

AB Global Bond I ANAIX

Morningstar Category
World Bond-USD Hedged

Morningstar Index
BBgBarc US Agg Bond TR USD

Portfolio Manager(s)

Douglas Peebles since 03-1992
 Paul DeNoon since 08-2002
 Scott DiMaggio since 08-2005
 Matthew Sheridan since 01-2007
 John Taylor since 02-2019

Quantitative Screens

Performance: The fund has finished in the World Bond-USD Hedged category's top three quartiles in 9 of the 10 years it's been in existence.

Management: The fund's management has been in place for 27.53 years.

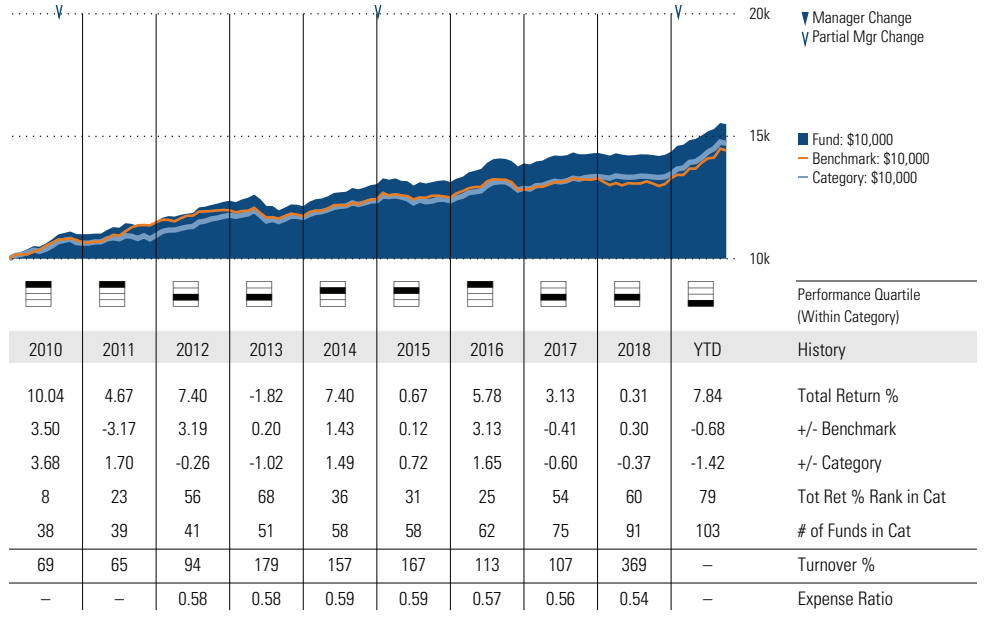
Style Consistency is not calculated for Fixed Income funds.

Net Expense: The fund's expense ratio of 0.54 is 31.65% lower than the World Bond-USD Hedged category average.

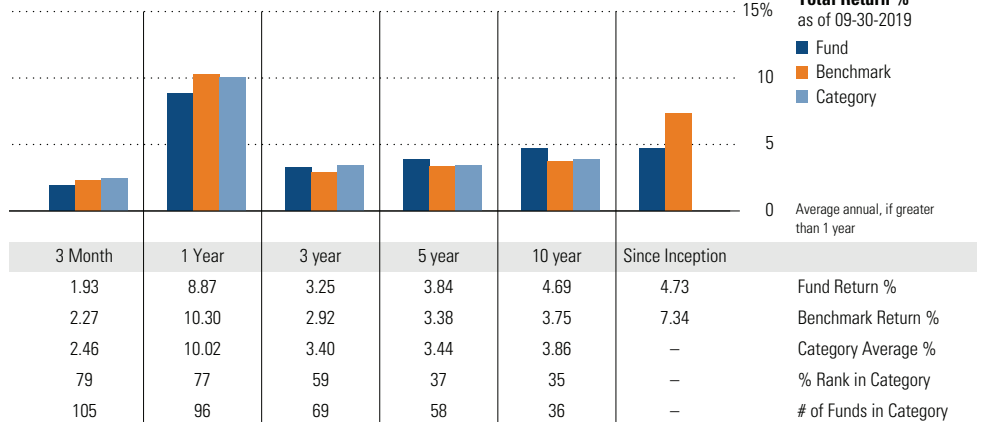
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

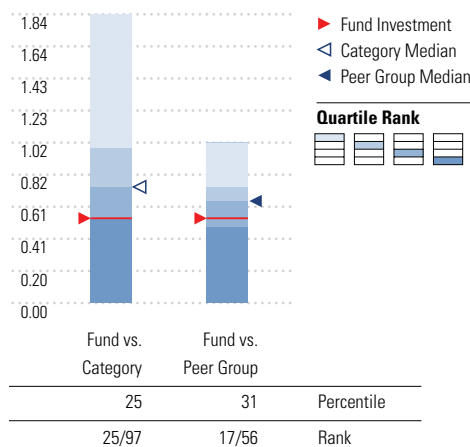
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	1.44	-	1.46
Beta	0.61	-	0.68
R-Squared	75.87	-	66.43
Standard Deviation	2.34	3.35	2.80
Sharpe Ratio	0.72	0.41	0.68
Tracking Error	1.74	-	2.04
Information Ratio	0.19	-	0.28
Up Capture Ratio	76.55	-	85.26
Down Capture Ratio	43.32	-	53.20

Portfolio Metrics

	Fund	Bmark	Cat
Avg Eff Duration	5.70	4.43	-
Avg Eff Maturity	8.04	-	-

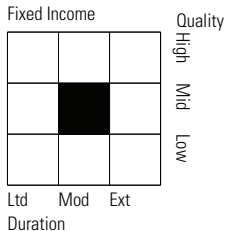
AB Global Bond I ANAIX

Morningstar Category
World Bond-USD Hedged

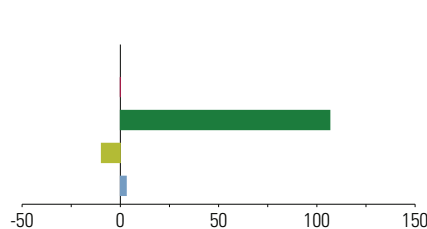
Morningstar Index
BBgBarc US Agg Bond TR USD

Style Analysis as of 09-30-2019

Style Breakdown



Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	0.00	-
Non-US Stocks	0.02	-
Bonds	106.62	-
Cash	-9.65	-
Other	3.01	-
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	32.08	3.53	-
AA	9.59	74.59	-
A	24.78	10.82	-
BBB	22.39	8.32	-
BB	5.45	0.28	-
B	1.27	0.00	-
Below B	0.22	0.00	-
Not Rated	4.22	2.46	-

Sector Weighting as of 09-30-2019

	Fund	Bmark	Cat	Fund	Benchmark	Category Average
Government	30.80	-	-			
Treasury	14.70	-	-			
Inflation – Protected	2.78	-	-			
Agency/Quasi Agency	1.40	-	-			
Other Government Related	11.92	-	-			
Corporate	10.23	-	-			
Corporate Bond	8.95	-	-			
Bank Loan	0.16	-	-			
Convertible	1.07	-	-			
Preferred	0.05	-	-			
Securitized	8.02	-	-			
Agency MBS Pass-Through	2.44	-	-			
Agency MBS ARM	0.00	-	-			
Agency MBS CMO	1.18	-	-			
Non-Agency Residential MBS	0.23	-	-			
Commercial MBS	0.75	-	-			
Asset-Backed	1.71	-	-			
Covered Bond	1.71	-	-			
Municipal	0.08	-	-			
Cash & Equivalents	3.66	-	-			
Other	47.15	-	-			

Top 10 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ Eur Fwd Vs Usd 0% 10/10/2019	10-2019	17.62	17.62	-
⊕ Eur Fwd Vs Usd 0% 10/10/2019	10-2019	16.88	34.51	-
⊕ Cad Fwd Vs Usd 0% 19/09/2019	09-2019	11.52	46.02	-
⊕ Cad Fwd Vs Usd 0% 19/09/2019	09-2019	11.22	57.24	-
Irs #509555 Rec Fixed 2.8240 2.824% 10/09/2020	09-2020	9.96	67.19	-
Eur Fwd Vs Usd 0% 20/09/2019	09-2019	9.91	77.10	-
Irs #509555 Rec Fixed 2.8240 2.824% 10/09/2020	09-2020	9.78	86.88	-
⊕ Jpy Fwd Vs Usd 0% 12/09/2019	09-2019	9.59	96.48	-
⊕ Jpy Fwd Vs Usd 0% 12/09/2019	09-2019	9.54	106.02	-
Eur Fwd Vs Usd 0% 20/09/2019	09-2019	9.50	115.52	-

Total Holdings 1148

⊕ Increase ⊖ Decrease ✱ New to Portfolio

American Century Inflation Adjs Bond R5 AIANX

Morningstar Category
Inflation-Protected Bond

Morningstar Index
BBgBarc US Treasury US TIPS TR USD

Portfolio Manager(s)

Robert Gahagan since 11-2001
 Brian Howell since 12-2004
 James Platz since 09-2007
 Miguel Castillo since 02-2014

Quantitative Screens

✔ **Performance:** The fund has finished in the Inflation-Protected Bond category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 17.84 years.

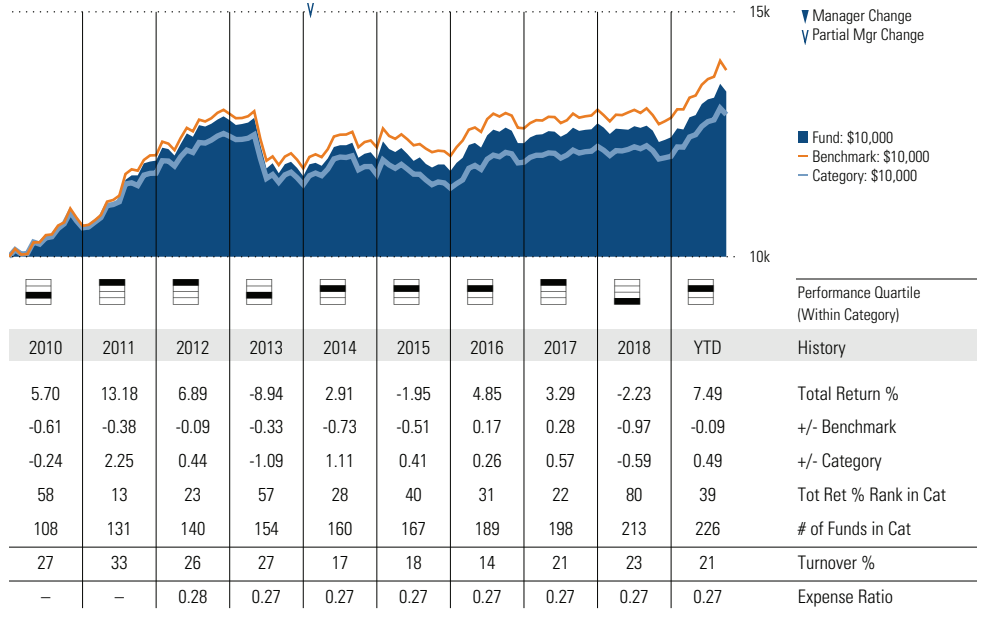
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.27 is 64% lower than the Inflation-Protected Bond category average.

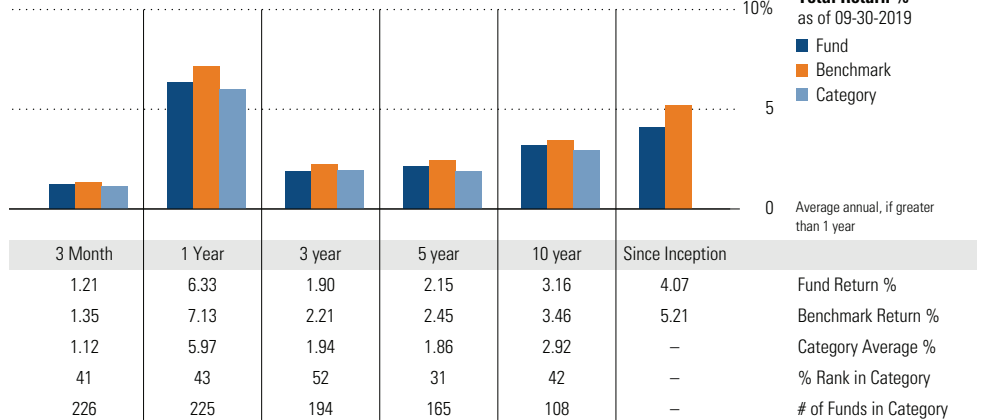
Morningstar Investment Management LLC Analysis

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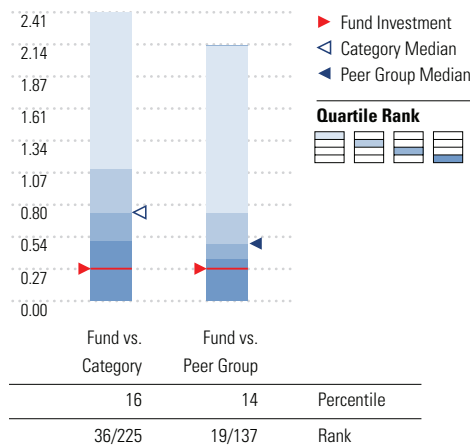
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.25	-	0.08
Beta	0.97	-	0.76
R-Squared	96.51	-	82.74
Standard Deviation	3.25	3.28	2.86
Sharpe Ratio	0.10	0.20	0.04
Tracking Error	0.61	-	1.46
Information Ratio	-0.50	-	-0.63
Up Capture Ratio	92.38	-	76.67
Down Capture Ratio	96.32	-	74.77

Portfolio Metrics

	Fund	Bmark	Cat
Avg Eff Duration	7.77	4.52	7.65
Avg Eff Maturity	8.22	-	8.87

American Century Inflation Adjs Bond R5 AIANX

Morningstar Category
Inflation-Protected Bond

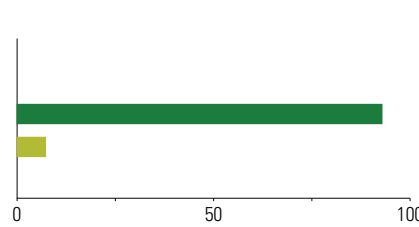
Morningstar Index
BBgBarc US Treasury US TIPS TR USD

Style Analysis as of 09-30-2019

Style Breakdown



Asset Allocation as of 09-30-2019

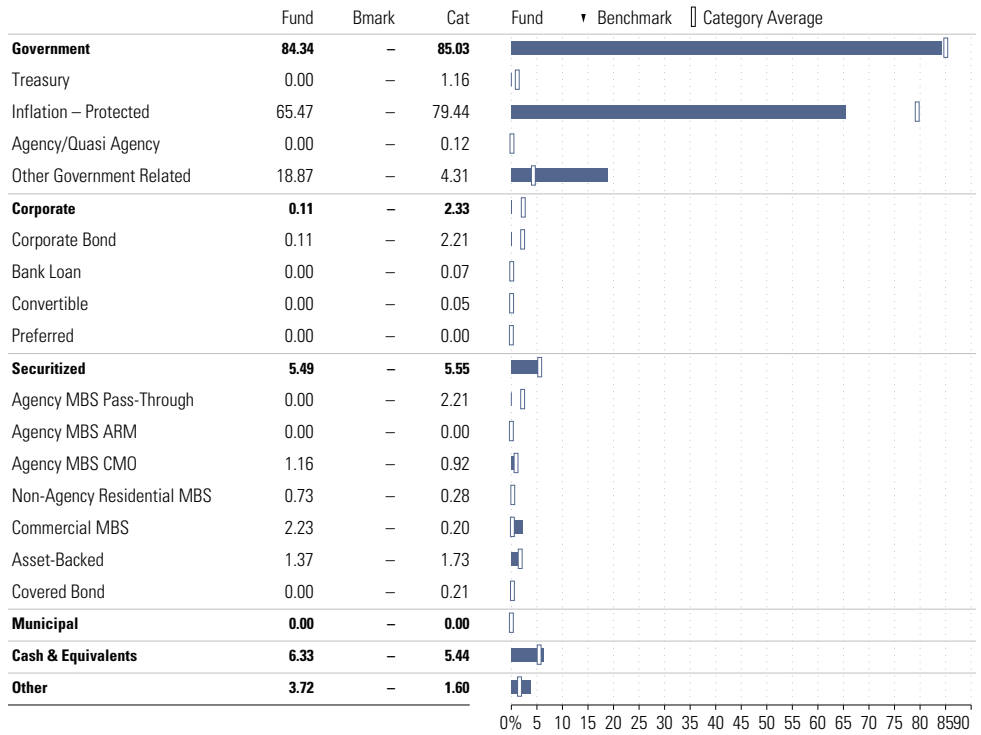


Asset Class	Net %	Cat%
US Stocks	0.00	0.01
Non-US Stocks	0.00	0.01
Bonds	92.84	97.96
Cash	7.16	1.81
Other	0.00	0.21
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	98.59	0.00	84.12
AA	1.14	99.60	10.37
A	0.63	0.00	0.00
BBB	0.05	0.00	5.26
BB	0.25	0.00	0.00
B	0.00	0.00	0.00
Below B	0.00	0.00	0.00
Not Rated	-0.66	0.40	0.25

Sector Weighting as of 09-30-2019



Top 10 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ Us 2yr Note (Cbt) Dec19 Xcvt 20191231	12-2019	13.47	13.47	-
⊕ United States Treasury Notes 0.12%	01-2023	8.23	21.69	-
⊕ United States Treasury Notes 0.12%	01-2022	5.79	27.48	-
⊖ United States Treasury Bonds 2%	01-2026	4.64	32.13	-
Bp9fdcs17 Cds Usd P F 1.00000 Cdx Ccp Ice	06-2024	4.30	36.42	-
Bp9fdcs17 Cds Usd R V 00mevent 2i65bybe4 Cdx Ccp Ice	06-2024	4.21	40.63	-
⊕ United States Treasury Notes 0.62%	01-2024	3.92	44.55	-
⊕ United States Treasury Bonds 1.38%	02-2044	3.85	48.39	-
⊖ United States Treasury Notes 0.38%	07-2023	3.35	51.74	-
⊕ United States Treasury Notes 0.62%	01-2026	3.19	54.93	-

Total Holdings 109

⊕ Increase ⊖ Decrease ✱ New to Portfolio

American Century Mid Cap Value I AVUAX

Morningstar Category

Mid-Cap Value

Morningstar Index

Russell Mid Cap Value TR USD

Portfolio Manager(s)

Phillip Davidson since 03-2004
 Michael Liss since 03-2004
 Kevin Toney since 08-2008
 Brian Woglom since 02-2012

Quantitative Screens

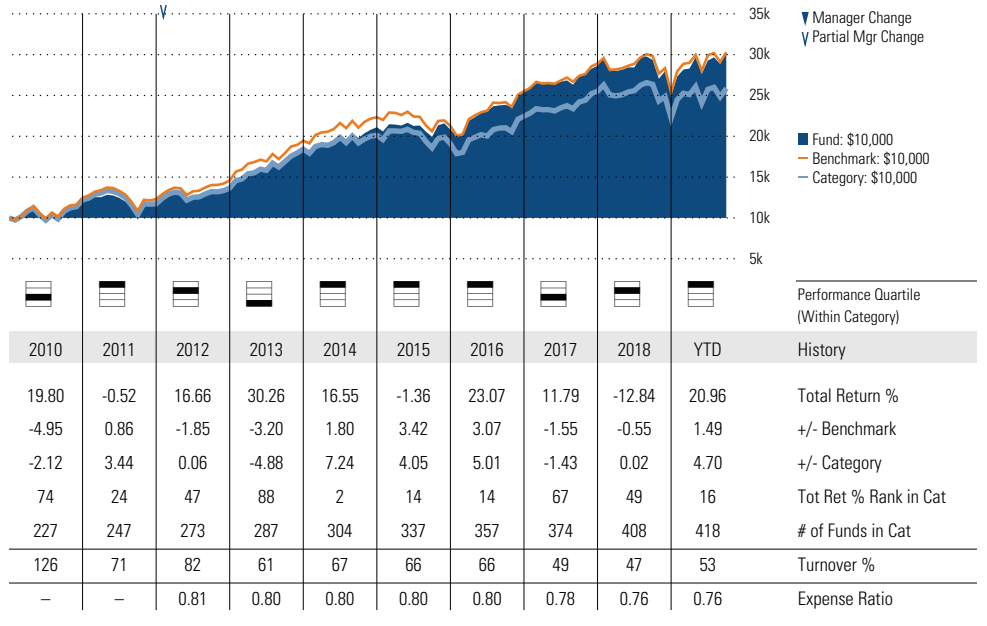
Performance: The fund has finished in the Mid-Cap Value category's top three quartiles in 9 of the 10 years it's been in existence.

Management: The fund's management has been in place for 15.51 years.

Style: The fund has landed in its primary style box — Mid-Cap Value — 100 % of the time over the past three years.

Net Expense: The fund's expense ratio of 0.76 is 27.62% lower than the Mid-Cap Value category average.

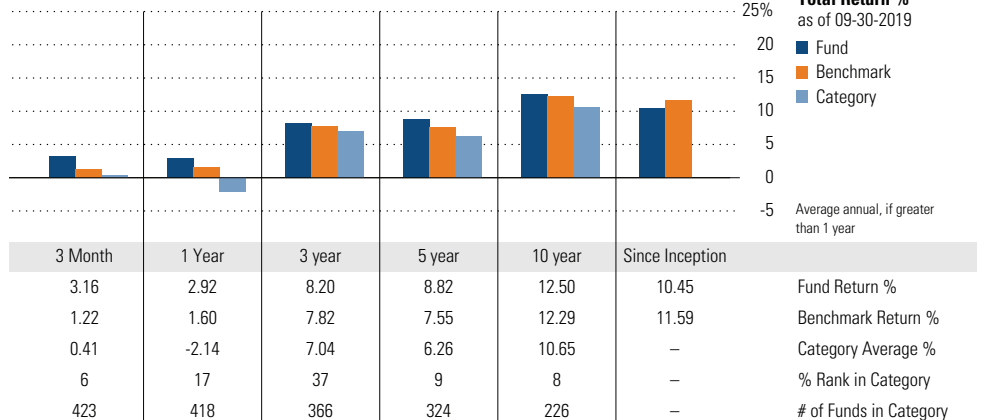
Growth of \$10,000



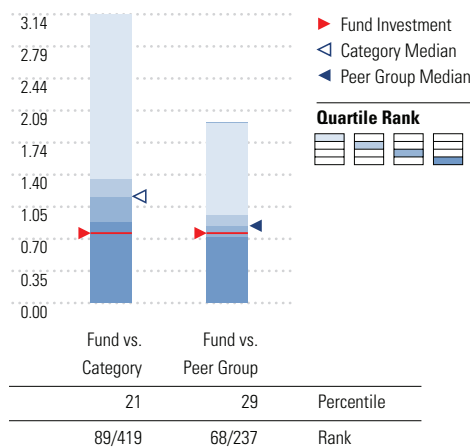
Morningstar Investment Management LLC Analysis

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Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.35	-	-1.01
Beta	1.01	-	1.07
R-Squared	96.03	-	94.09
Standard Deviation	13.75	13.39	14.85
Sharpe Ratio	0.52	0.51	0.44
Tracking Error	2.74	-	3.91
Information Ratio	0.14	-	-0.12
Up Capture Ratio	100.63	-	102.14
Down Capture Ratio	98.38	-	107.54

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	16.49	17.21	16.39
Price/Book Ratio	2.14	1.87	1.78
Geom Avg Mkt Cap \$B	15.52	12.50	10.74
ROE	15.06	11.14	12.18

American Century Mid Cap Value I AVUAX

Morningstar Category

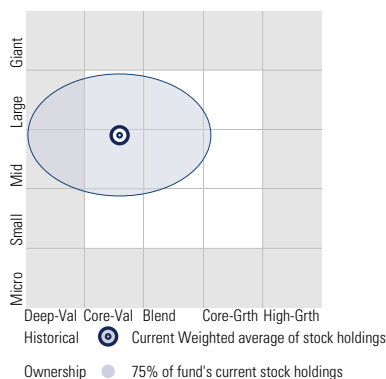
Mid-Cap Value

Morningstar Index

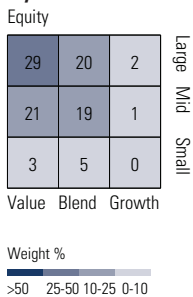
Russell Mid Cap Value TR USD

Style Analysis as of 09-30-2019

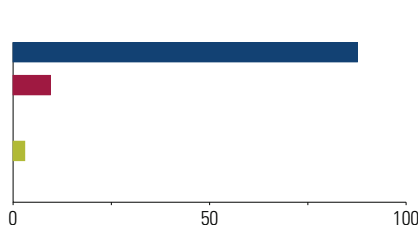
Morningstar Style Box™



Style Breakdown

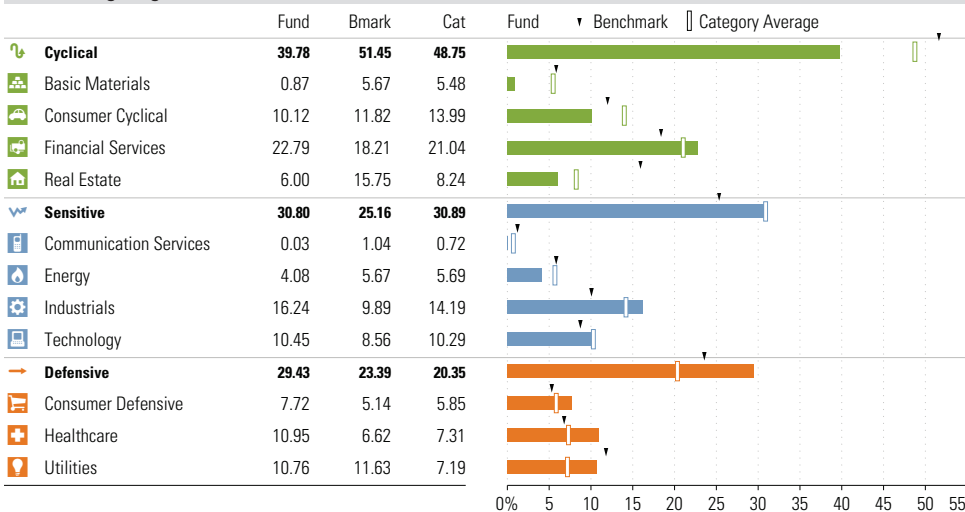


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	87.59	92.63
Non-US Stocks	9.46	4.52
Bonds	0.00	0.04
Cash	2.95	2.64
Other	0.00	0.17
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 15 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Zimmer Biomet Holdings Inc	3.10	3.10	33.04	Healthcare
⊕ Northern Trust Corp	3.05	6.15	13.91	Financial Services
⊖ iShares Russell Mid-Cap Value ETF	2.62	8.77	-	-
⊕ Federal Home Loan Banks 0.01% BB&T Corp	2.47	11.24	-	-
	2.29	13.53	26.11	Financial Services
⊖ Hubbell Inc	2.23	15.76	34.81	Technology
⊖ Xcel Energy Inc	2.05	17.81	34.17	Utilities
⊕ Emerson Electric Co	1.97	19.78	14.36	Industrials
⊖ Weyerhaeuser Co	1.93	21.70	31.38	Real Estate
⊖ Applied Materials Inc	1.66	23.36	54.31	Technology
⊕ Quest Diagnostics Inc	1.57	24.93	30.44	Healthcare
⊕ Ameriprise Financial Inc	1.55	26.48	43.66	Financial Services
⊕ MSC Industrial Direct Co Inc Class A	1.55	28.03	-3.09	Industrials
⊖ Southwest Airlines Co	1.51	29.54	17.32	Industrials
⊕ Advance Auto Parts Inc	1.43	30.97	5.16	Consumer Cyclical

Total Holdings 96

⊕ Increase ⊖ Decrease ✨ New to Portfolio

American Funds American Balanced R6 RLBGX

Morningstar Category
Allocation--50% to 70%
Equity

Morningstar Index
Morningstar Mod Tgt Risk TR USD

Portfolio Manager(s)

Hilda Applbaum since 01-1999
 Gregory Johnson since 03-2003
 Alan Berro since 03-2006
 James Mulally since 03-2006
 Jeffrey Lager since 03-2011
 Michael Kerr since 03-2014
 Paul Benjamin since 07-2014
 Alan Wilson since 01-2016
 John Queen since 07-2016
 Pramod Atluri since 03-2018

Quantitative Screens

✔ **Performance:** The fund has finished in the Allocation--50% to 70% Equity category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 20.76 years.

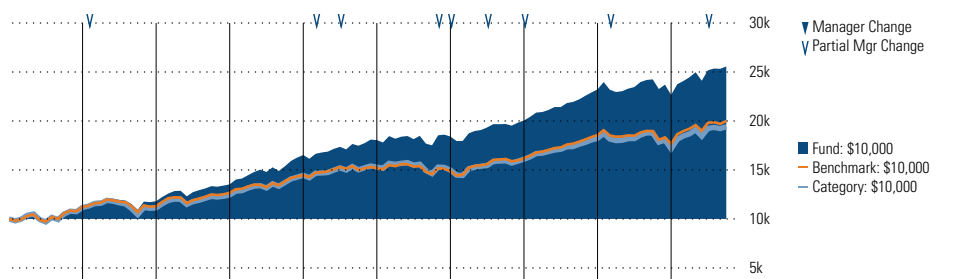
✘ **Style:** The fund has landed in its primary style box — Large Blend — 63.64 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.28 is 74.07% lower than the Allocation--50% to 70% Equity category average.

Morningstar Investment Management LLC Analysis

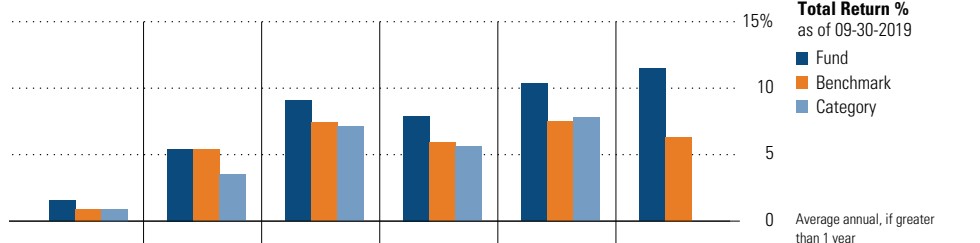
This fund fails our current style screen. However, as an allocation fund it is not expected to adhere to a strict style discipline, so the screen failure does not concern us and we are still comfortable using this fund.

Growth of \$10,000



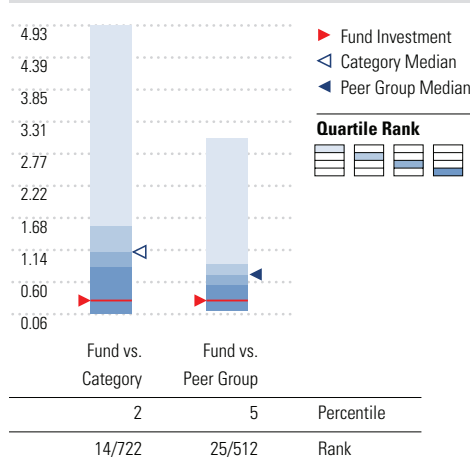
	2010	2011	2012	2013	2014	2015	2016	2017	2018	YTD	History
Performance Quartile (Within Category)	III	III	III	III	III	III	III	III	III	III	History
Total Return %	13.39	4.16	14.57	22.12	9.22	2.03	8.90	15.84	-2.42	12.80	Total Return %
+/- Benchmark	1.06	3.57	2.53	7.81	4.33	3.82	0.33	1.18	2.34	-0.31	+/- Benchmark
+/- Category	1.56	4.27	2.85	5.64	3.01	3.96	1.56	2.63	3.34	-0.62	+/- Category
Tot Ret % Rank in Cat	23	7	9	5	16	3	20	15	8	66	Tot Ret % Rank in Cat
# of Funds in Cat	434	454	481	547	561	585	641	662	706	718	# of Funds in Cat
Turnover %	37	47	54	55	68	82	79	95	72	-	Turnover %
Expense Ratio	-	-	0.30	0.29	0.29	0.29	0.29	0.28	0.28	-	Expense Ratio

Trailing Performance



	3 Month	1 Year	3 year	5 year	10 year	Since Inception	
Fund Return %	1.54	5.43	9.09	7.91	10.37	11.50	Fund Return %
Benchmark Return %	0.92	5.41	7.43	5.91	7.51	6.32	Benchmark Return %
Category Average %	0.92	3.53	7.13	5.60	7.80	-	Category Average %
% Rank in Category	23	24	13	7	5	-	% Rank in Category
# of Funds in Category	731	716	659	582	427	-	# of Funds in Category

Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	1.55	-	-0.84
Beta	1.00	-	1.07
R-Squared	95.22	-	91.79
Standard Deviation	6.98	6.80	7.65
Sharpe Ratio	1.05	0.85	0.73
Tracking Error	1.53	-	2.29
Information Ratio	1.09	-	-0.21
Up Capture Ratio	109.21	-	102.61
Down Capture Ratio	94.19	-	111.49

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	19.74	16.75	18.72
Price/Book Ratio	2.81	1.98	2.51
Avg Eff Duration	6.00	-	4.83

American Funds American Balanced R6 RLBGX

Morningstar Category
Allocation--50% to 70%

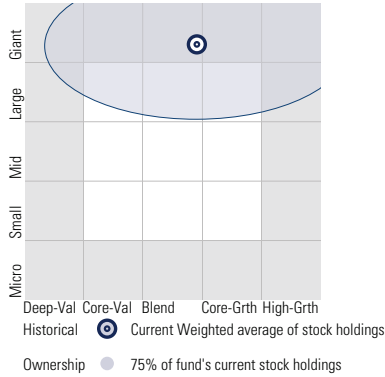
Morningstar Index

Morningstar Mod Tgt Risk TR USD

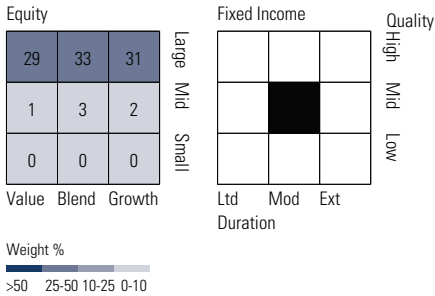
Equity

Style Analysis as of 09-30-2019

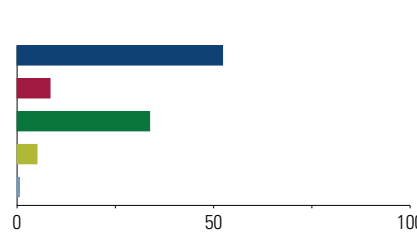
Morningstar Style Box™



Style Breakdown

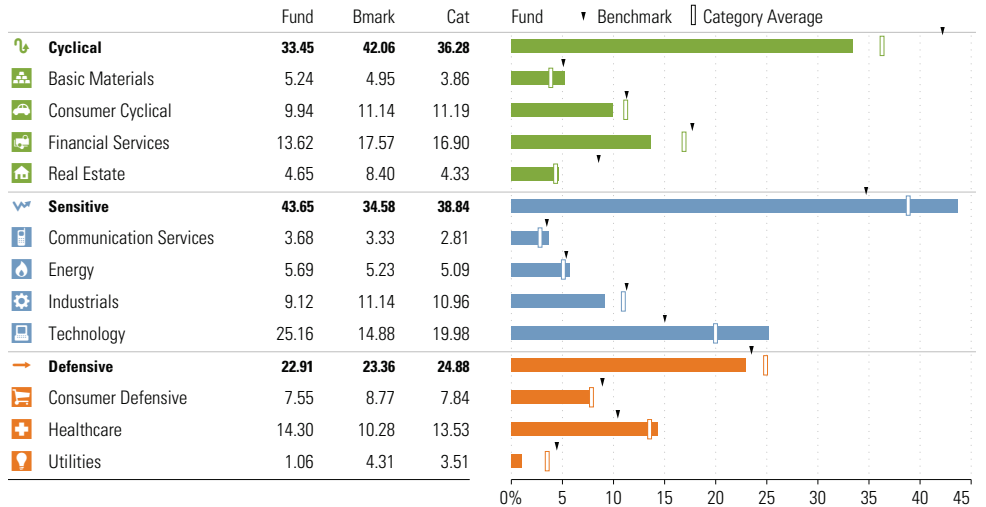


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	52.28	45.96
Non-US Stocks	8.38	12.50
Bonds	33.72	34.50
Cash	5.06	5.14
Other	0.56	1.91
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 10 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Capital Group Central Cash Fund	—	5.20	5.20	—	—
Microsoft Corp	—	4.40	9.60	38.24	Technology
The Home Depot Inc	—	2.39	11.99	37.41	Consumer Cyclical
UnitedHealth Group Inc	—	2.36	14.35	-11.54	Healthcare
Berkshire Hathaway Inc A	—	1.72	16.07	1.91	Financial Services
Taiwan Semiconductor Manufacturing Co Ltd ADR	—	1.54	17.60	30.25	Technology
Boeing Co	—	1.51	19.11	19.89	Industrials
Broadcom Inc	—	1.39	20.50	11.70	Technology
Philip Morris International Inc	—	1.37	21.87	18.90	Consumer Defensive
Intel Corp	—	1.32	23.19	11.82	Technology

Total Holdings 1731

⊕ Increase ⊖ Decrease ✱ New to Portfolio

American Funds American Mutual R6 RMFGX

Morningstar Category
 Large Value

Morningstar Index
 Russell 1000 Value TR USD

Portfolio Manager(s)

Joyce Gordon since 01-2006
 James Lovelace since 01-2006
 James Terrile since 01-2006
 Dylan Yolles since 01-2007
 William Robbins since 01-2008
 Cheryl Frank since 01-2014
 Bradley Vogt since 01-2015

Quantitative Screens

Performance: The fund has finished in the Large Value category's top three quartiles in 9 of the 10 years it's been in existence.

Management: The fund's management has been in place for 13.75 years.

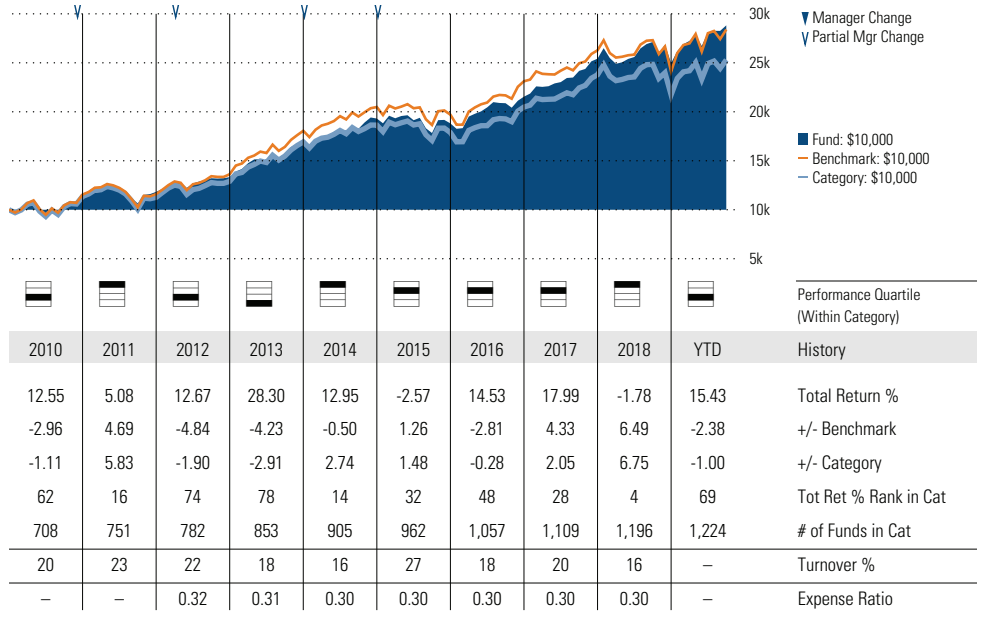
Style: The fund has landed in its primary style box — Large Value — 36.36 % of the time over the past three years.

Net Expense: The fund's expense ratio of 0.3 is 68.42% lower than the Large Value category average.

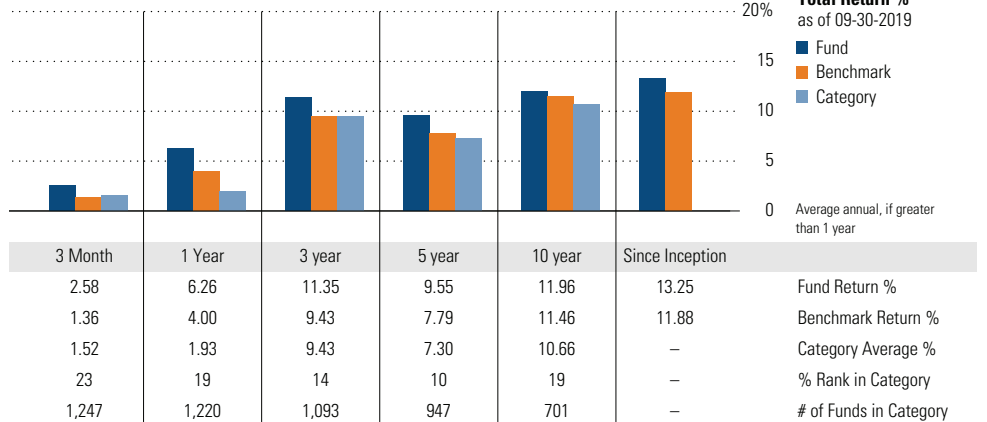
Morningstar Investment Management LLC Analysis

This fund fails the investment style screen due to edging from value into blend. However, it maintains a value-oriented strategy and we do not believe the failure is significant.

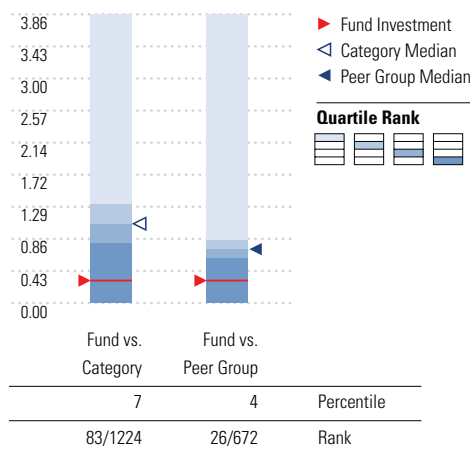
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	4.20	-	0.11
Beta	0.72	-	0.99
R-Squared	92.13	-	93.32
Standard Deviation	9.22	12.34	12.62
Sharpe Ratio	1.04	0.66	0.66
Tracking Error	4.35	-	3.38
Information Ratio	0.44	-	0.01
Up Capture Ratio	87.36	-	98.55
Down Capture Ratio	63.80	-	98.00

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	19.77	16.49	16.18
Price/Book Ratio	3.10	1.94	2.22
Geom Avg Mkt Cap \$B	95.12	58.19	107.83
ROE	26.32	14.48	20.08

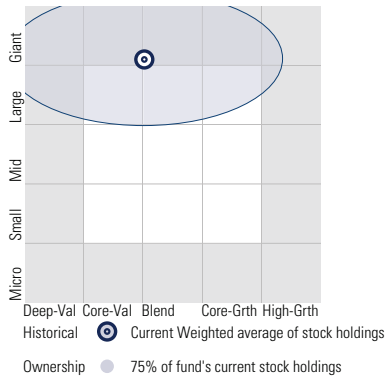
American Funds American Mutual R6 RMFGX

Morningstar Category
Large Value

Morningstar Index
Russell 1000 Value TR USD

Style Analysis as of 09-30-2019

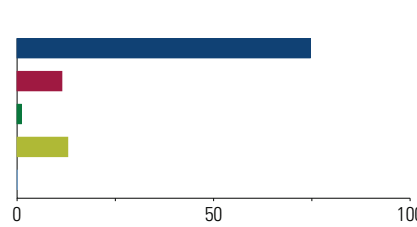
Morningstar Style Box™



Style Breakdown

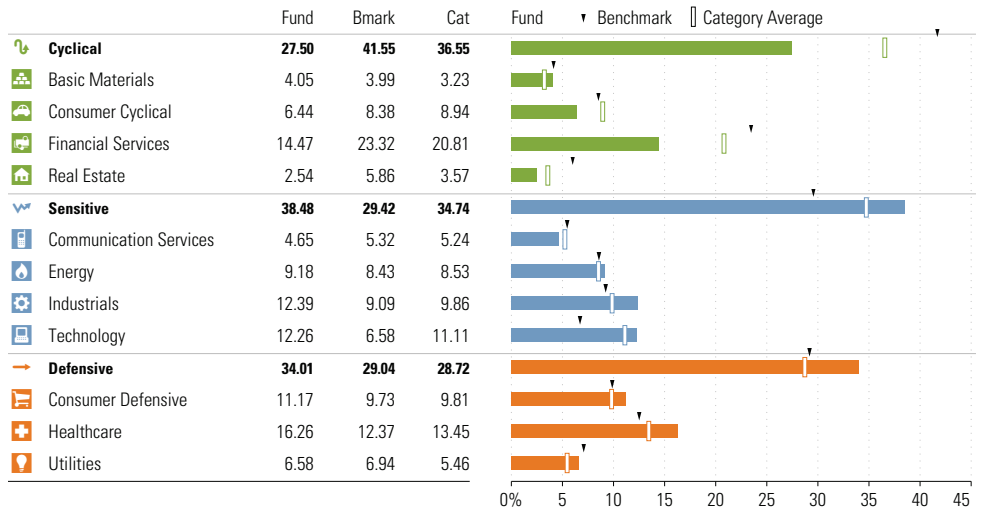


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	74.57	91.42
Non-US Stocks	11.38	5.85
Bonds	1.07	-0.15
Cash	12.88	2.28
Other	0.09	0.60
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 15 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Capital Group Central Cash Fund	12.63	12.63	-	-
⊖ Microsoft Corp	2.82	15.45	38.24	Technology
Verizon Communications Inc	2.17	17.62	10.58	Communication Svc
⊕ Amgen Inc	1.91	19.53	1.64	Healthcare
⊕ Abbott Laboratories	1.83	21.36	17.01	Healthcare
⊕ Procter & Gamble Co	1.77	23.13	37.72	Consumer Defensive
⊕ Gilead Sciences Inc	1.68	24.81	4.35	Healthcare
JPMorgan Chase & Co	1.66	26.47	23.02	Financial Services
Coca-Cola Co	1.62	28.09	17.51	Consumer Defensive
The Home Depot Inc	1.57	29.66	37.41	Consumer Cyclical
⊖ AbbVie Inc	1.49	31.15	-14.38	Healthcare
Linde PLC	1.47	32.62	25.83	Basic Materials
Lockheed Martin Corp	1.45	34.07	51.49	Industrials
⊖ American Electric Power Co Inc	1.45	35.51	28.04	Utilities
⊕ UnitedHealth Group Inc	1.41	36.92	-11.54	Healthcare

Total Holdings 170

⊕ Increase ⊖ Decrease ✨ New to Portfolio

American Funds New Perspective R6 RNPGX

Morningstar Category
World Large Stock

Morningstar Index
MSCI ACWI Ex USA NR USD

Portfolio Manager(s)

Robert Lovelace since 12-2000
Jonathan Knowles since 12-2004
Jody Jonsson since 12-2005
Steven Watson since 12-2005
Brady Enright since 12-2005
Noriko Chen since 04-2012
Andraz Razen since 07-2015

Quantitative Screens

✔ **Performance:** The fund has finished in the World Large Stock category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 18.84 years.

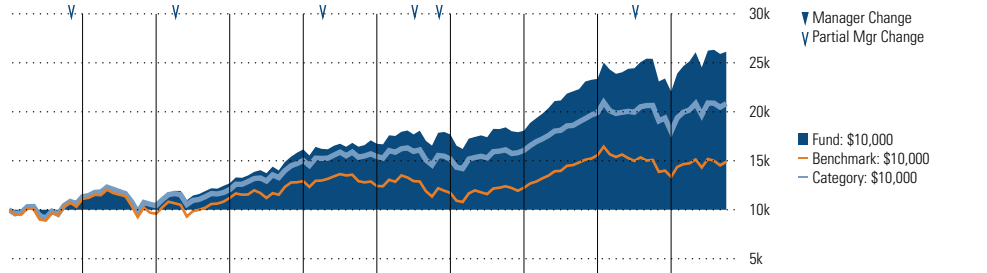
✔ **Style:** The fund has landed in its primary style box — Large Growth — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.44 is 60.71% lower than the World Large Stock category average.

Morningstar Investment Management LLC Analysis

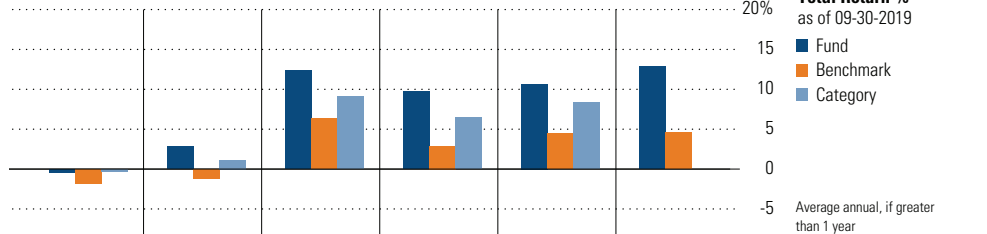
This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

Growth of \$10,000



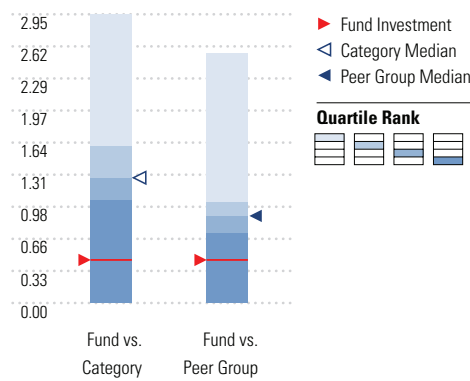
2010	2011	2012	2013	2014	2015	2016	2017	2018	YTD	History
13.11	-7.33	21.19	27.23	3.56	5.63	2.19	29.30	-5.56	18.45	Total Return %
1.96	6.38	4.36	11.94	7.43	11.29	-2.31	2.11	8.64	6.89	+/- Benchmark
-0.63	0.60	5.35	2.04	0.77	7.32	-3.35	5.69	4.08	2.31	+/- Category
46	43	14	38	40	6	77	16	18	27	Tot Ret % Rank in Cat
383	405	438	513	575	626	681	743	835	896	# of Funds in Cat
24	24	16	30	25	27	22	28	23	-	Turnover %
-	-	0.46	0.45	0.45	0.45	0.45	0.45	0.44	-	Expense Ratio

Trailing Performance



3 Month	1 Year	3 year	5 year	10 year	Since Inception	
-0.42	2.88	12.38	9.72	10.67	12.86	Fund Return %
-1.80	-1.23	6.33	2.90	4.45	4.60	Benchmark Return %
-0.30	1.14	9.10	6.49	8.38	-	Category Average %
59	36	14	11	9	-	% Rank in Category
924	870	733	604	375	-	# of Funds in Category

Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	5.87	-	3.15
Beta	0.97	-	0.92
R-Squared	85.19	-	79.32
Standard Deviation	11.98	11.45	11.84
Sharpe Ratio	0.90	0.45	0.66
Tracking Error	4.63	-	5.63
Information Ratio	1.31	-	0.49
Up Capture Ratio	106.85	-	96.71
Down Capture Ratio	68.45	-	76.45

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	23.03	14.87	19.09
Price/Book Ratio	3.38	1.57	2.39
Geom Avg Mkt Cap \$B	75.23	33.84	72.37
ROE	22.40	16.14	21.82

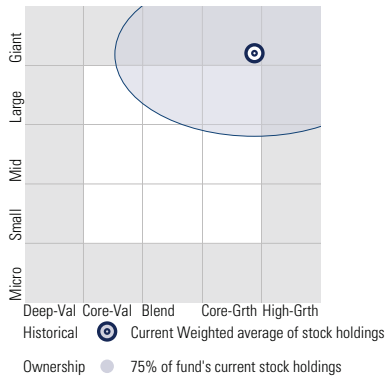
American Funds New Perspective R6 RNPGX

Morningstar Category
World Large Stock

Morningstar Index
MSCI ACWI Ex USA NR USD

Style Analysis as of 09-30-2019

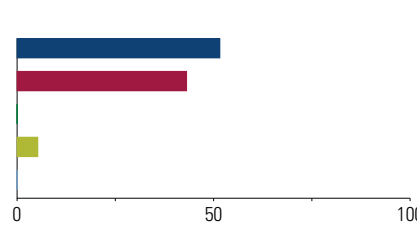
Morningstar Style Box™



Style Breakdown

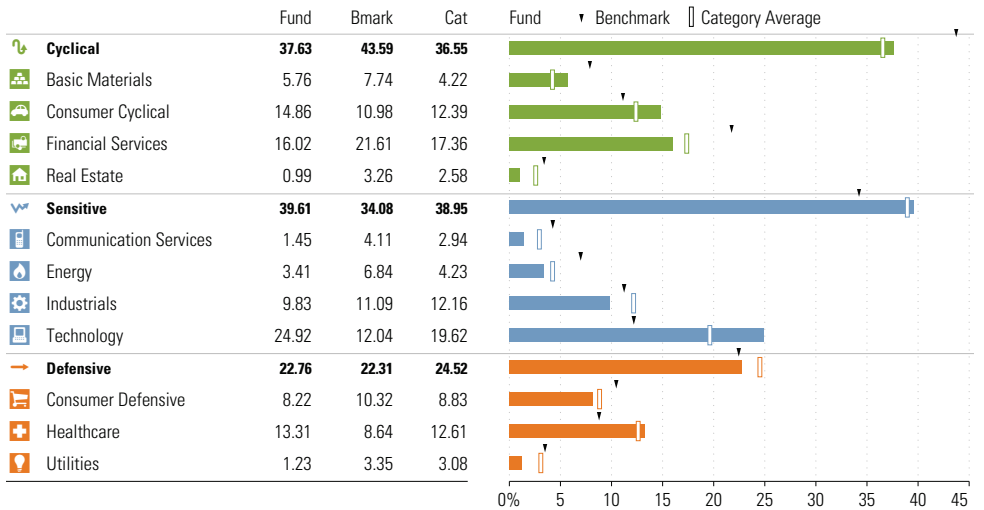


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	51.58	54.02
Non-US Stocks	43.12	42.60
Bonds	0.01	0.26
Cash	5.26	2.39
Other	0.02	0.73
Total	100.00	100.00

Sector Weighting as of 09-30-2019



World Regions % Equity 09-30-2019



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	13.72	15.65	Americas	57.63	59.15	Greater Europe	28.67	25.20	Developed Markets	94.98
Japan	5.75	5.80	North America	55.81	58.18	United Kingdom	5.42	6.77	Emerging Markets	5.02
Australasia	0.16	1.03	Central/Latin	1.82	0.97	W euro-ex UK	21.83	17.64	Not Available	0.00
Asia-4 Tigers	5.92	3.59				Emrgng Europe	0.42	0.29		
Asia-ex 4 Tigers	1.89	5.23				Africa	1.00	0.50		
Not Classified	0.00	0.00								

Top 10 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Capital Group Central Cash Fund	5.31	5.31	-	-
Amazon.com Inc	3.45	8.76	15.58	Consumer Cyclical
Facebook Inc A	2.72	11.48	35.85	Technology
Microsoft Corp	2.64	14.12	38.24	Technology
Mastercard Inc A	2.04	16.17	44.48	Financial Services
Taiwan Semiconductor Manufacturing Co Ltd	2.01	18.18	25.06	Technology
JPMorgan Chase & Co	1.70	19.88	23.02	Financial Services
Broadcom Inc	1.63	21.51	11.70	Technology
Visa Inc Class A	1.53	23.03	30.94	Financial Services
CME Group Inc Class A	1.52	24.55	13.54	Financial Services

Total Holdings 298

⊕ Increase ⊖ Decrease ✱ New to Portfolio

American Funds New World R6 RNWGX

Morningstar Category
Diversified Emerging Mkts

Morningstar Index
MSCI EM NR USD

Portfolio Manager(s)

- Robert Lovelace since 06-1999
- Carl Kawaja since 06-1999
- Wahid Butt since 01-2008
- Nicholas Grace since 01-2008
- Christopher Thomsen since 01-2009
- Winnie Kwan since 01-2009
- Tomonori Tani since 10-2013
- Jonathan Knowles since 01-2016
- Bradford Freer since 01-2017
- Steven Backes since 01-2019
- Lisa Thompson since 10-2019

Quantitative Screens

Performance: The fund has finished in the Diversified Emerging Mkts category's top three quartiles in 10 of the 10 years it's been in existence.

Management: The fund's management has been in place for 20.3 years.

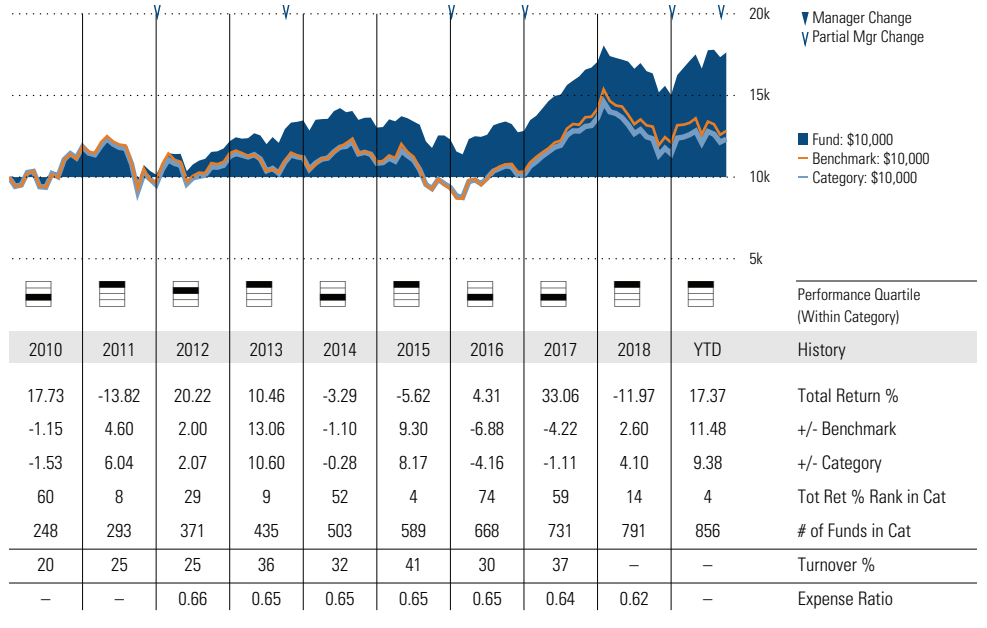
Style: The fund has landed in its primary style box — Large Growth — 100 % of the time over the past three years.

Net Expense: The fund's expense ratio of 0.62 is 51.94% lower than the Diversified Emerging Mkts category average.

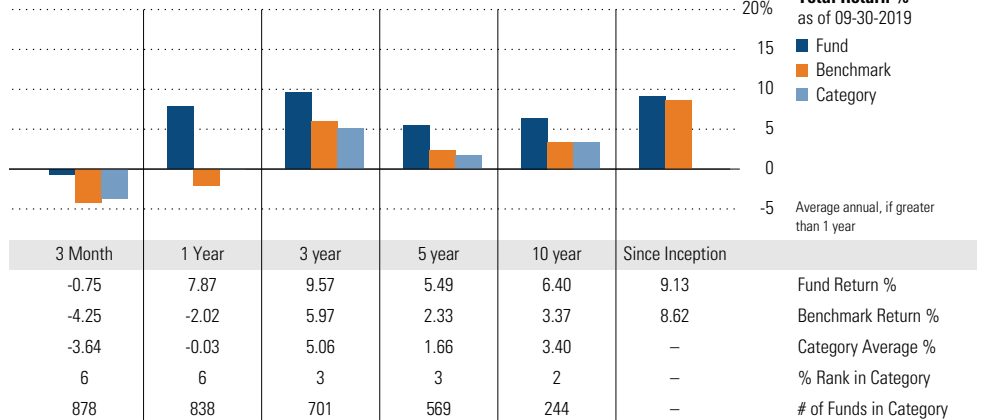
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

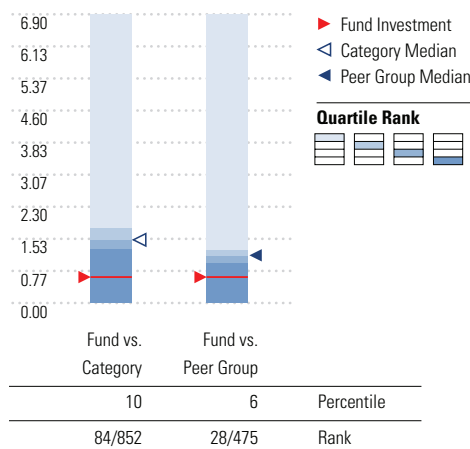
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	4.54	-	-0.25
Beta	0.78	-	0.92
R-Squared	90.71	-	87.64
Standard Deviation	11.47	14.04	13.77
Sharpe Ratio	0.71	0.37	0.31
Tracking Error	4.68	-	4.83
Information Ratio	0.77	-	-0.18
Up Capture Ratio	90.90	-	92.55
Down Capture Ratio	67.68	-	94.88

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	19.76	12.83	13.52
Price/Book Ratio	2.61	1.54	1.92
Geom Avg Mkt Cap \$B	42.15	29.91	32.68
ROE	20.04	16.19	18.42

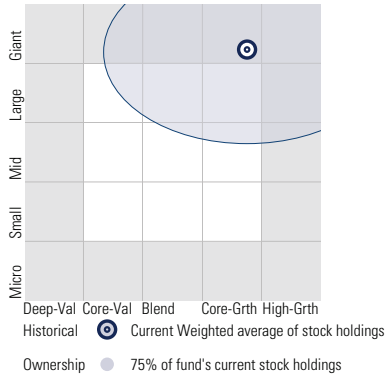
American Funds New World R6 RNWGX

Morningstar Category
Diversified Emerging Mkts

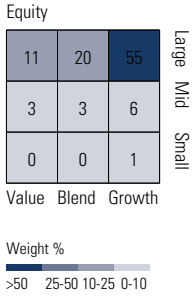
Morningstar Index
MSCI EM NR USD

Style Analysis as of 09-30-2019

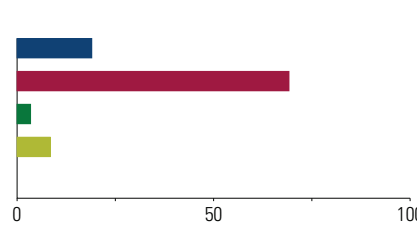
Morningstar Style Box™



Style Breakdown

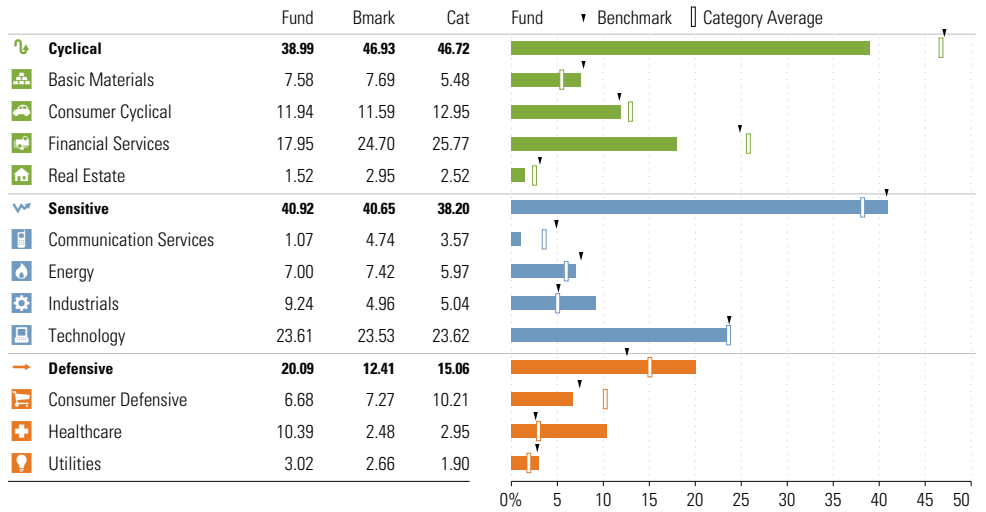


Asset Allocation as of 09-30-2019

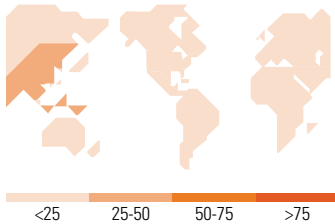


Asset Class	Net %	Cat%
US Stocks	18.99	2.32
Non-US Stocks	69.17	95.27
Bonds	3.42	0.46
Cash	8.41	1.63
Other	0.00	0.31
Total	100.00	100.00

Sector Weighting as of 09-30-2019



World Regions % Equity 09-30-2019



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	41.80	68.54	Americas	34.62	15.61	Greater Europe	23.57	15.84	Developed Markets	57.37
Japan	5.60	0.11	North America	23.07	1.60	United Kingdom	4.13	0.91	Emerging Markets	42.63
Australasia	1.02	0.01	Central/Latin	11.55	14.01	W euro-ex UK	14.72	2.13	Not Available	0.00
Asia-4 Tigers	8.60	22.46				Emrgng Europe	2.35	6.36		
Asia-ex 4 Tigers	26.58	45.96				Africa	2.37	6.44		
Not Classified	0.00	0.00								

Top 10 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Capital Group Central Cash Fund	7.55	7.55	—	—
⊕ Kotak Mahindra Bank Ltd	1.91	9.46	30.94	Financial Services
⊕ Reliance Industries Ltd	1.88	11.34	19.40	Energy
Taiwan Semiconductor Manufacturing Co Ltd	1.77	13.11	25.06	Technology
⊕ Microsoft Corp	1.76	14.88	38.24	Technology
⊖ Alibaba Group Holding Ltd ADR	1.60	16.48	22.00	Consumer Cyclical
⊕ AIA Group Ltd	1.54	18.03	15.89	Financial Services
⊖ HDFC Bank Ltd	1.44	19.47	16.65	Financial Services
⊖ Tencent Holdings Ltd	1.32	20.78	5.48	Technology
⊖ Mastercard Inc A	1.29	22.07	44.48	Financial Services

Total Holdings 522

⊕ Increase ⊖ Decrease ✱ New to Portfolio

BlackRock High Yield Bond Instl BHYIX

Morningstar Category
High Yield Bond

Morningstar Index
ICE BofAML US High Yield TR USD

Portfolio Manager(s)

James Keenan since 12-2007
Mitchell Garfin since 05-2009
Derek Schoenhofen since 05-2009
David Delbos since 03-2014

Quantitative Screens

✔ **Performance:** The fund has finished in the High Yield Bond category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 11.76 years.

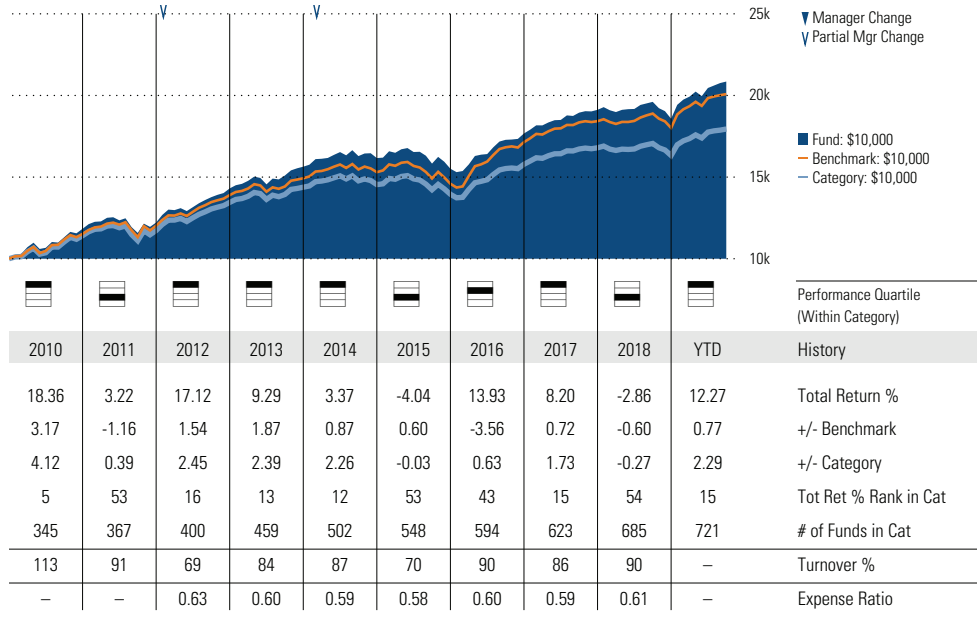
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.61 is 38.38% lower than the High Yield Bond category average.

Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

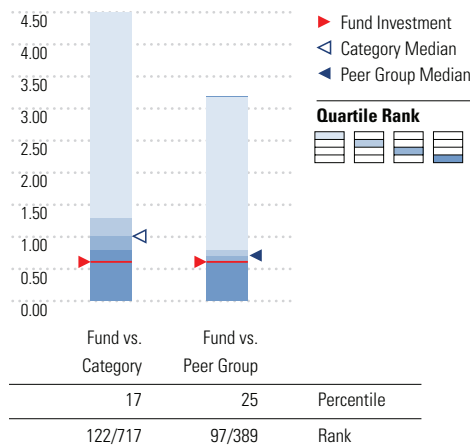
Growth of \$10,000



Trailing Performance



Net Expense



3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.27	-	-0.35
Beta	1.02	-	0.90
R-Squared	97.44	-	90.23
Standard Deviation	4.33	4.21	4.02
Sharpe Ratio	1.09	1.04	0.88
Tracking Error	0.70	-	1.37
Information Ratio	0.56	-	-0.89
Up Capture Ratio	102.92	-	86.99
Down Capture Ratio	96.09	-	93.08

Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	3.11	-	2.83
Avg Eff Maturity	6.93	-	4.65

Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

BlackRock High Yield Bond Instl BHYIX

Morningstar Category
High Yield Bond

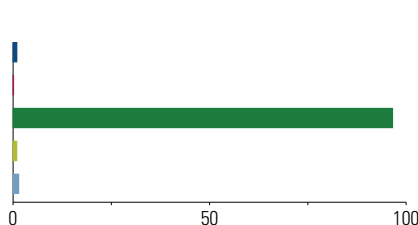
Morningstar Index
ICE BofAML US High Yield TR USD

Style Analysis as of 09-30-2019

Style Breakdown



Asset Allocation as of 09-30-2019

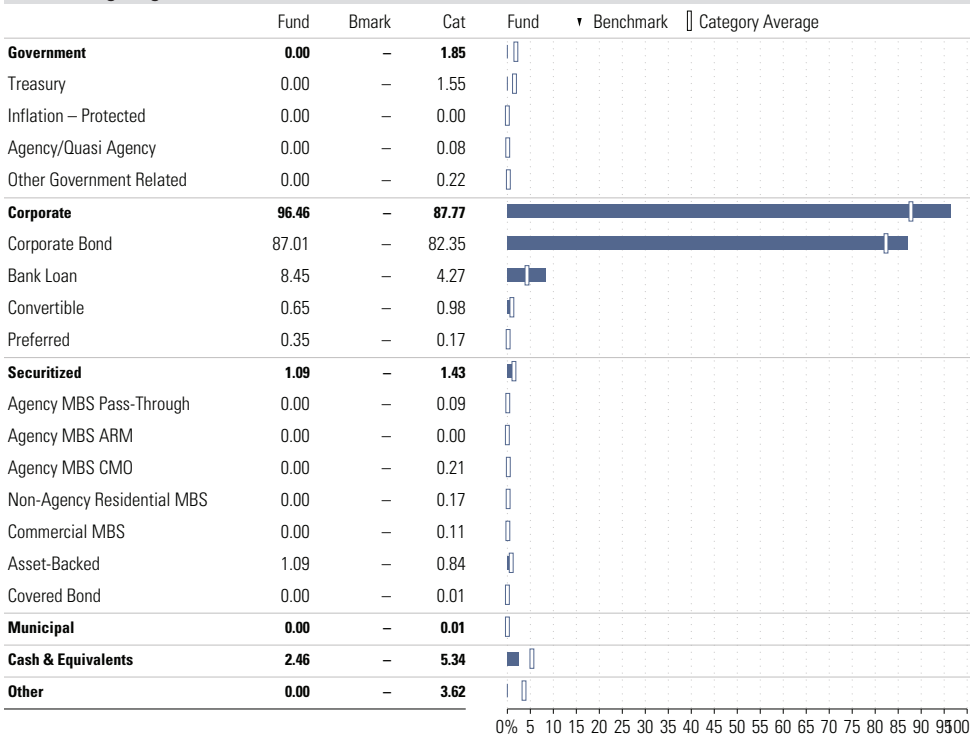


Asset Class	Net %	Cat%
US Stocks	0.95	0.70
Non-US Stocks	0.13	0.05
Bonds	96.56	94.03
Cash	0.93	3.62
Other	1.42	1.60
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	0.93	-	3.36
AA	0.07	-	0.27
A	0.39	-	1.63
BBB	4.29	-	4.66
BB	34.24	-	29.89
B	44.08	-	40.54
Below B	15.56	-	18.23
Not Rated	0.45	-	1.42

Sector Weighting as of 09-30-2019



Top 10 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ BlackRock Liquidity T-Fund Instl	-	2.20	2.20	-
⊕ TransDigm, Inc. 6.25%	03-2026	1.92	4.12	-
⊖ Usd Cash(Committed)	-	1.50	5.62	-
⊕ Ally Financial Inc. 8%	11-2031	0.96	6.58	-
⊖ iShares iBoxx \$ High Yield Corp Bd ETF	-	0.90	7.48	-
⊕ SPDR® Blmbg Barclays High Yield Bd ETF	-	0.81	8.29	-
⊕ Infor (US), Inc. 6.5%	05-2022	0.69	8.98	-
Solera, LLC / Solera Finance, Inc. 10.5%	03-2024	0.66	9.64	-
⊕ Frontier Communications Corporation 8%	04-2027	0.57	10.21	-
Bombardier Inc. 7.88%	04-2027	0.56	10.77	-

Total Holdings 1287

⊕ Increase ⊖ Decrease ✱ New to Portfolio

Invesco Balanced-Risk Commodity Strat R6 IBRFX

Morningstar Category
Commodities Broad Basket

Morningstar Index
Bloomberg Commodity TR USD

Portfolio Manager(s)

Chris Devine since 11-2010
 Scott Hixon since 11-2010
 Mark Ahnrud since 11-2010
 Christian Ulrich since 11-2010
 Scott Wolle since 11-2010

Quantitative Screens

✔ **Performance:** The fund has finished in the Commodities Broad Basket category's top three quartiles in 5 of the 7 years it's been in existence.

✔ **Management:** The fund's management has been in place for 8.84 years.

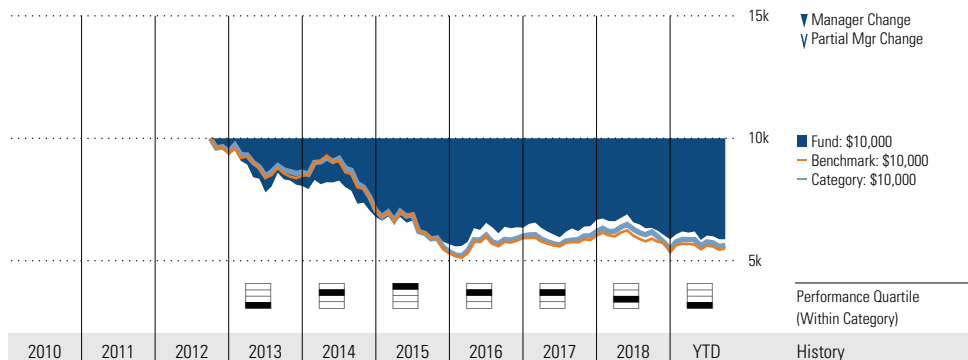
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 1.01 is 13.68% lower than the Commodities Broad Basket category average.

Morningstar Investment Management LLC Analysis

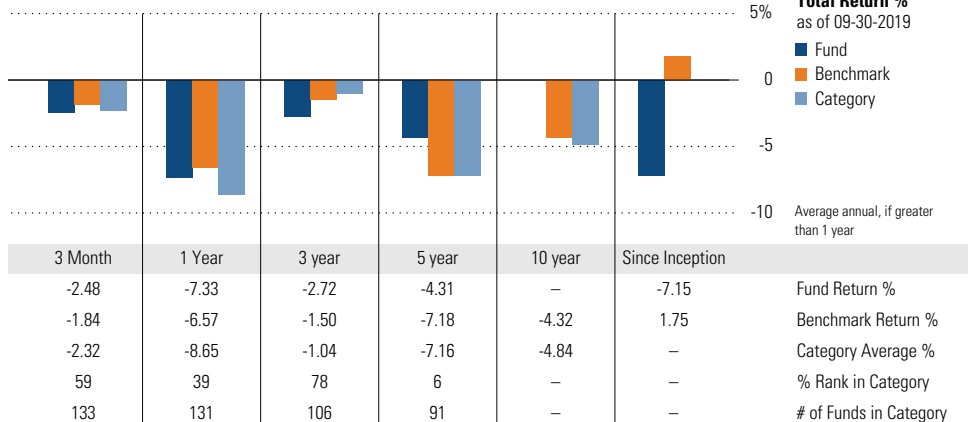
This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

Growth of \$10,000

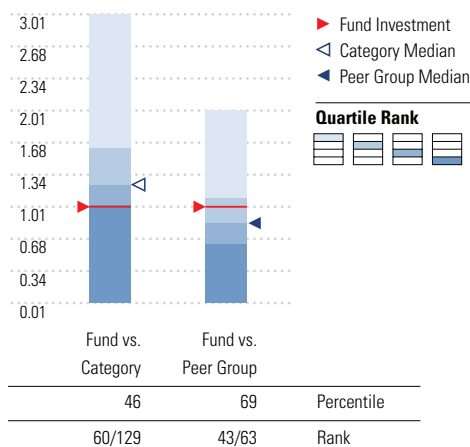


2010	2011	2012	2013	2014	2015	2016	2017	2018	YTD	History
-	-	-	-13.81	-15.77	-16.44	12.02	5.04	-11.87	0.00	Total Return %
-	-	-	-4.29	1.24	8.22	0.25	3.34	-0.62	-3.13	+/- Benchmark
-	-	-	-5.08	2.21	7.55	-0.14	1.38	-0.35	-2.90	+/- Category
-	-	-	81	27	7	49	31	52	86	Tot Ret % Rank in Cat
-	-	-	83	87	97	104	107	116	132	# of Funds in Cat
-	-	152	47	21	17	98	10	96	-	Turnover %
-	-	0.97	0.97	0.99	1.05	1.13	1.08	1.01	-	Expense Ratio

Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-1.38	-	0.71
Beta	0.86	-	1.04
R-Squared	67.82	-	74.99
Standard Deviation	8.28	7.94	9.86
Sharpe Ratio	-0.48	-0.35	-0.27
Tracking Error	4.83	-	5.07
Information Ratio	-0.25	-	-0.10
Up Capture Ratio	102.42	-	116.78
Down Capture Ratio	113.02	-	110.03

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	-	-	11.29
Price/Book Ratio	-	-	1.41
Geom Avg Mkt Cap \$B	-	-	23.90
ROE	-	-	20.51

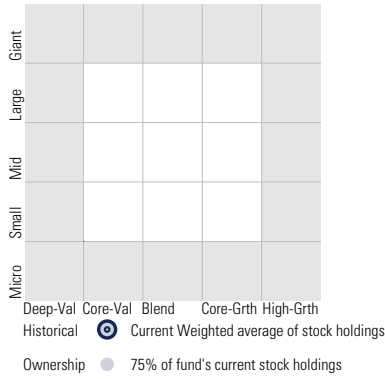
Invesco Balanced-Risk Commodity Strat R6 IBRFX

Morningstar Category
Commodities Broad Basket

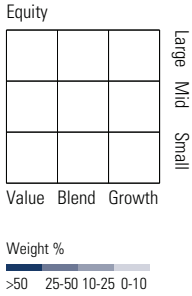
Morningstar Index
Bloomberg Commodity TR USD

Style Analysis as of 09-30-2019

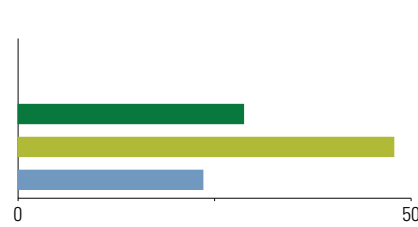
Morningstar Style Box™



Style Breakdown

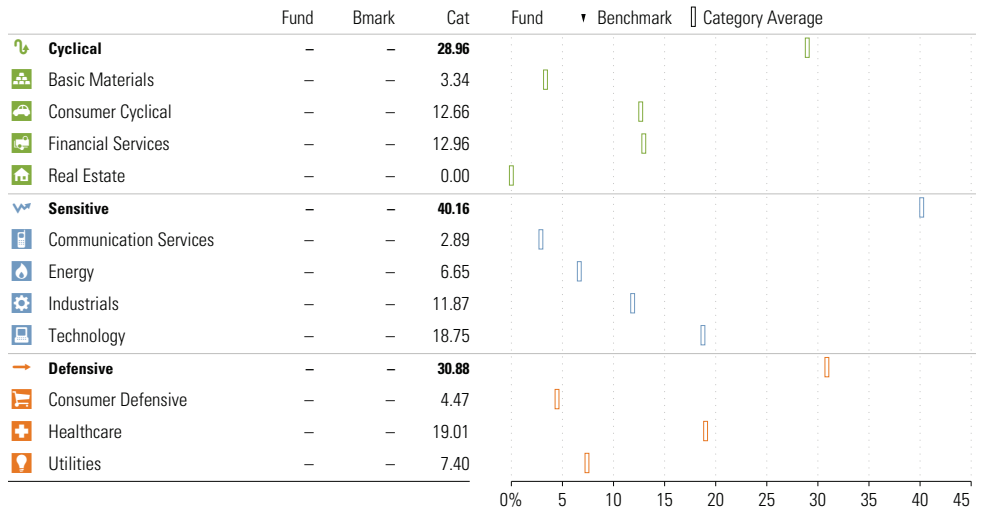


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	0.00	3.15
Non-US Stocks	0.00	1.88
Bonds	28.69	16.03
Cash	47.80	63.84
Other	23.51	15.11
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 13 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Invesco Cayman Commodity Fund Iii Hf	23.51	23.51	-	-
⊖ Invesco Shrt-Trm Inv Treasury Instl	18.93	42.43	-	-
⊖ Invesco Shrt-Trm Inv Gov&Agcy Instl	16.56	58.99	-	-
⊖ Invesco Shrt-Trm Inv Liq Assets Instl	11.83	70.82	-	-
⊕ United States Treasury Bills 0%	5.14	75.96	-	-
United States Treasury Notes 2.09%	5.11	81.07	-	-
⊕ United States Treasury Bills 0%	4.90	85.97	-	-
United States Treasury Notes 2.08%	4.42	90.39	-	-
United States Treasury Notes 2.05%	4.34	94.73	-	-
Barclays Bank plc 0.01%	2.11	96.84	-	-
International Bank for Reconstruction and Development 1.57%	1.75	98.60	-	-
Barclays Bk 0.1%	0.92	99.51	-	-
⊕ Usd Currency Cash	0.49	100.00	-	-

Total Holdings 13

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Invesco Oppenheimer International Gr Y OIGYX

Morningstar Category
Foreign Large Growth

Morningstar Index
MSCI EAFE NR USD

Portfolio Manager(s)

George Evans since 03-1996

Robert Dunphy since 03-2012

Quantitative Screens

✗ **Performance:** The fund has finished in the Foreign Large Growth category's top three quartiles in 6 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 23.53 years.

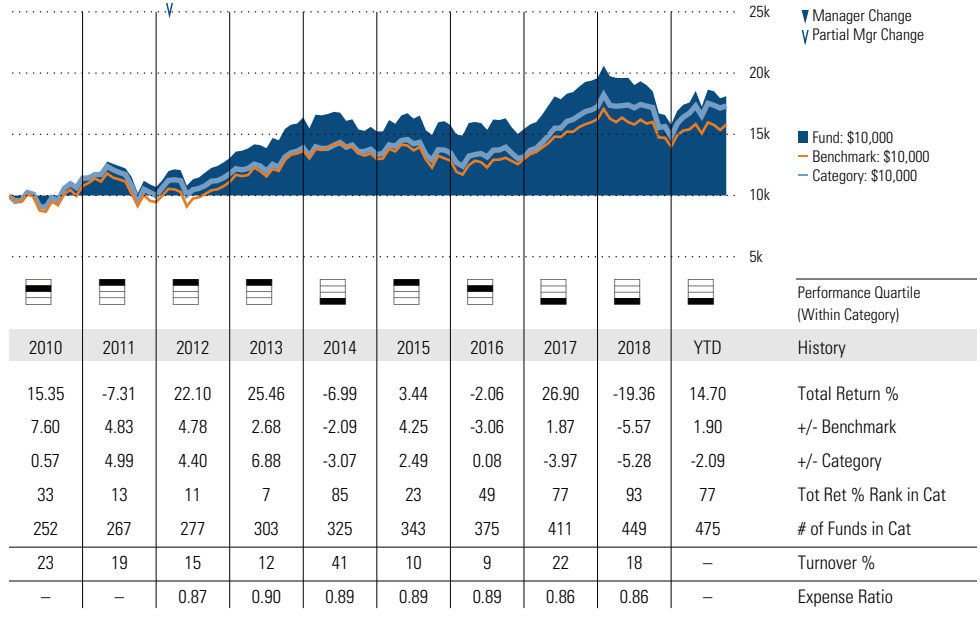
✔ **Style:** The fund has landed in its primary style box — Large Growth — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.86 is 23.89% lower than the Foreign Large Growth category average.

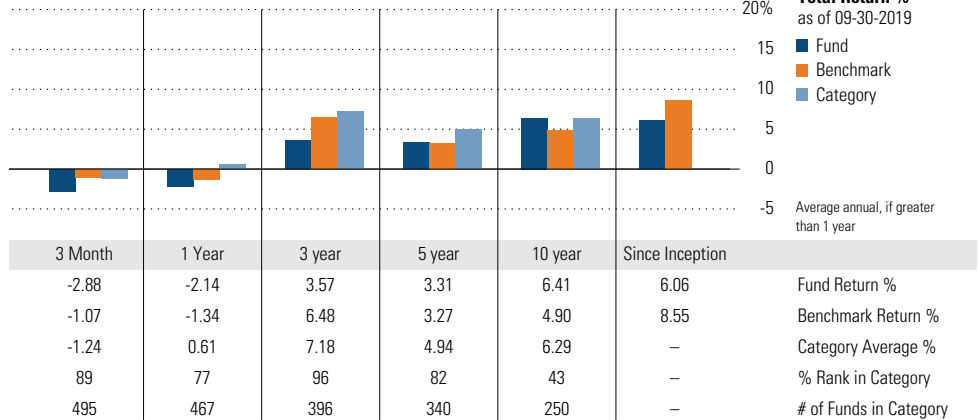
Morningstar Investment Management LLC Analysis

We are placing Invesco Oppenheimer International Growth on watch for performance. This fund has struggled recently, most notably in 2018 when it fell further than its category peers and benchmark index. In the first half of 2019, the fund outpaced its prospectus benchmark and kept pace with its peers in the Foreign Large Growth Morningstar Category, but it could take some time for this fund to regain its standings in the category. There's reason for hope, as manager George Evans has led the effort here for over twenty years and long-term results are still competitive. We'll be watching for better relative performance in the coming quarters.

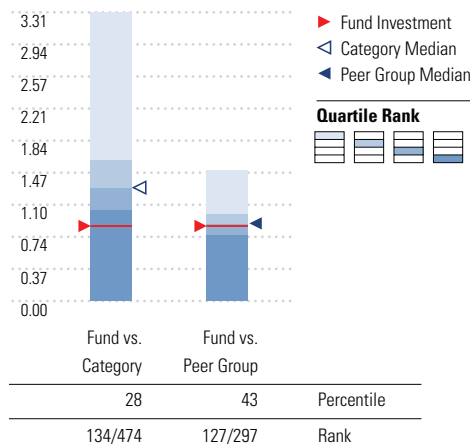
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-3.35	-	0.58
Beta	1.12	-	1.03
R-Squared	87.75	-	-
Standard Deviation	13.24	11.07	12.56
Sharpe Ratio	0.21	0.48	0.46
Tracking Error	4.82	-	5.20
Information Ratio	-0.60	-	0.11
Up Capture Ratio	97.36	-	98.91
Down Capture Ratio	117.49	-	93.55

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	24.91	15.97	22.11
Price/Book Ratio	3.42	1.56	3.08
Geom Avg Mkt Cap \$B	25.59	35.74	39.99
ROE	18.47	16.29	20.08

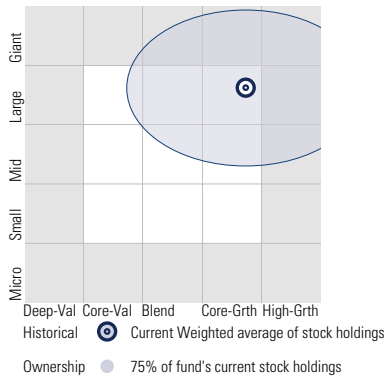
Invesco Oppenheimer International Gr Y OIGYX

Morningstar Category
Foreign Large Growth

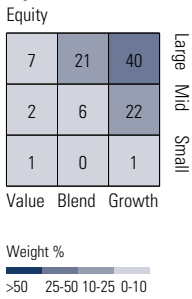
Morningstar Index
MSCI EAFE NR USD

Style Analysis as of 09-30-2019

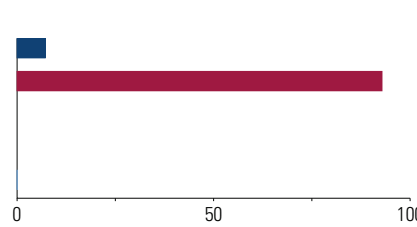
Morningstar Style Box™



Style Breakdown

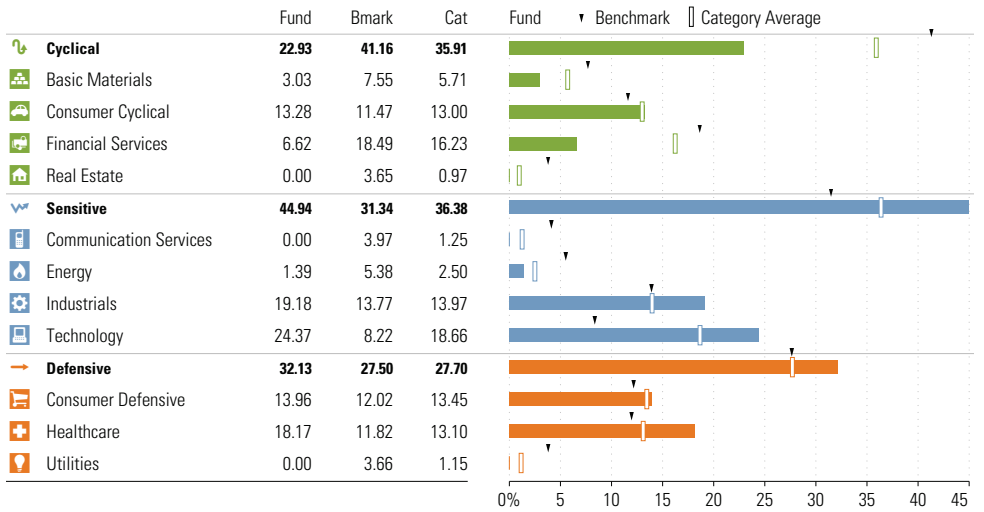


Asset Allocation as of 09-30-2019

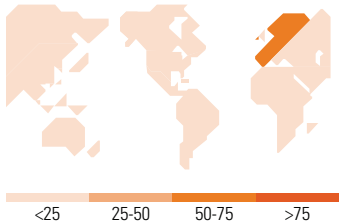


Asset Class	Net %	Cat%
US Stocks	7.15	8.20
Non-US Stocks	92.84	88.19
Bonds	0.00	0.04
Cash	0.00	3.31
Other	0.01	0.27
Total	100.00	100.00

Sector Weighting as of 09-30-2019



World Regions % Equity 09-30-2019



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %
Greater Asia	24.22	30.83	Americas	13.11	15.21	Greater Europe	62.67	53.95	Market Maturity	Fund %
Japan	12.48	13.01	North America	13.11	13.02	United Kingdom	6.90	12.58	Developed Markets	94.26
Australasia	4.42	2.16	Central/Latin	0.00	2.19	W euro-ex UK	54.38	40.14	Emerging Markets	5.74
Asia-4 Tigers	2.97	6.39				Emrgng Europe	1.39	0.38	Not Available	0.00
Asia-ex 4 Tigers	4.35	9.27				Africa	0.00	0.85		
Not Classified	0.00	0.00								

Top 10 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
ASML Holding NV	2.98	2.98	67.21	Technology
Hitachi Ltd	2.70	5.67	38.75	Industrials
Hermes International SA	2.67	8.34	31.71	Consumer Cyclical
SAP SE	2.65	11.00	25.83	Technology
Hoya Corp	2.37	13.37	34.00	Healthcare
Edenred SA	2.30	15.67	42.99	Financial Services
Nokia Oyj	2.28	17.95	-5.57	Technology
Grifols SA A	2.19	20.14	18.71	Healthcare
Keyence Corp	2.09	22.23	20.51	Technology
ICICI Bank Ltd ADR	2.09	24.32	18.65	Financial Services

Total Holdings 79

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan US Equity R6 JUEMX

Morningstar Category
Large Blend

Morningstar Index
S&P 500 TR USD

Portfolio Manager(s)

Susan Bao since 01-2001
Scott Davis since 08-2014
David Small since 07-2016

Quantitative Screens

✔ **Performance:** The fund has finished in the Large Blend category's top three quartiles in 9 of the 9 years it's been in existence.

✔ **Management:** The fund's management has been in place for 18.76 years.

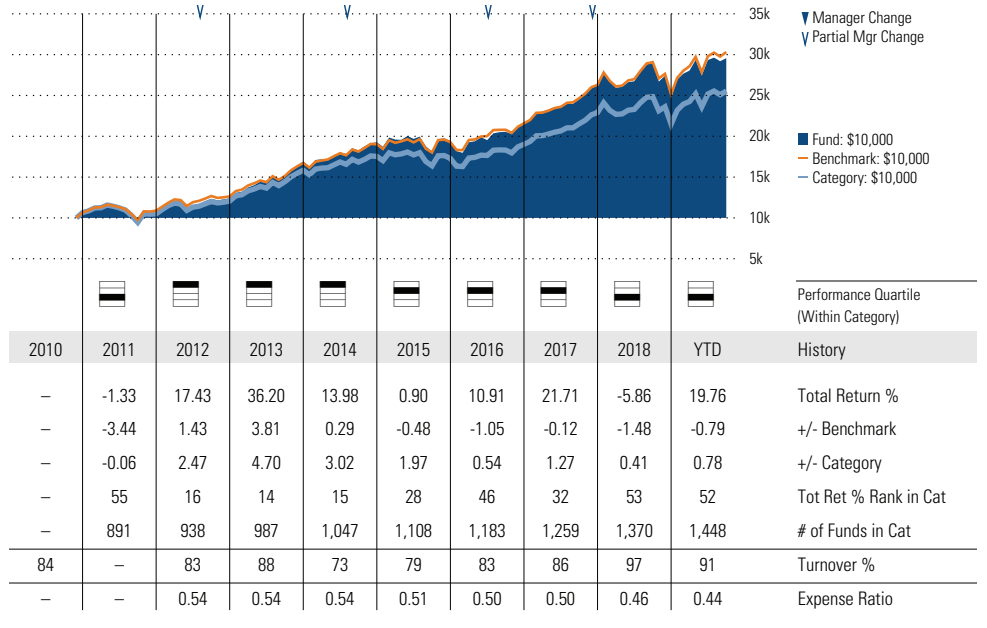
✘ **Style:** The fund has landed in its primary style box — Large Blend — 22.86 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.44 is 51.65% lower than the Large Blend category average.

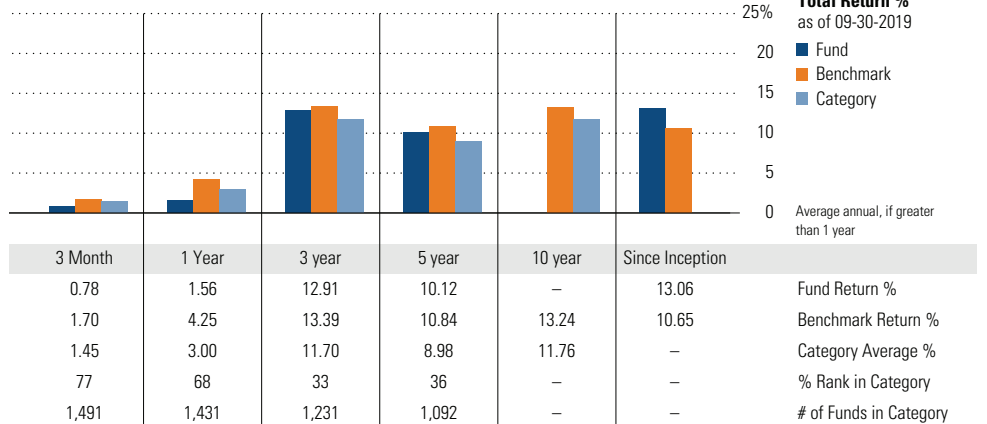
Morningstar Investment Management LLC Analysis

This fund fails our style consistency screen owing to frequent drift into the growth column of our style box. We're not concerned about this matter, as the drift has been slight, and the portfolio still represents a core strategy.

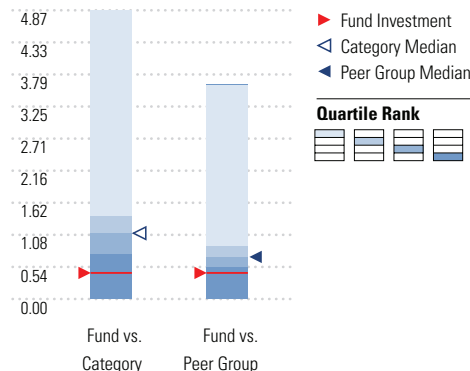
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	-1.33	-	-1.24
Beta	1.08	-	0.96
R-Squared	98.34	-	93.99
Standard Deviation	13.24	12.18	12.01
Sharpe Ratio	0.86	0.96	0.84
Tracking Error	1.95	-	2.98
Information Ratio	-0.25	-	-1.29
Up Capture Ratio	101.88	-	91.29
Down Capture Ratio	107.66	-	97.85

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	21.16	20.32	20.89
Price/Book Ratio	3.32	3.18	3.47
Geom Avg Mkt Cap \$B	102.80	111.20	178.81
ROE	24.61	26.31	28.46

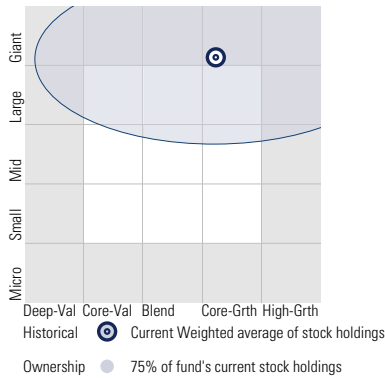
JPMorgan US Equity R6 JUEMX

Morningstar Category
Large Blend

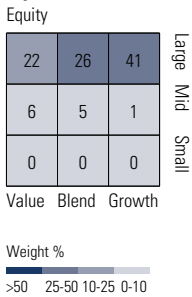
Morningstar Index
S&P 500 TR USD

Style Analysis as of 09-30-2019

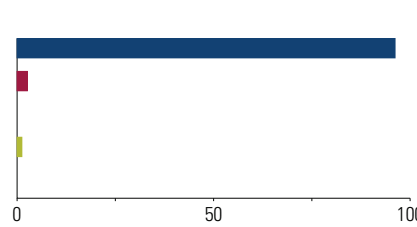
Morningstar Style Box™



Style Breakdown

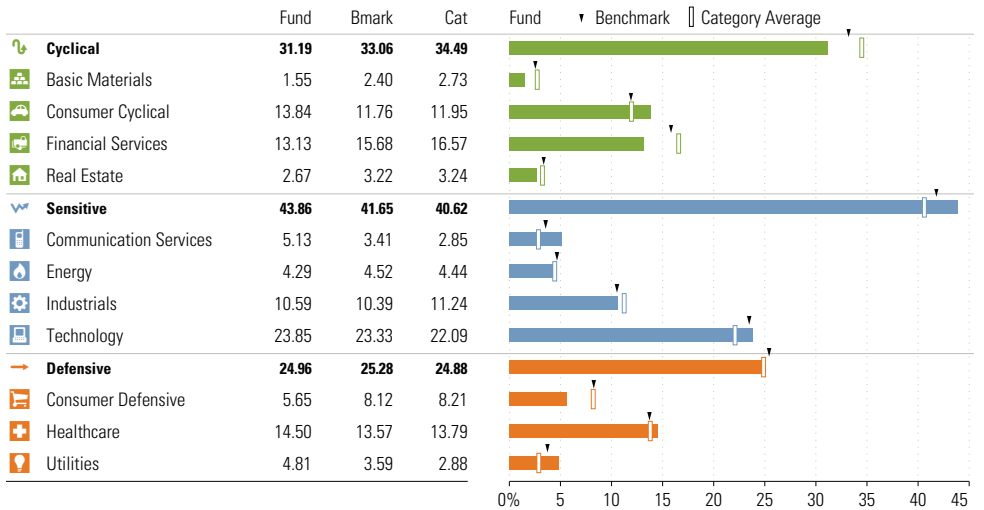


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	96.17	94.56
Non-US Stocks	2.61	2.95
Bonds	0.00	0.37
Cash	1.21	0.92
Other	0.00	1.18
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 15 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Microsoft Corp	5.68	5.68	38.24	Technology
Amazon.com Inc	4.31	9.99	15.58	Consumer Cyclical
Alphabet Inc A	3.70	13.69	16.86	Technology
Coca-Cola Co	2.84	16.53	17.51	Consumer Defensive
Mastercard Inc A	2.72	19.25	44.48	Financial Services
Verizon Communications Inc	2.31	21.55	10.58	Communication Svc
Apple Inc	2.24	23.80	43.43	Technology
Prologis Inc	2.21	26.00	47.84	Real Estate
Charter Communications Inc A	2.13	28.13	44.62	Communication Svc
Northrop Grumman Corp	1.99	30.11	54.61	Industrials
Salesforce.com Inc	1.98	32.09	8.37	Technology
Pfizer Inc	1.94	34.04	-15.21	Healthcare
UnitedHealth Group Inc	1.93	35.97	-11.54	Healthcare
General Dynamics Corp	1.93	37.91	18.12	Industrials
Constellation Brands Inc A	1.93	39.84	30.28	Consumer Defensive

Total Holdings 137

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Metropolitan West Total Return Bd I MWTIX

Morningstar Category Intermediate Core-Plus Bond
Morningstar Index BBgBarc US Agg Bond TR USD

Portfolio Manager(s)

Tad Rivelle since 03-1997
 Stephen Kane since 03-1997
 Laird Landmann since 03-1997
 Bryan Whalen since 12-2004

Quantitative Screens

Performance: The fund has finished in the Intermediate Core-Plus Bond category's top three quartiles in 8 of the 10 years it's been in existence.

Management: The fund's management has been in place for 22.52 years.

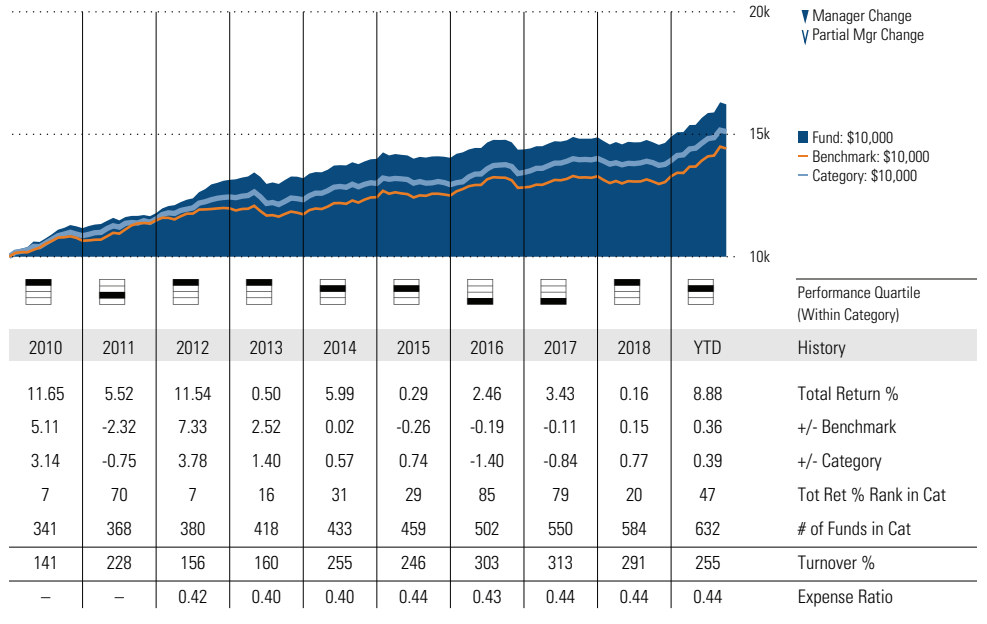
Style Consistency is not calculated for Fixed Income funds.

Net Expense: The fund's expense ratio of 0.44 is 45% lower than the Intermediate Core-Plus Bond category average.

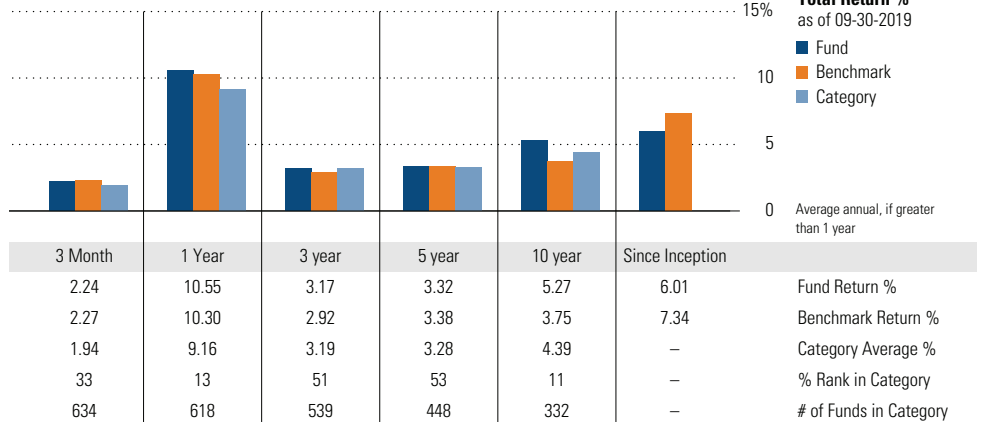
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

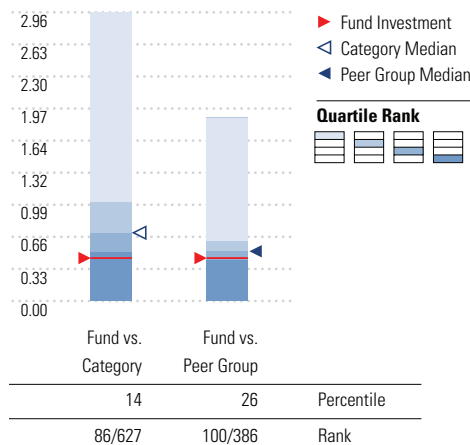
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.35	-	0.71
Beta	0.96	-	0.83
R-Squared	99.35	-	86.86
Standard Deviation	3.22	3.35	2.99
Sharpe Ratio	0.50	0.41	0.54
Tracking Error	0.29	-	1.15
Information Ratio	0.84	-	0.19
Up Capture Ratio	98.60	-	92.85
Down Capture Ratio	89.30	-	78.28

Portfolio Metrics

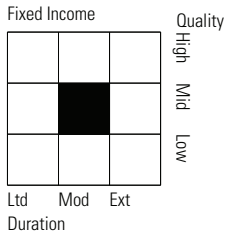
	Fund	Bmark	Cat
Avg Eff Duration	5.75	4.43	-
Avg Eff Maturity	7.69	-	-

Metropolitan West Total Return Bd I MWTIX

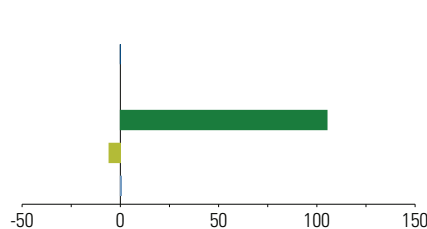
Morningstar Category Intermediate Core-Plus Bond
Morningstar Index BBgBarc US Agg Bond TR USD

Style Analysis as of 09-30-2019

Style Breakdown



Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	0.03	-
Non-US Stocks	0.00	-
Bonds	105.17	-
Cash	-5.75	-
Other	0.53	-
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	66.48	3.53	-
AA	1.95	74.59	-
A	7.77	10.82	-
BBB	18.26	8.32	-
BB	1.68	0.28	-
B	0.71	0.00	-
Below B	3.12	0.00	-
Not Rated	0.03	2.46	-

Sector Weighting as of 09-30-2019

	Fund	Bmark	Cat	Fund	Benchmark	Category Average
Government	29.29	-	-			
Treasury	25.74	-	-			
Inflation – Protected	2.85	-	-			
Agency/Quasi Agency	0.58	-	-			
Other Government Related	0.12	-	-			
Corporate	22.95	-	-			
Corporate Bond	21.59	-	-			
Bank Loan	0.87	-	-			
Convertible	0.49	-	-			
Preferred	0.00	-	-			
Securitized	44.74	-	-			
Agency MBS Pass-Through	29.24	-	-			
Agency MBS ARM	0.00	-	-			
Agency MBS CMO	3.05	-	-			
Non-Agency Residential MBS	3.60	-	-			
Commercial MBS	1.58	-	-			
Asset-Backed	7.27	-	-			
Covered Bond	0.00	-	-			
Municipal	0.58	-	-			
Cash & Equivalents	2.43	-	-			
Other	0.02	-	-			

Top 10 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
✳ Cash & Cash Equivalents	-	8.38	8.38	-
⊕ United States Treasury Notes 1.25%	08-2024	6.22	14.60	-
⊕ Federal National Mortgage Association 3%	11-2049	4.88	19.48	-
⊕ United States Treasury Notes 1.5%	09-2024	4.74	24.22	-
⊕ United States Treasury Bonds 2.25%	08-2049	3.37	27.59	-
⊕ United States Treasury Notes 1.75%	07-2024	2.88	30.47	-
⊕ United States Treasury Notes 1.62%	09-2021	1.99	32.46	-
⊕ United States Treasury Notes 1.5%	08-2021	1.85	34.31	-
⊖ United States Treasury Bonds 2.88%	05-2049	1.85	36.16	-
⊕ Government National Mortgage Association 3%	11-2049	1.82	37.98	-

Total Holdings 1842

⊕ Increase ⊖ Decrease ✳ New to Portfolio

MFS Mid Cap Growth R6 OTCKX

Morningstar Category
Mid-Cap Growth

Morningstar Index
Russell Mid Cap Growth TR USD

Portfolio Manager(s)

Eric Fischman since 11-2008

Paul Gordon since 05-2011

Quantitative Screens

✔ **Performance:** The fund has finished in the Mid-Cap Growth category's top three quartiles in 6 of the 6 years it's been in existence.

✔ **Management:** The fund's management has been in place for 10.87 years.

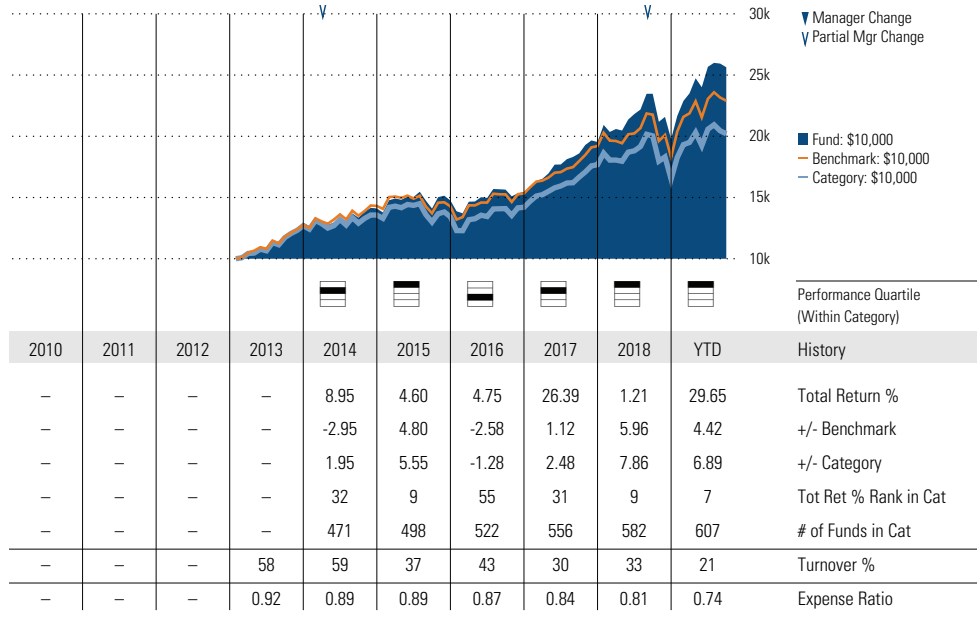
✔ **Style:** The fund has landed in its primary style box — Mid-Cap Growth — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.81 is 29.57% lower than the Mid-Cap Growth category average.

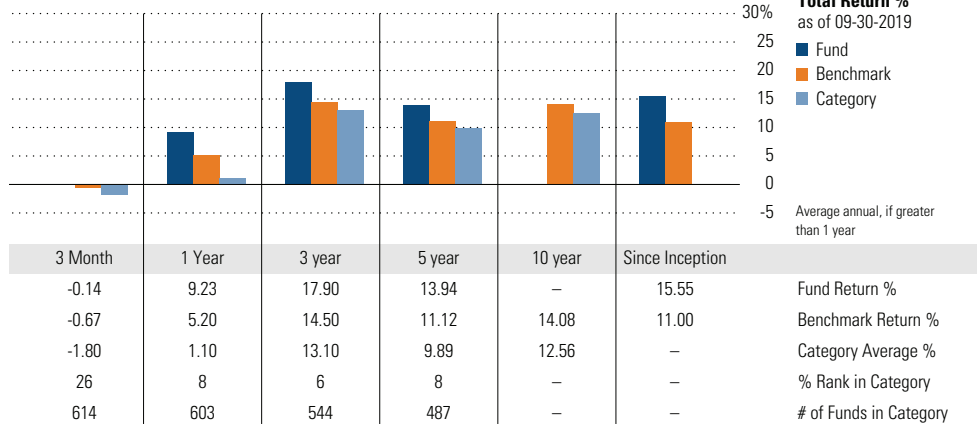
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

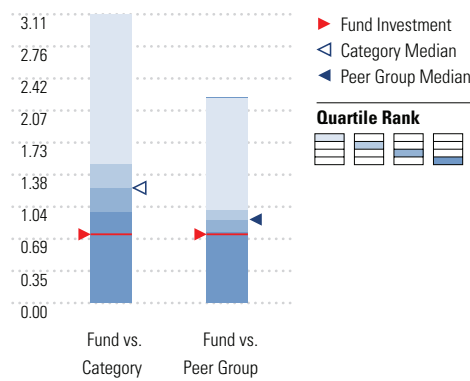
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	4.42	-	-0.54
Beta	0.89	-	0.99
R-Squared	92.68	-	90.62
Standard Deviation	13.30	14.38	15.09
Sharpe Ratio	1.19	0.91	0.83
Tracking Error	3.93	-	4.64
Information Ratio	0.87	-	-0.30
Up Capture Ratio	100.32	-	97.41
Down Capture Ratio	77.70	-	100.52

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	37.12	25.90	30.85
Price/Book Ratio	6.01	6.19	4.91
Geom Avg Mkt Cap \$B	17.42	15.25	13.31
ROE	20.55	24.20	16.48

MFS Mid Cap Growth R6 OTCKX

Morningstar Category

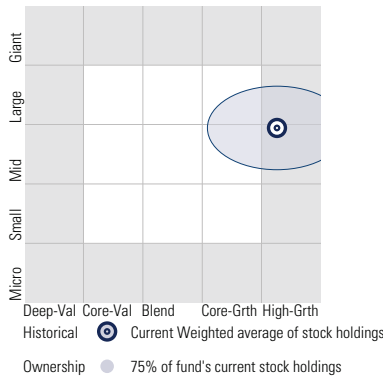
Mid-Cap Growth

Morningstar Index

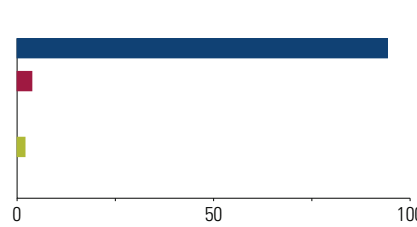
Russell Mid Cap Growth TR USD

Style Analysis as of 09-30-2019

Morningstar Style Box™

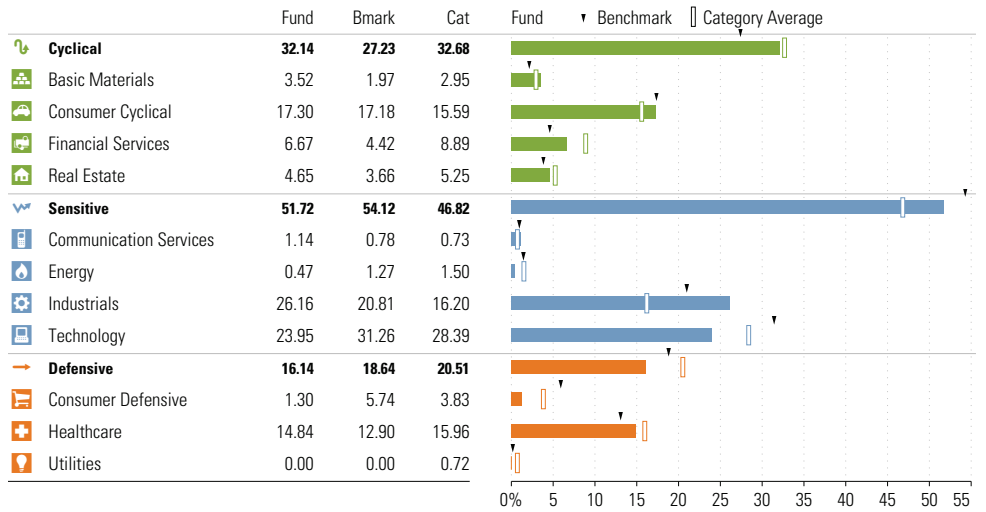


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	94.24	92.66
Non-US Stocks	3.75	4.06
Bonds	0.00	0.03
Cash	2.01	2.95
Other	0.00	0.30
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Style Breakdown



Top 15 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Global Payments Inc	4.33	4.33	54.20	Industrials
⊕ Bright Horizons Family Solutions Inc	3.76	8.08	36.83	Consumer Cyclical
⊕ Fidelity National Information Services Inc	2.74	10.82	30.48	Industrials
⊕ Verisk Analytics Inc	2.32	13.14	45.72	Industrials
⊕ PerkinElmer Inc	2.30	15.44	8.70	Healthcare
⊕ Copart Inc	2.22	17.66	68.12	Consumer Cyclical
⊕ AMETEK Inc	2.22	19.88	36.25	Industrials
⊕ Fiserv Inc	2.19	22.07	40.96	Industrials
⊕ Cadence Design Systems Inc	2.10	24.17	51.98	Technology
⊕ Steris PLC	2.06	26.23	36.21	Healthcare
⊕ Roper Technologies Inc	1.96	28.19	34.32	Industrials
⊕ IHS Markit Ltd	1.92	30.12	39.42	Industrials
⊕ Cash Cash	1.91	32.03	-	-
⊕ SBA Communications Corp	1.84	33.87	49.19	Real Estate
⊕ Vulcan Materials Co	1.80	35.67	54.02	Basic Materials

Total Holdings 97

⊕ Increase ⊖ Decrease ✨ New to Portfolio

PIMCO Income I2 PONPX

Morningstar Category
Multisector Bond

Morningstar Index
BBgBarc US Universal TR USD

Portfolio Manager(s)

Daniel Ivascyn since 03-2007
Alfred Murata since 03-2013
Joshua Anderson since 07-2018

Quantitative Screens

✔ **Performance:** The fund has finished in the Multisector Bond category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 12.51 years.

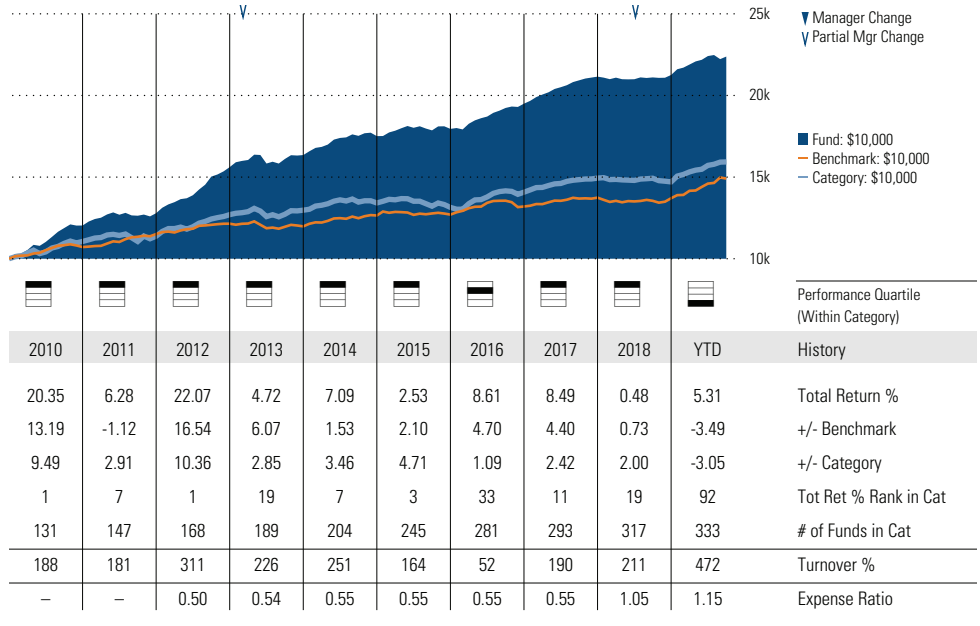
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 1.15 is 7.48% higher than the Multisector Bond category average.

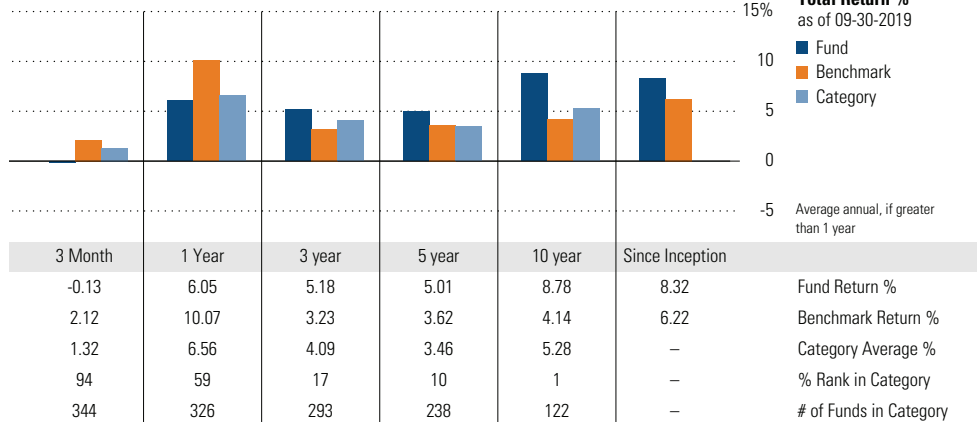
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

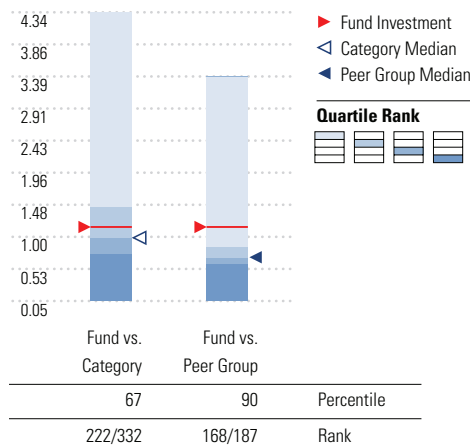
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	4.42	-	2.50
Beta	0.21	-	0.50
R-Squared	11.11	-	32.11
Standard Deviation	1.90	3.09	3.00
Sharpe Ratio	1.79	0.54	0.93
Tracking Error	3.04	-	2.99
Information Ratio	0.64	-	0.31
Up Capture Ratio	74.98	-	82.75
Down Capture Ratio	-24.97	-	29.96

Portfolio Metrics

	Fund	Bmark	Cat
Avg Eff Duration	0.44	4.55	3.99
Avg Eff Maturity	3.30	7.69	6.39

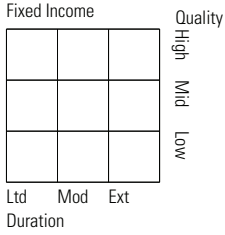
PIMCO Income I2 PONPX

Morningstar Category
Multisector Bond

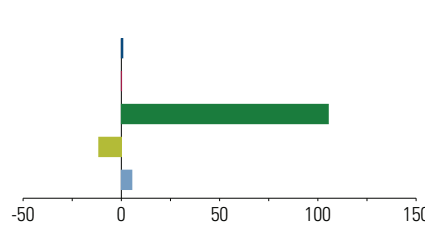
Morningstar Index
BBgBarc US Universal TR USD

Style Analysis as of 09-30-2019

Style Breakdown



Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	0.74	1.35
Non-US Stocks	0.11	0.40
Bonds	105.30	88.12
Cash	-11.48	6.96
Other	5.33	3.17
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	56.00	67.64	15.27
AA	7.00	3.23	10.34
A	4.00	10.03	13.36
BBB	14.00	10.89	20.77
BB	6.00	3.19	19.62
B	7.00	3.64	12.71
Below B	6.00	1.38	2.29
Not Rated	0.00	0.00	5.64

Sector Weighting as of 09-30-2019

	Fund	Bmark	Cat	Fund	Benchmark	Category Average
Government	26.45	-	14.56			
Treasury	4.53	-	9.30			
Inflation - Protected	0.70	-	1.53			
Agency/Quasi Agency	0.16	-	0.89			
Other Government Related	21.06	-	2.84			
Corporate	8.05	-	29.04			
Corporate Bond	5.21	-	24.92			
Bank Loan	1.32	-	2.09			
Convertible	1.51	-	1.64			
Preferred	0.01	-	0.39			
Securitized	25.81	-	30.54			
Agency MBS Pass-Through	11.44	-	8.18			
Agency MBS ARM	0.00	-	0.03			
Agency MBS CMO	0.66	-	5.18			
Non-Agency Residential MBS	3.85	-	5.43			
Commercial MBS	0.36	-	1.35			
Asset-Backed	9.49	-	10.32			
Covered Bond	0.01	-	0.05			
Municipal	0.05	-	0.79			
Cash & Equivalents	24.39	-	23.85			
Other	13.42	-	0.79			

Top 10 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ Irs Usd 3.00000 06/19/19-5y Cme	06-2024	14.34	14.34	-
Irs Jpy 0.45000 03/20/19-10y Lch	03-2029	14.26	28.60	-
⊕ Irs Jpy 0.45000 03/20/19-10y Lch	03-2029	13.67	42.26	-
⊕ Irs Usd 3.00000 06/19/19-5y Cme	06-2024	13.54	55.80	-
Irs Eur 0.00000 08/19/19-2y Lch	08-2021	13.10	68.90	-
⊕ Irs Eur 0.00000 08/19/19-2y Lch	08-2021	13.00	81.90	-
⊕ US 5 Year Note (CBT) Sept19	09-2019	9.56	91.46	-
Cirs Usd 4y Mat 3.85/2.00% M 7/2020 Dub	07-2022	7.92	99.38	-
Cirs Usd 4y Mat 3.82/2.00% M 7/2020 Glm	07-2022	7.92	107.30	-
Cirs Usd 4y Mat 3.82/2.00% M 6/2020 Myc	06-2022	7.91	115.21	-

Total Holdings 7621

⊕ Increase ⊖ Decrease ✱ New to Portfolio

PIMCO Short-Term I2 PTSPX

Morningstar Category
Ultrashort Bond

Morningstar Index
BBgBarc US Agg Bond TR USD

Portfolio Manager(s)

Jerome Schneider since 01-2011
Andrew Wittkop since 04-2019
Nathan Chiaverini since 04-2019

Quantitative Screens

✔ **Performance:** The fund has finished in the Ultrashort Bond category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 8.75 years.

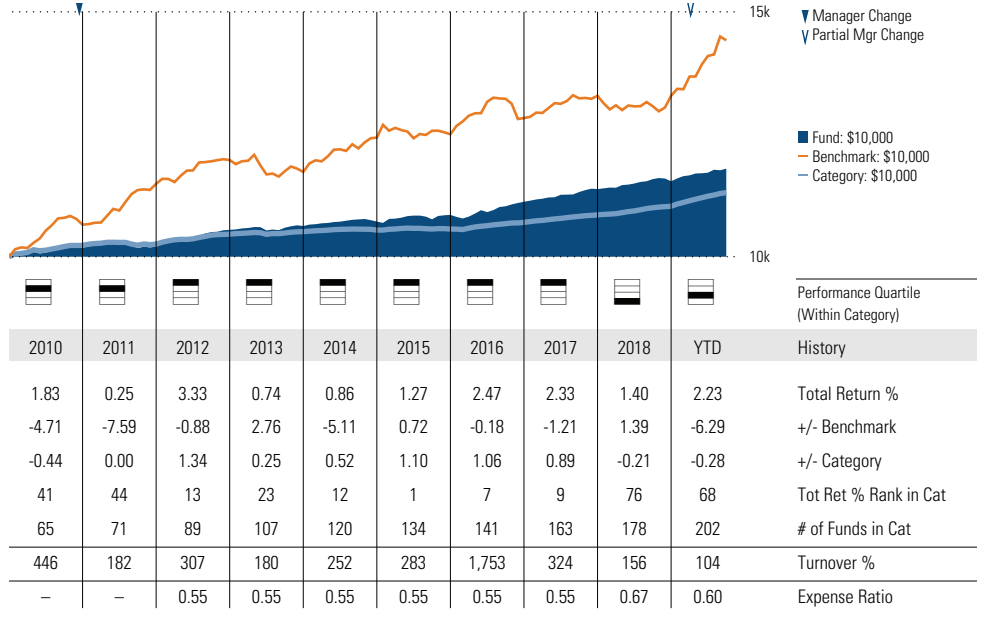
Style Consistency is not calculated for Fixed Income funds.

✘ **Net Expense:** The fund's expense ratio of 0.6 is 30.43% higher than the Ultrashort Bond category average.

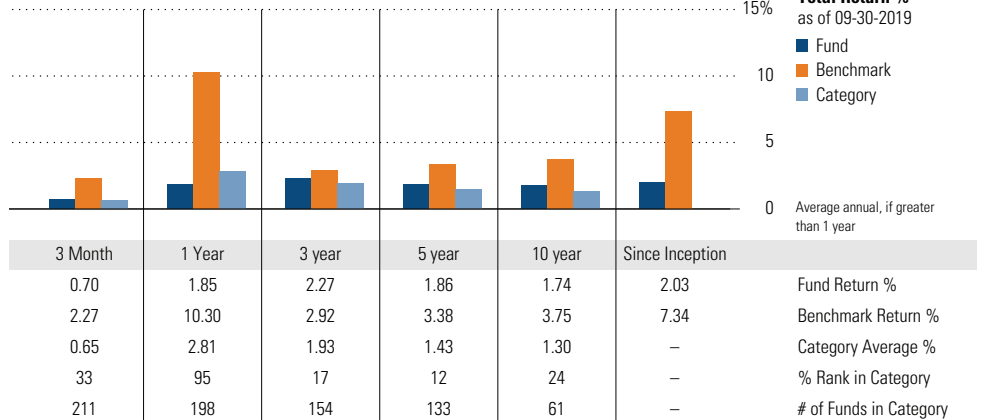
Morningstar Investment Management LLC Analysis

This fund fails our expense screen with fees that are higher than the broad category average. Plan costs are sometimes wrapped into fund fees, but because costs are predictive of a fund's future relative performance, we would still like to see lower overall expenses here.

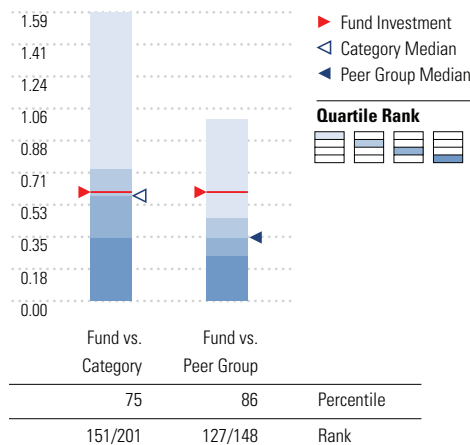
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	2.57	-	1.78
Beta	-0.11	-	0.04
R-Squared	26.83	-	22.18
Standard Deviation	0.70	3.35	0.43
Sharpe Ratio	0.85	0.41	0.72
Tracking Error	3.76	-	3.22
Information Ratio	-0.17	-	-0.31
Up Capture Ratio	15.10	-	22.90
Down Capture Ratio	-45.80	-	-18.90

Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	0.46	4.43	0.95
Avg Eff Maturity	1.20	-	1.94

PIMCO Short-Term I2 PTSPX

Morningstar Category
Ultrashort Bond

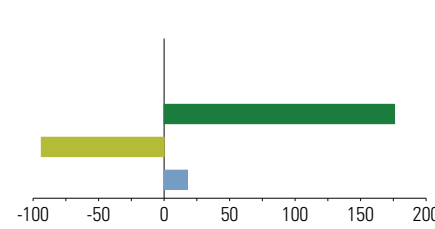
Morningstar Index
BBgBarc US Agg Bond TR USD

Style Analysis as of 09-30-2019

Style Breakdown



Asset Allocation as of 09-30-2019

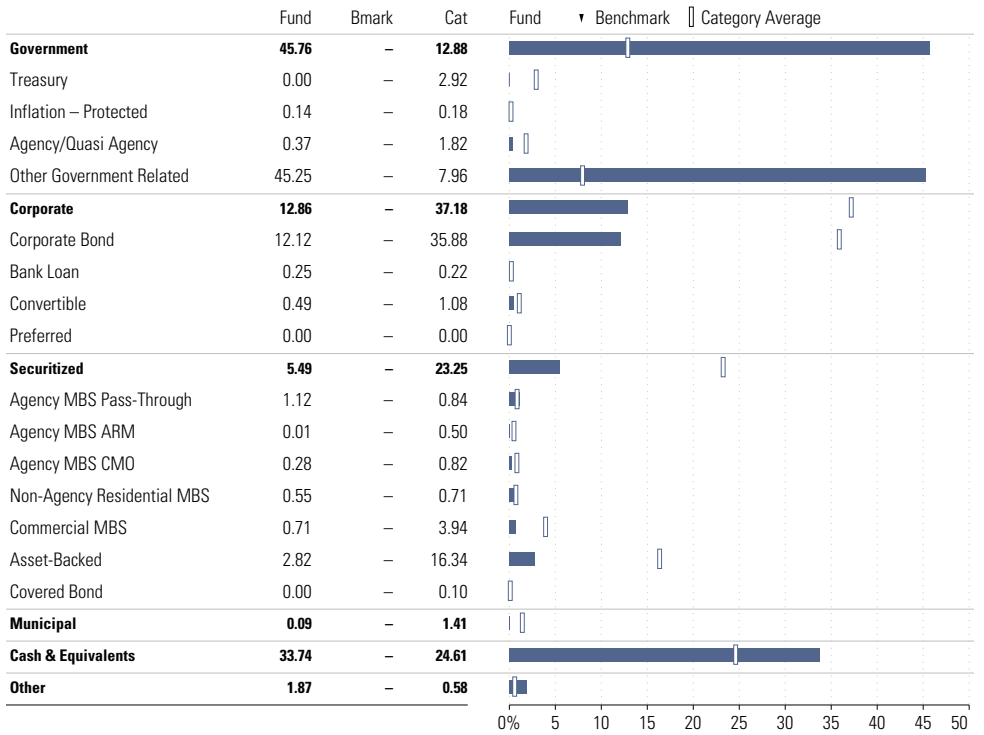


Asset Class	Net %	Cat%
US Stocks	0.00	0.01
Non-US Stocks	0.00	0.00
Bonds	175.91	77.26
Cash	-93.73	21.04
Other	17.82	1.69
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	28.00	3.53	34.16
AA	9.00	74.59	12.79
A	29.00	10.82	26.67
BBB	25.00	8.32	20.77
BB	7.00	0.28	1.54
B	2.00	0.00	0.42
Below B	0.00	0.00	0.32
Not Rated	0.00	2.46	3.32

Sector Weighting as of 09-30-2019



Top 10 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
Ois Usd Fedl01/2.336 12/18/19 Lch	03-2020	93.79	93.79	-
⊕ Ois Usd Fedl01/2.336 12/18/19 Lch	03-2020	93.62	187.41	-
⊕ 90 Day Eurodollar Future June20	06-2020	65.13	252.54	-
⊕ Irs Usd R 3ml/1ml+12.5 06/21/19-20 Cme	06-2020	59.55	312.10	-
⊕ Irs Usd R 3ml/1ml+12.5 06/21/19-20 Cme	06-2020	59.55	371.64	-
⊖ Ois Usd Fedl01/2.5 03/01/19 Lch	03-2020	50.07	421.71	-
⊕ Ois Usd Fedl01/2.5 03/01/19 Lch	03-2020	49.87	471.58	-
⊖ Ois Usd Fedl01/2.3 03/01/19 Lch	03-2022	37.12	508.69	-
⊕ Ois Usd Fedl01/2.3 03/01/19 Lch	03-2022	36.36	545.05	-
⊕ Fin Fut Euribor Ice (Grn) 03/14/22	03-2022	31.99	577.05	-

Total Holdings 1487

⊕ Increase ⊖ Decrease ✱ New to Portfolio

Vanguard 500 Index Admiral VFIAX

Morningstar Category
Large Blend

Morningstar Index
S&P 500 TR USD

Portfolio Manager(s)

Donald Butler since 04-2016
Michelle Louie since 11-2017

Quantitative Screens

✔ **Performance:** The fund has finished in the Large Blend category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 3.43 years.

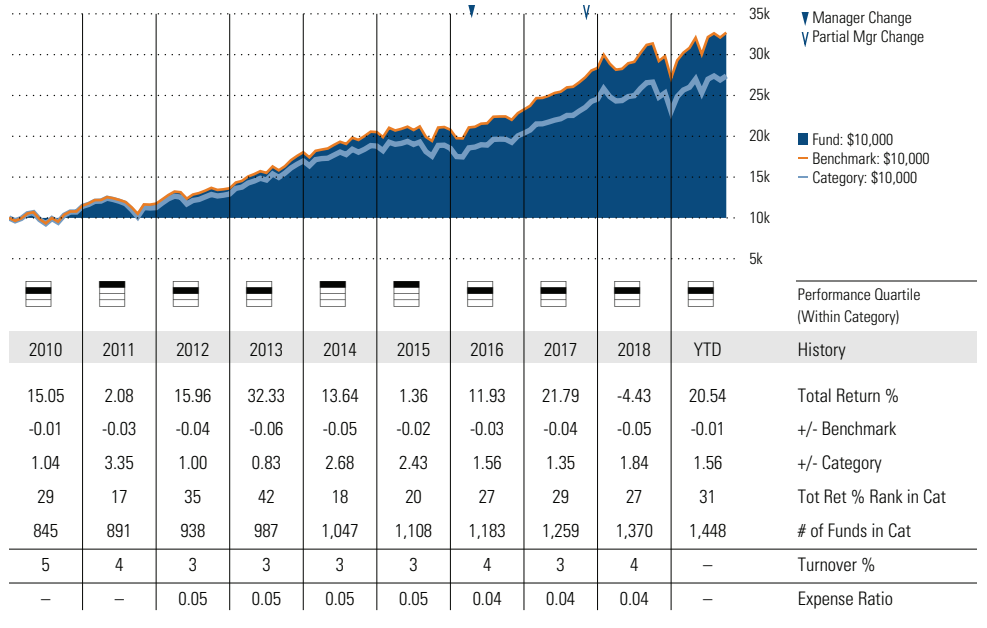
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.04 is 95.6% lower than the Large Blend category average.

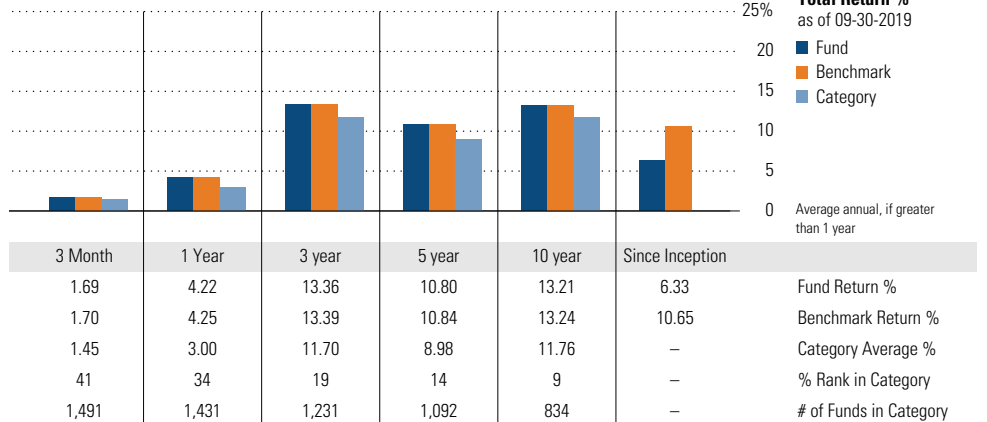
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

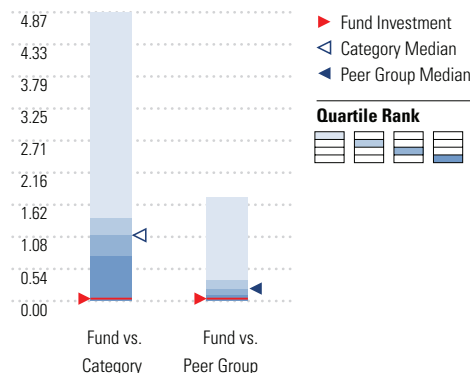
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.03	-	-1.24
Beta	1.00	-	0.96
R-Squared	100.00	-	93.99
Standard Deviation	12.18	12.18	12.01
Sharpe Ratio	0.96	0.96	0.84
Tracking Error	0.01	-	2.98
Information Ratio	-4.03	-	-1.29
Up Capture Ratio	99.88	-	91.29
Down Capture Ratio	100.05	-	97.85

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	20.32	20.32	20.89
Price/Book Ratio	3.18	3.18	3.47
Geom Avg Mkt Cap \$B	111.22	111.20	178.81
ROE	26.31	26.31	28.46

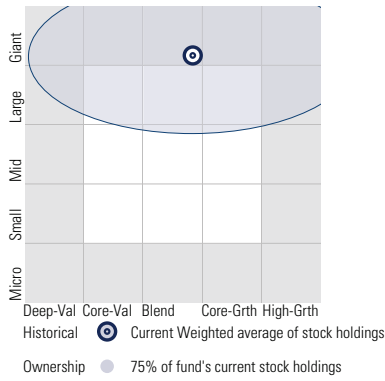
Vanguard 500 Index Admiral VFIAX

Morningstar Category
Large Blend

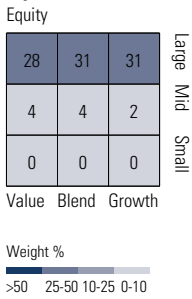
Morningstar Index
S&P 500 TR USD

Style Analysis as of 09-30-2019

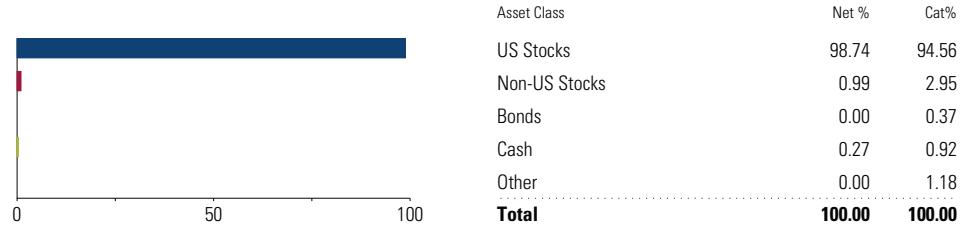
Morningstar Style Box™



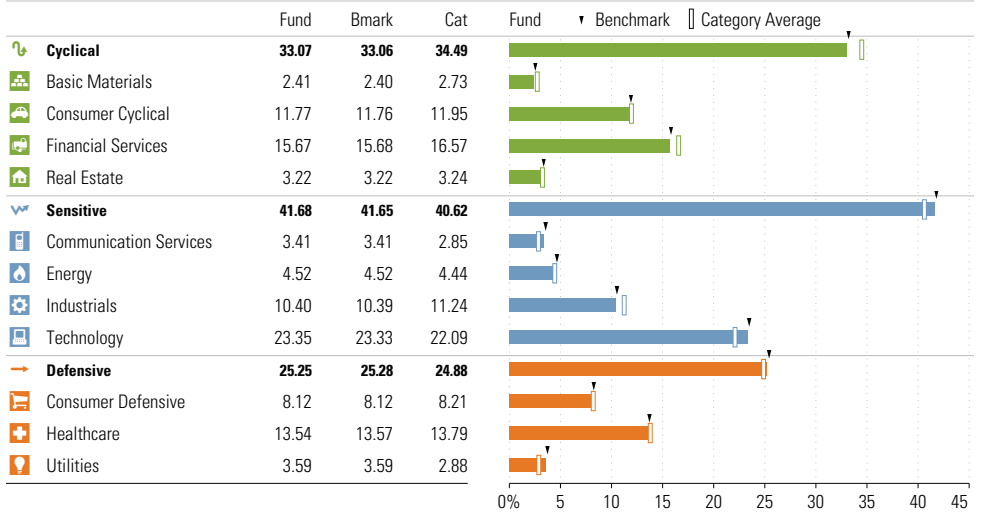
Style Breakdown



Asset Allocation as of 09-30-2019



Sector Weighting as of 09-30-2019



Top 15 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Microsoft Corp	4.29	4.29	38.24	Technology
Apple Inc	3.84	8.13	43.43	Technology
Amazon.com Inc	2.91	11.04	15.58	Consumer Cyclical
Facebook Inc A	1.73	12.77	35.85	Technology
Berkshire Hathaway Inc B	1.60	14.37	1.88	Financial Services
JPMorgan Chase & Co	1.52	15.89	23.02	Financial Services
Alphabet Inc Class C	1.49	17.38	17.71	Technology
Alphabet Inc A	1.47	18.85	16.86	Technology
Johnson & Johnson	1.38	20.23	2.43	Healthcare
Procter & Gamble Co	1.26	21.49	37.72	Consumer Defensive
Exxon Mobil Corp	1.21	22.70	7.30	Energy
Visa Inc Class A	1.20	23.90	30.94	Financial Services
AT&T Inc	1.12	25.01	37.95	Communication Svc
The Home Depot Inc	1.03	26.04	37.41	Consumer Cyclical
Verizon Communications Inc	1.01	27.05	10.58	Communication Svc

Total Holdings 516

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Developed Markets Index Admiral VTMGX

Morningstar Category
Foreign Large Blend

Morningstar Index
MSCI ACWI Ex USA NR USD

Portfolio Manager(s)

Christine Franquin since 02-2013

Michael Perre since 11-2017

Quantitative Screens

✔ **Performance:** The fund has finished in the Foreign Large Blend category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

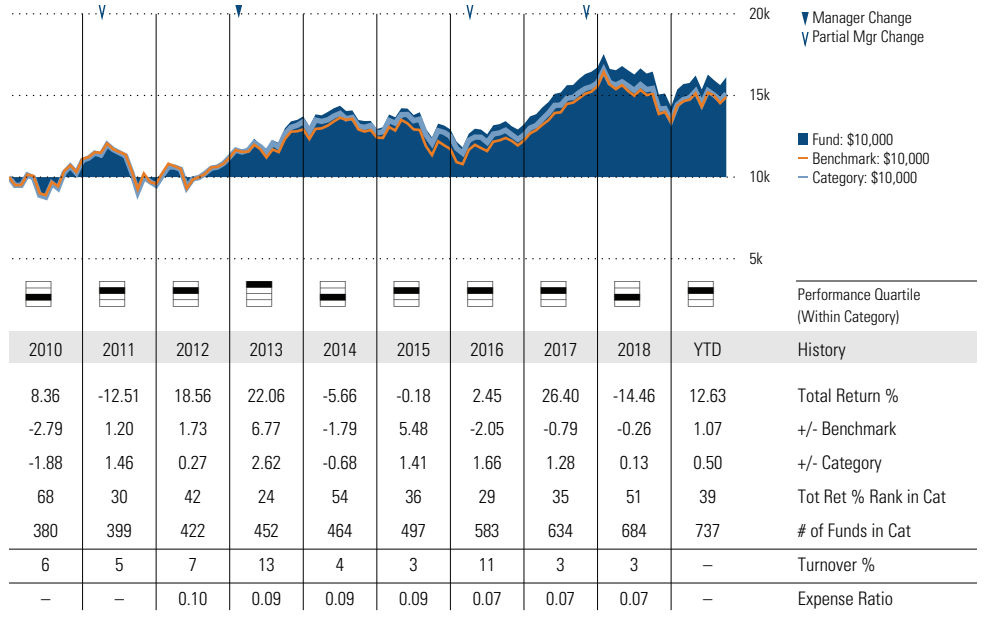
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.07 is 92.93% lower than the Foreign Large Blend category average.

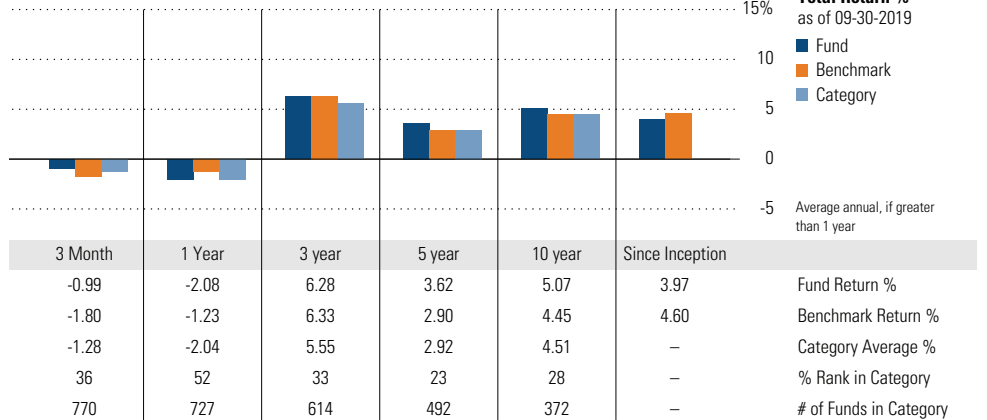
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

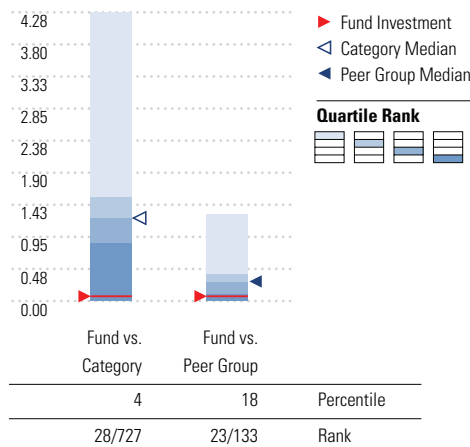
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.05	-	-0.78
Beta	0.99	-	0.98
R-Squared	97.28	-	92.53
Standard Deviation	11.44	11.45	11.70
Sharpe Ratio	0.45	0.45	0.37
Tracking Error	1.89	-	3.17
Information Ratio	-0.03	-	-0.32
Up Capture Ratio	97.83	-	94.57
Down Capture Ratio	97.30	-	99.17

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	15.17	14.87	15.67
Price/Book Ratio	1.49	1.57	1.66
Geom Avg Mkt Cap \$B	23.21	33.84	39.13
ROE	15.27	16.14	17.80

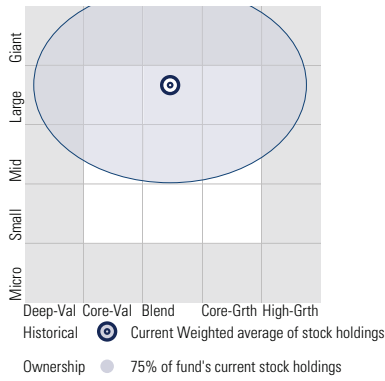
Vanguard Developed Markets Index Admiral VTMGX

Morningstar Category
Foreign Large Blend

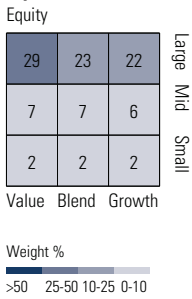
Morningstar Index
MSCI ACWI Ex USA NR USD

Style Analysis as of 09-30-2019

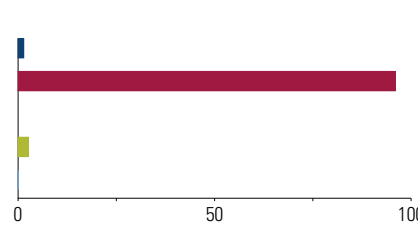
Morningstar Style Box™



Style Breakdown

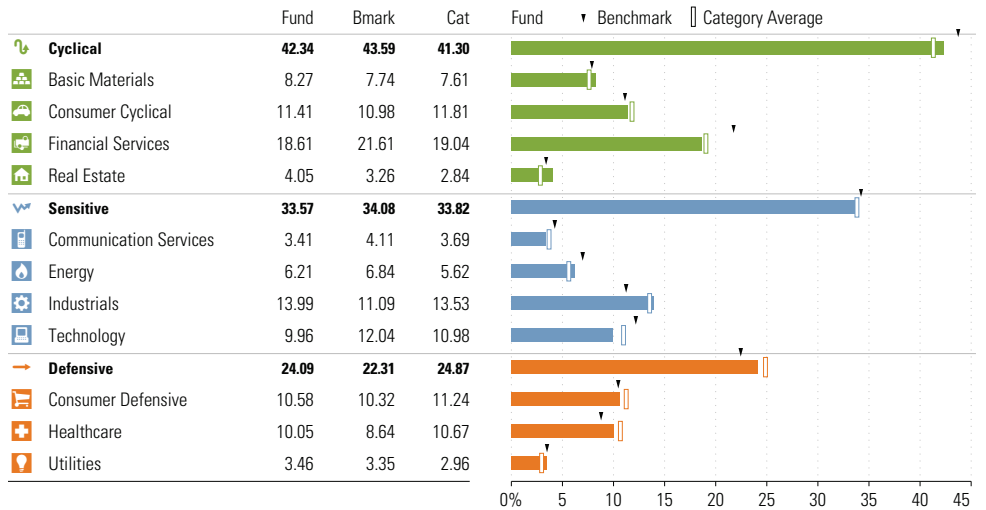


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	1.43	3.97
Non-US Stocks	95.96	93.13
Bonds	0.00	-0.32
Cash	2.56	2.53
Other	0.06	0.69
Total	100.00	100.00

Sector Weighting as of 09-30-2019



World Regions % Equity 09-30-2019



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	36.69	36.43	Americas	10.36	8.45	Greater Europe	52.96	55.12	Developed Markets	98.69
Japan	22.29	19.66	North America	10.33	7.36	United Kingdom	13.89	14.36	Emerging Markets	1.31
Australasia	6.17	4.98	Central/Latin	0.03	1.09	W euro-ex UK	37.86	39.52	Not Available	0.00
Asia-4 Tigers	7.68	6.53				Emrgng Europe	0.72	0.44		
Asia-ex 4 Tigers	0.55	5.26				Africa	0.49	0.80		
Not Classified	0.00	0.00								

Top 10 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Cmt Market Liquidity Rate	2.46	2.46	-	-
⊖ Nestle SA	1.68	4.14	38.76	Consumer Defensive
⊕ Roche Holding AG Dividend Right Cert.	1.08	5.22	22.90	Healthcare
⊖ Novartis AG	1.00	6.22	18.28	Healthcare
Samsung Electronics Co Ltd	0.96	7.18	-	Technology
⊕ Toyota Motor Corp	0.90	8.07	14.52	Consumer Cyclical
⊕ HSBC Holdings PLC	0.83	8.90	1.47	Financial Services
⊕ BP PLC	0.67	9.58	8.87	Energy
⊖ Royal Dutch Shell PLC Class A	0.67	10.25	8.12	Energy
Total SA	0.67	10.92	7.89	Energy

Total Holdings 3951

⊕ Increase ⊖ Decrease ✱ New to Portfolio

Vanguard Growth Index Admiral VIGAX

Morningstar Category
Large Growth

Morningstar Index
Russell 1000 Growth TR USD

Portfolio Manager(s)

Gerard O'Reilly since 12-1994

Walter Nejman since 04-2016

Quantitative Screens

✔ **Performance:** The fund has finished in the Large Growth category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 24.76 years.

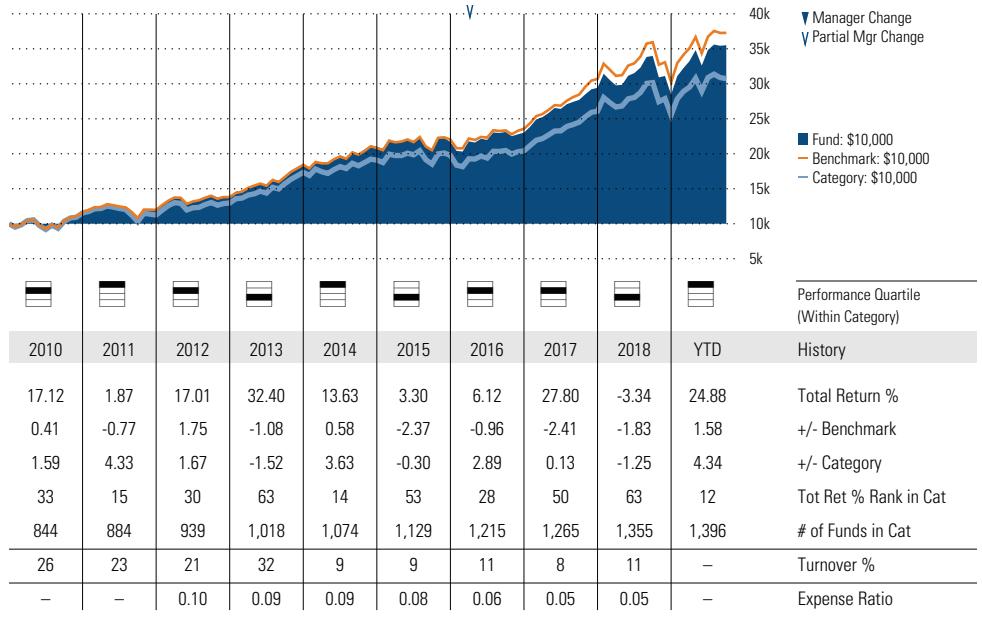
✔ **Style:** The fund has landed in its primary style box — Large Growth — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.05 is 95.19% lower than the Large Growth category average.

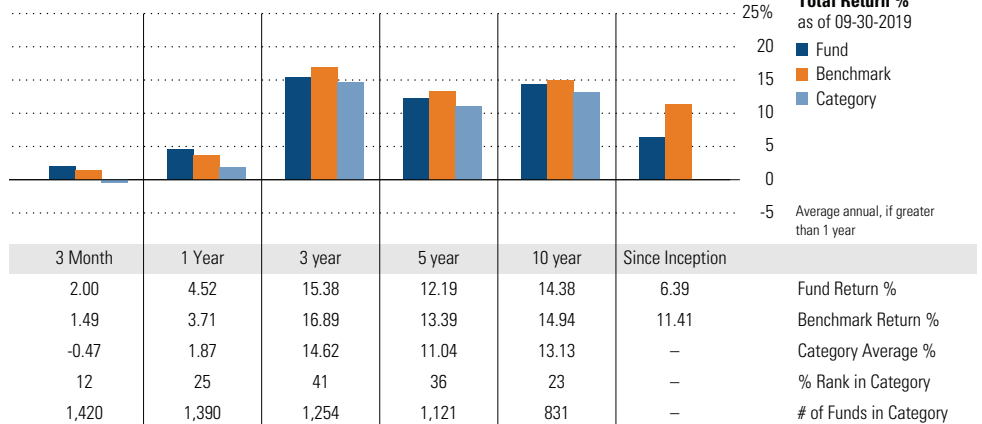
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

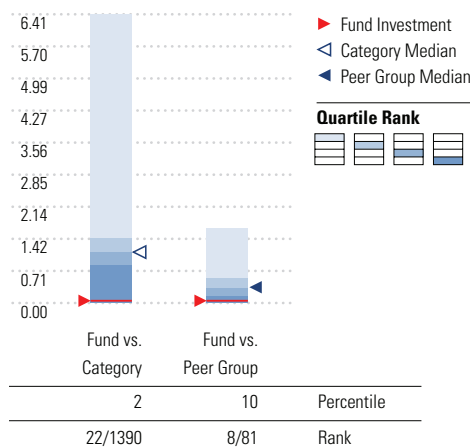
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-1.22	-	-1.63
Beta	0.99	-	0.99
R-Squared	99.18	-	91.12
Standard Deviation	13.27	13.30	13.80
Sharpe Ratio	1.03	1.12	0.96
Tracking Error	1.21	-	4.12
Information Ratio	-1.25	-	-0.65
Up Capture Ratio	95.60	-	92.49
Down Capture Ratio	101.15	-	99.37

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	28.08	25.98	26.42
Price/Book Ratio	6.36	7.55	6.09
Geom Avg Mkt Cap \$B	130.42	125.13	169.04
ROE	32.10	34.85	29.93

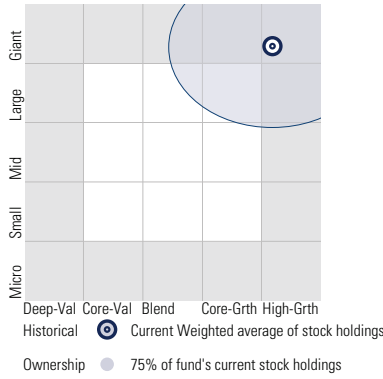
Vanguard Growth Index Admiral VIGAX

Morningstar Category
Large Growth

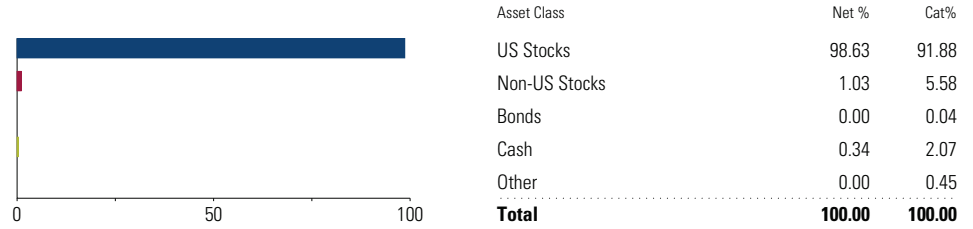
Morningstar Index
Russell 1000 Growth TR USD

Style Analysis as of 09-30-2019

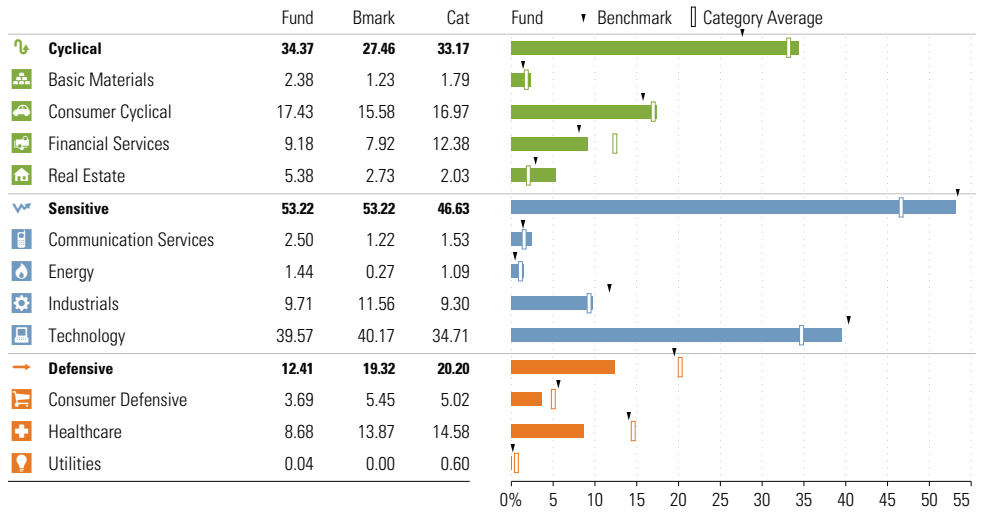
Morningstar Style Box™



Asset Allocation as of 09-30-2019



Sector Weighting as of 09-30-2019



Style Breakdown



Top 15 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Microsoft Corp	8.47	8.47	38.24	Technology
⊕ Apple Inc	7.27	15.75	43.43	Technology
⊕ Amazon.com Inc	5.83	21.57	15.58	Consumer Cyclical
⊕ Facebook Inc A	3.42	24.99	35.85	Technology
⊕ Alphabet Inc A	2.92	27.91	16.86	Technology
⊕ Alphabet Inc Class C	2.87	30.79	17.71	Technology
⊕ Visa Inc Class A	2.37	33.16	30.94	Financial Services
⊕ The Home Depot Inc	2.03	35.19	37.41	Consumer Cyclical
⊕ Mastercard Inc A	1.96	37.15	44.48	Financial Services
⊕ Comcast Corp Class A	1.63	38.78	33.63	Communication Svc
⊕ Boeing Co	1.62	40.40	19.89	Industrials
⊕ McDonald's Corp	1.30	41.70	22.88	Consumer Cyclical
⊕ Adobe Inc	1.07	42.77	22.10	Technology
⊕ Costco Wholesale Corp	1.01	43.79	42.35	Consumer Defensive
⊕ Salesforce.com Inc	0.99	44.77	8.37	Technology

Total Holdings 283

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard International Value Inv VTRIX

Morningstar Category
Foreign Large Value

Morningstar Index
MSCI EAFE NR USD

Portfolio Manager(s)

Sandy Nairn since 05-2008
Michael Bennett since 05-2010
Michael Fry since 05-2010
Steven Morrow since 08-2012
A. Krishna since 08-2012

Quantitative Screens

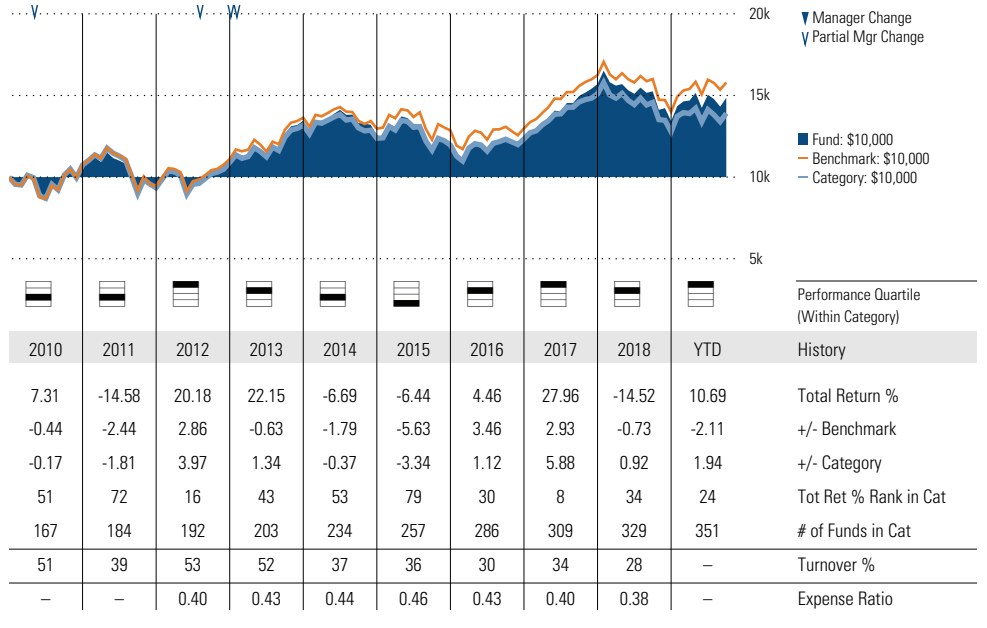
✔ **Performance:** The fund has finished in the Foreign Large Value category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 11.38 years.

✗ **Style:** The fund has landed in its primary style box — Large Value — 9.09 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.38 is 64.81% lower than the Foreign Large Value category average.

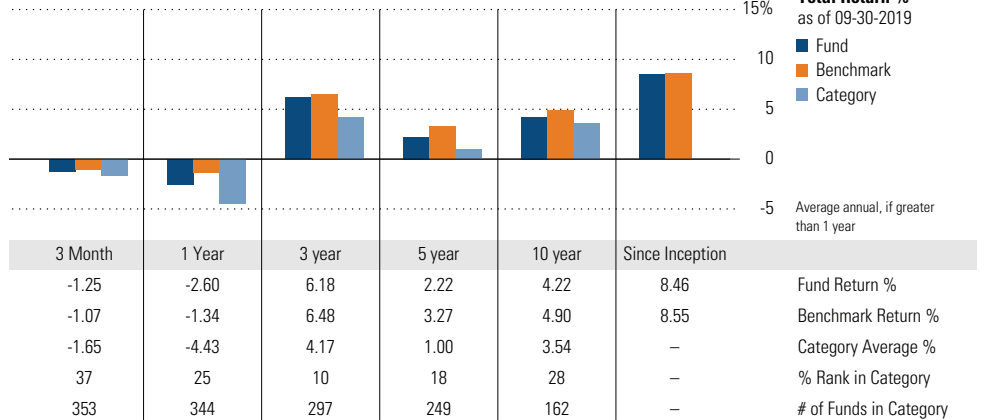
Growth of \$10,000



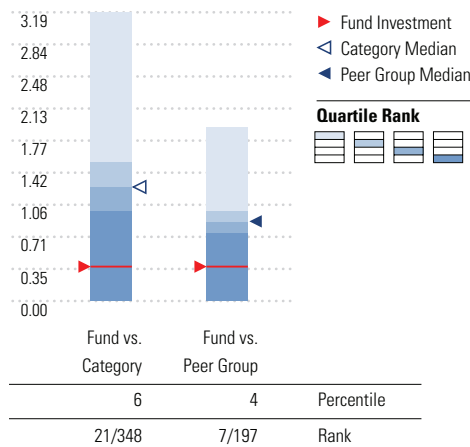
Morningstar Investment Management LLC Analysis

This foreign large value fund fails our style consistency screen owing to its occasional drift into the blend portion of the style box. However, the movement has been minor and the fund still pursues a value-oriented strategy.

Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	-0.31	-	-2.84
Beta	1.01	-	1.02
R-Squared	95.78	-	89.43
Standard Deviation	11.42	11.07	12.01
Sharpe Ratio	0.44	0.48	0.22
Tracking Error	2.35	-	3.87
Information Ratio	-0.13	-	-0.81
Up Capture Ratio	98.90	-	92.25
Down Capture Ratio	100.54	-	110.17

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	14.20	15.97	12.56
Price/Book Ratio	1.38	1.56	1.14
Geom Avg Mkt Cap \$B	38.31	35.74	29.23
ROE	14.88	16.29	13.76

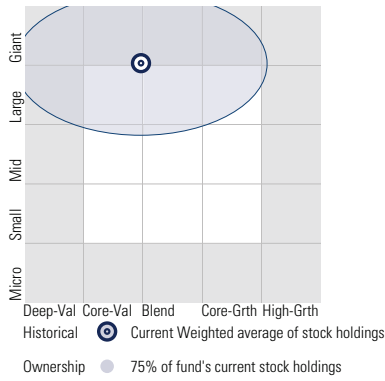
Vanguard International Value Inv VTRIX

Morningstar Category
Foreign Large Value

Morningstar Index
MSCI EAFE NR USD

Style Analysis as of 09-30-2019

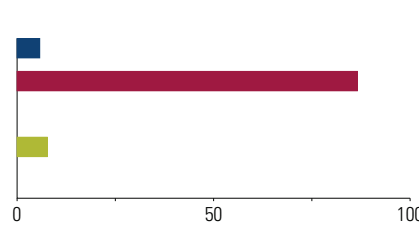
Morningstar Style Box™



Style Breakdown

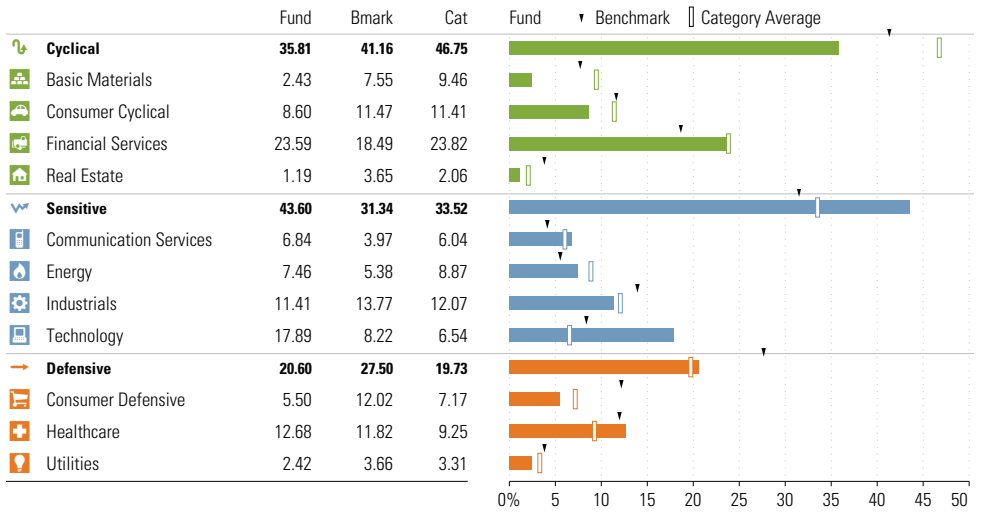


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	5.75	3.39
Non-US Stocks	86.58	94.74
Bonds	0.00	-0.07
Cash	7.67	1.88
Other	0.00	0.06
Total	100.00	100.00

Sector Weighting as of 09-30-2019



World Regions % Equity 09-30-2019



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	35.20	32.27	Americas	8.73	7.72	Greater Europe	56.06	60.03	Developed Markets	88.27
Japan	16.46	17.75	North America	7.20	6.97	United Kingdom	15.42	20.15	Emerging Markets	11.73
Australasia	0.86	3.48	Central/Latin	1.53	0.75	W euro-ex UK	38.72	38.72	Not Available	0.00
Asia-4 Tigers	9.61	7.05				Emrgng Europe	0.46	0.64		
Asia-ex 4 Tigers	8.27	3.99				Africa	1.46	0.52		
Not Classified	0.00	0.00								

Top 10 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Market Liquidity Inv	7.56	7.56	—	—
⊕ Novartis AG	2.35	9.91	11.61	Healthcare
⊕ Royal Dutch Shell PLC Class A	2.20	12.10	3.81	Energy
⊕ Sanofi SA	2.17	14.27	17.56	Healthcare
Roche Holding AG Dividend Right Cert.	1.74	16.01	22.90	Healthcare
⊕ Samsung Electronics Co Ltd	1.64	17.65	—	Technology
⊕ DBS Group Holdings Ltd	1.50	19.15	15.05	Financial Services
⊕ SAP SE	1.41	20.55	25.06	Technology
⊕ Sumitomo Mitsui Financial Group Inc	1.36	21.91	8.84	Financial Services
AstraZeneca PLC	1.32	23.23	32.30	Healthcare

Total Holdings 152

⊕ Increase ⊖ Decrease ✱ New to Portfolio

Vanguard Real Estate Index Admiral VGSLX

Morningstar Category
Real Estate

Morningstar Index
S&P United States REIT TR USD

Portfolio Manager(s)

Gerard O'Reilly since 05-1996

Walter Nejman since 05-2016

Quantitative Screens

✔ **Performance:** The fund has finished in the Real Estate category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 23.4 years.

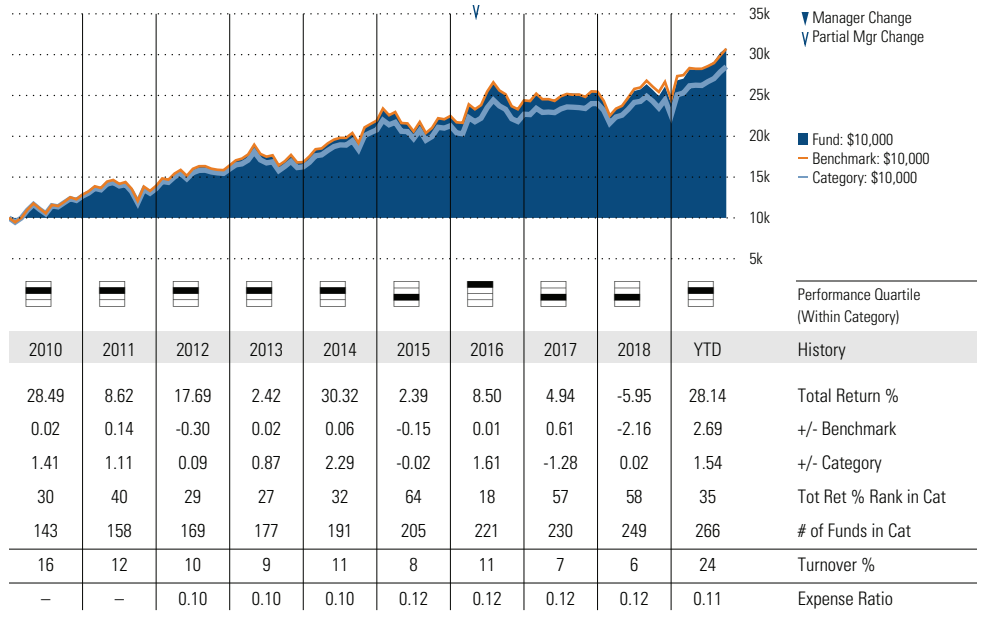
✔ **Style:** The fund has landed in its primary style box — Mid-Cap Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.11 is 90.35% lower than the Real Estate category average.

Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

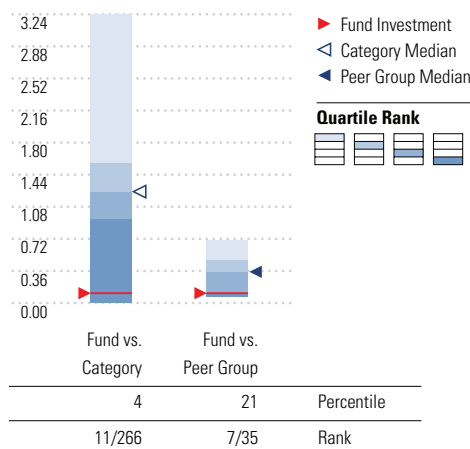
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.25	-	0.79
Beta	0.98	-	0.91
R-Squared	98.94	-	92.22
Standard Deviation	12.87	13.01	12.33
Sharpe Ratio	0.47	0.46	0.50
Tracking Error	1.34	-	3.34
Information Ratio	0.11	-	-0.03
Up Capture Ratio	98.74	-	90.64
Down Capture Ratio	97.09	-	85.00

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	31.16	38.46	29.22
Price/Book Ratio	2.75	2.42	2.79
Geom Avg Mkt Cap \$B	16.21	9.35	18.68
ROE	12.99	9.56	13.54

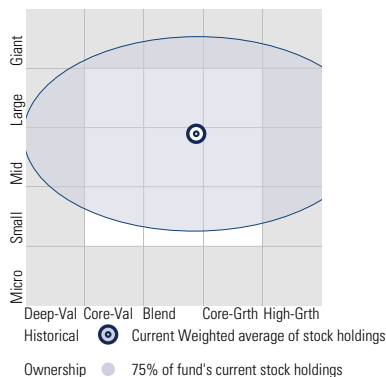
Vanguard Real Estate Index Admiral VGSLX

Morningstar Category
Real Estate

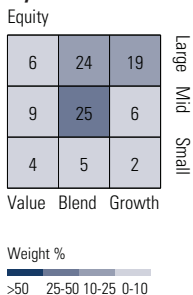
Morningstar Index
S&P United States REIT TR USD

Style Analysis as of 09-30-2019

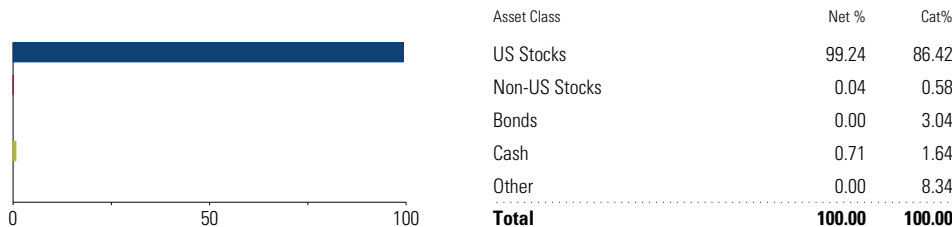
Morningstar Style Box™



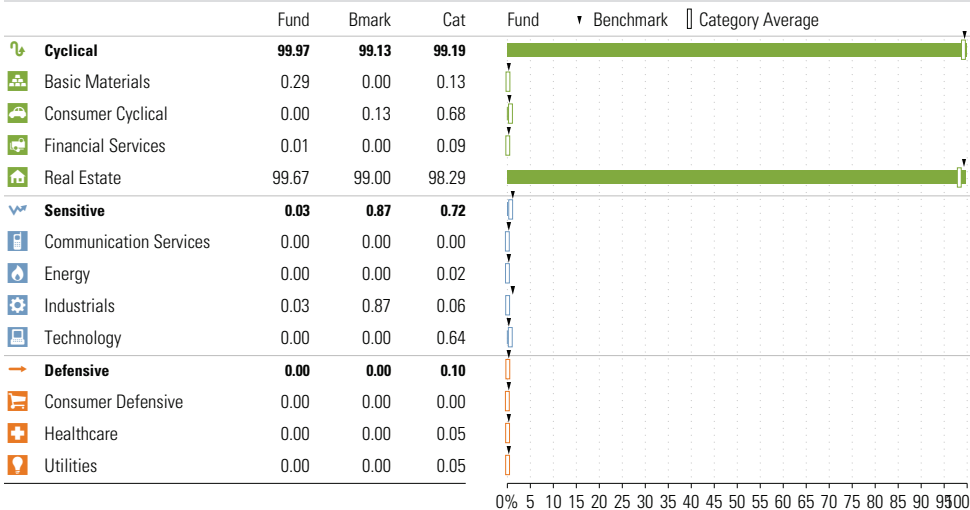
Style Breakdown



Asset Allocation as of 09-30-2019



Sector Weighting as of 09-30-2019



Top 15 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Real Estate II Index	11.09	11.09	-	-
⊕ American Tower Corp	6.83	17.92	41.54	Real Estate
⊕ Crown Castle International Corp	4.04	21.96	31.07	Real Estate
⊕ Prologis Inc	3.76	25.72	47.84	Real Estate
⊕ Equinix Inc	3.39	29.11	65.70	Real Estate
⊕ Simon Property Group Inc	3.36	32.47	-3.65	Real Estate
⊕ Public Storage	2.69	35.16	24.14	Real Estate
⊕ Welltower Inc	2.57	37.73	34.36	Real Estate
⊕ Equity Residential	2.23	39.96	33.26	Real Estate
⊕ AvalonBay Communities Inc	2.10	42.06	26.34	Real Estate
⊕ SBA Communications Corp	1.91	43.97	49.19	Real Estate
⊕ Digital Realty Trust Inc	1.85	45.81	24.87	Real Estate
⊕ Ventas Inc	1.83	47.64	28.70	Real Estate
⊕ Realty Income Corp	1.70	49.34	24.87	Real Estate
⊕ Essex Property Trust Inc	1.50	50.84	35.60	Real Estate

Total Holdings 185

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Small Cap Growth Index Admiral VSGAX

Morningstar Category
Small Growth

Morningstar Index
Russell 2000 Growth TR USD

Portfolio Manager(s)

Gerard O'Reilly since 12-2004
William Coleman since 04-2016

Quantitative Screens

✔ **Performance:** The fund has finished in the Small Growth category's top three quartiles in 8 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 14.76 years.

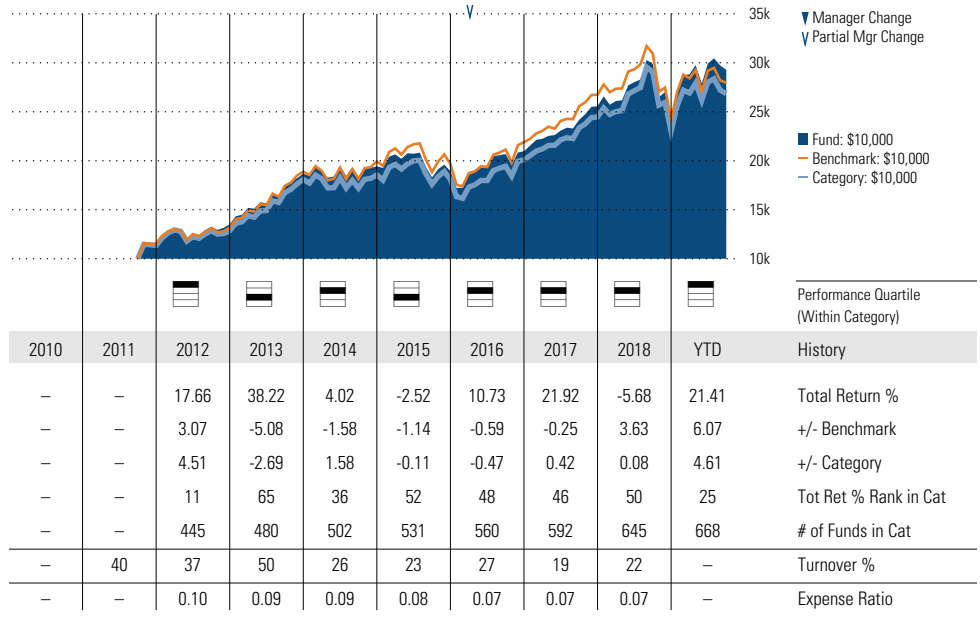
✘ **Style:** The fund has landed in its primary style box — Small Growth — 45.71 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.07 is 94.26% lower than the Small Growth category average.

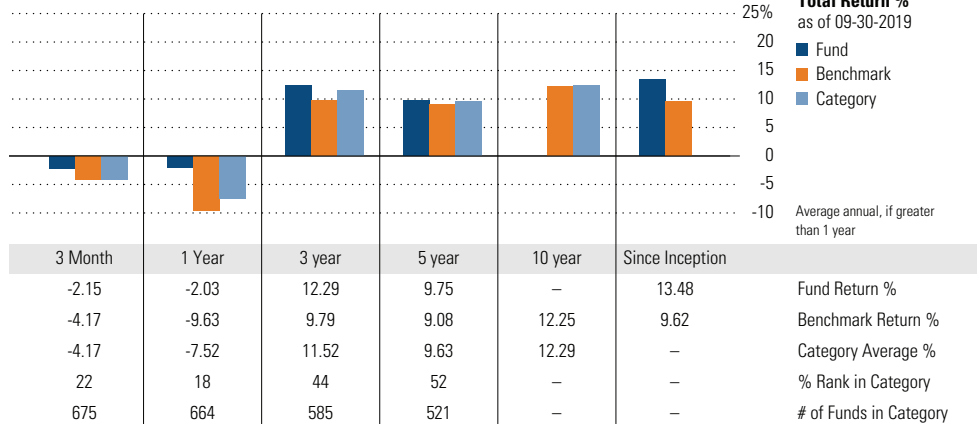
Morningstar Investment Management LLC Analysis

This fund fails our style screen but its portfolio positioning remains consistent with the benchmark index it tracks.

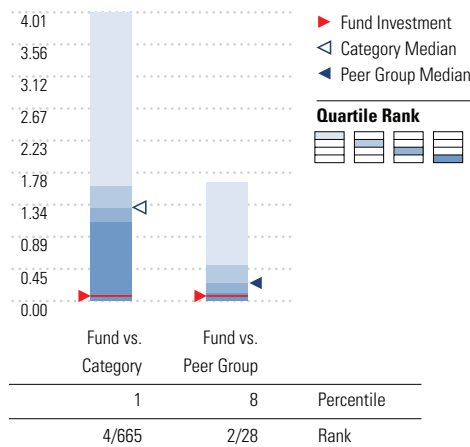
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	3.05	-	2.42
Beta	0.91	-	0.94
R-Squared	96.93	-	91.43
Standard Deviation	16.07	17.47	17.30
Sharpe Ratio	0.70	0.53	0.64
Tracking Error	3.27	-	5.10
Information Ratio	0.76	-	0.38
Up Capture Ratio	96.90	-	99.42
Down Capture Ratio	82.95	-	88.96

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	26.53	23.13	27.02
Price/Book Ratio	3.43	3.83	4.13
Geom Avg Mkt Cap \$B	4.58	2.03	3.72
ROE	9.97	6.01	7.16

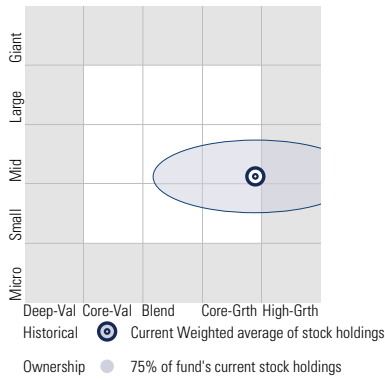
Vanguard Small Cap Growth Index Admiral VSGAX

Morningstar Category
Small Growth

Morningstar Index
Russell 2000 Growth TR USD

Style Analysis as of 09-30-2019

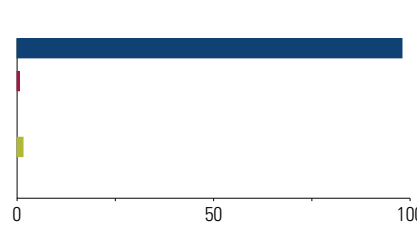
Morningstar Style Box™



Style Breakdown

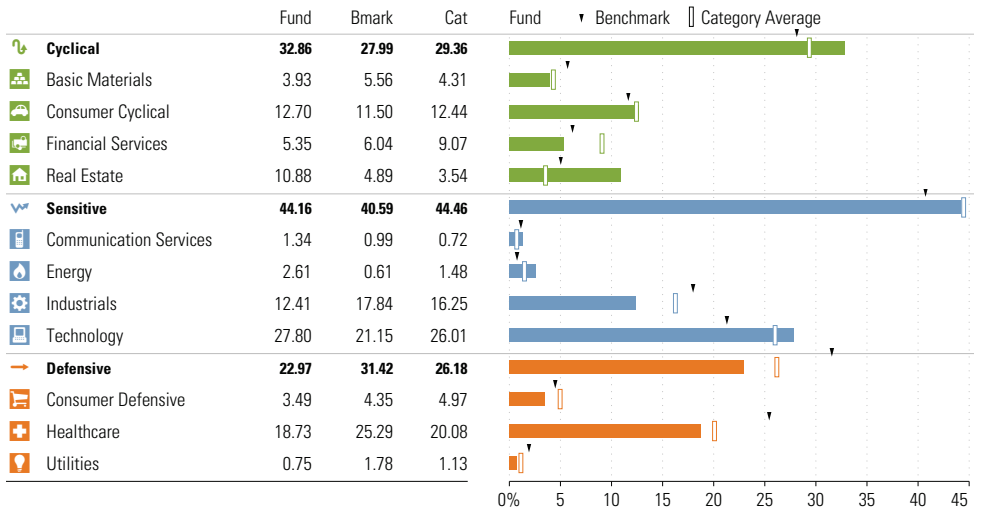


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	97.93	93.72
Non-US Stocks	0.56	3.23
Bonds	0.00	0.00
Cash	1.51	2.80
Other	0.00	0.25
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 15 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Cmt Market Liquidity Rate	1.48	1.48	—	—
⊕ Burlington Stores Inc	0.82	2.30	22.84	Consumer Defensive
⊕ Teledyne Technologies Inc	0.72	3.02	55.50	Technology
⊕ Zebra Technologies Corp	0.69	3.71	29.60	Technology
⊕ Equity Lifestyle Properties Inc	0.67	4.38	39.44	Real Estate
⊕ West Pharmaceutical Services Inc	0.64	5.03	45.13	Healthcare
⊕ Tyler Technologies Inc	0.62	5.65	41.27	Technology
⊕ Insulet Corp	0.61	6.26	107.93	Healthcare
⊕ EPAM Systems Inc	0.59	6.85	57.16	Technology
⊕ RingCentral Inc Class A	0.56	7.40	52.43	Technology
⊕ CyrusOne Inc	0.55	7.96	52.27	Real Estate
⊕ Lennox International Inc	0.55	8.51	12.01	Industrials
⊕ Bright Horizons Family Solutions Inc	0.55	9.05	36.83	Consumer Cyclical
⊕ WEX Inc	0.54	9.59	44.27	Technology
⊕ Guidewire Software Inc	0.53	10.12	31.35	Technology

Total Holdings 625

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Small Cap Value Index Admiral VSIAX

Morningstar Category
Small Value

Morningstar Index
Russell 2000 Value TR USD

Portfolio Manager(s)

Gerard O'Reilly since 04-2016
William Coleman since 04-2016

Quantitative Screens

✔ **Performance:** The fund has finished in the Small Value category's top three quartiles in 8 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 3.43 years.

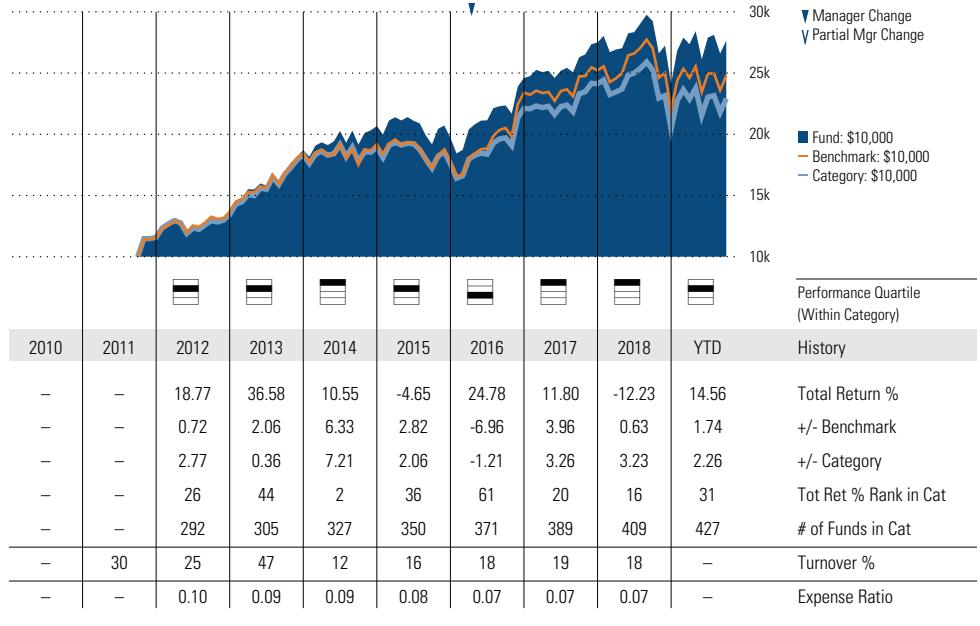
✘ **Style:** The fund has landed in its primary style box — Small Value — 57.14 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.07 is 94.12% lower than the Small Value category average.

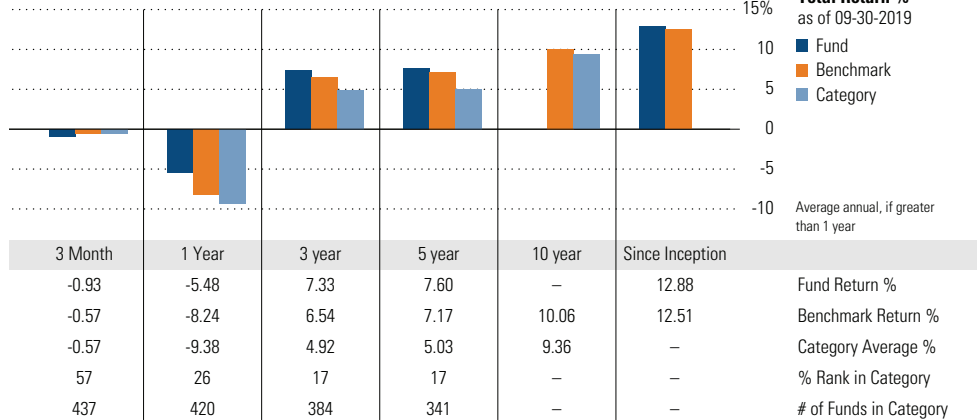
Morningstar Investment Management LLC Analysis

This fund fails our style screen but its portfolio positioning remains consistent with the benchmark index it tracks.

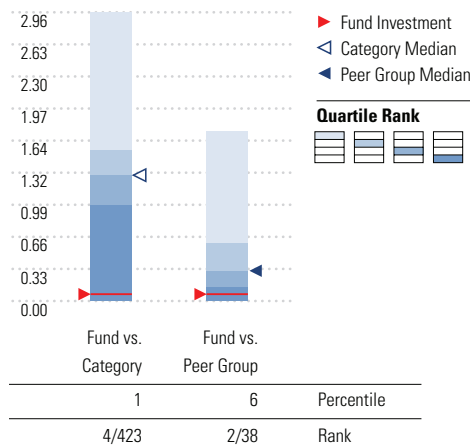
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	1.30	-	-0.99
Beta	0.90	-	0.99
R-Squared	96.92	-	94.06
Standard Deviation	16.12	17.67	17.95
Sharpe Ratio	0.42	0.35	0.29
Tracking Error	3.36	-	4.40
Information Ratio	0.23	-	-0.30
Up Capture Ratio	92.45	-	95.42
Down Capture Ratio	86.65	-	100.00

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	14.48	13.72	15.37
Price/Book Ratio	1.64	1.28	1.47
Geom Avg Mkt Cap \$B	3.68	1.55	2.70
ROE	13.15	6.79	9.76

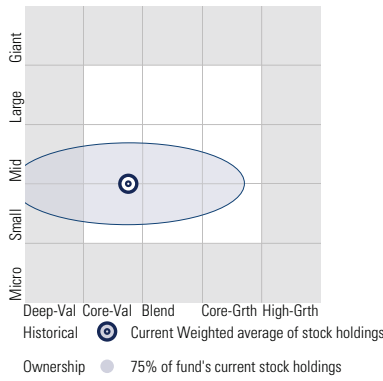
Vanguard Small Cap Value Index Admiral VSIAX

Morningstar Category
Small Value

Morningstar Index
Russell 2000 Value TR USD

Style Analysis as of 09-30-2019

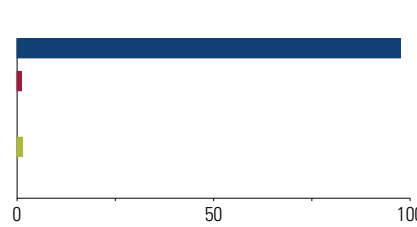
Morningstar Style Box™



Style Breakdown

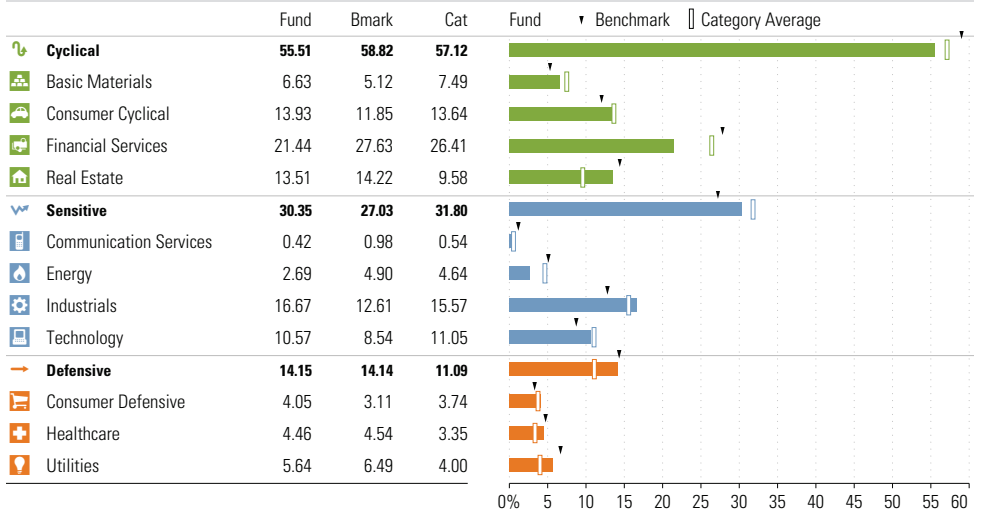


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	97.51	95.39
Non-US Stocks	1.10	2.10
Bonds	0.00	-0.03
Cash	1.39	2.43
Other	0.00	0.11
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 15 Holdings as of 09-30-2019

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Cmt Market Liquidity Rate	1.36	1.36	-	-
⊖ Atmos Energy Corp	0.67	2.03	24.53	Utilities
⊖ IDEX Corp	0.62	2.66	30.93	Industrials
⊖ Leidos Holdings Inc	0.62	3.27	64.76	Technology
⊕ UGI Corp	0.53	3.80	-4.11	Utilities
⊕ Booz Allen Hamilton Holding Corp Class A	0.50	4.30	59.11	Industrials
⊖ Teradyne Inc	0.49	4.79	85.40	Technology
⊖ Allegion PLC	0.49	5.28	31.05	Industrials
⊖ Aqua America Inc	0.48	5.76	33.09	Utilities
⊕ National Retail Properties Inc	0.48	6.24	19.39	Real Estate
⊖ PerkinElmer Inc	0.47	6.72	8.70	Healthcare
⊖ US Foods Holding Corp	0.45	7.17	29.90	Consumer Defensive
⊕ VICI Properties Inc Ordinary Shares	0.45	7.62	25.25	Real Estate
⊖ RPM International Inc	0.45	8.07	18.85	Basic Materials
⊕ Medical Properties Trust Inc	0.44	8.50	26.37	Real Estate

Total Holdings 862

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement 2015 Inv VTXVX

Morningstar Category
Target-Date 2015

Morningstar Index
Morningstar Lifetime Mod 2015 TR USD

Portfolio Manager(s)

Walter Nejman since 02-2013
William Coleman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2015 category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

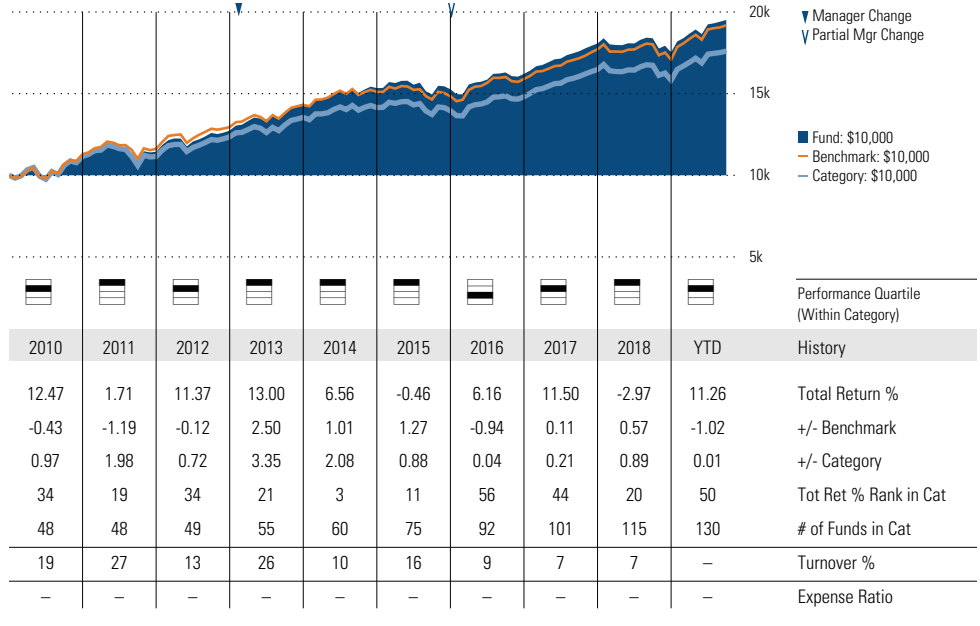
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.13 is 80.6% lower than the Target-Date 2015 category average.

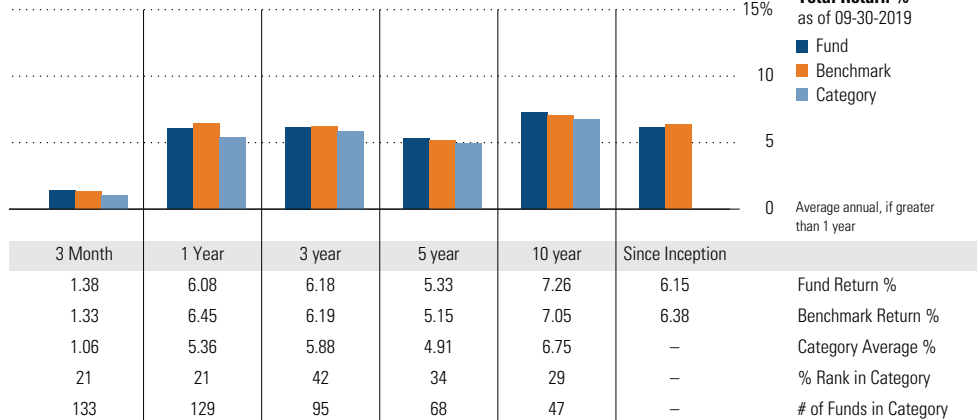
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

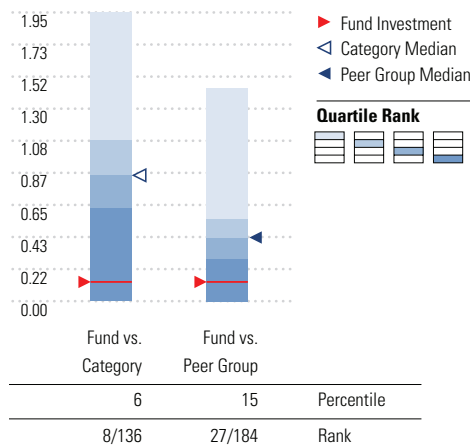
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.61	-	-0.19
Beta	0.90	-	0.97
R-Squared	98.91	-	95.51
Standard Deviation	4.71	5.23	5.21
Sharpe Ratio	0.96	0.87	0.80
Tracking Error	0.74	-	1.16
Information Ratio	-0.01	-	-0.27
Up Capture Ratio	94.83	-	95.13
Down Capture Ratio	87.78	-	96.58

Portfolio Metrics

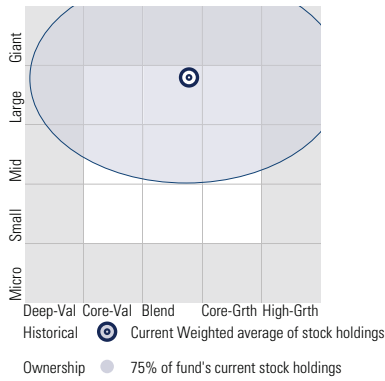
	Fund	Bmark	Cat
Price/Earnings Ratio	17.60	17.69	18.05
Price/Book Ratio	2.17	2.14	2.28
Avg Eff Duration	5.99	-	4.51

Vanguard Target Retirement 2015 Inv VTXVX

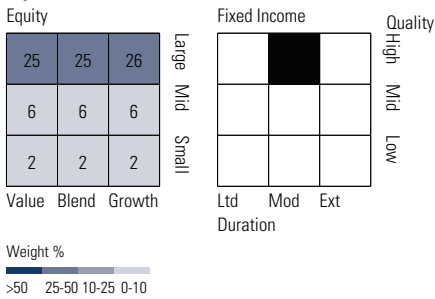
Morningstar Category
Target-Date 2015

Morningstar Index
Morningstar Lifetime Mod 2015 TR USD

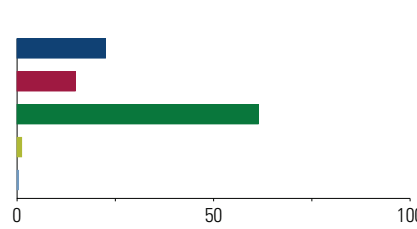
Style Analysis as of 09-30-2019
Morningstar Style Box™



Style Breakdown

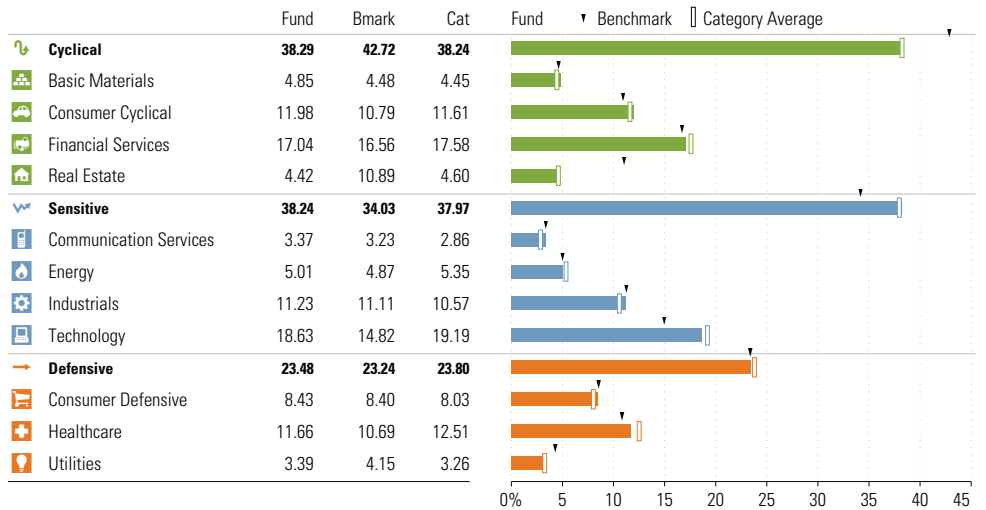


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	22.47	25.80
Non-US Stocks	14.77	14.69
Bonds	61.33	51.70
Cash	1.14	5.95
Other	0.30	1.86
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 6 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Bond Market II Idx Inv	-	34.07	34.07	-	-
⊖ Vanguard Total Stock Mkt Idx Inv	-	22.67	56.74	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	15.16	71.90	-	-
⊕ Vanguard Total Intl Bd Idx Investor	-	15.05	86.95	-	-
⊕ Vanguard Shrt-Term Infl-Prot Sec Idx Inv	-	13.05	100.00	-	-
⊖ Cmt Market Liquidity Rate	-	0.00	100.00	-	-

Total Holdings 6

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement 2020 Inv VTWNX

Morningstar Category
Target-Date 2020

Morningstar Index
Morningstar Lifetime Mod 2020 TR USD

Portfolio Manager(s)

Walter Nejman since 02-2013
William Coleman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2020 category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

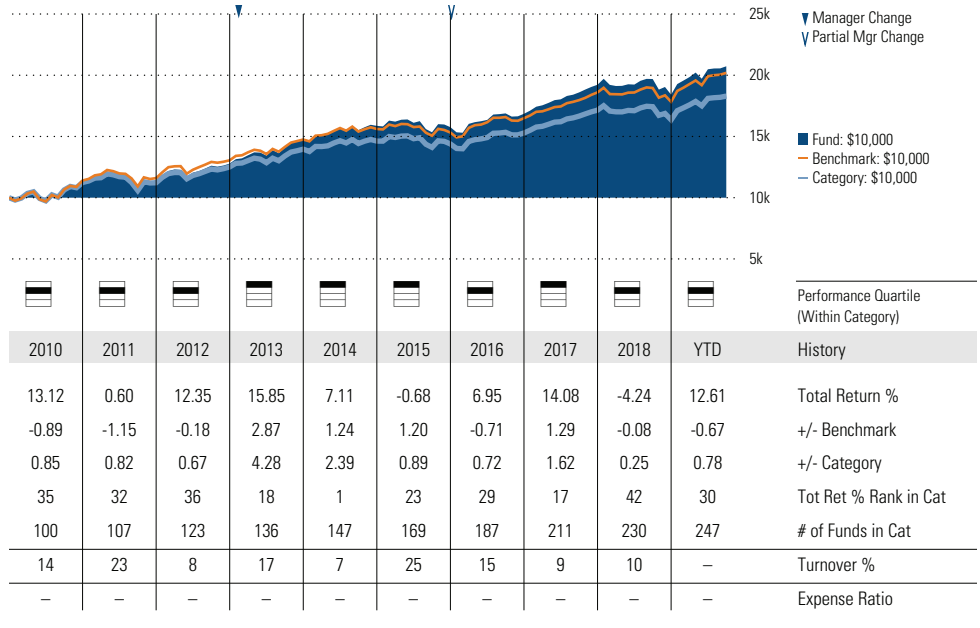
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.13 is 82.67% lower than the Target-Date 2020 category average.

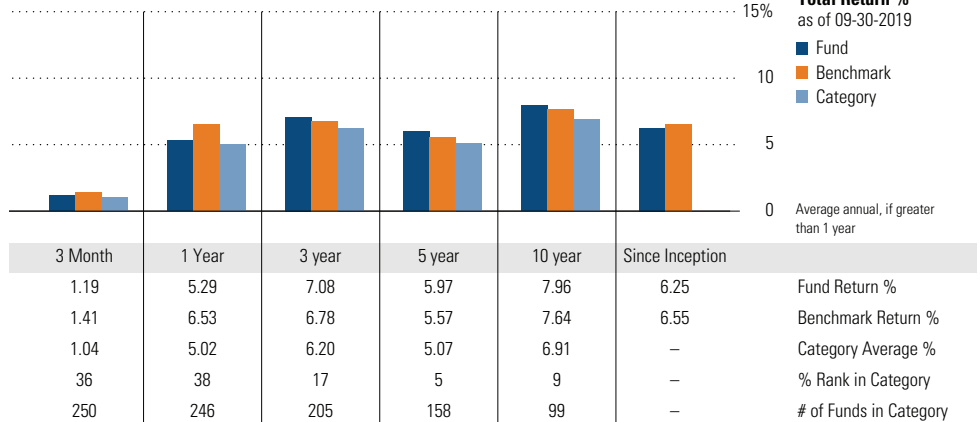
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

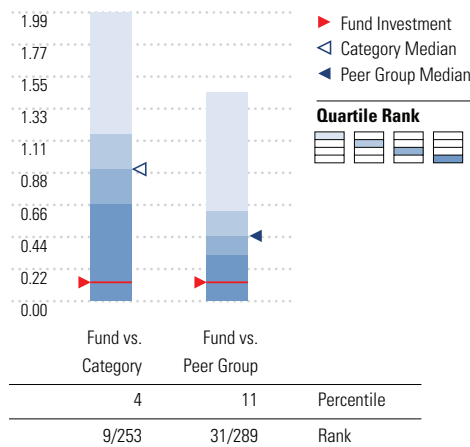
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.07	-	-0.25
Beta	1.03	-	0.92
R-Squared	98.23	-	93.65
Standard Deviation	6.10	5.85	5.53
Sharpe Ratio	0.89	0.88	0.78
Tracking Error	0.84	-	1.51
Information Ratio	0.36	-	-0.46
Up Capture Ratio	104.52	-	90.01
Down Capture Ratio	104.72	-	92.76

Portfolio Metrics

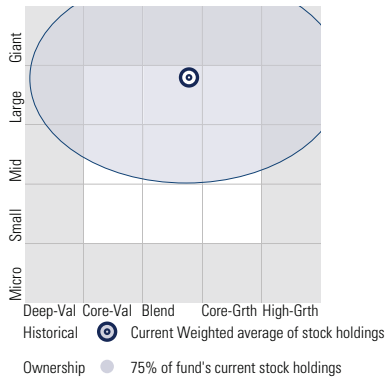
	Fund	Bmark	Cat
Price/Earnings Ratio	17.59	17.58	18.38
Price/Book Ratio	2.17	2.12	2.35
Avg Eff Duration	6.31	-	6.22

Vanguard Target Retirement 2020 Inv VTWNX

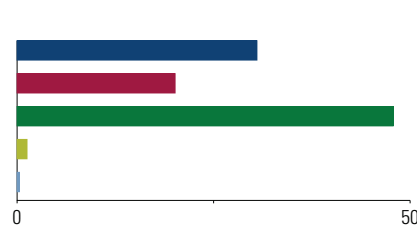
Morningstar Category
Target-Date 2020

Morningstar Index
Morningstar Lifetime Mod 2020 TR USD

Style Analysis as of 09-30-2019
Morningstar Style Box™

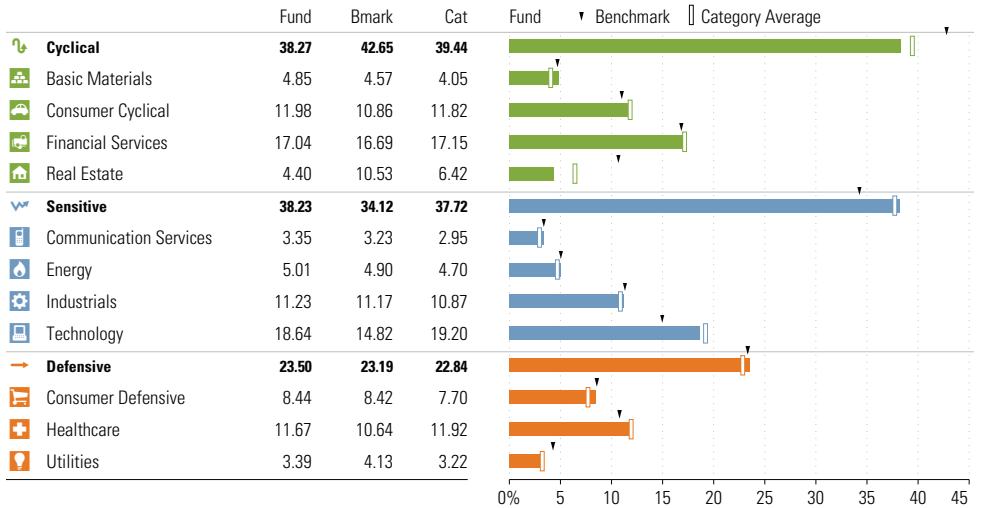


Asset Allocation as of 09-30-2019

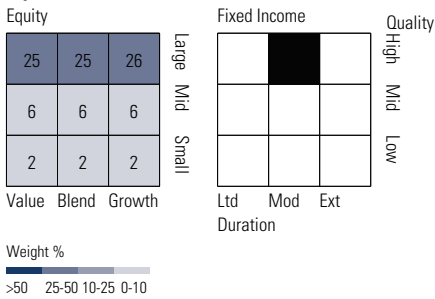


Asset Class	Net %	Cat%
US Stocks	30.51	27.74
Non-US Stocks	20.10	12.68
Bonds	47.84	52.55
Cash	1.26	4.57
Other	0.29	2.47
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Style Breakdown



Top 6 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Inv	-	30.78	30.78	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	29.19	59.97	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	20.63	80.60	-	-
⊕ Vanguard Total Intl Bd Idx Investor	-	12.83	93.44	-	-
⊖ Vanguard Shrt-Term Infl-Prot Sec Idx Inv	-	6.54	99.98	-	-
⊕ Cmt Market Liquidity Rate	-	0.02	100.00	-	-

Total Holdings 6

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement 2025 Inv VTTVX

Morningstar Category
Target-Date 2025

Morningstar Index
Morningstar Lifetime Mod 2025 TR USD

Portfolio Manager(s)

William Coleman since 02-2013
Walter Nejman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2025 category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

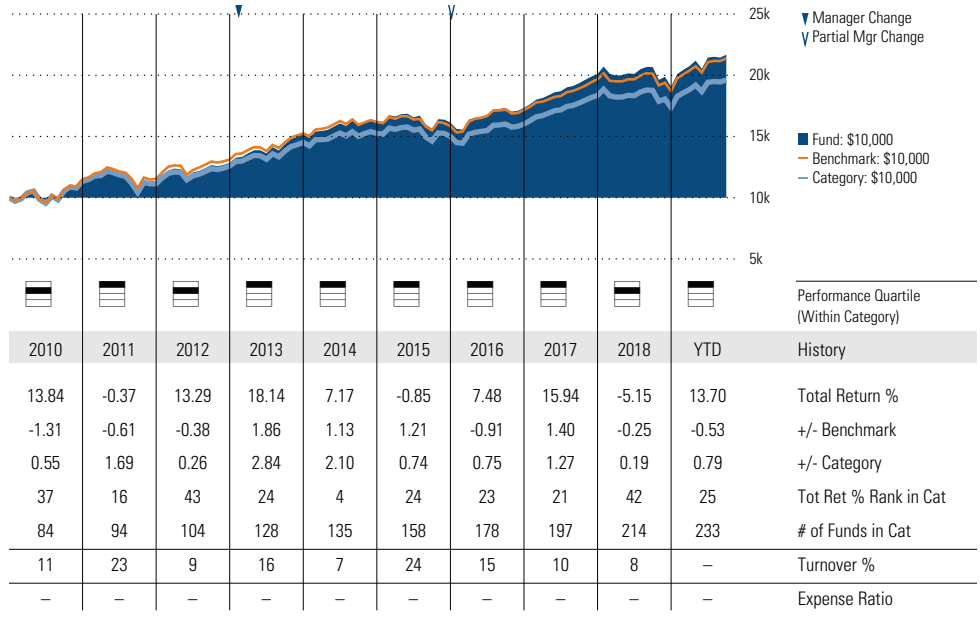
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.13 is 82.43% lower than the Target-Date 2025 category average.

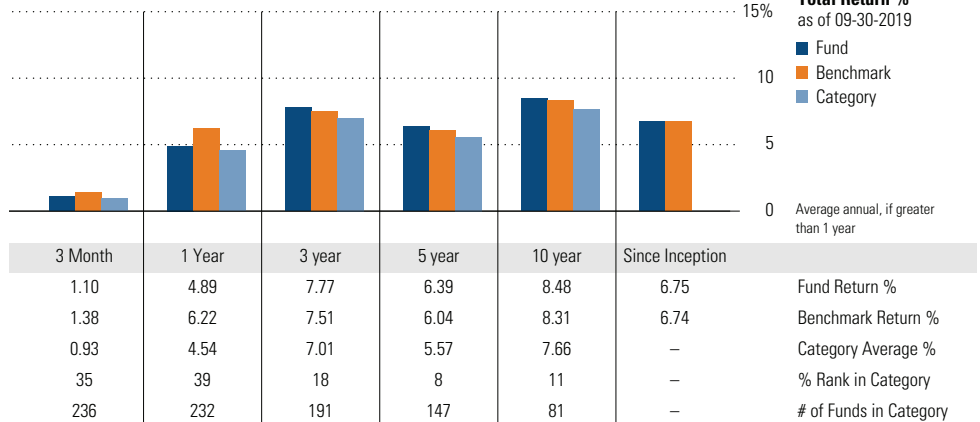
Morningstar Investment Management LLC Analysis

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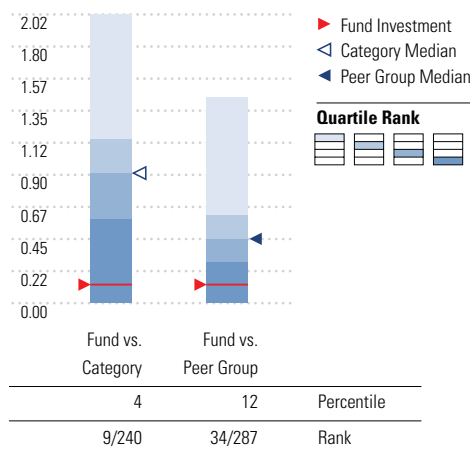
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.18	-	-0.47
Beta	1.06	-	0.99
R-Squared	98.59	-	96.65
Standard Deviation	7.13	6.67	6.69
Sharpe Ratio	0.86	0.88	0.79
Tracking Error	0.94	-	1.36
Information Ratio	0.27	-	-0.45
Up Capture Ratio	106.71	-	96.48
Down Capture Ratio	110.99	-	102.40

Portfolio Metrics

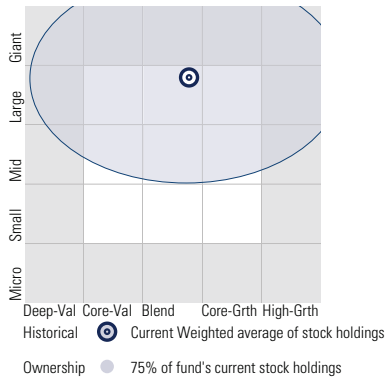
	Fund	Bmark	Cat
Price/Earnings Ratio	17.60	17.46	18.20
Price/Book Ratio	2.17	2.09	2.30
Avg Eff Duration	6.86	-	6.28

Vanguard Target Retirement 2025 Inv VTTVX

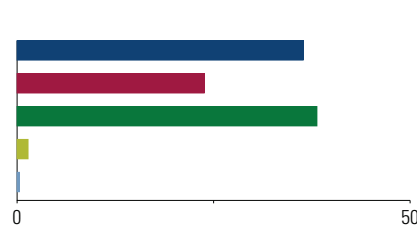
Morningstar Category
Target-Date 2025

Morningstar Index
Morningstar Lifetime Mod 2025 TR USD

Style Analysis as of 09-30-2019
Morningstar Style Box™

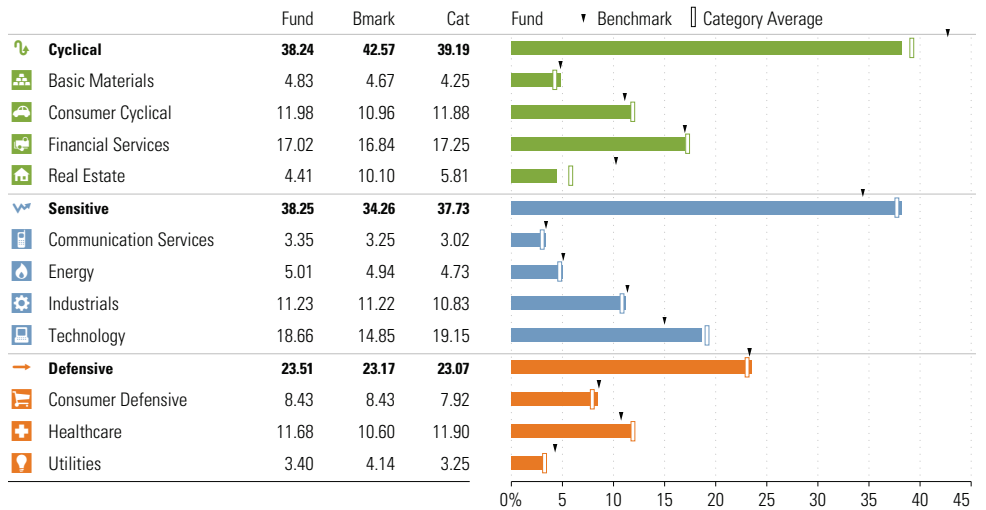


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	36.39	34.59
Non-US Stocks	23.80	17.91
Bonds	38.14	40.17
Cash	1.39	3.56
Other	0.29	3.78
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Style Breakdown



Top 5 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Inv	-	36.71	36.71	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	27.25	63.96	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	24.43	88.39	-	-
⊕ Vanguard Total Intl Bd Idx Investor	-	11.56	99.95	-	-
⊕ Cmt Market Liquidity Rate	-	0.05	100.00	-	-

Total Holdings 5

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement 2030 Inv VTHRX

Morningstar Category
Target-Date 2030

Morningstar Index
Morningstar Lifetime Mod 2030 TR USD

Portfolio Manager(s)

William Coleman since 02-2013
Walter Nejman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2030 category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

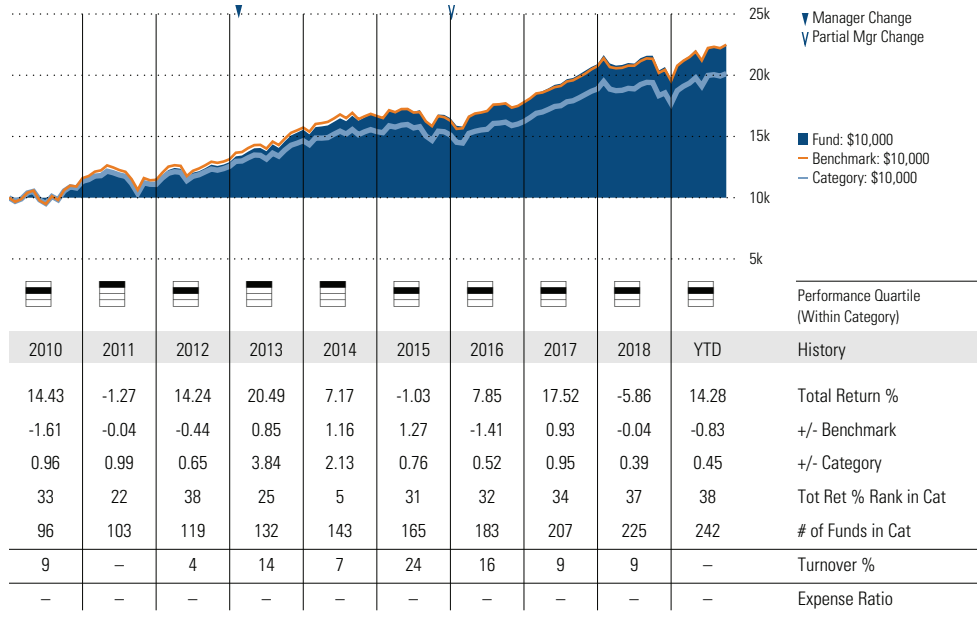
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.14 is 82.05% lower than the Target-Date 2030 category average.

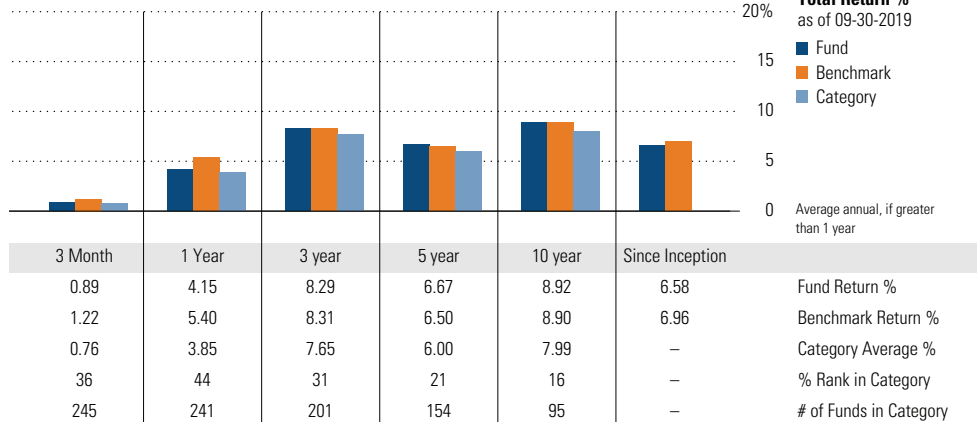
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

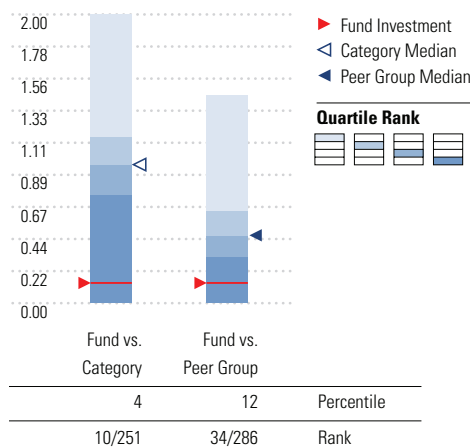
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.19	-	-0.62
Beta	1.02	-	0.98
R-Squared	99.08	-	96.14
Standard Deviation	7.98	7.77	7.78
Sharpe Ratio	0.84	0.86	0.76
Tracking Error	0.78	-	1.48
Information Ratio	-0.03	-	-0.50
Up Capture Ratio	102.41	-	95.88
Down Capture Ratio	105.51	-	102.42

Portfolio Metrics

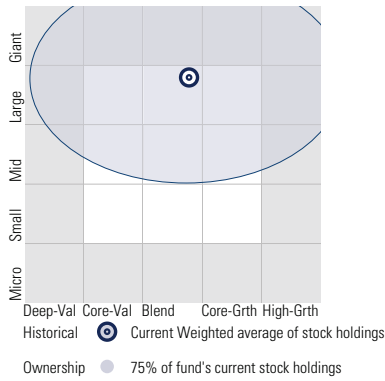
	Fund	Bmark	Cat
Price/Earnings Ratio	17.61	17.33	18.10
Price/Book Ratio	2.17	2.07	2.27
Avg Eff Duration	6.86	-	6.38

Vanguard Target Retirement 2030 Inv VTHR

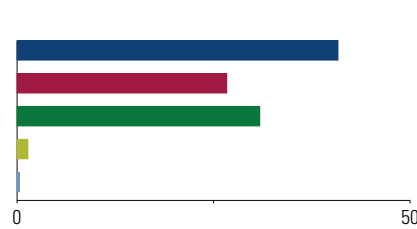
Morningstar Category
Target-Date 2030

Morningstar Index
Morningstar Lifetime Mod 2030 TR USD

Style Analysis as of 09-30-2019
Morningstar Style Box™

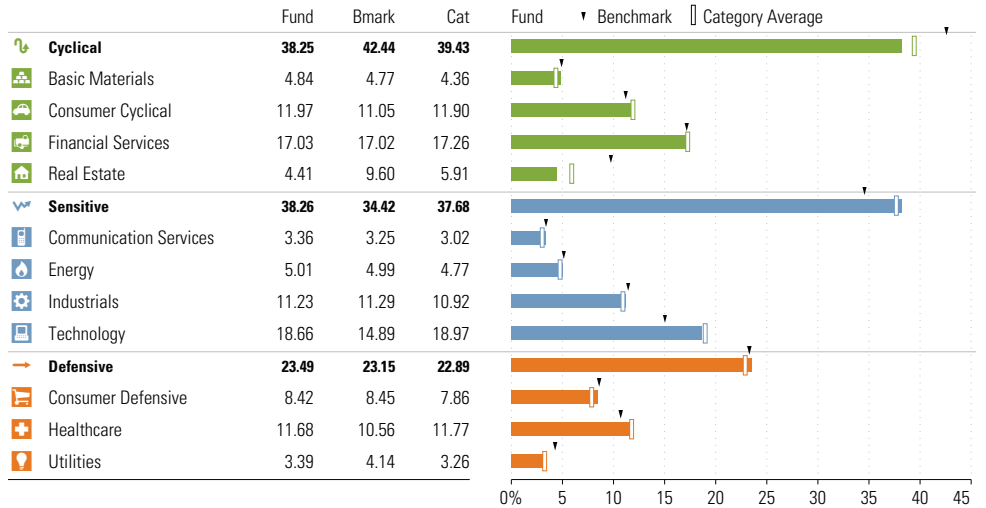


Asset Allocation as of 09-30-2019

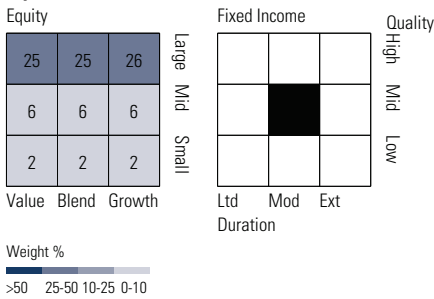


Asset Class	Net %	Cat%
US Stocks	40.82	41.63
Non-US Stocks	26.67	22.54
Bonds	30.87	29.51
Cash	1.37	2.98
Other	0.27	3.35
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Style Breakdown



Top 5 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Inv	-	41.19	41.19	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	27.37	68.56	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	22.07	90.63	-	-
⊕ Vanguard Total Intl Bd Idx Investor	-	9.35	99.98	-	-
⊖ Cmt Market Liquidity Rate	-	0.02	100.00	-	-

Total Holdings 5

⊕ Increase ⊖ Decrease ✱ New to Portfolio

Vanguard Target Retirement 2035 Inv VTTHX

Morningstar Category
Target-Date 2035

Morningstar Index
Morningstar Lifetime Mod 2035 TR USD

Portfolio Manager(s)

Walter Nejman since 02-2013
William Coleman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2035 category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

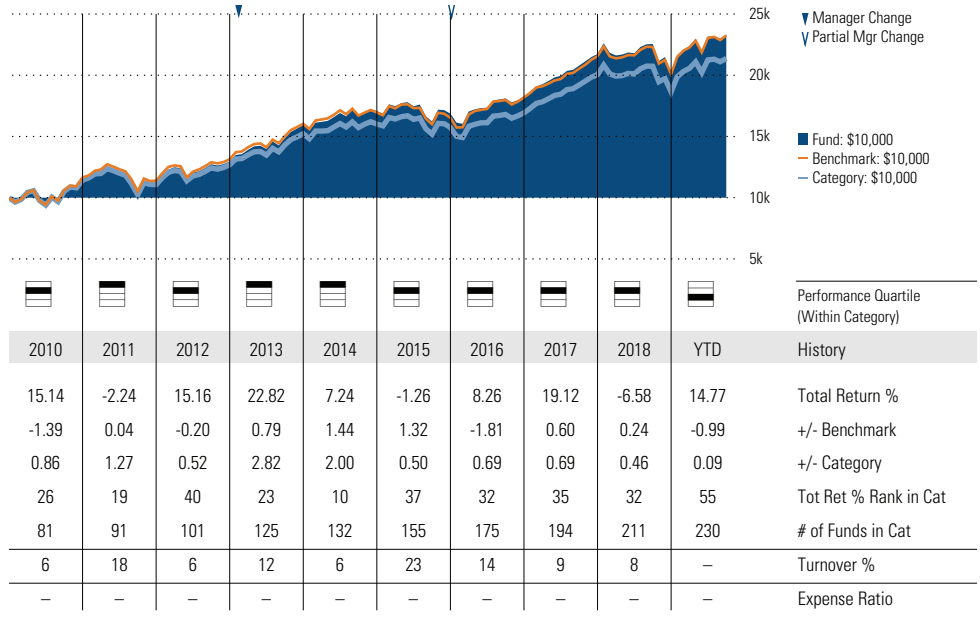
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.14 is 81.82% lower than the Target-Date 2035 category average.

Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

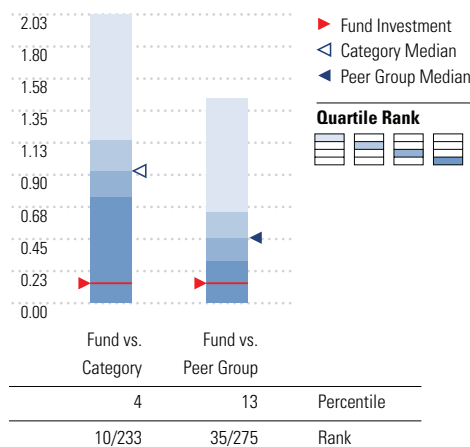
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.02	-	-0.52
Beta	0.98	-	0.99
R-Squared	99.30	-	98.11
Standard Deviation	8.83	8.95	8.90
Sharpe Ratio	0.82	0.82	0.76
Tracking Error	0.75	-	1.32
Information Ratio	-0.23	-	-0.53
Up Capture Ratio	98.84	-	96.38
Down Capture Ratio	99.63	-	100.63

Portfolio Metrics

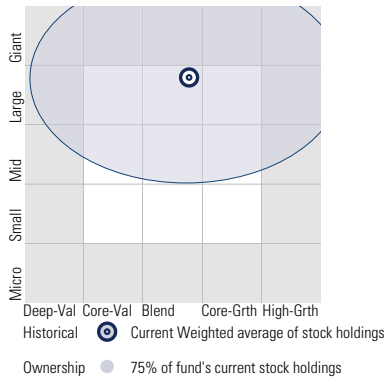
	Fund	Bmark	Cat
Price/Earnings Ratio	17.61	17.21	17.27
Price/Book Ratio	2.17	2.05	2.16
Avg Eff Duration	6.88	-	5.34

Vanguard Target Retirement 2035 Inv VTTHX

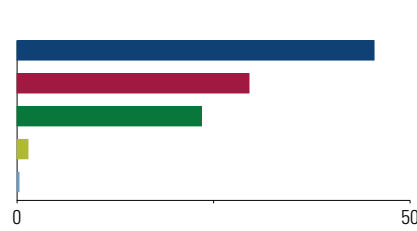
Morningstar Category
Target-Date 2035

Morningstar Index
Morningstar Lifetime Mod 2035 TR USD

Style Analysis as of 09-30-2019
Morningstar Style Box™

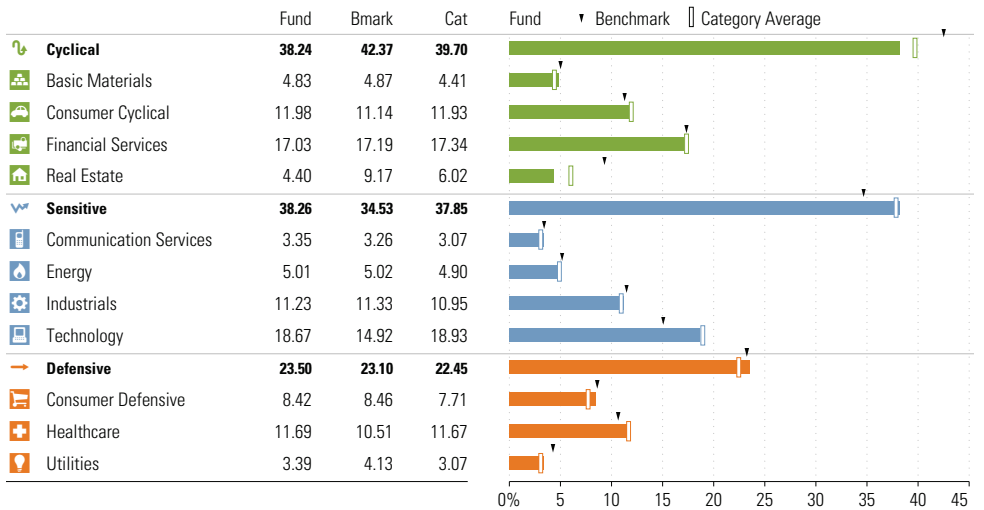


Asset Allocation as of 09-30-2019

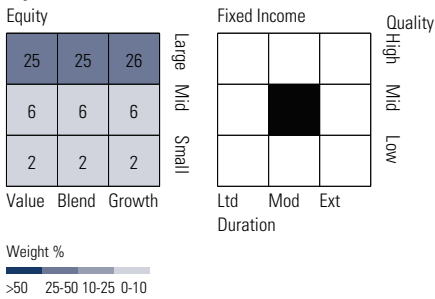


Asset Class	Net %	Cat%
US Stocks	45.41	47.20
Non-US Stocks	29.50	26.19
Bonds	23.46	18.71
Cash	1.38	3.13
Other	0.24	4.77
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Style Breakdown



Top 5 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Inv	-	45.82	45.82	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	30.28	76.10	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	16.63	92.73	-	-
⊕ Vanguard Total Intl Bd Idx Investor	-	7.25	99.97	-	-
⊖ Cmt Market Liquidity Rate	-	0.03	100.00	-	-

Total Holdings 5

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement 2040 Inv VFORX

Morningstar Category
Target-Date 2040

Morningstar Index
Morningstar Lifetime Mod 2040 TR USD

Portfolio Manager(s)

Walter Nejman since 02-2013
William Coleman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2040 category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

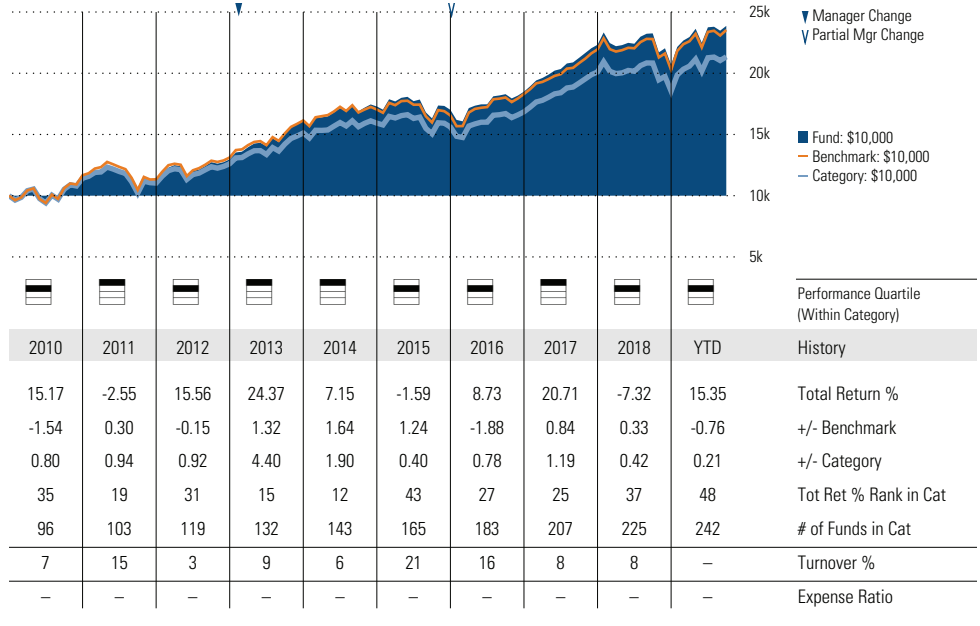
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.14 is 82.5% lower than the Target-Date 2040 category average.

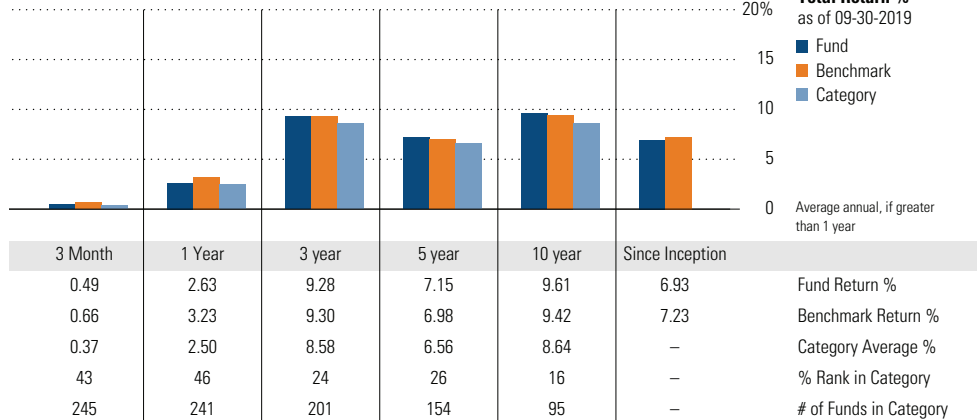
Morningstar Investment Management LLC Analysis

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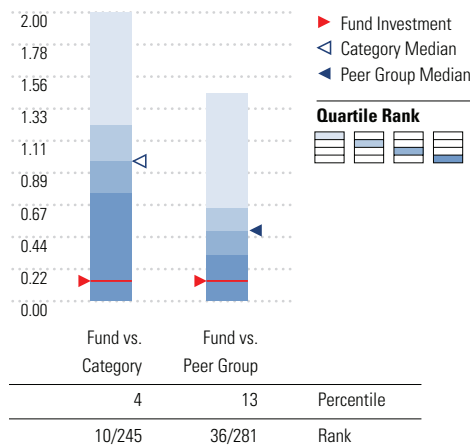
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.14	-	-0.43
Beta	0.98	-	0.96
R-Squared	99.33	-	96.58
Standard Deviation	9.71	9.87	9.57
Sharpe Ratio	0.80	0.79	0.72
Tracking Error	0.82	-	1.57
Information Ratio	-0.03	-	-0.53
Up Capture Ratio	99.13	-	93.86
Down Capture Ratio	98.54	-	97.01

Portfolio Metrics

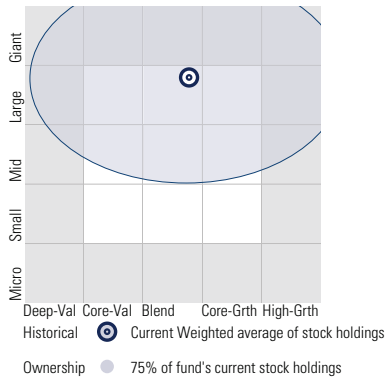
	Fund	Bmark	Cat
Price/Earnings Ratio	17.61	17.11	18.01
Price/Book Ratio	2.17	2.03	2.25
Avg Eff Duration	6.87	-	6.43

Vanguard Target Retirement 2040 Inv VFORX

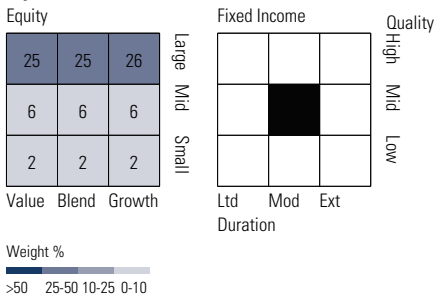
Morningstar Category
Target-Date 2040

Morningstar Index
Morningstar Lifetime Mod 2040 TR USD

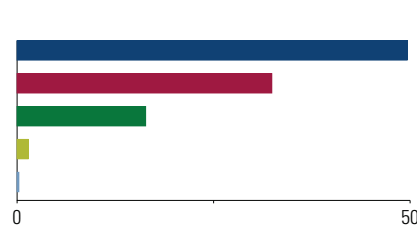
Style Analysis as of 09-30-2019
Morningstar Style Box™



Style Breakdown

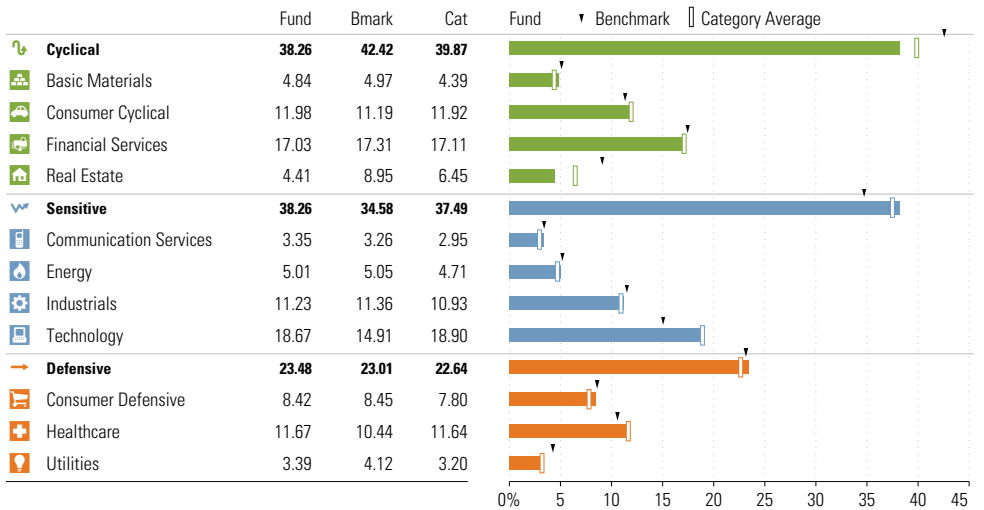


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	49.62	52.14
Non-US Stocks	32.40	29.49
Bonds	16.35	12.45
Cash	1.40	2.74
Other	0.22	3.17
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 5 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Inv	-	50.06	50.06	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	33.26	83.32	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	11.68	95.00	-	-
⊕ Vanguard Total Intl Bd Idx Investor	-	4.97	99.97	-	-
⊕ Cmt Market Liquidity Rate	-	0.03	100.00	-	-

Total Holdings 5

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement 2045 Inv VTIVX

Morningstar Category
Target-Date 2045

Morningstar Index
Morningstar Lifetime Mod 2045 TR USD

Portfolio Manager(s)

Walter Nejman since 02-2013
William Coleman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2045 category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

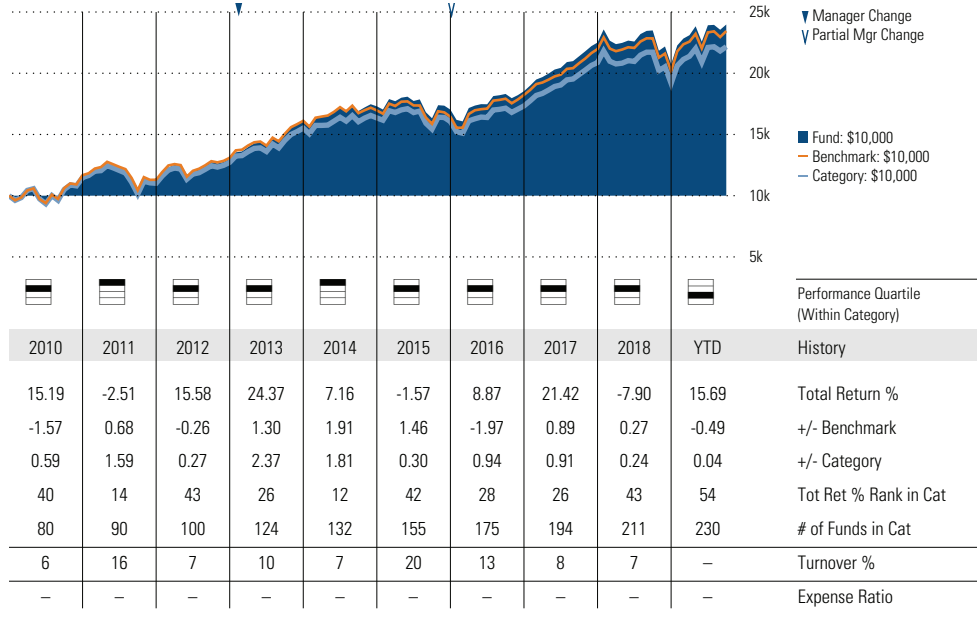
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.15 is 80.77% lower than the Target-Date 2045 category average.

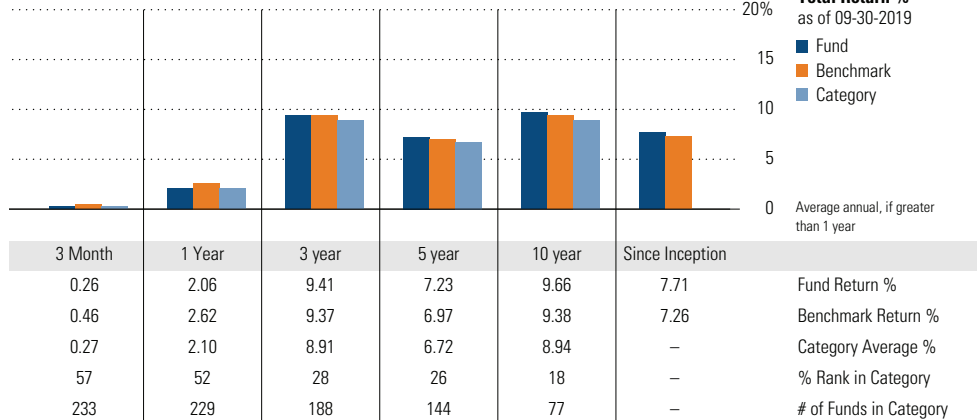
Morningstar Investment Management LLC Analysis

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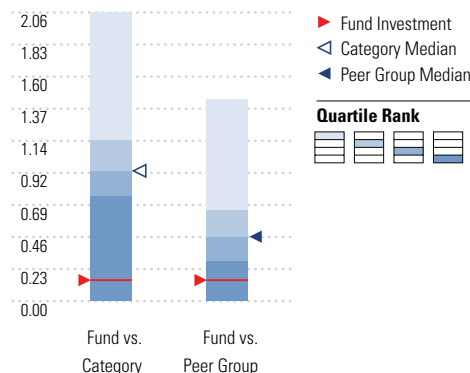
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.08	-	-0.33
Beta	1.00	-	0.98
R-Squared	99.37	-	98.35
Standard Deviation	10.31	10.33	10.19
Sharpe Ratio	0.77	0.76	0.72
Tracking Error	0.82	-	1.34
Information Ratio	0.05	-	-0.44
Up Capture Ratio	100.06	-	96.45
Down Capture Ratio	99.73	-	98.60

Portfolio Metrics

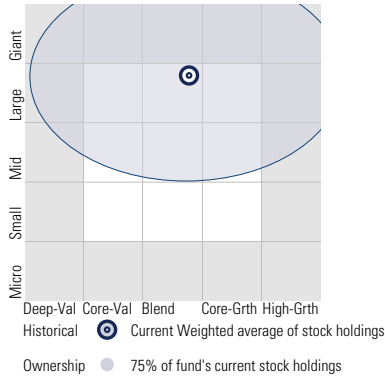
	Fund	Bmark	Cat
Price/Earnings Ratio	17.60	17.02	18.10
Price/Book Ratio	2.17	2.01	2.26
Avg Eff Duration	6.86	-	6.46

Vanguard Target Retirement 2045 Inv VTIVX

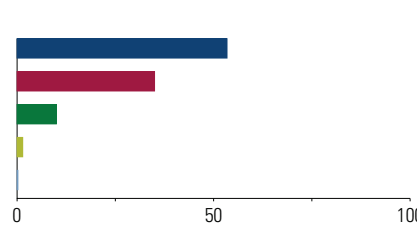
Morningstar Category
Target-Date 2045

Morningstar Index
Morningstar Lifetime Mod 2045 TR USD

Style Analysis as of 09-30-2019
Morningstar Style Box™

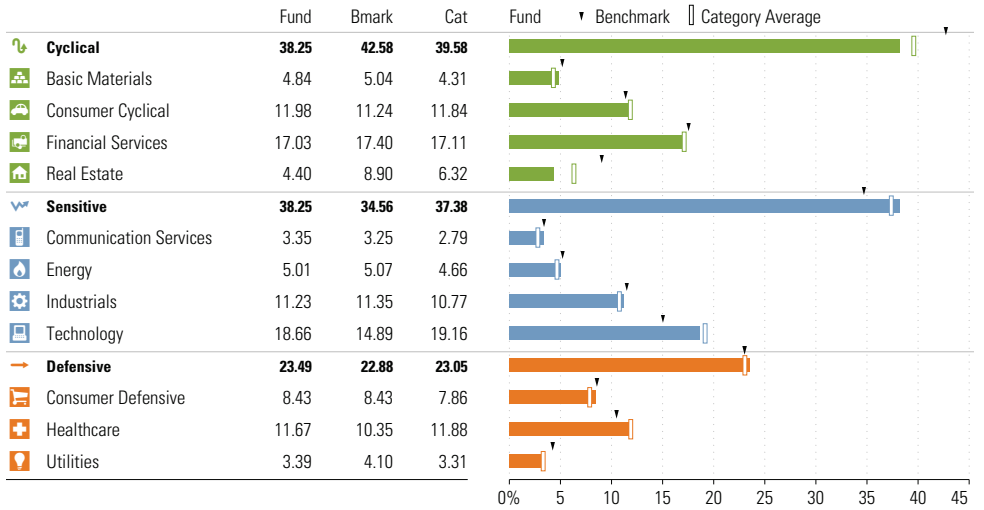


Asset Allocation as of 09-30-2019

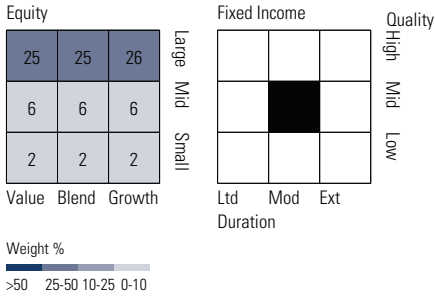


Asset Class	Net %	Cat%
US Stocks	53.41	56.09
Non-US Stocks	34.97	32.39
Bonds	9.99	6.94
Cash	1.42	2.43
Other	0.20	2.14
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Style Breakdown



Top 5 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Inv	—	53.89	53.89	—	—
⊕ Vanguard Total Intl Stock Index Inv	—	35.90	89.79	—	—
⊕ Vanguard Total Bond Market II Idx Inv	—	7.14	96.93	—	—
⊕ Vanguard Total Intl Bd Idx Investor	—	3.02	99.95	—	—
⊕ Cmt Market Liquidity Rate	—	0.05	100.00	—	—

Total Holdings 5

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement 2050 Inv VFIFX

Morningstar Category
Target-Date 2050

Morningstar Index
Morningstar Lifetime Mod 2050 TR USD

Portfolio Manager(s)

William Coleman since 02-2013
Walter Nejman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2050 category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

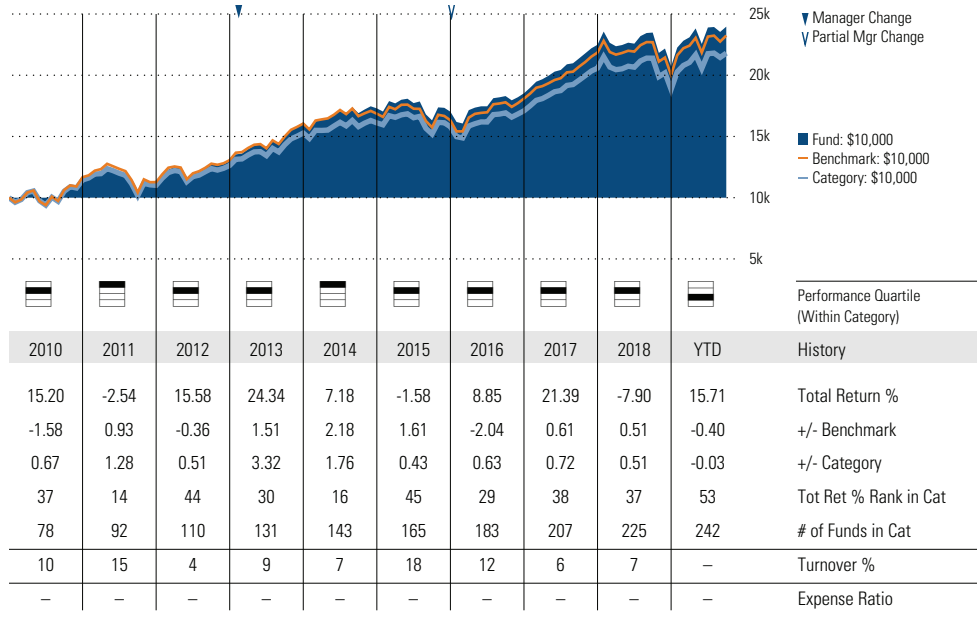
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.15 is 81.48% lower than the Target-Date 2050 category average.

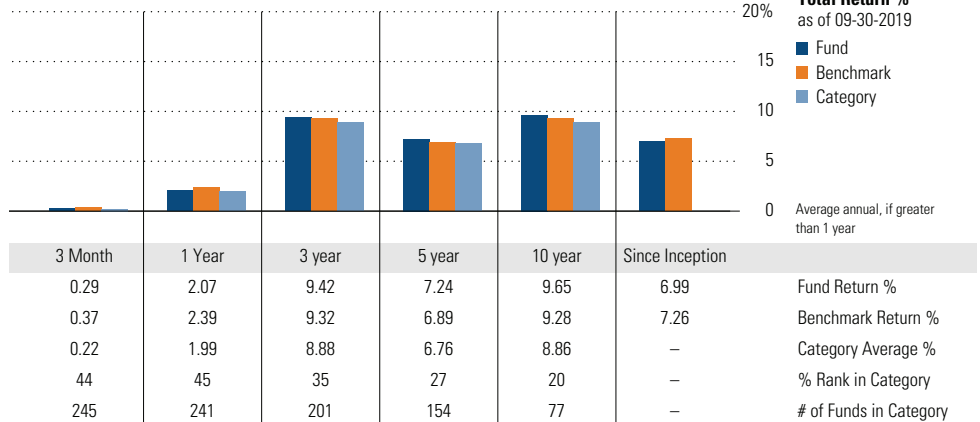
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

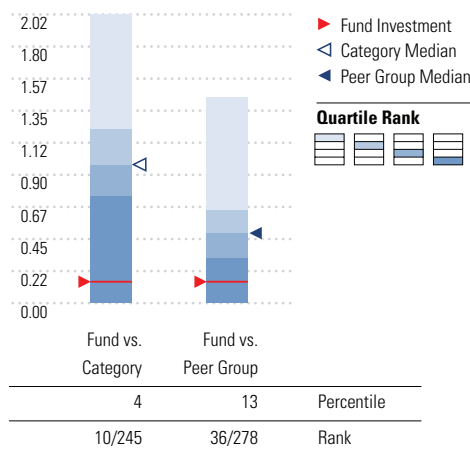
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.22	-	-0.28
Beta	0.99	-	0.97
R-Squared	99.34	-	96.67
Standard Deviation	10.34	10.45	10.28
Sharpe Ratio	0.77	0.75	0.70
Tracking Error	0.85	-	1.58
Information Ratio	0.11	-	-0.36
Up Capture Ratio	99.62	-	95.71
Down Capture Ratio	98.38	-	97.71

Portfolio Metrics

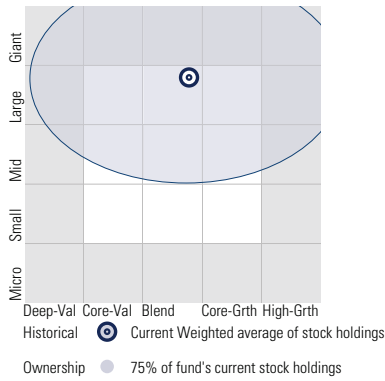
	Fund	Bmark	Cat
Price/Earnings Ratio	17.60	16.95	18.24
Price/Book Ratio	2.17	1.99	2.27
Avg Eff Duration	6.86	-	6.60

Vanguard Target Retirement 2050 Inv VFIFX

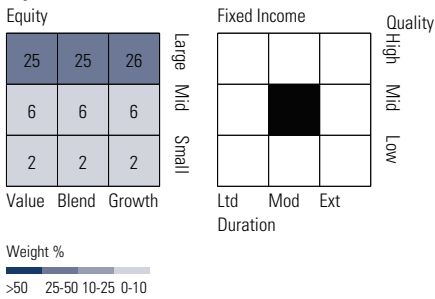
Morningstar Category
Target-Date 2050

Morningstar Index
Morningstar Lifetime Mod 2050 TR USD

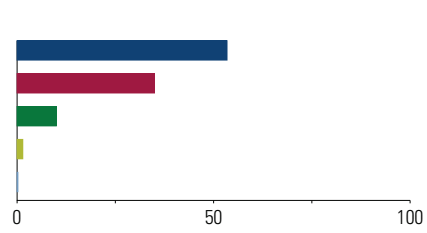
Style Analysis as of 09-30-2019
Morningstar Style Box™



Style Breakdown

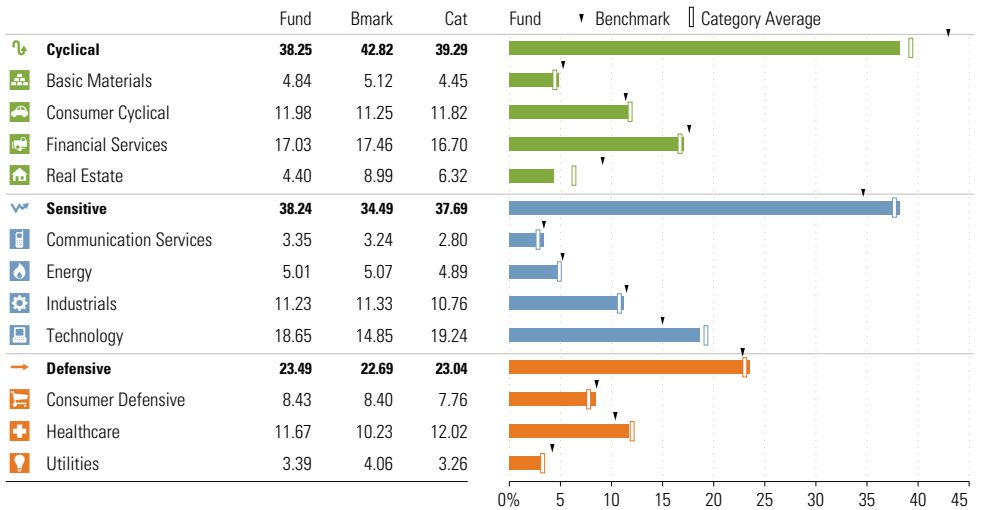


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	53.41	55.91
Non-US Stocks	34.96	33.11
Bonds	9.98	6.09
Cash	1.44	2.77
Other	0.20	2.11
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 5 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Inv	-	53.89	53.89	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	35.88	89.77	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	7.16	96.93	-	-
⊕ Vanguard Total Intl Bd Idx Investor	-	3.00	99.93	-	-
⊕ Cmt Market Liquidity Rate	-	0.07	100.00	-	-

Total Holdings 5

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement 2055 Inv VFFVX

Morningstar Category
Target-Date 2055

Morningstar Index
Morningstar Lifetime Mod 2055 TR USD

Portfolio Manager(s)

William Coleman since 02-2013
Walter Nejman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2055 category's top three quartiles in 9 of the 9 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

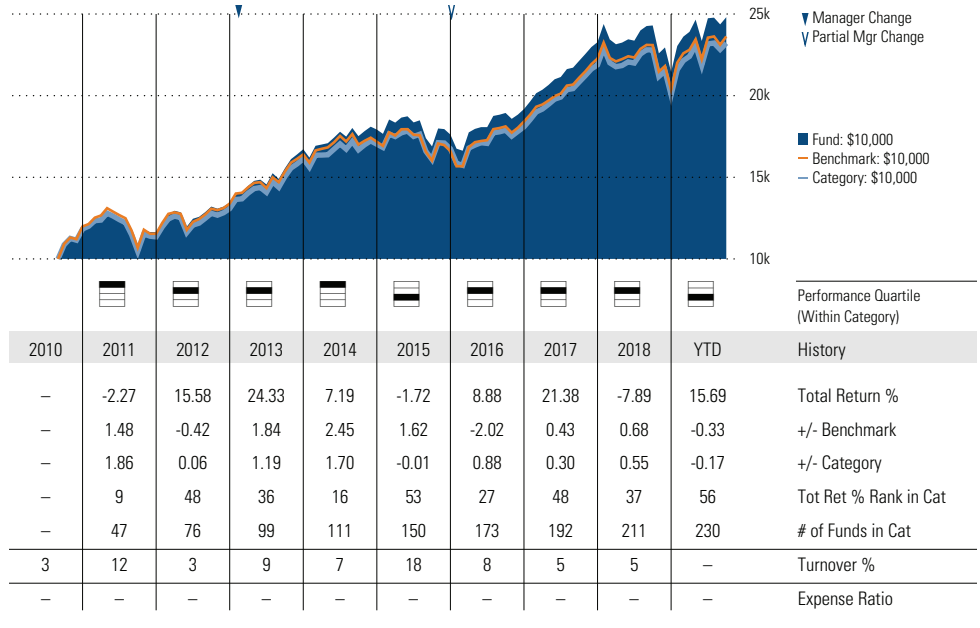
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.15 is 80.77% lower than the Target-Date 2055 category average.

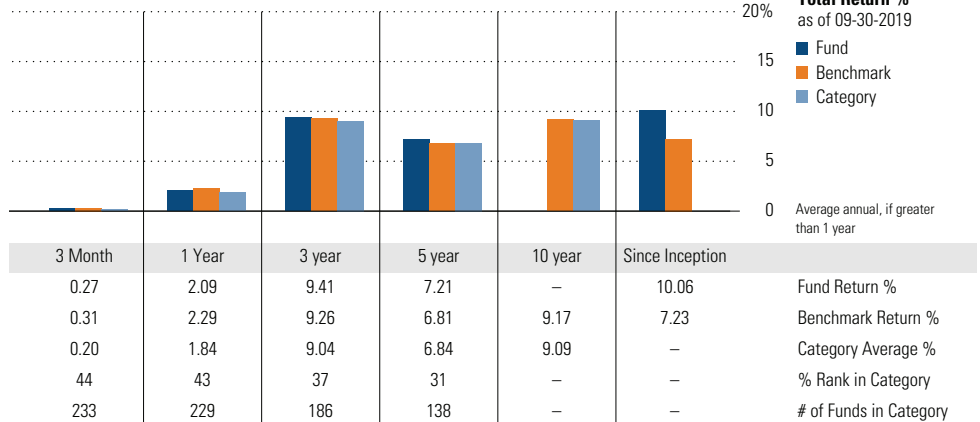
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

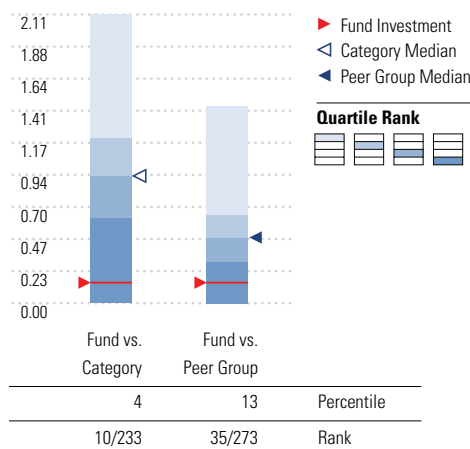
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.31	-	-0.19
Beta	0.98	-	0.99
R-Squared	99.37	-	98.37
Standard Deviation	10.31	10.49	10.46
Sharpe Ratio	0.77	0.74	0.72
Tracking Error	0.85	-	1.35
Information Ratio	0.18	-	-0.25
Up Capture Ratio	99.47	-	98.09
Down Capture Ratio	97.58	-	99.36

Portfolio Metrics

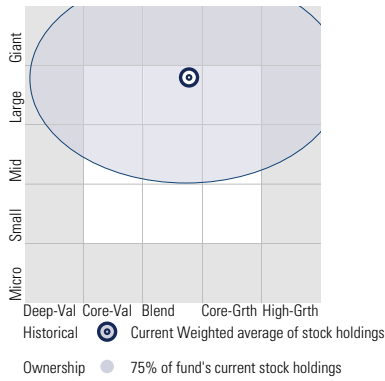
	Fund	Bmark	Cat
Price/Earnings Ratio	17.60	16.88	17.99
Price/Book Ratio	2.17	1.98	2.24
Avg Eff Duration	6.85	-	6.45

Vanguard Target Retirement 2055 Inv VFFVX

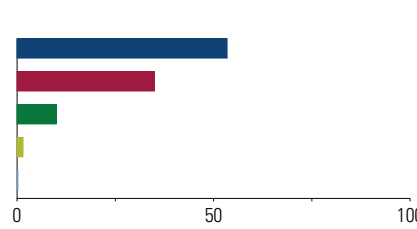
Morningstar Category
Target-Date 2055

Morningstar Index
Morningstar Lifetime Mod 2055 TR USD

Style Analysis as of 09-30-2019
Morningstar Style Box™

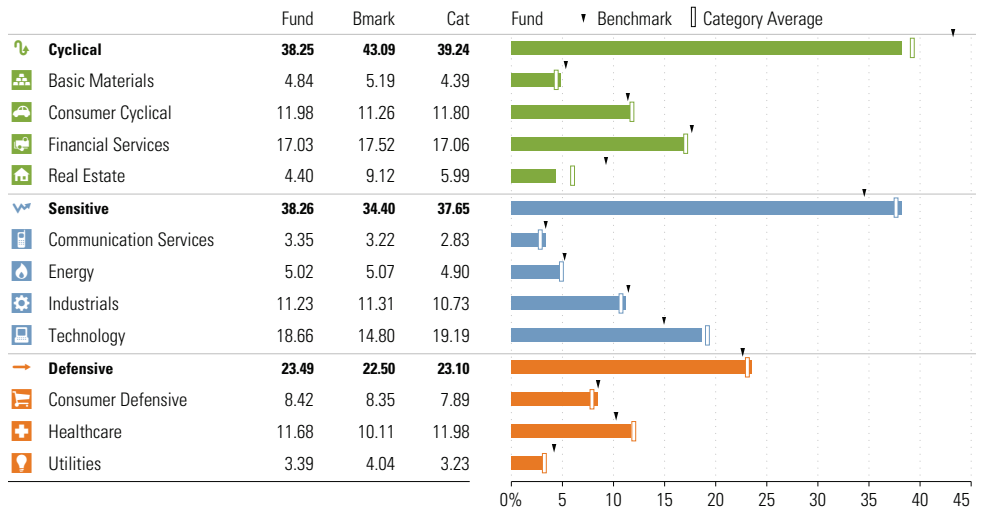


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	53.43	56.00
Non-US Stocks	34.91	34.03
Bonds	9.95	6.05
Cash	1.51	2.72
Other	0.20	1.19
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Style Breakdown



Top 5 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Inv	—	53.91	53.91	—	—
⊕ Vanguard Total Intl Stock Index Inv	—	35.84	89.74	—	—
⊕ Vanguard Total Bond Market II Idx Inv	—	7.17	96.91	—	—
⊕ Vanguard Total Intl Bd Idx Investor	—	2.96	99.87	—	—
⊕ Cmt Market Liquidity Rate	—	0.13	100.00	—	—

Total Holdings 5

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement 2060 Inv VTTSX

Morningstar Category
Target-Date 2060+

Morningstar Index
Morningstar Lifetime Mod 2060 TR USD

Portfolio Manager(s)

William Coleman since 02-2013
Walter Nejman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2060+ category's top three quartiles in 7 of the 7 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

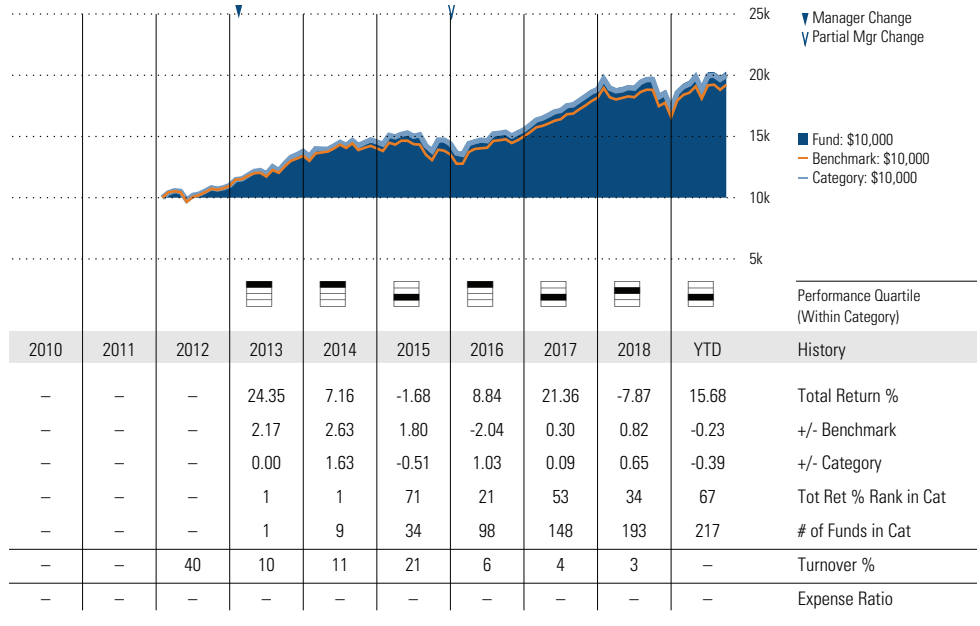
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.15 is 81.48% lower than the Target-Date 2060+ category average.

Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

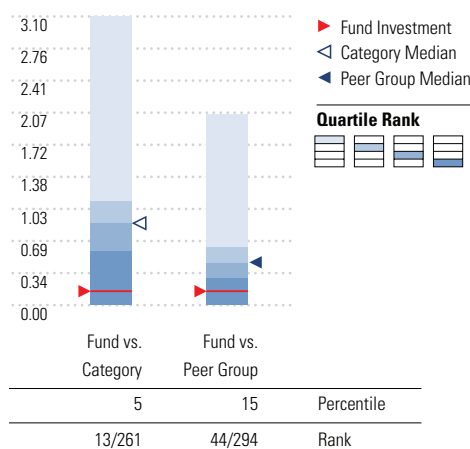
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.37	-	-0.02
Beta	0.98	-	1.00
R-Squared	99.32	-	98.24
Standard Deviation	10.33	10.48	10.53
Sharpe Ratio	0.77	0.74	0.73
Tracking Error	0.87	-	1.41
Information Ratio	0.26	-	-0.08
Up Capture Ratio	99.85	-	99.52
Down Capture Ratio	97.61	-	99.74

Portfolio Metrics

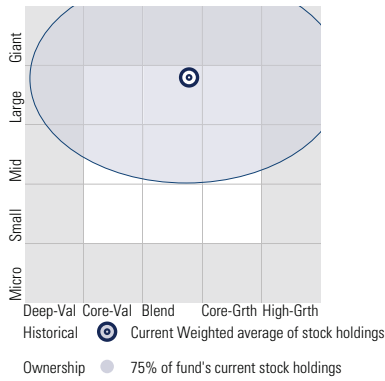
	Fund	Bmark	Cat
Price/Earnings Ratio	17.61	16.81	17.87
Price/Book Ratio	2.17	1.96	2.21
Avg Eff Duration	6.85	-	6.85

Vanguard Target Retirement 2060 Inv VTTSX

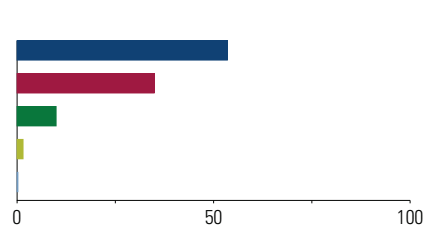
Morningstar Category
Target-Date 2060+

Morningstar Index
Morningstar Lifetime Mod 2060 TR USD

Style Analysis as of 09-30-2019
Morningstar Style Box™

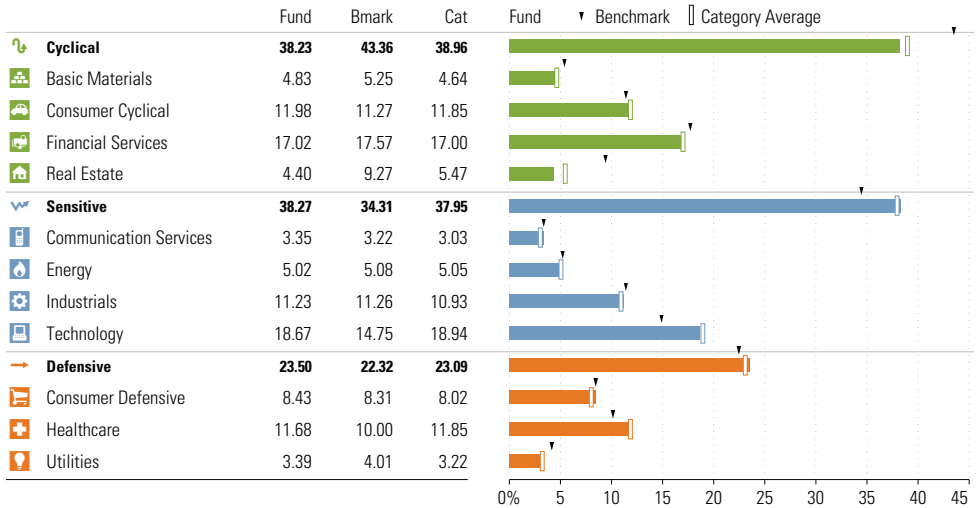


Asset Allocation as of 09-30-2019

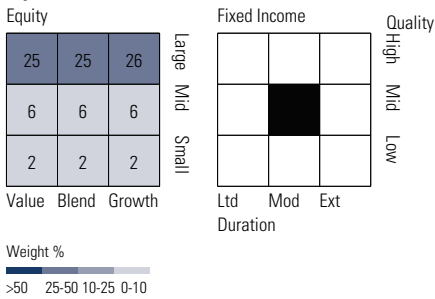


Asset Class	Net %	Cat%
US Stocks	53.50	54.63
Non-US Stocks	34.87	34.04
Bonds	9.92	7.40
Cash	1.51	2.59
Other	0.20	1.33
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Style Breakdown



Top 5 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Inv	-	53.98	53.98	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	35.79	89.77	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	7.17	96.93	-	-
⊕ Vanguard Total Intl Bd Idx Investor	-	2.93	99.86	-	-
⊕ Cmt Market Liquidity Rate	-	0.14	100.00	-	-

Total Holdings 5

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement 2065 Inv VLXVX

Morningstar Category
Target-Date 2060+

Morningstar Index
Morningstar Lifetime Mod 2060 TR USD

Portfolio Manager(s)

William Coleman since 07-2017

Walter Nejman since 07-2017

Quantitative Screens

The Performance screen is not applicable for funds with less than three years of data.

✗ **Management:** The fund's management team has been in place for less than three years.

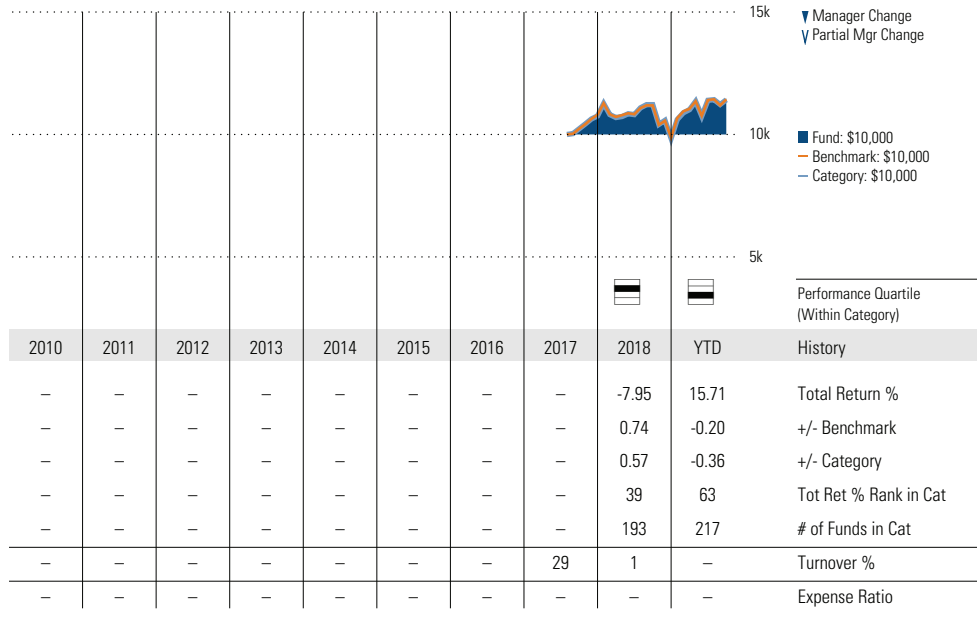
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.15 is 81.48% lower than the Target-Date 2060+ category average.

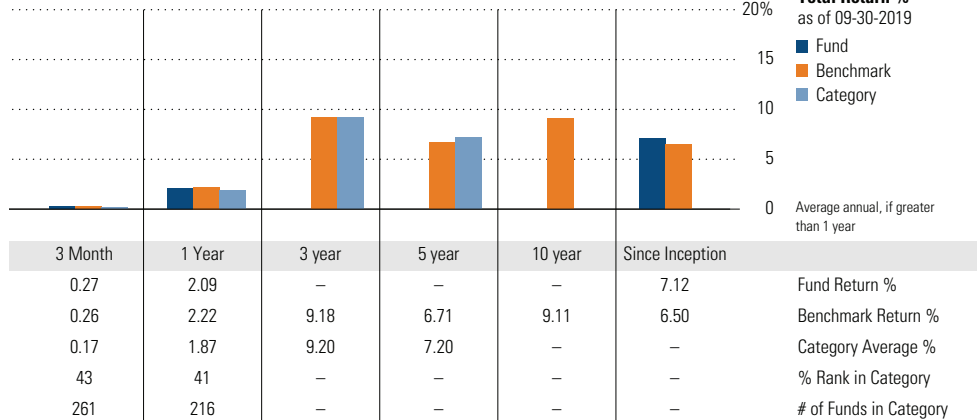
Morningstar Investment Management LLC Analysis

This fund fails our management tenure screen due to the inception of the new 2065 target date fund. This fund is managed by the same team as the full target date series, so we are comfortable with this screen failure.

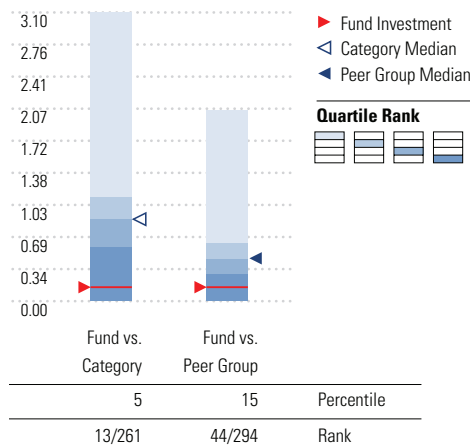
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-	-	-0.02
Beta	-	-	1.00
R-Squared	-	-	98.24
Standard Deviation	-	10.48	10.53
Sharpe Ratio	-	0.74	0.73
Tracking Error	-	-	1.41
Information Ratio	-	-	-0.08
Up Capture Ratio	-	-	99.52
Down Capture Ratio	-	-	99.74

Portfolio Metrics

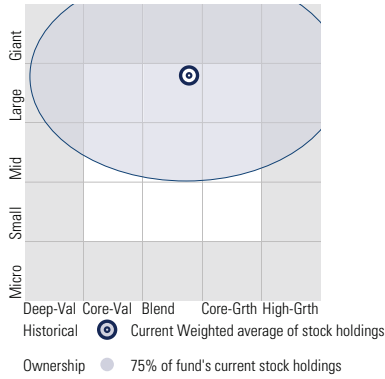
	Fund	Bmark	Cat
Price/Earnings Ratio	17.61	16.81	17.87
Price/Book Ratio	2.17	1.96	2.21
Avg Eff Duration	6.87	-	6.85

Vanguard Target Retirement 2065 Inv VLXVX

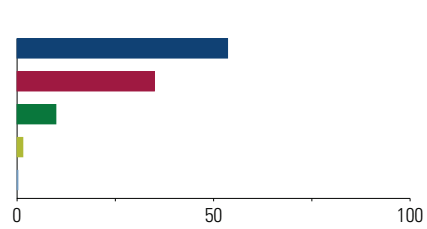
Morningstar Category
Target-Date 2060+

Morningstar Index
Morningstar Lifetime Mod 2060 TR USD

Style Analysis as of 09-30-2019
Morningstar Style Box™

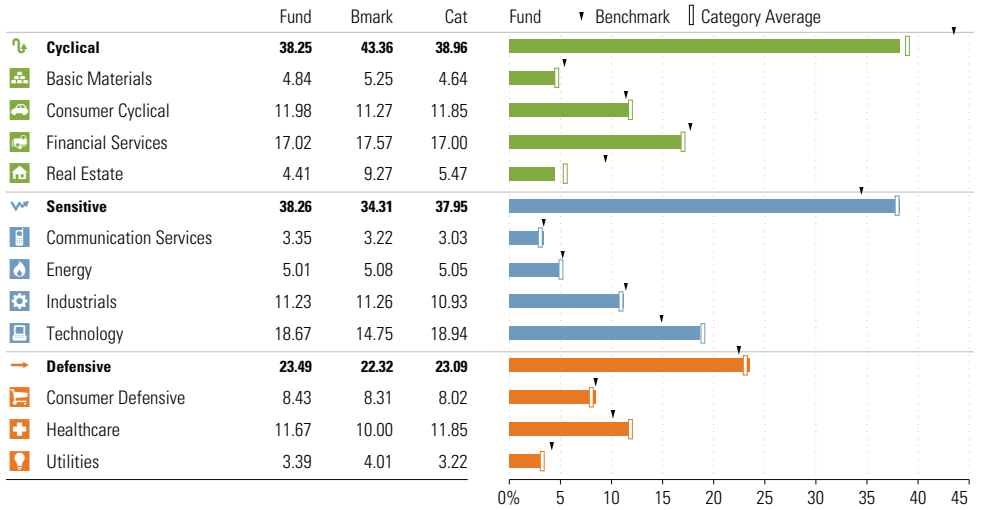


Asset Allocation as of 09-30-2019

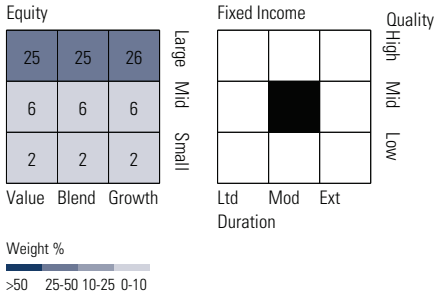


Asset Class	Net %	Cat%
US Stocks	53.55	54.63
Non-US Stocks	34.93	34.04
Bonds	9.86	7.40
Cash	1.45	2.59
Other	0.20	1.33
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Style Breakdown



Top 5 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Inv	—	54.03	54.03	—	—
⊕ Vanguard Total Intl Stock Index Inv	—	35.85	89.88	—	—
⊕ Vanguard Total Bond Market II Idx Inv	—	7.04	96.91	—	—
⊕ Vanguard Total Intl Bd Idx Investor	—	3.00	99.92	—	—
⊕ Cmt Market Liquidity Rate	—	0.08	100.00	—	—

Total Holdings 5

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Target Retirement Income Inv VTINX

Morningstar Category
Target-Date Retirement

Morningstar Index
Morningstar Lifetime Mod Incm TR USD

Portfolio Manager(s)

William Coleman since 02-2013

Walter Nejman since 02-2013

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date Retirement category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.61 years.

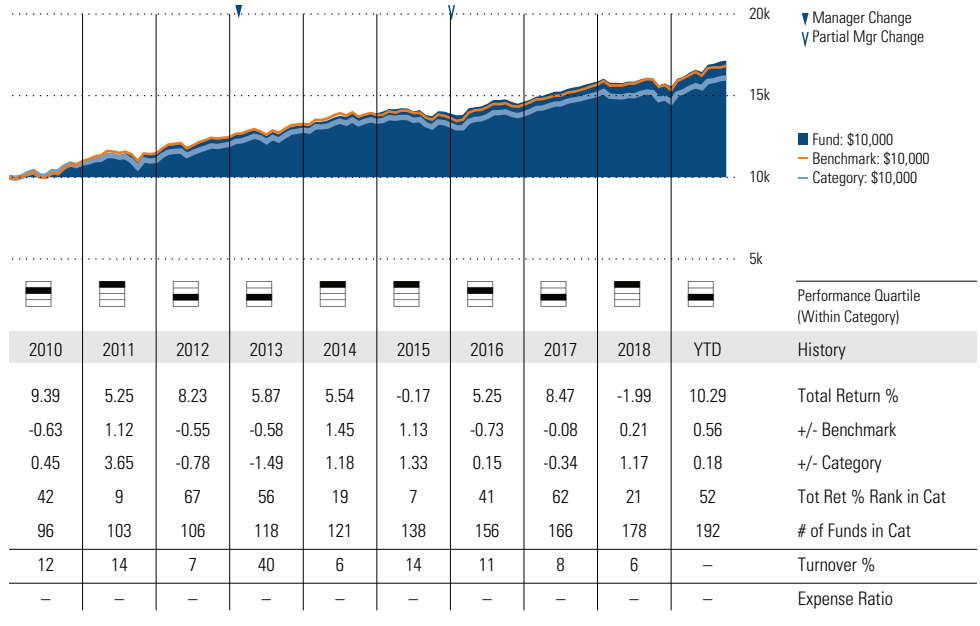
✔ **Style:** The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.12 is 84.21% lower than the Target-Date Retirement category average.

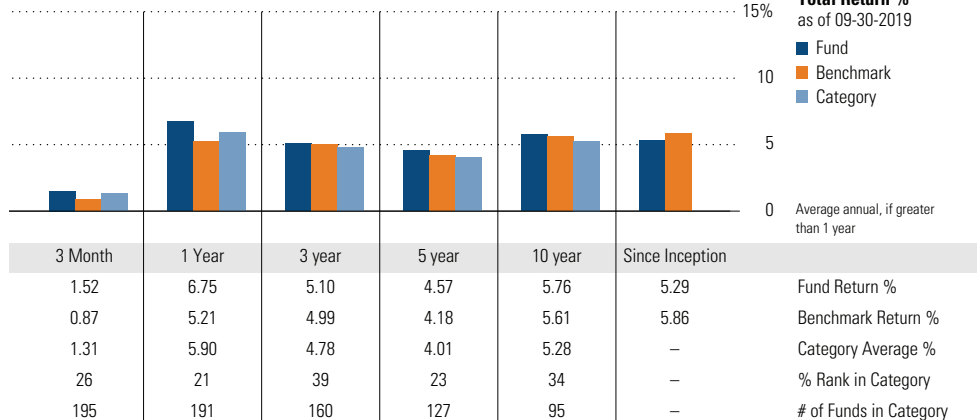
Morningstar Investment Management LLC Analysis

This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

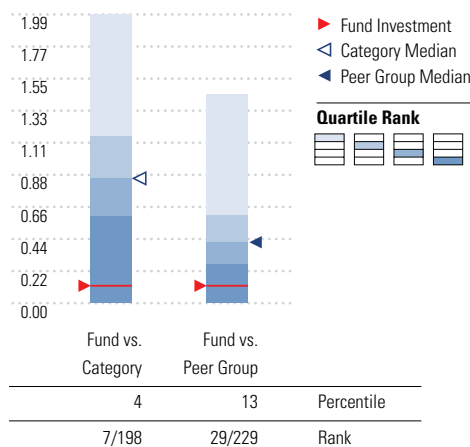
Growth of \$10,000



Trailing Performance



Net Expense



Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.77	-	-0.05
Beta	0.86	-	0.95
R-Squared	94.66	-	89.92
Standard Deviation	3.72	4.19	4.17
Sharpe Ratio	0.93	0.80	0.73
Tracking Error	1.03	-	1.44
Information Ratio	0.11	-	-0.14
Up Capture Ratio	92.94	-	92.28
Down Capture Ratio	79.51	-	90.00

Portfolio Metrics

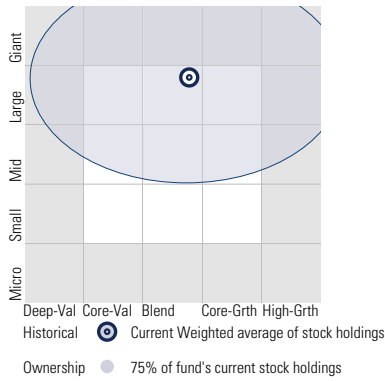
Metric	Fund	Bmark	Cat
Price/Earnings Ratio	17.64	17.90	17.87
Price/Book Ratio	2.18	2.19	2.23
Avg Eff Duration	5.86	-	6.08

Vanguard Target Retirement Income Inv VTINX

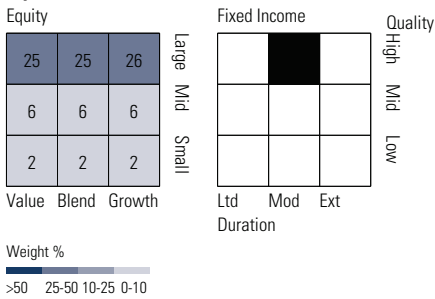
Morningstar Category
Target-Date Retirement

Morningstar Index
Morningstar Lifetime Mod Incm TR USD

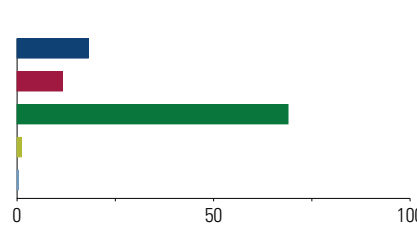
Style Analysis as of 09-30-2019
Morningstar Style Box™



Style Breakdown

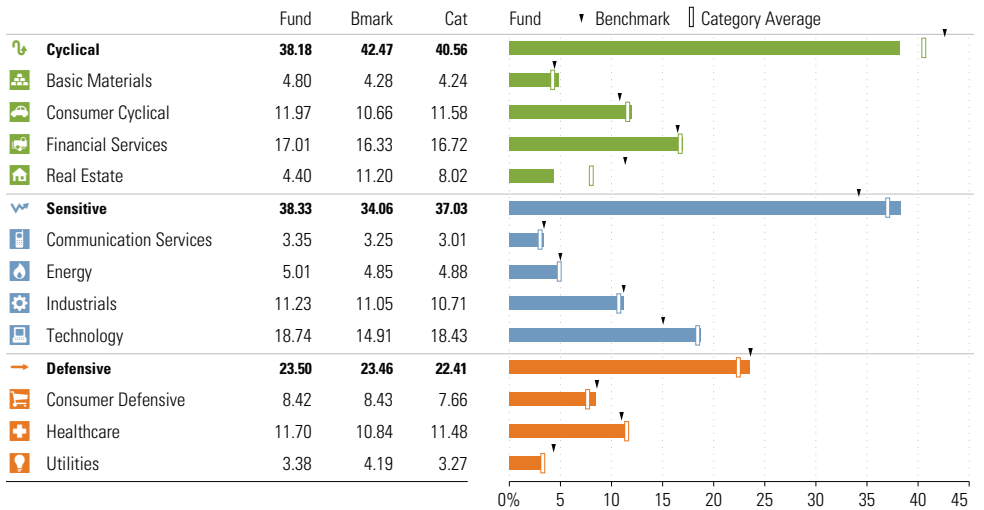


Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	18.11	20.78
Non-US Stocks	11.55	10.34
Bonds	68.93	59.39
Cash	1.11	6.30
Other	0.30	3.19
Total	100.00	100.00

Sector Weighting as of 09-30-2019



Top 6 Holdings as of 09-30-2019

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Bond Market II Idx Inv	—	37.11	37.11	—	—
⊖ Vanguard Total Stock Mkt Idx Inv	—	18.28	55.39	—	—
⊕ Vanguard Shrt-Term Infl-Prot Sec Idx Inv	—	16.61	72.01	—	—
⊕ Vanguard Total Intl Bd Idx Investor	—	16.12	88.13	—	—
⊕ Vanguard Total Intl Stock Index Inv	—	11.85	99.98	—	—
⊖ Cmt Market Liquidity Rate	—	0.02	100.00	—	—

Total Holdings 6

⊕ Increase ⊖ Decrease ✨ New to Portfolio