Sharpe Ratio	0.59	0.75	0.74
Up Market Capture	96.68	100.00	99.51
Down Market Capture	105.54	100.00	99.52
5 Yr	Fund	Benchmark	Peer Group Median
5 Yr Alpha	Fund -0.64	Benchmark 0.00	
			Median
Alpha	-0.64	0.00	Median -0.54
Alpha Beta	-0.64 1.04	0.00	Median -0.54 0.99
Alpha Beta R-Squared	-0.64 1.04 95.13	0.00 1.00 100.00	Median -0.54 0.99 94.67



Vanguard Institutional Index Instl PI VIIIX

(Vanguard Institutional 500 Index Trust)

6/28/2019

Fund Incep Date: 07/07/1997 Benchmark : S&P 500 Index Category: Large Blend Net Assets: \$228,885.00M Manager Name : Donald M. Butler Manager Start Date: 12/31/2000

Expense Ratio : 0.02%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

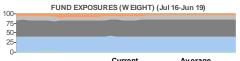


Sector Breakdown

Sensitive	
Communication Services	3.49%
Industrials	10.11%
Technology	22.91%
Energy	5.05%
Cyclical	
Basic Materials	2.46%
Consumer Cyclical	12.22%
Real Estate	2.69%
Financial Services	15.93%
Defensive	
Consumer Defensive	7.73%
Healthcare	14.09%
Utilities	3.31%
TOP 10 HOLDINGS	
Microsoft Corp	4.19%
Apple Inc	3.53%
Amazon.com Inc	3.20%
Facebook Inc A	1.89%
Berkshire Hathaway Inc B	1.69%
Johnson & Johnson	1.51%
JPMorgan Chase & Co	1.48%
Alphabet Inc Class C	1.35%
Exxon Mobil Corp	1.32%
Alphabet Inc A	1.32%

ASSET LOADINGS (Returns-based)

Total:



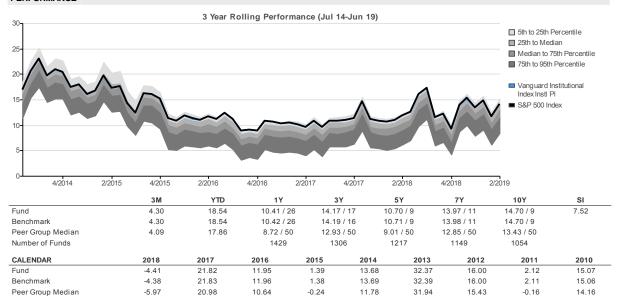
21.49%

		Current		Avei	age	
		Fund	Bmk	Fund	Bmk	
Т	Cash	0.0	0.0	0.3	0.3	
1	Top Value	39.8	39.9	39.6	39.6	
-1	Top Growth	42.9	42.9	42.3	42.3	
	Mid Value	12.6	12.5	11.2	11.3	
1	Mid Growth	4.7	4.7	6.6	6.6	
	Sm Value	0.0	0.0	0.0	0.0	
1	Sm Growth	0.0	0.0	0.0	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

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.01	0.00	-1.05
Beta	1.00	1.00	1.00
R-Squared	100.00	100.00	95.93
Sharpe Ratio	1.04	1.04	0.93
Up Market Capture	99.95	100.00	95.71
Down Market Capture	100.03	100.00	101.05
5 Yr	Fund	Benchmark	Peer Group Median
5 Yr Alpha	Fund -0.01	Benchmark 0.00	
			Median
Alpha	-0.01	0.00	Median -1.38
Alpha Beta	-0.01 1.00	0.00	Median -1.38 1.00
Alpha Beta R-Squared	-0.01 1.00 100.00	0.00 1.00 100.00	Median -1.38 1.00 95.80



Calvert US Large Cap Core Rspnb Idx R6 CSXRX

20.85%

6/28/2019

Fund Incep Date: 10/03/2017

Benchmark: S&P 500 Index Category: Large Blend Net Assets: \$1,843.00M Manager Name: Thomas C. Seto Manager Start Date: 12/31/2016

Expense Ratio: 0.19%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

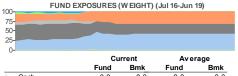


Sector Breakdown

Sensitive	
Communication Services	3.41%
Industrials	11.77%
Technology	25.18%
Energy	0.24%
Cyclical	
Basic Materials	2.16%
Consumer Cyclical	13.89%
Real Estate	0.35%
Financial Services	18.27%
Defensive	
Consumer Defensive	7.70%
Healthcare	14.51%
Utilities	2.53%
TOP 10 HOLDINGS	
Microsoft Corp	3.89%
Apple Inc	3.40%
Amazon.com Inc	3.07%
Alphabet Inc A	2.89%
Visa Inc Class A	1.54%
JPMorgan Chase & Co	1.53%
Procter & Gamble Co	1.17%
Bank of America Corporation	1.17%
Pfizer Inc	1.11%
Mastercard Inc A	1.07%

ASSET LOADINGS (Returns-based)

Total:

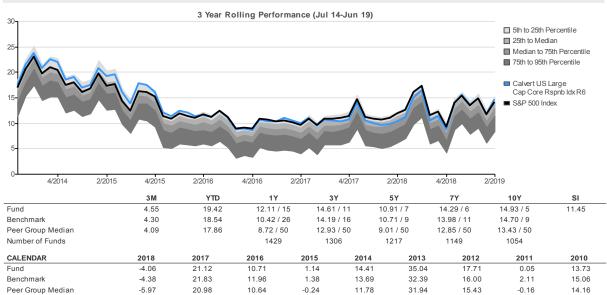


		Current		Av erage	
		Fund	Bmk	Fund	Bmk
	Cash	0.0	0.0	0.3	0.3
1	Top Value	41.8	39.9	36.5	39.6
1	Top Growth	26.3	42.9	31.2	42.3
	Mid Value	0.0	12.5	3.0	11.3
1	Mid Growth	31.6	4.7	26.7	6.6
	Sm Value	0.0	0.0	1.0	0.0
1	Sm Growth	0.3	0.0	1.3	0.0

INVESTMENT OVERVIEW

The investment seeks to track the performance of the Calvert US Large-Cap Core Responsible Index, which measures the investment return of large-capitalization stocks. The fund normally invests at least 95% of its net assets, including borrowings for investment purposes, in securities contained in the index is composed of the common stocks of large companies that operate their businesses in a manner consistent with the Calvert Principles for Responsible Investment.

PERFORMANCE



NOTES

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.04	0.00	-1.05
Beta	1.03	1.00	1.00
R-Squared	99.04	100.00	95.93
Sharpe Ratio	1.04	1.04	0.93
Up Market Capture	102.21	100.00	95.71
Down Market Capture	100.90	100.00	101.05
5 Yr	Fund	Benchmark	Peer Group Median
5 Yr Alpha	Fund -0.10	Benchmark 0.00	
*			Median
Alpha	-0.10	0.00	Median -1.38
Alpha Beta	-0.10 1.03	0.00	Median -1.38 1.00
Alpha Beta R-Squared	-0.10 1.03 98.66	0.00 1.00 100.00	Median -1.38 1.00 95.80



Fidelity Contrafund FCNTX (Fidelity Contrafund Commingled Pool Cl2)

6/28/2019

Fund Incep Date: 05/17/1967 Benchmark:

Russell 1000 Growth Index

Category: Large Growth Net Assets: \$121.774.00M Manager Name : William Danoff Manager Start Date : 09/17/1990

Expense Ratio : 0.82%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Sector Breakdown

Sensitive	
Communication Services	0.95%
Industrials	2.98%
Technology	36.39%
Energy	1.89%
Cyclical	
Basic Materials	1.40%
Consumer Cyclical	16.31%
Real Estate	0.31%
Financial Services	22.46%
Defensive	
Consumer Defensive	3.99%
Healthcare	12.99%

Utilities	0.35%
TOP 10 HOLDINGS	
Amazon.com Inc	6.96%
Facebook Inc A	6.89%
Berkshire Hathaway Inc A	5.17%
Microsoft Corp	4.68%
Visa Inc Class A	3.62%
Salesforce.com Inc	3.50%
UnitedHealth Group Inc	3.11%
Alphabet Inc A	2.72%
Netflix Inc	2.71%
Adobe Inc	2.69%
Total:	42.04%

ASSET LOADINGS (Returns-based)

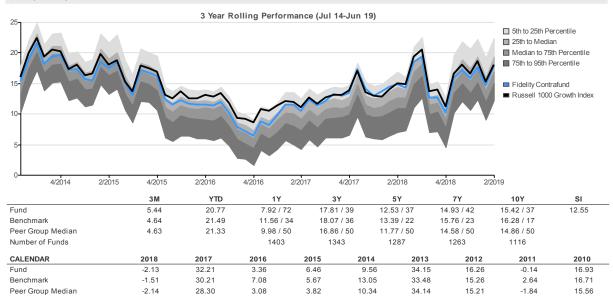


		Current		Average	
		Fund	Bmk	Fund	Bmk
Т	Cash	0.0	0.1	1.1	0.1
1	Top Value	0.0	0.2	0.0	0.1
-1	Top Growth	91.0	76.5	94.3	75.4
	Mid Value	0.0	0.0	0.0	0.0
1	Mid Growth	9.0	23.0	4.6	24.3
	Sm Value	0.0	0.0	0.0	0.0
1	Sm Growth	0.0	0.2	0.0	0.1

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 uses 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

Down Market Capture

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.25	0.00	-0.60
Beta	1.00	1.00	0.99
R-Squared	95.80	100.00	93.39
Sharpe Ratio	1.17	1.21	1.12
Up Market Capture	97.15	100.00	94.12
Down Market Capture	95.98	100.00	96.41
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.29	0.00	-1.37
Beta	0.96	1.00	0.99
R-Squared	95.32	100.00	93.10
Sharpe Ratio	0.92	0.97	0.83
Up Market Capture	92.76	100.00	95.22

100.00

103.78

93.44



T. Rowe Price Instl Mid-Cap Equity Gr PMEGX

6/28/2019

Fund Incep Date: 07/31/1996 Benchmark:

Russell Mid-Cap Growth Index

Category: Mid-Cap Growth Net Assets: \$7,971.00M Manager Name: Brian W.H. Berghuis Manager Start Date: 07/31/1996

Expense Ratio: 0.61%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)



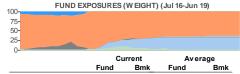


Sector Breakdown

Sensitive	
Communication Services	0.02%
Industrials	20.98%
Technology	20.71%
Energy	3.41%
Cyclical	
Basic Materials	3.91%
Consumer Cyclical	14.34%
Real Estate	0.91%
Financial Services	8.48%
Defensive	
Consumer Defensive	6.17%
Healthcare	19.11%
Utilities	1.95%
TOP 10 HOLDINGS	
Teleflex Inc	2.51%
The Cooper Companies Inc	2 20%

Total:	18.40%
Keysight Technologies Inc	1.52%
IAC/InterActiveCorp	1.54%
Microchip Technology Inc	1.60%
Agilent Technologies Inc	1.61%
Textron Inc	1.69%
Harris	1.75%
Hologic Inc	1.89%
Ball Corp	2.00%
The Cooper Companies Inc	2.29%
Teleflex Inc	2.51%

ASSET LOADINGS (Returns-based)

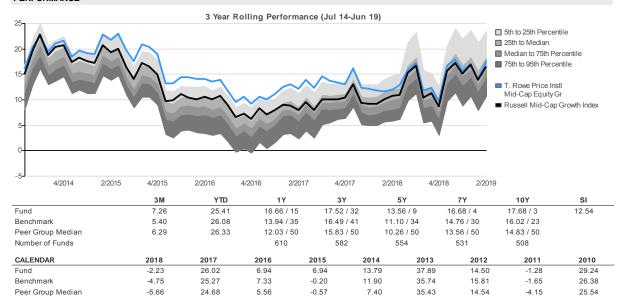


		Current		Ave	rage
		Fund	Bmk	Fund	Bmk
	Cash	0.5	0.0	2.0	0.0
1	Top Value	32.2	0.0	16.8	0.0
1	Top Growth	0.0	0.0	2.7	0.0
	Mid Value	4.2	0.0	1.2	0.0
1	Mid Growth	63.2	100.0	74.6	100.0
	Sm Value	0.0	0.0	0.0	0.0
1	Sm Growth	0.0	0.0	2.8	0.0

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

Up Market Capture

Down Market Capture

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	2.06	0.00	-0.19
Beta	0.91	1.00	0.98
R-Squared	95.41	100.00	93.71
Sharpe Ratio	1.17	1.04	1.00
Up Market Capture	97.43	100.00	96.22
Down Market Capture	87.90	100.00	97.61
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	2.73	0.00	-0.66
Beta	0.94	1.00	0.99
R-Squared	95.48	100.00	92.48
Sharpe Ratio	0.96	0.77	0.70

100.00

100.00

97.74

101.02

103.83

90.09



iShares Russell Mid-Cap Index K BRMKX (Blackrock Midcap Index)

6/28/2019

Fund Incep Date: 05/13/2015

Benchmark

Russell Mid-Cap Index

0.00%

0.40%

0.40%

4.48%

Category: Mid-Cap Blend Net Assets: \$1,100,00M

Manager Name: Alan Mason

Manager Start Date : 05/13/2015

Expense Ratio : 0.07%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)



Non-US Bonds

Sector Breakdown

Sensitive	
Communication Services	0.91%
Industrials	13.93%
Technology	18.47%
Energy	4.48%
Cyclical	
Basic Materials	4.21%
Consumer Cyclical	13.96%
Real Estate	10.20%
Financial Services	12.69%
Defensive	
Consumer Defensive	4.98%
Healthcare	9.62%
Utilities	6.56%
TOP 10 HOLDINGS	
L3Harris Technologies Inc	0.55%
Sempra Energy	0.49%
Fiserv Inc	0.47%
Dollar General Corp	0.46%
Williams Companies Inc	0.44%
Red Hat Inc	0.43%
Welltower Inc	0.43%
Newmont Goldcorp Corp	0.41%

ASSET LOADINGS (Returns-based)

Xcel Energy Inc

Total:

Ingersoll-Rand PLC

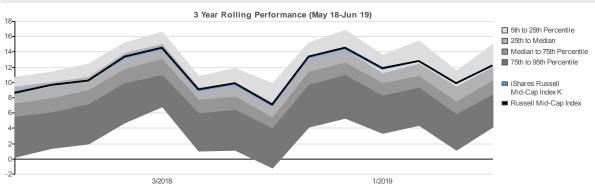


-		Current		Avei	rage
		Fund	Bmk	Fund	Bmk
Т	Cash	0.1	0.0	0.2	0.1
1	Top Value	0.3	0.0	0.1	0.2
1	Top Growth	0.0	0.7	0.0	0.4
	Mid Value	58.4	58.0	56.6	56.1
1	Mid Growth	40.9	40.9	42.7	42.9
	Sm Value	0.2	0.4	0.3	0.3
1	Sm Growth	0.0	0.0	0.1	0.1

INVESTMENT OVERVIEW

The investment seeks to track the investment results of the Russell Midcap® Index (the "underlying index"), which measures the performance of the mid-capitalization sector of the U.S. equity market. The fund generally invests at least 90% of its assets, plus the amount of any borrowing for investment purposes, in securities of the underlying index. The underlying index is a float-adjusted, capitalization-weighted index of the 800 smallest issuers in the Russell 1000® Index.

PERFORMANCE



	3 IVI	YID	11	31		31	/ Y	101	51
Fund	4.14	21.36	7.94 / 13	12.13 / 24					8.56
Benchmark	4.13	21.35	7.83 / 15	12.16 / 24	8	3.63 / 11	13.37 / 7	15.16 / 5	
Peer Group Median	3.05	17.91	2.23 / 50	10.21 / 50) 6	5.22 / 50	11.55 / 50	12.92 / 50	
Number of Funds			443	403		367	340	313	
CALENDAR	2018	2017	2016	2015	2014	2013	2012	2011	2010
Fund	-9.05	18.40	13.76						
Benchmark	-9.06	18.52	13.80	-2.44	13.22	34.76	17.28	-1.55	25.48
Peer Group Median	-11.46	15.85	15.08	-3.34	9.09	33.89	17.12	-2.55	23.65

RISK & PERFORMANCE STATISTICS

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.01	0.00	-2.25
Beta	1.00	1.00	1.02
R-Squared	99.99	100.00	94.12
Sharpe Ratio	0.82	0.82	0.65
Up Market Capture	99.92	100.00	95.42
Down Market Capture	100.05	100.00	103.81
5 Yr	Fund	Benchmark	Peer Grou Median
ΔInha	NΔ	0.00	-2 32

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	NA	0.00	-2.32
Beta	NA	1.00	1.02
R-Squared	NA	100.00	93.52
Sharpe Ratio	NA	0.64	0.44
Up Market Capture	NA	100.00	91.75
Down Market Capture	NA	100.00	105.78

NOTES

DFA US Micro Cap I DFSCX

6/28/2019

Fund Incep Date: 12/23/1981

Benchmark:

Russell 2000 Index

Category: Small Blend

Net Assets: \$6,428.00M Manager Name: Jed S. Fogdall

Manager Start Date: 02/28/2012

Expense Ratio:

Expense Rank: 0.52%

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Sector Breakdown

Consumer Cyclical Real Estate

Total:

Sensitive	
Communication Services	1.22%
Industrials	17.16%
Technology	14.61%
Energy	5.19%
Cyclical	
Basic Materials	6.79%
Consumer Cyclical	15.36%

Real Estate	1.06%
Financial Services	22.56%
Defensive	
Consumer Defensive	4.36%
Healthcare	9.21%
Utilities	2.48%

Othitics	2.4070
TOP 10 HOLDINGS	
S+p500 Emini Fut Jun19 Xcme 20190621	0.91%
Ensign Group Inc	0.43%
OSI Systems Inc	0.37%
Coca-Cola Consolidated Inc	0.35%
Conmed Corp	0.34%
NMI Holdings Inc A	0.34%
California Water Service Group	0.34%
Chart Industries Inc	0.34%
Innospec Inc	0.33%
Inter Parfums Inc	0.32%

ASSET LOADINGS (Returns-based)



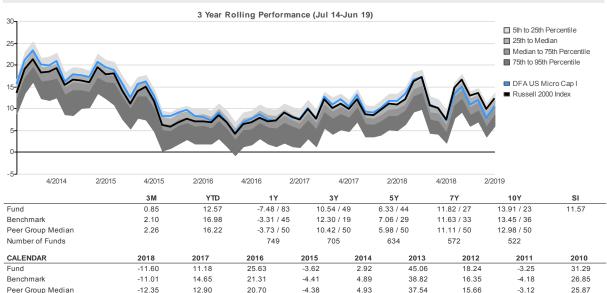
4.09%

	,	Current		Av erage	
		Fund	Bmk	Fund	Bmk
Т	Cash	0.0	0.0	0.4	0.0
1	Top Value	0.0	0.0	0.0	0.0
1	Top Growth	0.0	0.0	0.0	0.0
1	Mid Value	0.0	0.2	0.0	0.1
1	Mid Growth	0.0	0.0	0.0	0.0
	Sm Value	69.4	48.6	80.6	49.5
1	Sm Growth	30.7	51.3	19.0	50.4

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



NOTES

RISK & PERFORMANCE STATISTICS

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-1.84	0.00	-1.34
Beta	1.03	1.00	0.97
R-Squared	97.09	100.00	95.86
Sharpe Ratio	0.57	0.69	0.59
Up Market Capture	99.17	100.00	91.00
Down Market Capture	107.65	100.00	99.66
5 Yr	Fund	Benchmark	Peer Grou Median

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.60	0.00	-0.62
Beta	0.99	1.00	0.95
R-Squared	96.50	100.00	95.02
Sharpe Ratio	0.40	0.44	0.39
Up Market Capture	97.07	100.00	89.78
Down Market Capture	100.12	100.00	94.88



iShares Russell 2000 Small-Cap Idx K BDBKX (Blackrock Russell 2000 Index)

6/28/2019

Fund Incep Date: 03/31/2011

Benchmark : Russell 2000 Index Category: Small Blend

0.00%

0.00%

2.95%

Net Assets: \$2,094.00M Manager Name : Greg Savage Manager Start Date : 04/27/2012

Expense Ratio : 0.07%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Other



Non-US Bonds

Sector Breakdown

Sensitive	
Communication Services	1.05%
Industrials	15.22%
Technology	14.95%
Energy	3.43%
Cyclical	
Basic Materials	5.45%
Consumer Cyclical	11.19%
Real Estate	8.94%
Financial Services	16.40%
Defensive	
Consumer Defensive	3.61%
Healthcare	15.94%
Utilities	3.82%
TOP 10 HOLDINGS	
Array BioPharma Inc	0.51%
iShares Russell 2000 ETF	0.40%
Haemonetics Corp	0.31%
NovoCure Ltd	0.27%
Deckers Outdoor Corp	0.25%
Science Applications International Corp	0.25%
EMCOR Group Inc	0.24%
Portland General Electric Co	0.24%
Southwest Gas Holdings Inc	0.24%
Radian Group Inc	0.24%

ASSET LOADINGS (Returns-based)

Total:

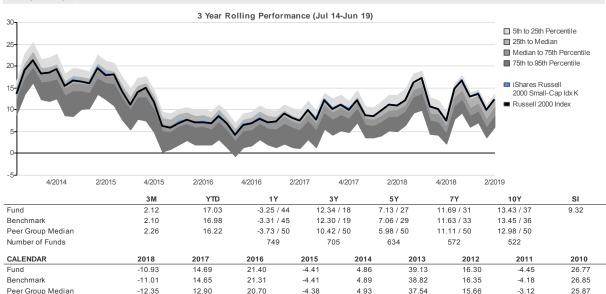


		Current		Avei	rage
		Fund	Bmk	Fund	Bmk
Т	Cash	0.0	0.0	0.0	0.0
1	Top Value	0.3	0.0	0.4	0.0
1	Top Growth	0.0	0.0	0.0	0.0
	Mid Value	0.0	0.2	0.0	0.1
1	Mid Growth	0.0	0.0	0.1	0.0
	Sm Value	47.5	48.6	48.7	49.5
1	Sm Growth	52.2	51.3	50.8	50.4

INVESTMENT OVERVIEW

The investment seeks to match the performance of the Russell 2000® Index as closely as possible before the deduction of fund expenses. The fund is a "feeder" fund that invests all of its assets in the Series, a series of the Master LLC, which has the same investment objective and strategies as the fund. It will be substantially invested in securities in the Russell 2000, and will invest, under normal circumstances, at least 80% of its assets in securities or other financial instruments that are components of or have economic characteristics similar to the securities included in the Russell 2000.

PERFORMANCE



NOTES

RISK & PERFORMANCE STATISTICS

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.04	0.00	-1.34
Beta	1.00	1.00	0.97
R-Squared	100.00	100.00	95.86
Sharpe Ratio	0.69	0.69	0.59
Up Market Capture	100.00	100.00	91.00
Down Market Capture	99.79	100.00	99.66
5 Yr	Fund	Benchmark	Peer Group Median
Alpha	0.07	0.00	-0.62
Beta	1.00	1.00	0.95
R-Squared	99.99	100.00	95.02
Sharpe Ratio	0.45	0.44	0.39
Up Market Capture	100.04	100.00	89.78
Down Market Capture			



iShares MSCI EAFE Intl Idx K BTMKX (Blackrock EAFE Equity Index)

6/28/2019

Fund Incep Date: 03/31/2011

Benchmark : MSCI EAFE Category: Foreign Large Blend Net Assets: \$7.970.00M Manager Name Greg Savage Manager Start Date: 04/27/2012

Expense Ratio : 0.06%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)

Assets



Sector Breakdown

Sensitive	
Communication Services	3.98%
Industrials	13.21%
Technology	8.19%
Energy	5.42%
Cyclical	
Basic Materials	7.47%
Consumer Cyclical	11.75%
Real Estate	3.98%
Financial Services	19.58%
Defensive	
Consumer Defensive	12.28%
Healthcare	10.28%
Utilities	3.88%
TOP 10 HOLDINGS	
Nestle SA	2.11%
Novartis AG	1.50%
Roche Holding AG	1.40%
HSBC Holdings PLC	1.17%
BP PLC	1.05%
Royal Dutch Shell PLC Class A	1.03%
Toyota Motor Corp	0.97%

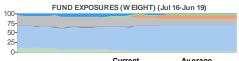
ASSET LOADINGS (Returns-based)

Royal Dutch Shell Pic, Classb

Total SA

Total:

AIA Group Ltd

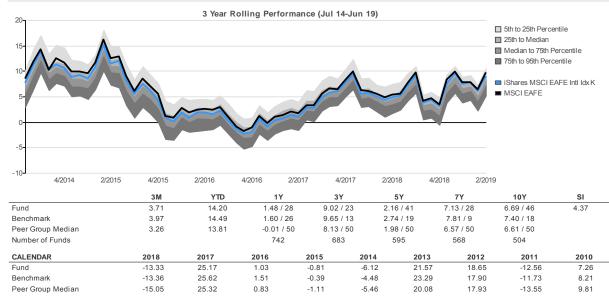


		Current		Av erage	
		Fund	Bmk	Fund	Bmk
Т	Cash	2.1	3.3	5.1	2.7
1	Europe Lg	68.0	61.8	61.7	59.2
1	Europe Sm	0.0	4.7	0.5	4.3
	AsiaPac Lg	16.9	25.6	22.3	31.0
-1	AsiaPac Sm	8.1	3.7	3.7	1.9
	Emg Europe	1.8	1.0	1.1	0.9
1	Emg Asia	3.1	0.0	5.6	0.0

INVESTMENT OVERVIEW

The investment seeks to match the performance of the MSCI EAFE Index (Europe, Australasia, Far East) in U.S. dollars with net dividends as closely as possible before the deduction of fund expenses. The fund will be substantially invested in securities in the MSCI EAFE Index, and will invest at least 80% of its assets in securities or other financial instruments that are components of or have economic characteristics similar to the securities included in the MSCI EAFE Index.

PERFORMANCE



NOTES

RISK & PERFORMANCE STATISTICS

0.97%

0.87%

0.85%

11.93%

3 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.54	0.00	-1.44
Beta	1.00	1.00	1.01
R-Squared	98.65	100.00	93.74
Sharpe Ratio	0.71	0.76	0.62
Up Market Capture	96.71	100.00	94.83
Down Market Capture	99.70	100.00	101.85
			Boor Grou

5 Yr	Fund	Benchmark	Peer Group Median
Alpha	-0.50	0.00	-0.67
Beta	0.96	1.00	0.96
R-Squared	97.86	100.00	92.25
Sharpe Ratio	0.17	0.21	0.15
Up Market Capture	93.91	100.00	91.64
Down Market Capture	97.24	100.00	96.22



American Funds Europacific Growth R6 RERGX

0.17%

1.38%

21.49%

6/28/2019

Fund Incep Date: 05/01/2009

Benchmark:

MSCI ACWI ex USA GDP NR USD

Category: Foreign Large Growth Net Assets: \$161,594.00M Manager Name: Mark E. Denning Manager Start Date: 12/31/1991

Expense Ratio

0.49%

Expense Rank:

PORTFOLIO COMPOSITION (Holdings-based)



Non-US Bonds

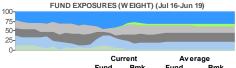
Sector Breakdown

Sensitive	
Communication Services	1.53%
Industrials	11.33%
Technology	18.57%
Energy	6.33%
Cyclical	
Basic Materials	8.97%
Consumer Cyclical	13.11%
Real Estate	1.72%
Financial Services	19.48%
Defensive	
Consumer Defensive	5.75%
Healthcare	10.04%
Utilities	3.18%
TOP 10 HOLDINGS	
AIA Group Ltd	3.04%
Airbus SE	2.89%
HDFC Bank Ltd	2.46%
Alibaba Group Holding Ltd ADR	2.38%
Nintendo Co Ltd	2.32%
Reliance Industries Ltd	2.21%
Samsung Electronics Co Ltd	1.73%
ASML Holding NV	1.55%
Vale SA ADR	1.52%

ASSET LOADINGS (Returns-based)

Tencent Holdings Ltd

Total:

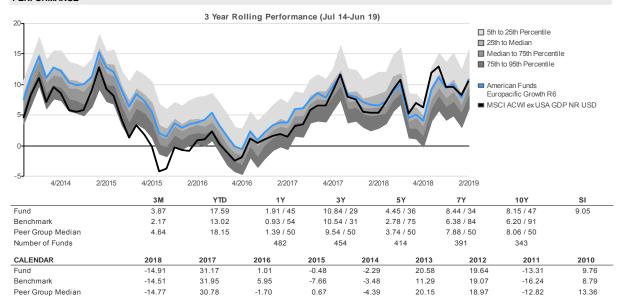


		Current		Avei	rage
		Fund	Bmk	Fund	Bmk
Т	Cash	0.0	0.0	3.7	0.0
1	Europe Lg	21.8	33.8	19.8	30.6
1	Europe Sm	23.5	9.3	20.9	4.2
	AsiaPac Lg	16.0	2.6	19.3	10.1
1	AsiaPac Sm	0.0	0.0	0.0	0.0
	Emg Europe	6.2	17.9	3.2	16.8
1	Emg Asia	32.6	36.5	33.1	38.4

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	0.76	0.00	-0.02
Beta	0.95	1.00	0.91
R-Squared	92.99	100.00	80.15
Sharpe Ratio	0.78	0.75	0.68
Up Market Capture	96.14	100.00	90.71
Down Market Capture	92.28	100.00	92.48
5 Yr	Fund	Benchmark	Peer Group Median
5 Yr Alpha	Fund 1.91	Benchmark 0.00	
			Median
Alpha	1.91	0.00	Median 1.29
Alpha Beta	1.91 0.82	0.00	Median 1.29 0.80
Alpha Beta R-Squared	1.91 0.82 87.87	0.00 1.00 100.00	Median 1.29 0.80 77.66



Capital Markets Overview

Second Quarter 2019

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Macroeconomic Summary



U.S. Economy

- The US economy accelerated in Q1, posting 3.1% quarter over quarter annualized growth
 - Advance estimates of 2Q expected to be released July 26th
- Strong labor markets continued with a 3.6% unemployment rate in April which is the lowest it has been since 1969 when it touched 3.4%; it ended the quarter slightly up from the low, at 3.7%
- The US consumer also appears to be in good shape with consumer confidence, consumer spending and consumer net wealth continue their upward trend since the start of this year
- Housing prices hit all-time highs in April by several metrics, though housing price growth slowed to near 2.5%
- The December rate hike to 2.5% has been largely viewed as a policy mistake; in fact, markets are pricing in a near 100% chance of a rate reduction at their July 30-31st, which has sent prices for risky assets higher
 - The US 10Y-3M treasury spread inverted has been inverted since May 23rd; this is of particular import as this is the Fed's preferred spread for recession predictors and relevant in their rate cut calculations

Global Economy

- China is at the center or involved in several high-profile trade global trade topics:
 - 1) China-EU talks were progressing well in April as the two parties agreed to strengthen their trade relationship "based on reciprocity", said European Council President Donald Tusk
 - 2) China's 2Q19 GDP came in at a surprise low of 6.2% which represents the slowest growth since 1992 due in part to trade tensions with the US
 - 3) This has prompted anxiety in any market that exports to China, both on the inputs and completed goods
 - 4) Of particular note, China is Germany's 3rd largest export partner and imputes slowdown concerns for a major economic member of the EU
- Formal central bank activity was silent this quarter, with central banks from the US, UK, ECB and BoJ making no adjustments to their rates; however:
 - The market is expecting the Fed to cut US rates at least 25bps in July
 - ECB President Mario Draghi indicated rate cuts were possible as early as July 2019
- Christine Lagarde was elected new ECB President at the end of Mario Draghi's term on October 31st, 2019
- Brexit will enter a new chapter when the Conservative party elects new leadership on July 24th which could result in a new tone to UK-EU negotiations



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Market Summary

U.S. Markets

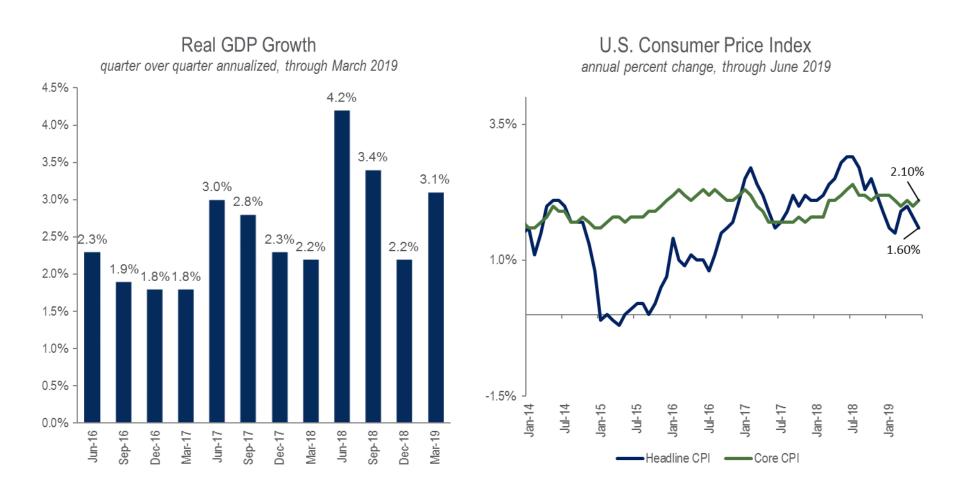
- Equities as represented by the S&P 500 continued their strong YTD performance returning 4.30% in 2Q, surpassing the 2018 all-time high
 - YTD total returns of 18.54%
- Growth stocks also continued their outperformance over value stocks across all capitalization ranges, a theme
 that has persisted across the entire bull market
- Some segments of value investing, Financials (8.0%) specifically, led S&P 500 sectors in 2Q while Utilities (19.0%) and Real Estate (16.8%) lead the trailing 1-year period
- US large caps outperformed US small caps over the trailing 12 months by over 11% (large cap blend vs. small cap blend), a threshold that has oftentimes signaled outperformance in small caps through this bull market
- Fixed income returns were also broadly positive, rallying off dovish statements from the Fed and pricing in expected lower interest rates from central banks globally
 - As expected in these conditions longer dated assets outperformed with the US Govt/Credit Long leading all categories with a 6.6% 2Q return
 - YTD on "riskier" assets such as US Govt/Credit Long, Corporate High Yield and Emerging Markets Debt lead with 13.5%, 9.9% and 11.3%, respectively

Global Markets

- International equities lagged their US counterparts through 2Q but posted positive returns; the MSCI EAFE Index notched 3.7% returns while the MSCI EM Index returned 0.6%
 - EAFE was led by Switzerland (22.6%), Australia (19.5%) and France (17.9%)
 - UK and Japan were relative detractors with 1.0% and 0.9% returns and are the top 2 weighted countries with over 40% weighting between them
 - Within EM, weakness in China dragged on the index as it returned -4.0% and with its prominence within the index (~31.5%) significantly impacted returns
- As previously mentioned, Emerging Markets Debt as represented by the JPM EMBI Global Diversified, performed well returning 4.1% in 2Q bringing YTD returns to 11.3% in USD returns



State of the U.S. Economy

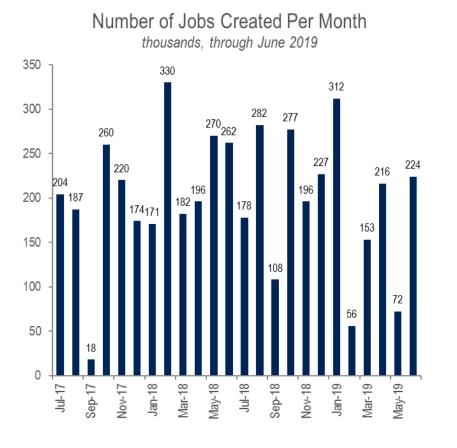


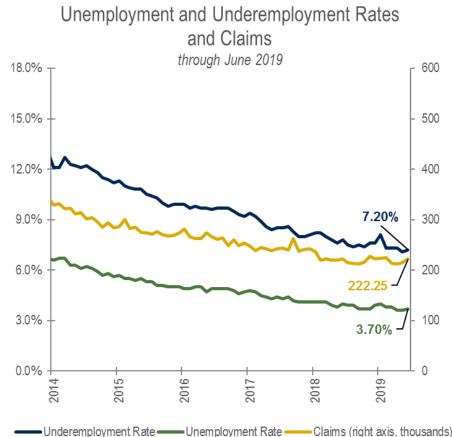
Source: Bloomberg; GWCM Analysis
The core measure of inflation excludes food and energy prices while the headline measure of inflation does not
GDP estimates presented reflect the median estimate provided by Bloomberg



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U.S. Labor Market Trends





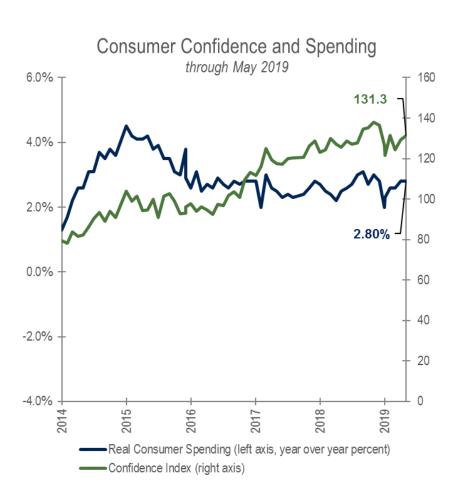
Source: Bloomberg; Bureau of Labor Statistics; GWCM Analysis

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

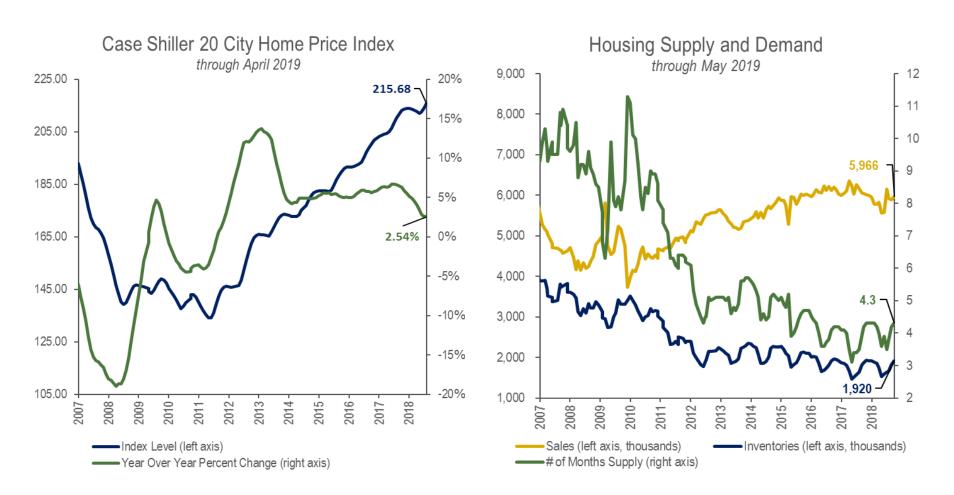




Source: Bloomberg; Federal Reserve; GWCM Analysis



U.S Housing Market Trends



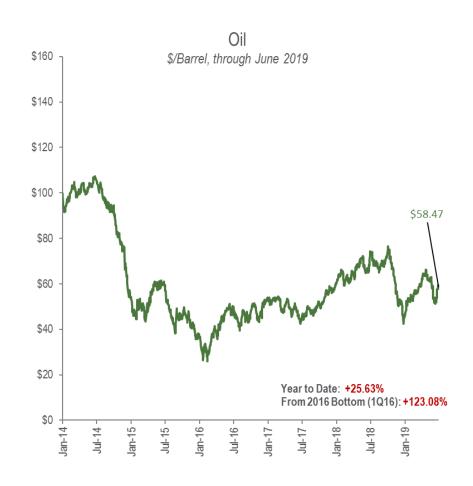
Source: Bloomberg; GWCM Analysis



Energy Inflation and Oil

Energy Inflation
year-over-year percent change, through June 2019

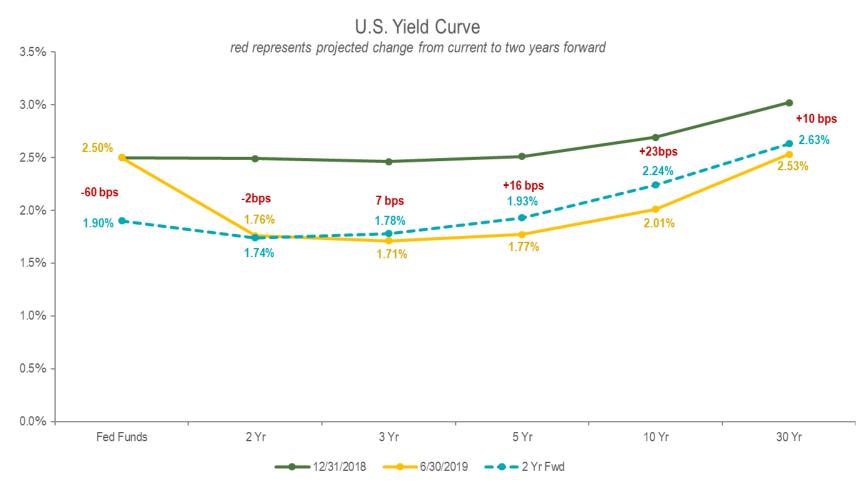




Source: Bloomberg; GWCM Analysis
Oil prices shown for West Texas Intermediate (WTI) Crude



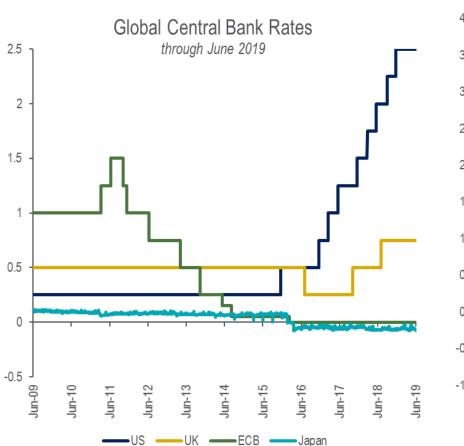
Historical, Current and Forward Rates

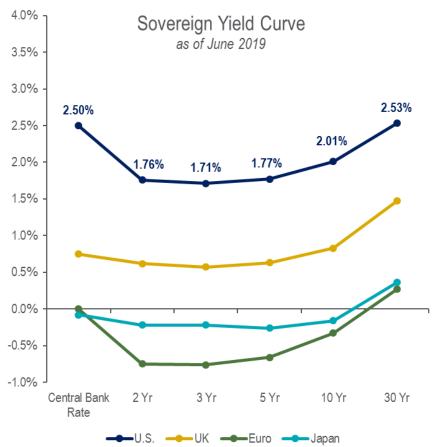


Source: Bloomberg; GWCM Analysis



Global Monetary Policies and Interest Rates





Source: Bloomberg; GWCM Analysis



Does 2019's strong first quarter for the S&P signal weak returns through the end of the year? The data says not necessarily...

 After the S&P 500 posted a +12.9% 1Q19 return, many people were wondering whether or not the longest bull market in history could continue its incredible run

• Great-West Investments (GWI) research¹ from April demonstrated that historically there is little correlation to 1Q returns and the subsequent 2Q-4Q returns for any given year

 In fact, in 2Q equity markets continued to rally (+4.3%) off a dovish shift from the fed in response to economic softening

- With central banks around the world poised for accommodative action, market participants have continued to send risky assets higher
- At GWI we believe that robust, well-diversified asset allocation can provide portfolios with the best opportunity to outperform through the longterm and worrying about short-term fluctuations is not productive

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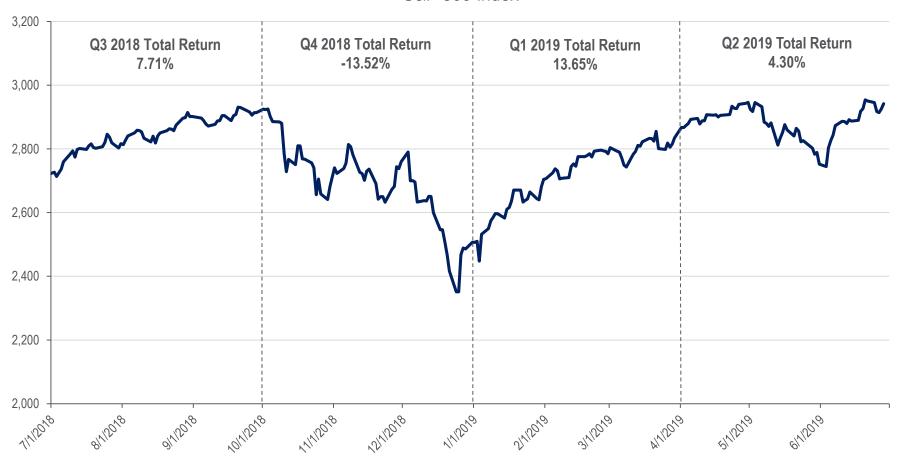
^{80% 60% 40% 20% -20% -25% -20% -15% -10% -5% 0% 5% 10% 15% 20% 25%} Q1 Return

http://greatwestfunds.com/pdf/GWI_Research_Note_Fast_Starts_And_Winning_Streaks.pdf
 Source: Morningstar Direct, GWCM Analysis



The S&P 500 index continued its strong YTD performance in the 2Q

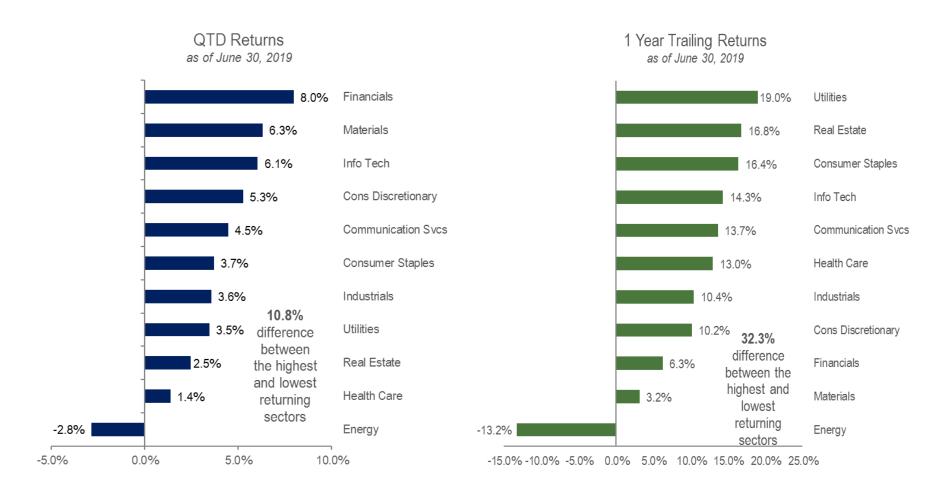
S&P 500 Index



Source: Morningstar Direct; GWCM Analysis



S&P 500 Sector Returns



Source: Morningstar Direct; GWCM Analysis



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Equity Market Returns

(as of June 30, 2019)		QTD	YTD	1 Year Trailing	3 Year Trailing	5 Year Trailing	10 Year Trailing	2018	2017	2016	2015	2014	2013	2012
Don	nestic Equity													
ap	S&P 500	4.3%	18.5%	10.4%	14.2%	10.7%	14.7%	-4.4%	21.8%	12.0%	1.4%	13.7%	32.4%	16.0%
Large Cap	Russell 1000 Value	3.8%	16.2%	8.5%	10.2%	7.5%	13.2%	-8.3%	13.7%	17.3%	-3.8%	13.5%	32.5%	17.5%
Lar	Russell 1000 Growth	4.6%	21.5%	11.6%	18.1%	13.4%	16.3%	-1.5%	30.2%	7.1%	5.7%	13.0%	33.5%	15.3%
ap	Russell Mid Cap	4.1%	21.3%	7.8%	12.2%	8.6%	15.2%	-9.1%	18.5%	13.8%	-2.4%	13.2%	34.8%	17.3%
Mid Cap	Russell Mid Cap Value	3.2%	18.0%	3.7%	8.9%	6.7%	14.6%	-12.3%	13.3%	20.0%	-4.8%	14.7%	33.5%	18.5%
≅	Russell Mid Cap Growth	5.4%	26.1%	13.9%	16.5%	11.1%	16.0%	-4.8%	25.3%	7.3%	-0.2%	11.9%	35.7%	15.8%
Sap	Russell 2000	2.1%	17.0%	-3.3%	12.3%	7.1%	13.4%	-11.0%	14.6%	21.3%	-4.4%	4.9%	38.8%	16.3%
Small Cap	Russell 2000 Value	1.4%	13.5%	-6.2%	9.8%	5.4%	12.4%	-12.9%	7.8%	31.7%	-7.5%	4.2%	34.5%	18.1%
Sm	Russell 2000 Growth	2.7%	20.4%	-0.5%	14.7%	8.6%	14.4%	-9.3%	22.2%	11.3%	-1.4%	5.6%	43.3%	14.6%
Inte	rnational Equity													
	MSCIEAFE	3.7%	14.0%	1.1%	9.1%	2.2%	6.9%	-13.8%	25.0%	1.0%	-0.8%	-4.9%	22.8%	17.3%
S	Australia	7.3%	19.5%	6.5%	11.1%	2.4%	8.3%	-12.0%	19.9%	11.4%	-10.0%	-3.4%	4.2%	22.1%
arkei	Canada	4.9%	21.0%	3.3%	8.0%	0.0%	5.3%	-17.2%	16.1%	24.6%	-24.2%	1.5%	5.6%	9.1%
ğ	France	6.5%	17.9%	3.0%	13.2%	3.6%	7.0%	-12.8%	28.7%	4.9%	-0.1%	-9.9%	26.3%	21.3%
Developed Markets	Germany	7.1%	14.5%	-3.8%	8.3%	0.3%	7.1%	-22.2%	27.7%	2.8%	-1.9%	-10.4%	31.4%	30.9%
evel	Japan	1.0%	7.7%	-4.2%	8.1%	4.5%	5.8%	-12.9%	24.0%	2.4%	9.6%	-4.0%	27.2%	8.2%
	Switzerland	8.4%	22.6%	19.8%	10.5%	4.0%	10.2%	-9.1%	22.5%	-4.9%	0.4%	-0.1%	26.6%	20.4%
	UK	0.9%	12.9%	-2.0%	6.9%	-0.3%	6.8%	-14.2%	22.3%	-0.1%	-7.6%	-5.4%	20.7%	15.3%
	MSCI Emerging Markets	0.6%	10.6%	1.2%	10.7%	2.5%	5.8%	-14.6%	37.3%	11.2%	-14.9%	-2.2%	-2.6%	18.2%
S	Brazil	7.2%	15.9%	39.4%	17.6%	1.7%	1.9%	-0.5%	24.1%	66.2%	-41.4%	-14.0%	-16.0%	0.0%
rket	China	-4.0%	13.0%	-6.7%	14.3%	7.4%	6.2%	-18.9%	54.1%	0.9%	-7.8%	8.0%	3.6%	22.7%
Ma Ma	India	0.5%	7.7%	7.9%	10.5%	5.4%	6.5%	-7.3%	38.8%	-1.4%	-6.1%	23.9%	-3.8%	26.0%
Emerging Markets	Indonesia	3.1%	7.6%	20.3%	7.0%	3.5%	9.1%	-9.2%	24.2%	17.0%	-19.5%	26.6%	-23.5%	4.6%
mer	Korea	-0.9%	3.9%	-9.1%	8.2%	1.0%	7.8%	-20.9%	47.3%	8.7%	-6.7%	-11.1%	3.9%	21.2%
Ш	Mexico	1.1%	6.7%	-7.4%	-2.0%	-6.2%	3.7%	-15.5%	16.0%	-9.2%	-14.4%	-9.3%	0.2%	29.1%
	Russia	16.9%	31.1%	27.1%	20.9%	4.7%	6.2%	-0.4%	5.2%	54.8%	4.2%	-46.3%	0.8%	13.7%

Source: Morningstar Direct; GWCM Analysis

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

^{*}Canada is not part of the EAFE Index

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



Returns by Style

		3 Months				1 Year		Since Market Peak (October, 200					
	Value	Blend	Growth		Value	Blend	Growth		Value	Blend	Growth		
Large	3.8%	4.3%	4.6%	Large	8.5%	10.4%	11.6%	Large	94.4%	141.4%	199.8%		
Mid	3.2%	4.1%	5.4%	Mid	3.7%	7.8%	13.9%	Mid	125.8%	146.9%	173.2%		
Small	1.4%	2.1%	2.7%	Small	-6.2%	-3.3%	-0.5%	Small	92.5%	118.1%	144.0%		
		3 Year				5 Year			Since Mar	rket Low (Ma	arch, 2009)		
	Value	Blend	Growth		Value	Blend	Growth		Value	Blend	Growth		
Large	10.2%	14.2%	18.1%	Large	7.5%	10.7%	13.4%	Large	384.7%	439.5%	511.5%		
Mid	8.9%	12.2%	16.5%	Mid	6.7%	8.6%	11.1%	Mid	476.7%	495.8%	531.7%		
Small	9.8%	12.3%	14.7%	Small	5.4%	7.1%	8.6%	Small	376.0%	425.8%	475.8%		

performance as of June 30, 2019

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 Growth – Russell 2000 Growth Index



Fixed Income and Specialty Returns

(as of June 30, 2019)	QTD	YTD	1 Year Trailing	3 Year Trailing	5 Year Trailing	10 Year Trailing	2018	2017	2016	2015	2014	2013	2012
Fixed Income													
Bloomberg Barclays US Aggregate	3.1%	6.1%	7.9%	2.3%	2.9%	3.9%	0.0%	3.5%	2.6%	0.5%	6.0%	-2.0%	4.2%
Bloomberg Barclays US Treasury	3.0%	5.2%	7.2%	1.3%	2.5%	3.0%	0.9%	2.3%	1.0%	0.8%	5.1%	-2.7%	2.0%
Bloomberg Barclays US Govt/Credit Intermediate	2.6%	5.0%	6.9%	2.0%	2.4%	3.2%	0.9%	2.1%	2.1%	1.1%	3.1%	-0.9%	3.9%
Bloomberg Barclays US Govt/Credit Long	6.6%	13.5%	13.8%	3.8%	5.7%	7.6%	-4.7%	10.7%	6.7%	-3.3%	19.3%	-8.8%	8.8%
Bloomberg Barclays US TIPS	2.9%	6.2%	4.8%	2.1%	1.8%	3.6%	-1.3%	3.0%	4.7%	-1.4%	3.6%	-8.6%	7.0%
Bloomberg Barclays US Corporate High Yield	2.5%	9.9%	7.5%	7.5%	4.7%	9.2%	-2.1%	7.5%	17.1%	-4.5%	2.5%	7.4%	15.8%
FTSE WGBI	3.6%	5.4%	5.5%	1.0%	0.8%	2.2%	-0.8%	7.5%	1.6%	-3.6%	-0.5%	-4.0%	1.6%
JPM EMBI Global Diversified	4.1%	11.3%	12.4%	5.5%	5.3%	7.8%	-4.3%	10.3%	10.2%	1.2%	7.4%	-5.3%	17.4%
FTSE Treasury Bill 3 Month	0.6%	1.2%	2.3%	1.4%	0.8%	0.5%	1.9%	0.8%	0.3%	0.0%	0.0%	0.1%	0.1%
Specialty													·
Bloomberg Commodity	-1.2%	5.1%	-6.8%	-2.2%	-9.1%	-3.7%	-11.2%	1.7%	11.8%	-24.7%	-17.0%	-9.5%	-1.1%
DJ US Select REIT	0.8%	16.7%	9.8%	3.7%	7.6%	15.4%	-4.2%	3.8%	6.7%	4.5%	32.0%	1.2%	17.1%
FTSE EPRA/NAREIT Developed Ex US	-0.3%	13.3%	6.7%	7.5%	4.1%	8.8%	-5.8%	20.8%	2.0%	-3.2%	3.2%	6.1%	38.6%

Source: Morningstar Direct; GWCM Analysis

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



Calendar Year Returns by Asset Class

2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Cumulative Return*
Agg Bond	Emrg Mkt	Sm Growth	Agg Bond	Mid Value	Sm Growth	Mid Value	Lg Growth	Sm Value	Emrg Mkt	Agg Bond	Lg Growth
5.2	78.5	29.1	7.8	18.5	43.3	14.7	5.7	31.7	37.3	0.01	210.25
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	Lg Growth -1.51	Mid Growth 186.97
Sm Value	Lg Growth	Mid Value	Lg Growth	Sm Value	Sm Value	Lg Growth	Agg Bond	Lg Value	Mid Growth 25.3	Balanced	Sm Growth
-28.9	37.2	24.8	2.6	18.1	34.5	13.0	0.5	17.3		-2.35	162.96
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	Mid Growth -4.75	Mid Value 147.29
Lg Growth -38.4	Mid Value 34.2	Emrg Mkt 18.9	Mid Value -1.4	International 17.3	Mid Value 33.5	Balanced 10.6	International -0.8	Emrg Mkt 11.2	Sm Growth 22.2	Lg Value -8.27	Balanced 117.96
Mid Value	International 31.8	Lg Growth	Mid Growth	Mid Growth	Lg Value	Agg Bond	Sm Growth	Balanced	Balanced	Sm Growth	Sm Value
-38.4		16.7	-1.7	15.8	32.5	6.0	-1.4	8.3	14.2	-9.31	116.89
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	Mid Value -12.29	Lg Value 111.80
International	Lg Value	Balanced	Sm Value	Sm Growth	Balanced	Sm Value	Mid Value	Lg Growth	Mid Value	Sm Value	Agg Bond
-43.4	19.7	12.1	-5.5	14.6	17.6	4.2	-4.8	7.1	13.3	-12.86	57.18
Mid Growth	Balanced	International 7.8	International	Balanced	Agg Bond	Emrg Mkt	Sm Value	Agg Bond	Sm Value	International	International
-44.3	18.4		-12.1	11.3	-2.0	-2.2	-7.5	2.6	7.8	-13.79	19.13
Emrg Mkt	Agg Bond	Agg Bond	Emrg Mkt	Agg Bond	Emrg Mkt	International	Emrg Mkt	International	Agg Bond	Emrg Mkt	Emrg Mkt
-53.3	5.9	6.5	-18.4	4.2	-2.6	-4.9	-14.9	1.0	3.5	-14.58	11.63

^{*}Cumulative return is for the time period 1/1/2008-6/30/2019

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.



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Disclosures and Benchmark Definitions

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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.



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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.