

# American Funds American Balanced R6 RLBGX

**Morningstar Category**  
Moderate Allocation

**Morningstar Index**  
Morningstar US Mod Tgt Alloc NR USD

## Portfolio Manager(s)

- Hilda Applbaum since 01-1999
- Alan Berro since 03-2006
- Jeffrey Lager since 03-2011
- Paul Benjamin since 07-2014
- Anne-Marie Peterson since 10-2015
- Alan Wilson since 01-2016
- John Queen since 07-2016
- Pramod Atluri since 03-2018
- Mark Casey since 10-2019
- Ritchie Tuazon since 10-2020
- Chit Purani since 03-2023
- Jin Lee since 03-2023

## Quantitative Screens

**Performance:** The fund has finished in the Moderate Allocation 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 Blend — 100 % of the time over the past three years.

**Net Expense:** The fund's expense ratio of 0.25 is 75% lower than the Moderate Allocation 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.

## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

## 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	1.27	-	-0.04
Beta	0.97	-	0.98
R-Squared	96.09	-	94.16
Standard Deviation	11.88	12.04	12.24
Sharpe Ratio	0.27	0.17	0.16
Tracking Error	2.38	-	2.86
Information Ratio	0.50	-	-0.13
Up Capture Ratio	105.57	-	99.51
Down Capture Ratio	99.20	-	100.41

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	18.73	19.23	20.37
Price/Book Ratio	3.75	2.95	3.33
Avg Eff Duration	6.67	6.12	5.40

# American Funds American Balanced R6 RLBGX

**Morningstar Category**  
Moderate Allocation

**Morningstar Index**  
Morningstar US Mod Tgt Alloc NR USD

## Style Analysis as of 09-30-2023

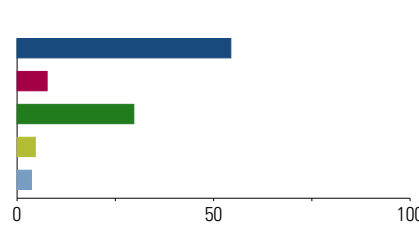
Morningstar Style Box™



## Style Breakdown



## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	54.38	48.05
Non-US Stocks	7.64	10.07
Bonds	29.70	34.67
Cash	4.62	3.72
Other	3.65	3.49
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## Top 10 Holdings as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Capital Group Central Cash Fund	—	10.33	10.33	—	—
✳ Cash And Other Assets Less Liabilities	—	5.72	16.05	—	—
⊖ Microsoft Corp	—	4.36	20.41	32.51	Technology
⊖ Cap Grp Cent Fd Ser Ii	—	3.65	24.06	—	—
⊖ Broadcom Inc	—	3.47	27.54	51.02	Technology
⊖ UnitedHealth Group Inc	—	2.03	29.56	-3.88	Healthcare
⊕ Philip Morris International Inc	—	2.01	31.58	-4.73	Consumer Defensive
⊖ The Home Depot Inc	—	1.38	32.96	-2.35	Consumer Cyclical
⊖ Alphabet Inc Class C	—	1.21	34.17	48.60	Communication Svc
⊕ Taiwan Semiconductor Manufacturing Co Ltd ADR	—	1.18	35.35	18.48	Technology

## Total Holdings 2324

⊕ Increase ⊖ Decrease ✳ New to Portfolio

# American Funds Intl Gr and Inc R6 RIGGX

**Morningstar Category**  
Foreign Large Blend

**Morningstar Index**  
MSCI ACWI Ex USA NR USD

## Portfolio Manager(s)

Andrew Suzman since 10-2008  
Steven Watson since 10-2008  
Patrice Collette since 09-2010  
Leo Hee since 07-2015  
Michael Cohen since 07-2018  
Lisa Thompson since 09-2018

## Quantitative Screens

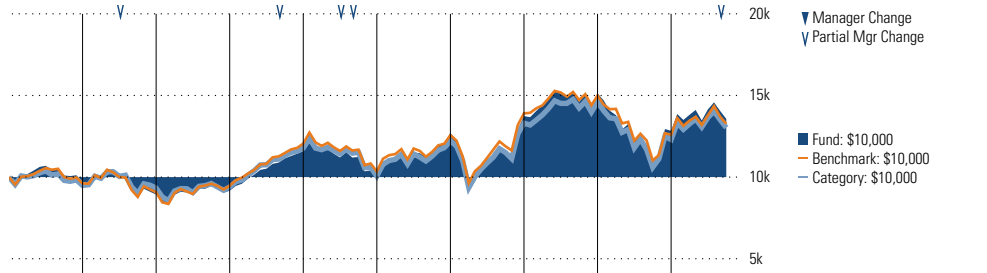
✔ **Performance:** The fund has finished in the Foreign Large Blend category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 15.01 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 0.54 is 37.93% lower than the Foreign Large Blend category average.

## Growth of \$10,000



2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD	History
-2.92	-7.97	2.54	26.50	-14.10	27.54	8.20	10.12	-15.16	5.69	Total Return %
0.95	-2.31	-1.96	-0.69	0.10	6.03	-2.45	2.30	0.84	0.35	+/- Benchmark
2.06	-6.38	1.75	1.38	0.49	5.95	-1.10	0.40	0.68	-0.26	+/- Category
20	90	28	33	43	5	55	54	44	59	Tot Ret % Rank in Cat
765	814	800	816	818	851	866	850	835	807	# of Funds in Cat
-	25	37	37	27	35	35	23	34	31	Turnover %
-	-	0.58	0.58	0.57	0.57	0.54	0.54	0.53	0.54	Expense Ratio

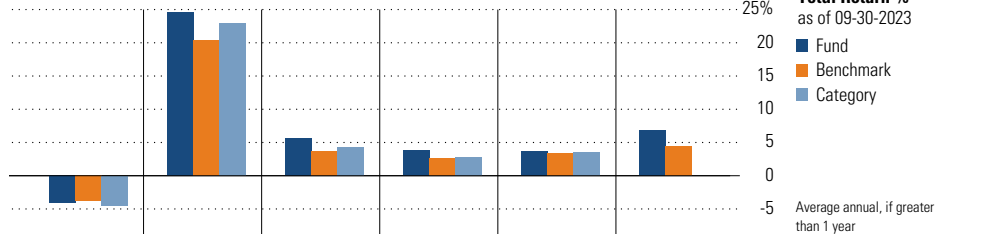
## Morningstar Investment Management LLC Analysis

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## ESG Metrics

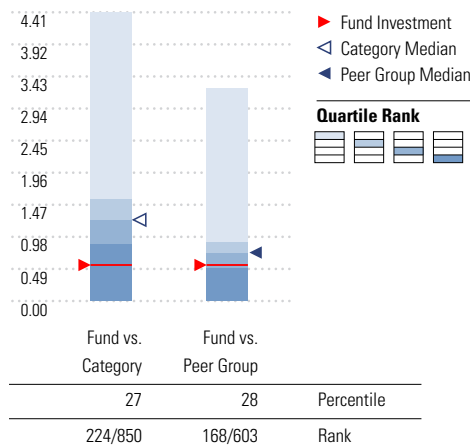
Metric	Rating	Updated
Sustainability Rating	2	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

## Trailing Performance



3 Month	1 Year	3 year	5 year	10 year	Since Inception	
-4.10	24.55	5.67	3.85	3.69	6.88	Fund Return %
-3.77	20.39	3.74	2.58	3.35	4.43	Benchmark Return %
-4.48	22.92	4.33	2.81	3.60	-	Category Average %
37	40	29	19	47	-	% Rank in Category
824	800	746	686	460	-	# 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	1.75	-	0.38
Beta	1.06	-	1.03
R-Squared	95.95	-	93.49
Standard Deviation	18.67	17.19	18.35
Sharpe Ratio	0.28	0.18	0.20
Tracking Error	3.91	-	4.70
Information Ratio	0.49	-	0.11
Up Capture Ratio	110.29	-	106.23
Down Capture Ratio	103.03	-	105.46

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	13.60	13.48	14.20
Price/Book Ratio	1.74	1.67	1.88
Geom Avg Mkt Cap \$B	49.84	42.75	56.55
ROE	20.60	17.72	20.14

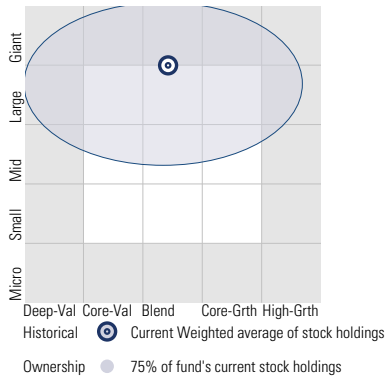
# American Funds Intl Gr and Inc R6 RIGGX

**Morningstar Category**  
Foreign Large Blend

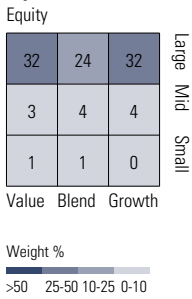
**Morningstar Index**  
MSCI ACWI Ex USA NR USD

## Style Analysis as of 09-30-2023

Morningstar Style Box™



## Style Breakdown

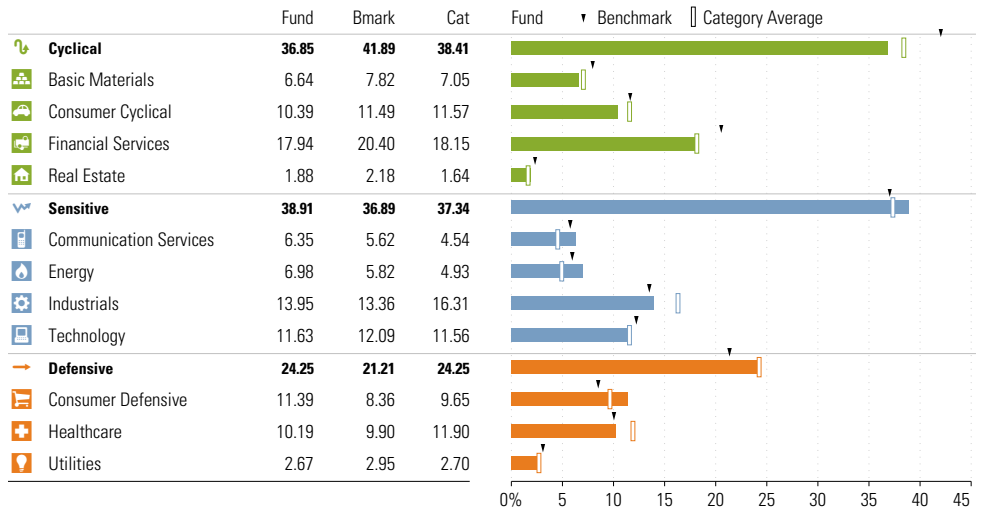


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat %
US Stocks	5.91	3.46
Non-US Stocks	88.60	93.89
Bonds	0.49	0.22
Cash	4.92	0.97
Other	0.08	1.45
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## World Regions % Equity 09-30-2023



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	28.86	35.08	Americas	15.11	8.51	Greater Europe	56.03	56.41	Developed Markets	85.24
Japan	8.35	18.59	North America	10.62	7.23	United Kingdom	13.11	13.72	Emerging Markets	14.76
Australasia	0.49	4.86	Central/Latin	4.49	1.28	W euro-ex UK	41.30	41.70	Not Available	0.00
Asia-4 Tigers	10.67	6.61				Emrgng Europe	0.40	0.07		
Asia-ex 4 Tigers	9.35	5.02				Africa	1.22	0.92		
Not Classified	0.00	0.00								

## Top 10 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Capital Group Central Cash M	4.56	4.56	-	-
AstraZeneca PLC	3.16	7.72	-	Healthcare
Taiwan Semiconductor Manufacturing Co Ltd	2.42	10.14	-	Technology
ASML Holding NV	2.38	12.52	-	Technology
Novo Nordisk A/S Class B	2.29	14.81	-	Healthcare
Airbus SE	2.23	17.04	-	Industrials
Philip Morris International Inc	2.21	19.24	-4.73	Consumer Defensive
TotalEnergies SE	1.77	21.01	-	Energy
LVMH Moet Hennessy Louis Vuitton SE	1.60	22.61	-	Consumer Cyclical
British American Tobacco PLC	1.50	24.10	-	Consumer Defensive

**Total Holdings 273**

⊕ Increase ⊖ Decrease ✱ New to Portfolio

# Baird Aggregate Bond Inst BAGIX

**Morningstar Category**  
Intermediate Core Bond

**Morningstar Index**  
Bloomberg US Agg Bond TR USD

## Portfolio Manager(s)

- M. Sharon deGuzman since 09-2000
- Mary Ellen Stanek since 09-2000
- Charles Groeschell since 09-2000
- Warren Pierson since 09-2000
- Meghan Dean since 05-2019
- Jay Schwister since 05-2019
- Jeffrey Schrom since 05-2019
- Patrick Brown since 05-2021
- Abhishek Pulakanti since 05-2022
- Andrew O'Connell since 05-2022

## Quantitative Screens

**Performance:** The fund has finished in the Intermediate Core 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 23.02 years.

Style Consistency is not calculated for Fixed Income funds.

**Net Expense:** The fund's expense ratio of 0.3 is 44.44% lower than the Intermediate Core Bond category average.

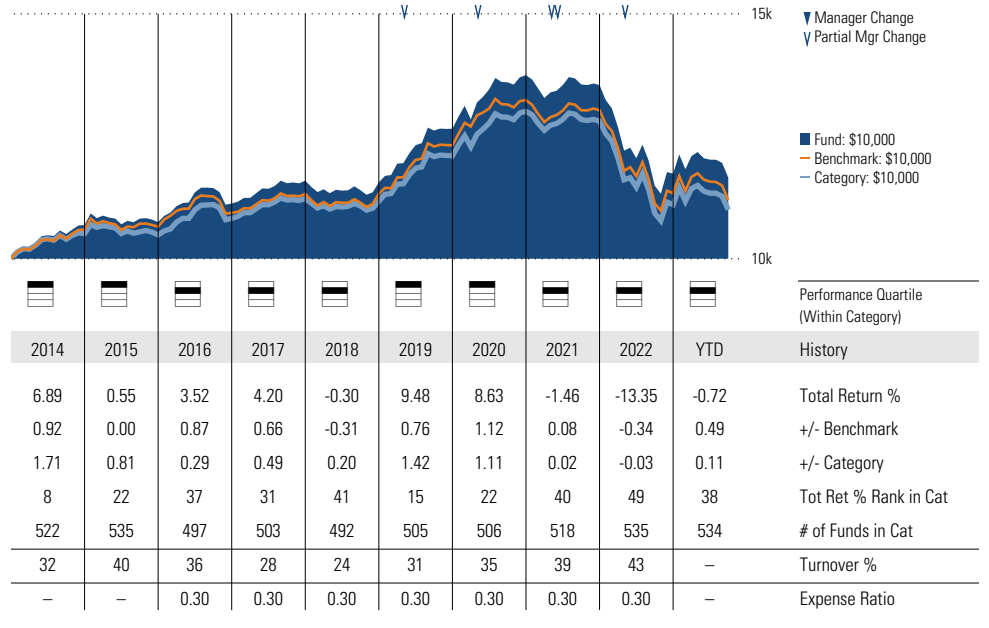
## Morningstar Investment Management LLC Analysis

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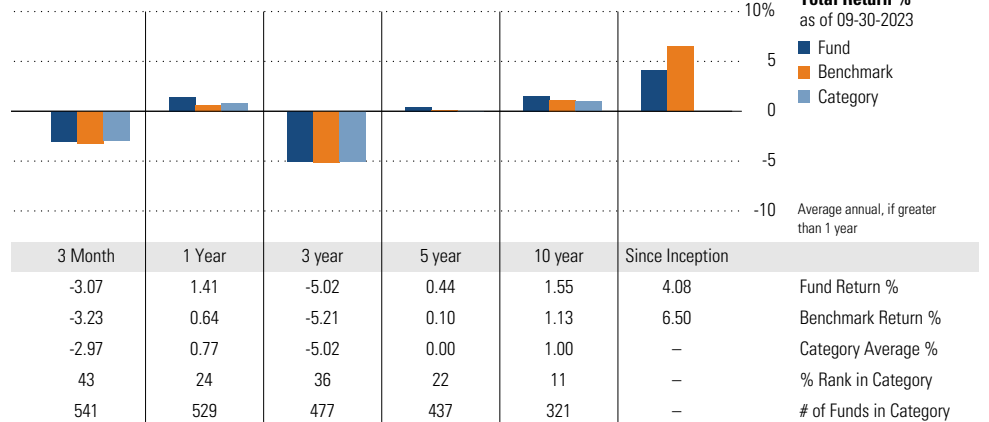
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
ESG Commitment	1-Low	02-15-2022

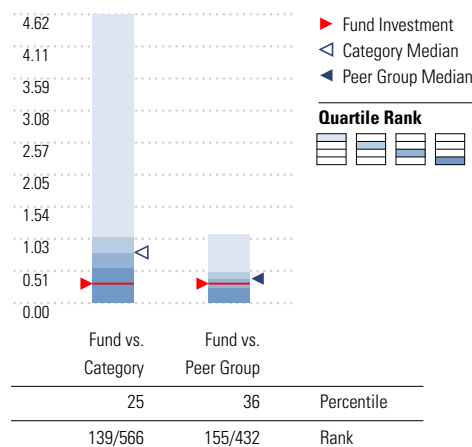
## Growth of \$10,000



## 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	0.25	-	0.02
Beta	1.01	-	0.98
R-Squared	99.48	-	96.70
Standard Deviation	6.29	6.20	6.18
Sharpe Ratio	-1.11	-1.16	-1.15
Tracking Error	0.46	-	1.01
Information Ratio	0.40	-	-0.10
Up Capture Ratio	102.72	-	97.41
Down Capture Ratio	99.65	-	97.57

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	6.31	4.43	6.10
Avg Eff Maturity	8.44	-	8.47

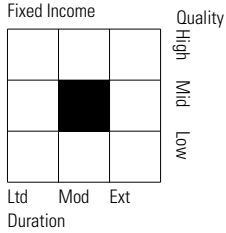
# Baird Aggregate Bond Inst BAGIX

**Morningstar Category**  
Intermediate Core Bond

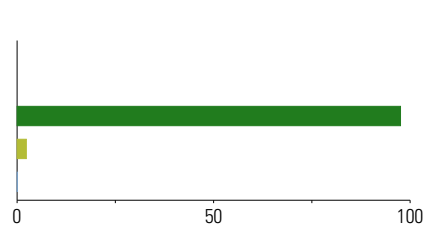
**Morningstar Index**  
Bloomberg US Agg Bond TR USD

**Style Analysis** as of 09-30-2023

**Style Breakdown**



**Asset Allocation** as of 09-30-2023

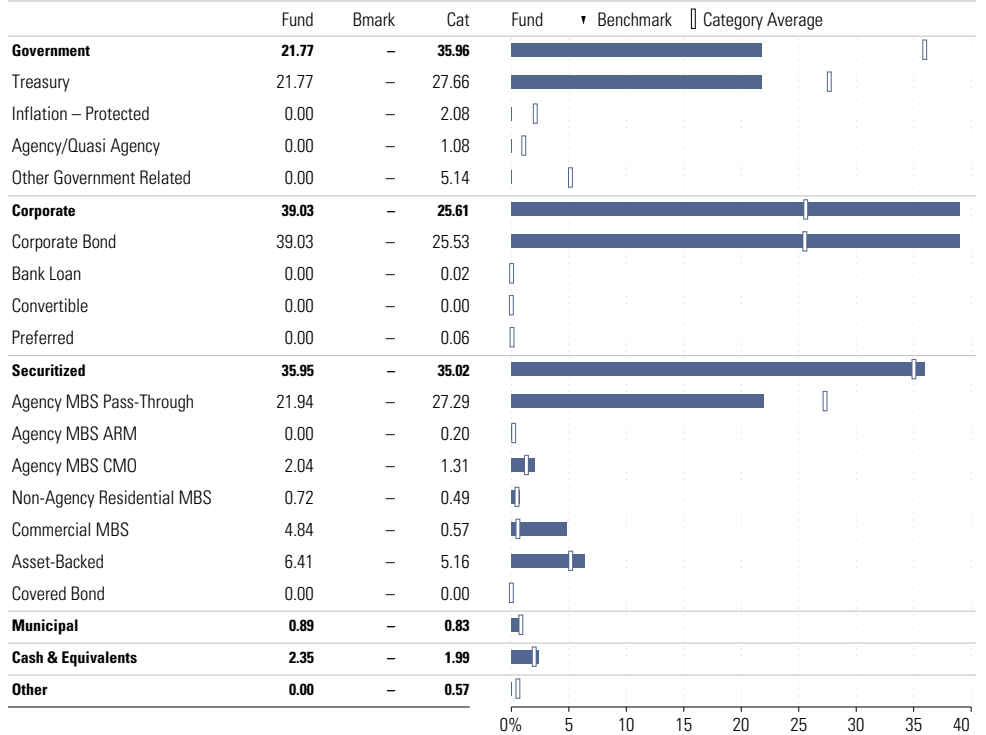


Asset Class	Net %	Cat%
US Stocks	0.00	0.07
Non-US Stocks	0.00	0.00
Bonds	97.56	95.99
Cash	2.35	2.17
Other	0.09	1.78
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Credit Rating Breakdown**

	Fund	Bmark	Cat
AAA	59.70	3.53	56.04
AA	3.80	74.59	8.35
A	13.10	10.82	17.35
BBB	23.20	8.32	15.53
BB	0.20	0.28	1.06
B	0.00	0.00	0.38
Below B	0.00	0.00	0.18
Not Rated	0.00	2.46	1.11

**Sector Weighting** as of 09-30-2023



**Top 10 Holdings** as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ United States Treasury Notes 1.13%	10-2026	3.31	3.31	-
United States Treasury Bonds 2.5%	02-2045	3.13	6.44	-
⊕ First American Government Obligs U	02-2030	2.28	8.71	-
United States Treasury Bonds 2.88%	05-2043	2.27	10.99	-
⊕ United States Treasury Notes 1.13%	08-2028	2.24	13.23	-
United States Treasury Bonds 1.38%	11-2040	1.77	15.00	-
⊕ United States Treasury Notes 2.38%	03-2029	1.41	16.41	-
⊕ United States Treasury Bonds 2.38%	02-2042	1.20	17.61	-
⊖ United States Treasury Notes 2.88%	05-2032	1.04	18.65	-
⊕ United States Treasury Bonds 2.88%	05-2052	1.01	19.66	-

**Total Holdings 1710**

⊕ Increase ⊖ Decrease ✱ New to Portfolio

# DFA International Value I DFIVX

**Morningstar Category**  
Foreign Large Value

**Morningstar Index**  
MSCI EAFE NR USD

## Portfolio Manager(s)

Jed Fogdall since 02-2010  
Arun Keswani since 02-2020  
Joel Schneider since 02-2022

## Quantitative Screens

✔ **Performance:** The fund has finished in the Foreign Large Value 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 13.59 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.28 is 71.13% lower than the Foreign Large Value category average.

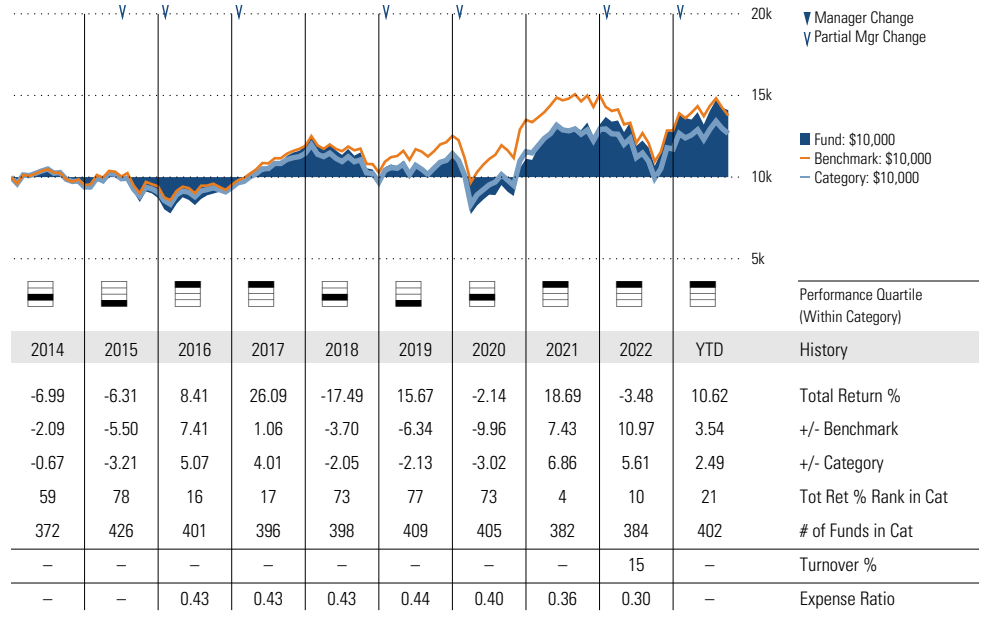
## Morningstar Investment Management LLC Analysis

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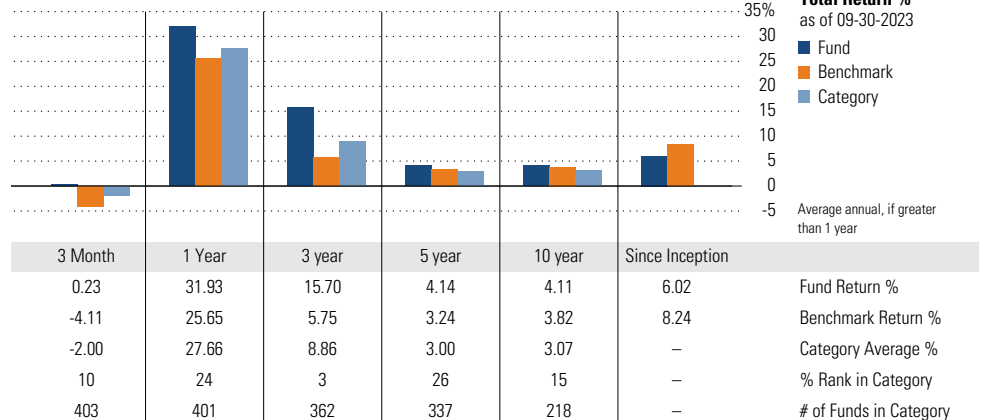
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	1	08-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

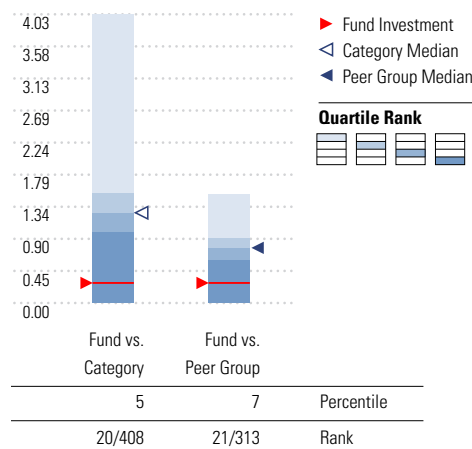
## Growth of \$10,000



## 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	9.14	-	3.13
Beta	1.05	-	0.99
R-Squared	85.91	-	89.42
Standard Deviation	20.62	18.23	19.11
Sharpe Ratio	0.71	0.28	0.43
Tracking Error	7.79	-	6.38
Information Ratio	1.28	-	0.49
Up Capture Ratio	119.11	-	103.27
Down Capture Ratio	82.71	-	91.00

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	8.93	13.87	10.37
Price/Book Ratio	1.00	1.69	1.28
Geom Avg Mkt Cap \$B	32.89	47.39	36.88
ROE	12.21	18.84	15.89

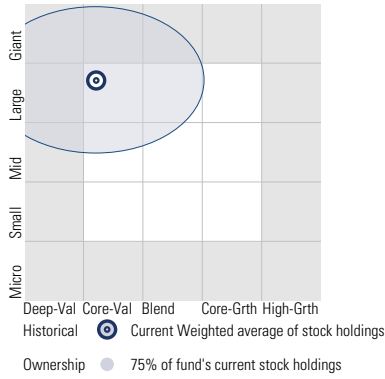
# DFA International Value I DFIVX

**Morningstar Category**  
Foreign Large Value

**Morningstar Index**  
MSCI EAFE NR USD

## Style Analysis as of 09-30-2023

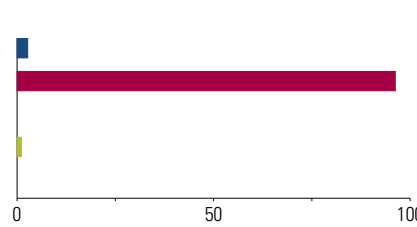
Morningstar Style Box™



## Style Breakdown

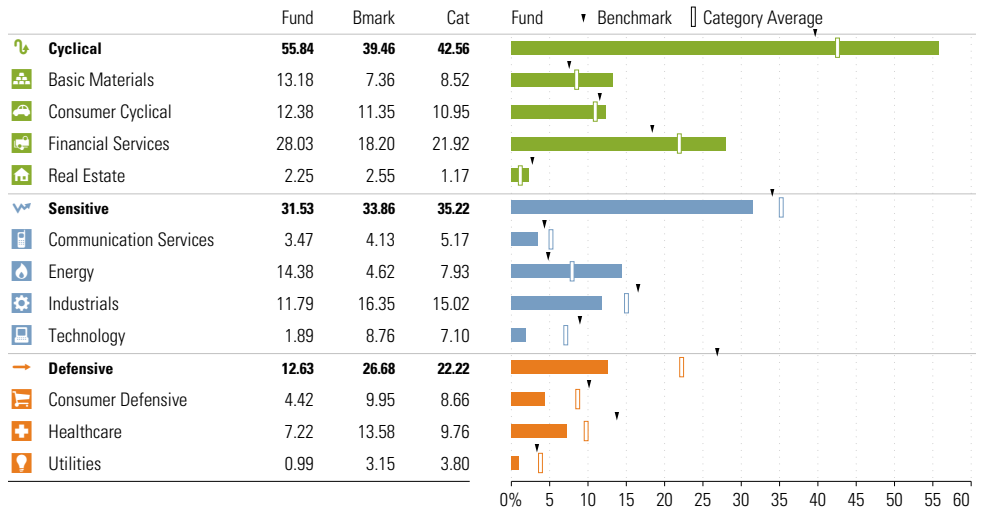


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	2.70	3.43
Non-US Stocks	96.23	94.75
Bonds	0.00	0.04
Cash	1.07	1.54
Other	0.00	0.22
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## World Regions % Equity 09-30-2023



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	31.01	30.58	Americas	11.38	9.36	Greater Europe	57.61	60.05	Developed Markets	99.84
Japan	21.20	16.72	North America	11.38	8.12	United Kingdom	12.80	17.06	Emerging Markets	0.16
Australasia	6.73	3.68	Central/Latin	0.00	1.24	W euro-ex UK	44.32	42.12	Not Available	0.00
Asia-4 Tigers	2.92	7.21				Emrgng Europe	0.00	0.11		
Asia-ex 4 Tigers	0.16	2.97				Africa	0.49	0.76		
Not Classified	0.00	0.00								

## Top 10 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Shell PLC ADR (Representing - Ordinary Shares)	4.33	4.33	16.23	Energy
⊕ TotalEnergies SE	3.24	7.57	-	Energy
⊕ Mercedes-Benz Group AG	1.64	9.21	-	Consumer Cyclical
⊕ Novartis AG Registered Shares	1.39	10.60	-	Healthcare
⊕ Zurich Insurance Group AG	1.31	11.92	-	Financial Services
⊖ Novartis AG ADR	1.26	13.18	16.14	Healthcare
⊖ UBS Group AG	1.26	14.44	-	Financial Services
⊕ Banco Santander SA	1.13	15.57	-	Financial Services
⊕ Bank of Nova Scotia	1.11	16.68	-3.53	Financial Services
⊕ Bayer AG	1.09	17.77	-	Healthcare

**Total Holdings 545**

⊕ Increase ⊖ Decrease ✱ New to Portfolio



# DFA US Small Cap Value I DFSVX

**Morningstar Category**  
Small Value

**Morningstar Index**  
Russell 2000 Value TR USD

## Portfolio Manager(s)

Jed Fogdall since 02-2012  
Joel Schneider since 07-2015  
Marc Leblond since 02-2020

## Quantitative Screens

✔ **Performance:** The fund has finished in the Small 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 11.59 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.3 is 73.21% lower than the Small Value category average.

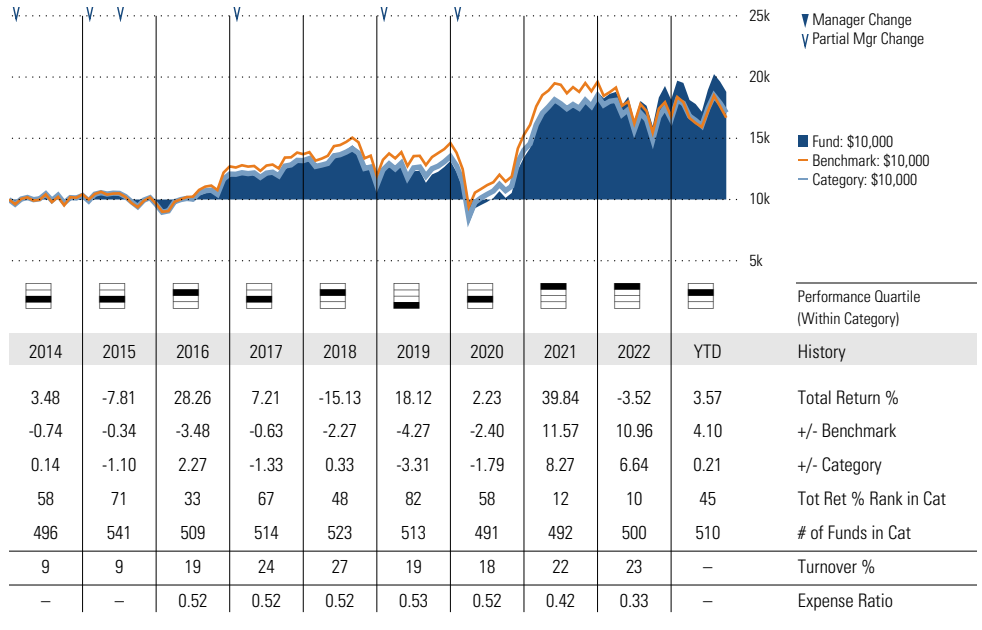
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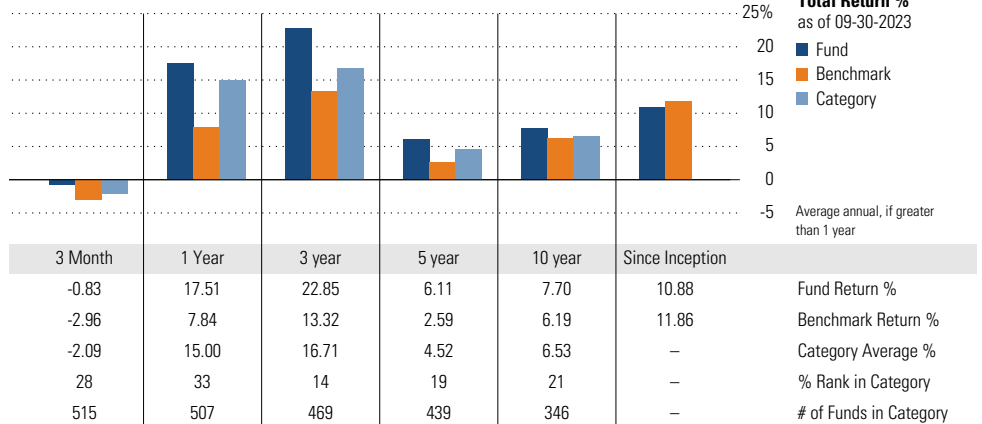
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	08-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

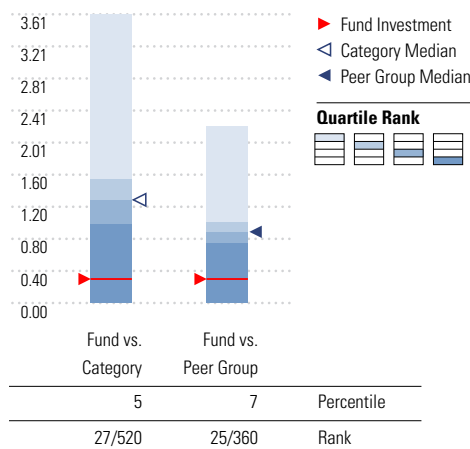
## Growth of \$10,000



## 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	8.47	-	3.37
Beta	0.98	-	0.94
R-Squared	96.46	-	93.31
Standard Deviation	23.11	23.16	22.57
Sharpe Ratio	0.91	0.56	0.69
Tracking Error	4.37	-	5.97
Information Ratio	2.18	-	0.51
Up Capture Ratio	110.97	-	98.85
Down Capture Ratio	85.50	-	88.84

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	8.65	9.46	11.18
Price/Book Ratio	1.23	1.23	1.61
Geom Avg Mkt Cap \$B	2.82	1.89	4.32
ROE	14.38	7.74	15.96

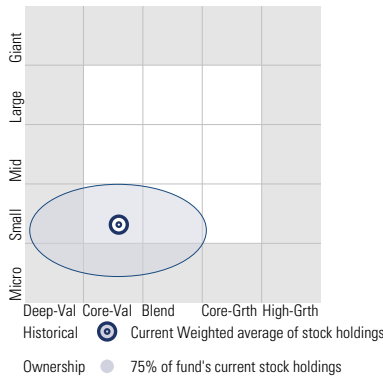
# DFA US Small Cap Value I DFSVX

**Morningstar Category**  
Small Value

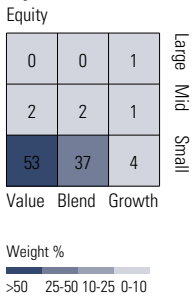
**Morningstar Index**  
Russell 2000 Value TR USD

## Style Analysis as of 09-30-2023

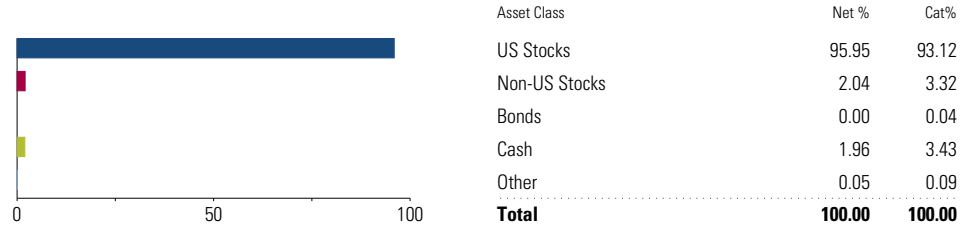
Morningstar Style Box™



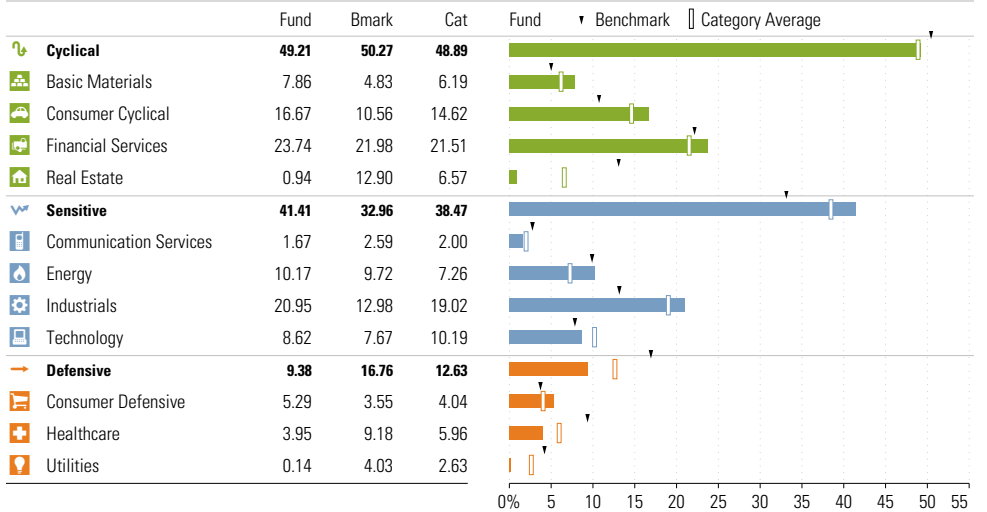
## Style Breakdown



## Asset Allocation as of 09-30-2023



## Sector Weighting as of 09-30-2023



## Top 15 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Ssc Government Mm Gvmxx	1.48	1.48	-	-
⊕ Future on E-mini S&P 500 Futures	1.35	2.83	-	-
Taylor Morrison Home Corp	0.92	3.75	40.40	Consumer Cyclical
⊖ Amkor Technology Inc	0.91	4.66	-4.82	Technology
⊖ Commercial Metals Co	0.84	5.50	3.29	Basic Materials
Triton International Ltd Ordinary Shares	0.80	6.31	-	Industrials
New York Community Bancorp Inc	0.78	7.09	37.79	Financial Services
American Equity Investment Life Holding Co	0.73	7.82	17.58	Financial Services
F N B Corp	0.69	8.51	-14.56	Financial Services
⊖ Murphy Oil Corp	0.68	9.19	7.36	Energy
Avnet Inc	0.66	9.85	18.04	Technology
Thor Industries Inc	0.64	10.49	27.21	Consumer Cyclical
⊖ GATX Corp	0.64	11.13	3.89	Industrials
M.D.C. Holdings Inc	0.64	11.77	35.38	Consumer Cyclical
⊕ PDC Energy Inc	0.63	12.40	-	Energy

**Total Holdings 940**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Eaton Vance Income Fund of Boston R6 EIBRX

**Morningstar Category**  
High Yield Bond

**Morningstar Index**  
ICE BofA US High Yield TR USD

## Portfolio Manager(s)

Stephen Concannon since 11-2014  
Jeffrey Mueller since 06-2019  
Kelley Baccei Gerrity since 06-2019

## Quantitative Screens

✔ **Performance:** The fund has finished in the High Yield Bond 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 8.91 years.

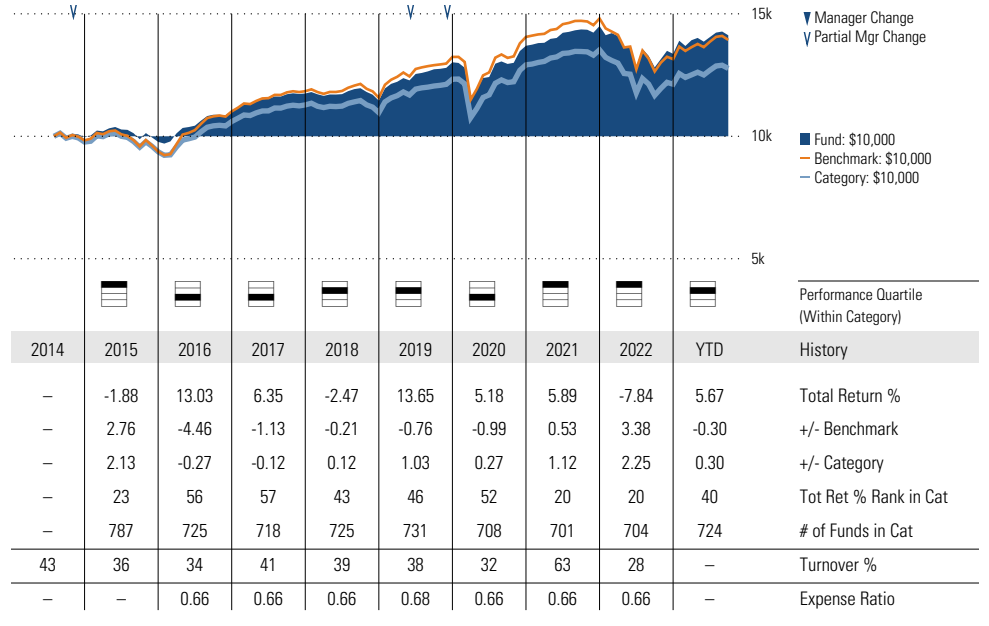
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.66 is 25.84% lower than the High Yield Bond category average.

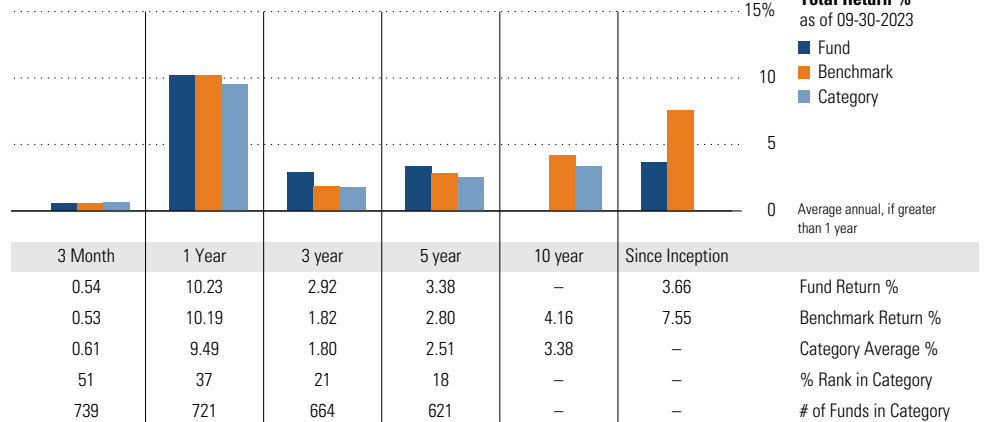
## Morningstar Investment Management LLC Analysis

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.

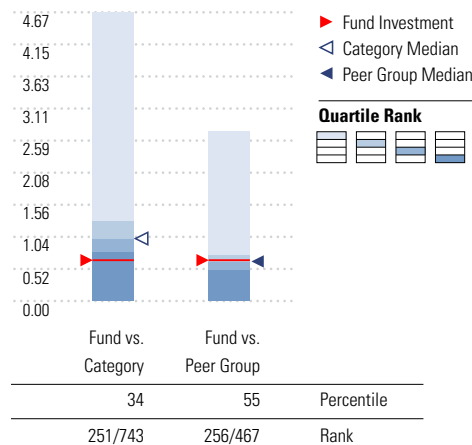
## Growth of \$10,000



## Trailing Performance



## Net Expense



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	1.20	-	0.09
Beta	0.93	-	0.90
R-Squared	97.80	-	93.92
Standard Deviation	7.61	8.13	7.53
Sharpe Ratio	0.15	0.01	0.01
Tracking Error	1.28	-	1.89
Information Ratio	0.86	-	-0.23
Up Capture Ratio	98.52	-	90.23
Down Capture Ratio	86.49	-	89.28

## Portfolio Metrics

	Fund	Bmark	Cat
Avg Eff Duration	3.71	-	3.29
Avg Eff Maturity	5.12	-	4.97

# Eaton Vance Income Fund of Boston R6 EIBRX

**Morningstar Category**  
High Yield Bond

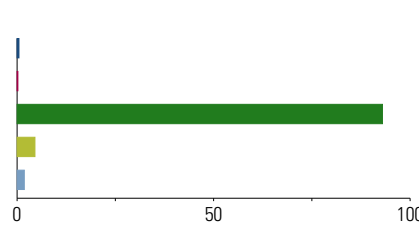
**Morningstar Index**  
ICE BofA US High Yield TR USD

## Style Analysis as of 09-30-2023

### Style Breakdown



## Asset Allocation as of 09-30-2023

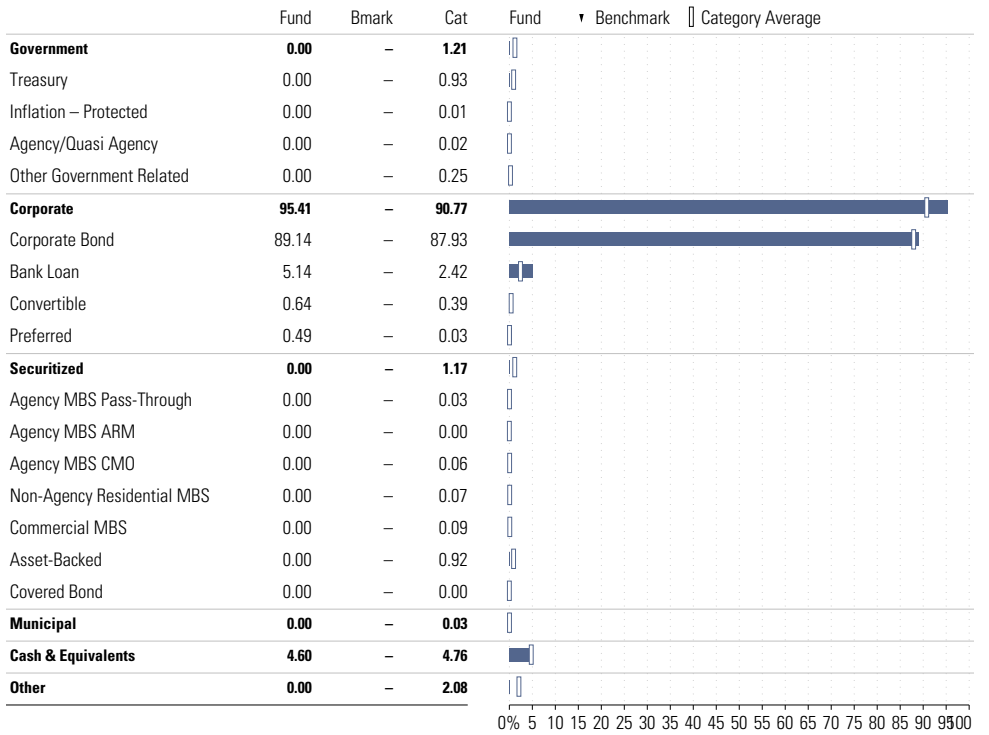


Asset Class	Net %	Cat%
US Stocks	0.47	0.60
Non-US Stocks	0.20	0.13
Bonds	92.96	94.59
Cash	4.54	3.17
Other	1.83	1.50
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

### Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	0.00	-	2.28
AA	0.00	-	0.12
A	0.00	-	0.35
BBB	6.94	-	6.05
BB	39.21	-	40.00
B	38.18	-	37.20
Below B	10.63	-	11.37
Not Rated	5.04	-	2.63

## Sector Weighting as of 09-30-2023



## Top 10 Holdings as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ Msif Government Portfolio	12-2030	4.04	4.04	-
iShares Broad USD High Yield Corp Bd ETF	-	1.49	5.53	-
CCO Holdings, LLC/ CCO Holdings Capital Corp. 4.5%	08-2030	0.78	6.31	-
Mozart Debt Merger Subordinated Inc. 5.25%	10-2029	0.63	6.94	-
Rolls-Royce PLC 5.75%	10-2027	0.56	7.50	-
Sprint Capital Corporation 6.875%	11-2028	0.54	8.04	-
Neptune Energy Bondco PLC 6.625%	05-2025	0.51	8.55	-
Panther Bf Agg 2 Fixed Coupon 4.375000 Maturity 20260515	05-2026	0.51	9.05	-
BCPE Empire Topco Inc 7.625%	05-2027	0.50	9.55	-
Compass Minerals International Inc. 6.75%	12-2027	0.49	10.04	-

**Total Holdings 466**

⊕ Increase ⊖ Decrease ✱ New to Portfolio

# Federated Hermes Govt Ultrashort R6 FGULX

**Morningstar Category**  
Ultrashort Bond

**Morningstar Index**  
Bloomberg US Agg Bond TR USD

## Portfolio Manager(s)

Susan Hill since 07-1997  
Liam O'Connell since 11-2010

## Quantitative Screens

✔ **Performance:** The fund has finished in the Ultrashort Bond 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 26.24 years.

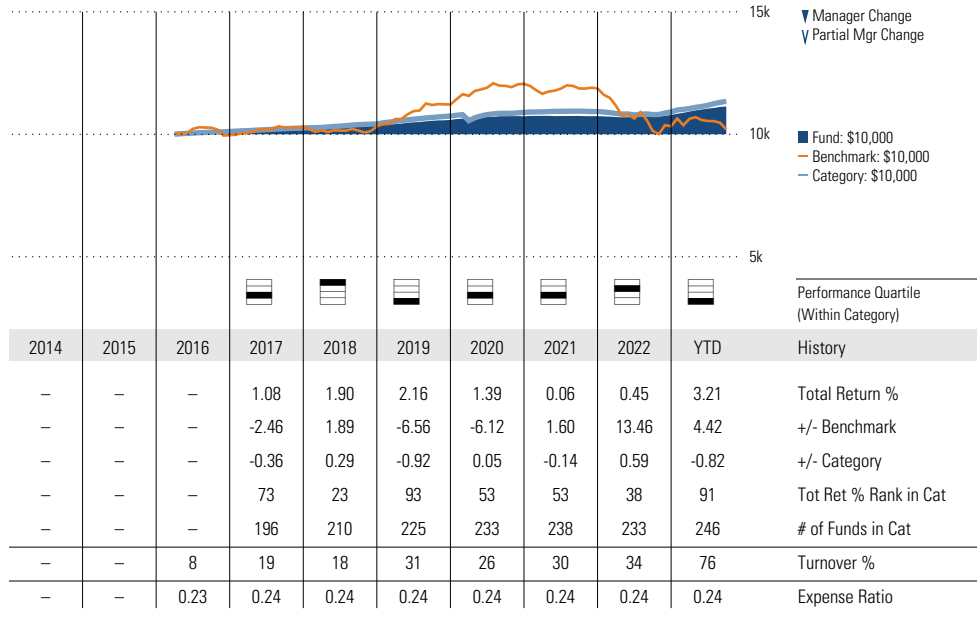
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.24 is 42.86% lower than the Ultrashort Bond category average.

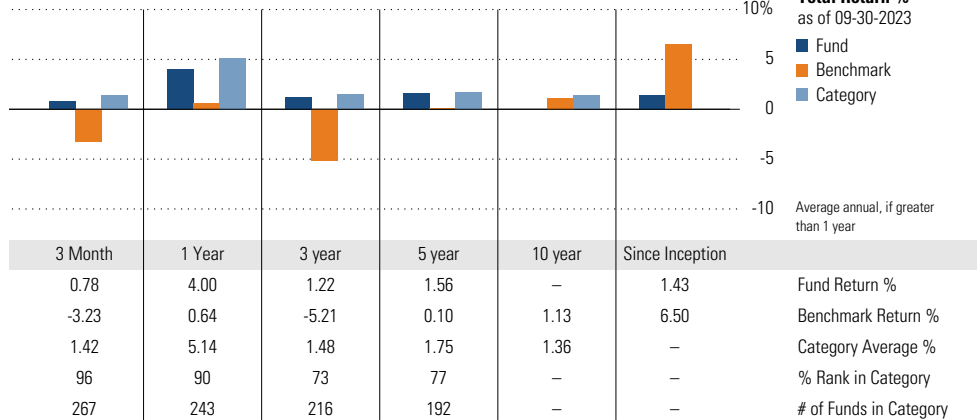
## Morningstar Investment Management LLC Analysis

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.

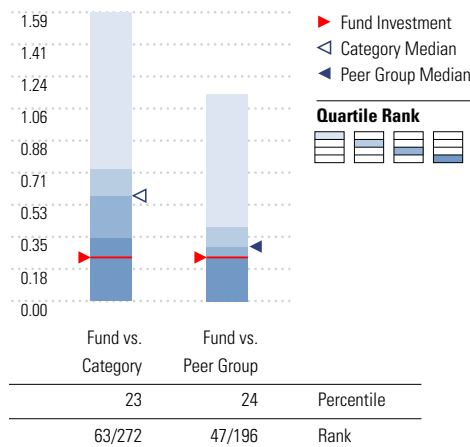
## Growth of \$10,000



## 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	1.46	-	1.85
Beta	0.05	-	0.08
R-Squared	20.77	-	21.31
Standard Deviation	0.65	6.20	1.08
Sharpe Ratio	-2.04	-1.16	-0.98
Tracking Error	5.93	-	5.82
Information Ratio	1.08	-	1.15
Up Capture Ratio	10.61	-	15.49
Down Capture Ratio	-5.49	-	-5.01

## Portfolio Metrics

	Fund	Bmark	Cat
Avg Eff Duration	0.48	4.43	0.70
Avg Eff Maturity	5.22	-	1.94

# Federated Hermes Govt Ultrashort R6 FGULX

**Morningstar Category**  
Ultrashort Bond

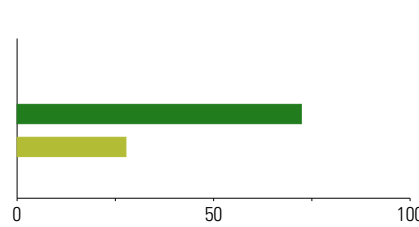
**Morningstar Index**  
Bloomberg US Agg Bond TR USD

**Style Analysis** as of 09-30-2023

**Style Breakdown**



**Asset Allocation** as of 09-30-2023

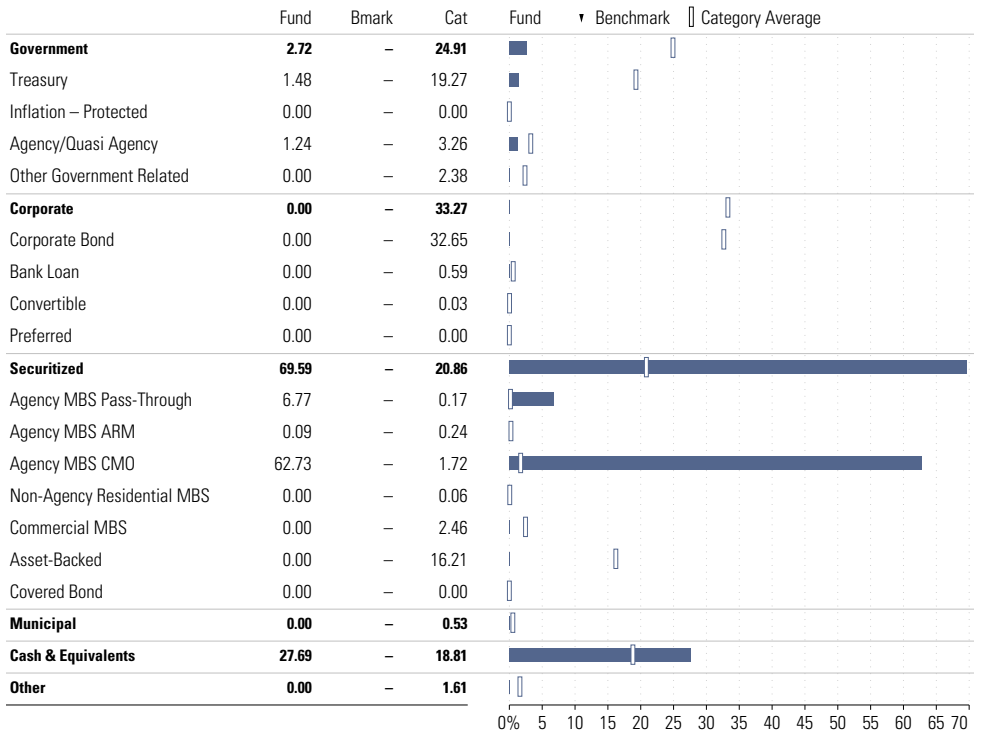


Asset Class	Net %	Cat%
US Stocks	0.00	0.10
Non-US Stocks	0.00	0.00
Bonds	72.31	71.51
Cash	27.69	28.31
Other	0.00	0.10
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Credit Rating Breakdown**

	Fund	Bmark	Cat
AAA	100.00	3.53	47.87
AA	0.00	74.59	8.37
A	0.00	10.82	21.90
BBB	0.00	8.32	16.09
BB	0.00	0.28	0.89
B	0.00	0.00	0.42
Below B	0.00	0.00	0.09
Not Rated	0.00	2.46	4.38

**Sector Weighting** as of 09-30-2023



**Top 10 Holdings** as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ Bank Of Montreal 4 Repo	07-2023	13.42	13.42	-
⊕ Hsbc Repo 2 Repo	07-2023	13.42	26.84	-
⊕ FEDERAL HOME LN MTG CORP MULTICLASS MTG PARTN CTFS GTD 5.70052%	04-2033	5.51	32.34	-
FEDERAL HOME LN MTG CORP MULTICLASS MTG PARTN CTFS GTD 5.55052%	12-2032	4.45	36.80	-
FEDERAL HOME LN MTG CORP MULTICLASS MTG PARTN CTFS GTD 5.60052%	12-2032	4.12	40.91	-
⊕ Government National Mortgage Association 5.12871%	01-2073	3.66	44.57	-
⊕ FEDERAL HOME LN MTG CORP MULTICLASS MTG PARTN CTFS GTD 5.71629%	07-2053	3.61	48.18	-
FEDERAL HOME LN MTG CORP MULTICLASS MTG PARTN CTFS GTD 5.92052%	10-2032	3.11	51.29	-
FEDERAL HOME LN MTG CORP MULTICLASS MTG PARTN CTFS GTD 5.92052%	11-2032	2.69	53.98	-
⊕ Government National Mortgage Association 6.1%	06-2053	2.58	56.56	-

**Total Holdings 193**

⊕ Increase ⊖ Decrease ✱ New to Portfolio

# Invesco Diversified Dividend R6 LCEFX

**Morningstar Category**  
Large Value

**Morningstar Index**  
Russell 1000 Value TR USD

## Portfolio Manager(s)

Christopher McMeans since 02-2016  
Caroline Le Feuvre since 06-2020  
Peter Santoro since 03-2021  
Craig Leopold since 03-2022

## Quantitative Screens

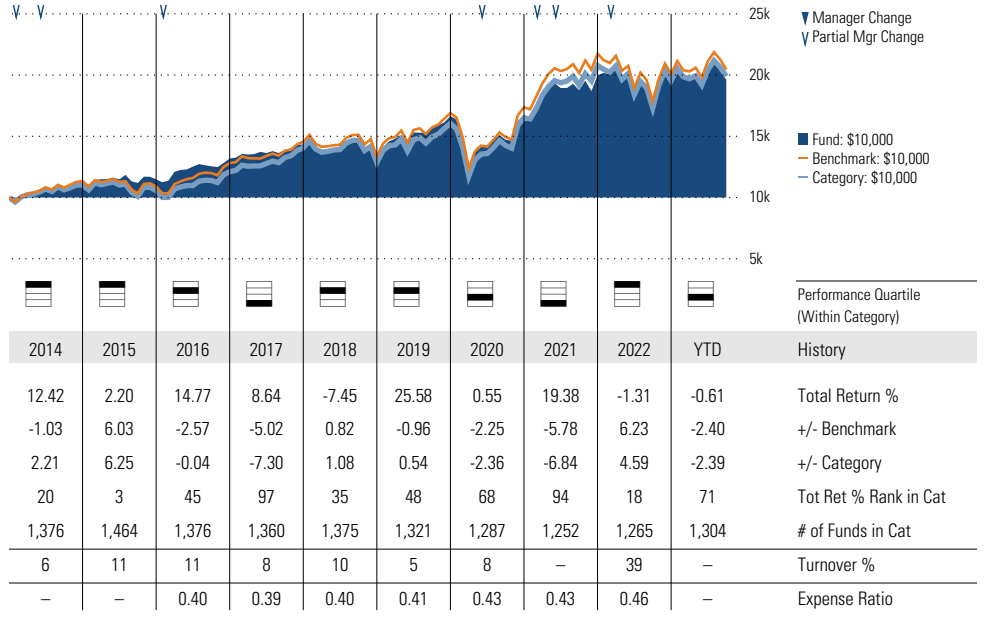
✔ **Performance:** The fund has finished in the Large Value category's top three quartiles in 8 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 7.6 years.

✔ **Style:** The fund has landed in its primary style box — Large Value — 88.89 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.46 is 48.31% lower than the Large Value category average.

## Growth of \$10,000



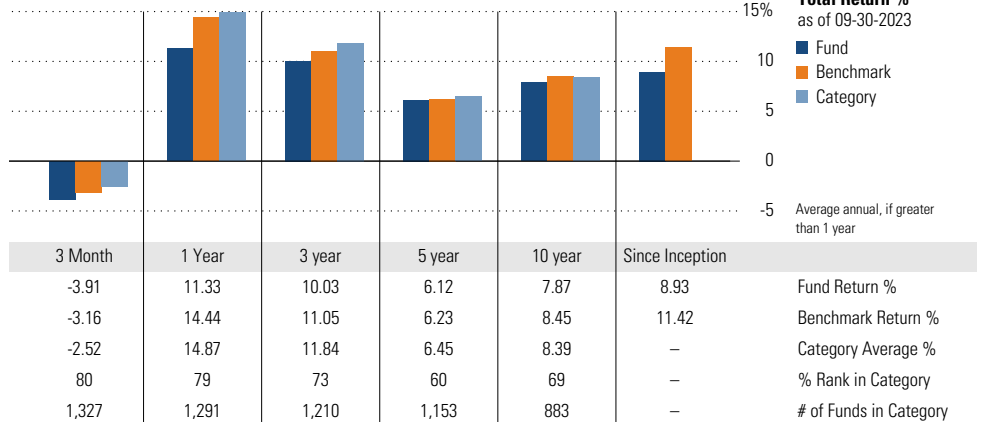
## Morningstar Investment Management LLC Analysis

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.

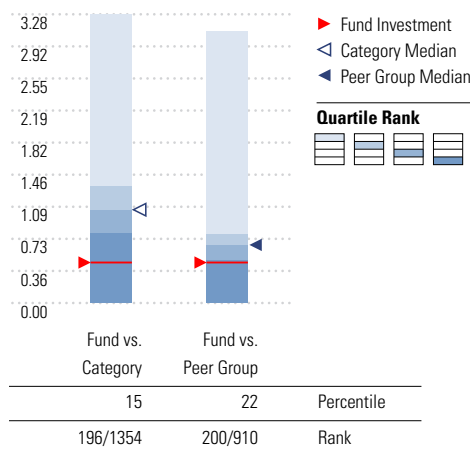
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

## Trailing Performance



## Net Expense



## 3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.40	-	1.00
Beta	0.86	-	0.98
R-Squared	94.71	-	94.36
Standard Deviation	15.61	17.59	17.70
Sharpe Ratio	0.56	0.56	0.60
Tracking Error	4.32	-	4.28
Information Ratio	-0.24	-	0.18
Up Capture Ratio	86.90	-	98.68
Down Capture Ratio	85.29	-	94.68

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	18.98	15.79	15.58
Price/Book Ratio	2.79	2.23	2.46
Geom Avg Mkt Cap \$B	112.47	68.01	118.17
ROE	21.34	16.88	22.58

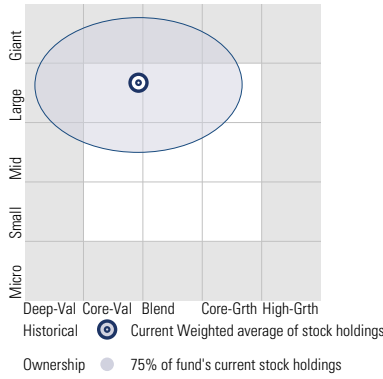
# Invesco Diversified Dividend R6 LCEFX

**Morningstar Category**  
Large Value

**Morningstar Index**  
Russell 1000 Value TR USD

## Style Analysis as of 09-30-2023

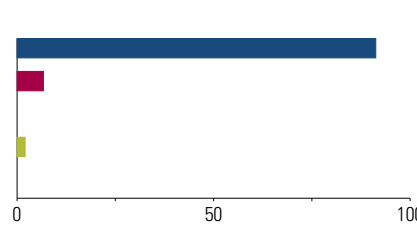
Morningstar Style Box™



## Style Breakdown

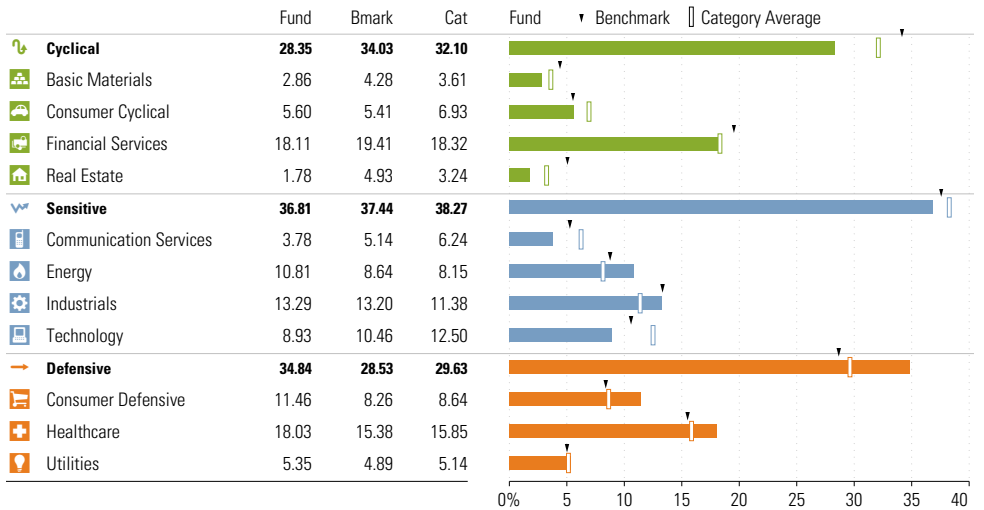


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	91.26	91.40
Non-US Stocks	6.69	6.00
Bonds	0.00	0.17
Cash	2.04	1.63
Other	0.00	0.80
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## Top 15 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Chevron Corp	3.28	3.28	-3.53	Energy
Johnson & Johnson	3.09	6.37	-9.84	Healthcare
ConocoPhillips	2.78	9.15	4.35	Energy
Walmart Inc	2.74	11.88	14.00	Consumer Defensive
Merck & Co Inc	2.18	14.06	-5.24	Healthcare
Microsoft Corp	2.18	16.24	32.51	Technology
Parker Hannifin Corp	2.07	18.31	35.33	Industrials
Becton Dickinson & Co	2.04	20.35	2.74	Healthcare
Visa Inc Class A	2.01	22.36	11.36	Financial Services
Philip Morris International Inc	2.00	24.37	-4.73	Consumer Defensive
Thermo Fisher Scientific Inc	1.98	26.35	-7.89	Healthcare
Comcast Corp Class A	1.90	28.25	29.23	Communication Svc
JPMorgan Chase & Co	1.77	30.02	10.38	Financial Services
United Parcel Service Inc Class B	1.72	31.74	-7.54	Industrials
Wells Fargo & Co	1.65	33.39	1.26	Financial Services

**Total Holdings 82**

⊕ Increase ⊖ Decrease ✨ New to Portfolio



# Invesco Oppenheimer International Gr R6 OIGIX

**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 8 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 27.53 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 0.69 is 33.01% lower than the Foreign Large Growth category average.

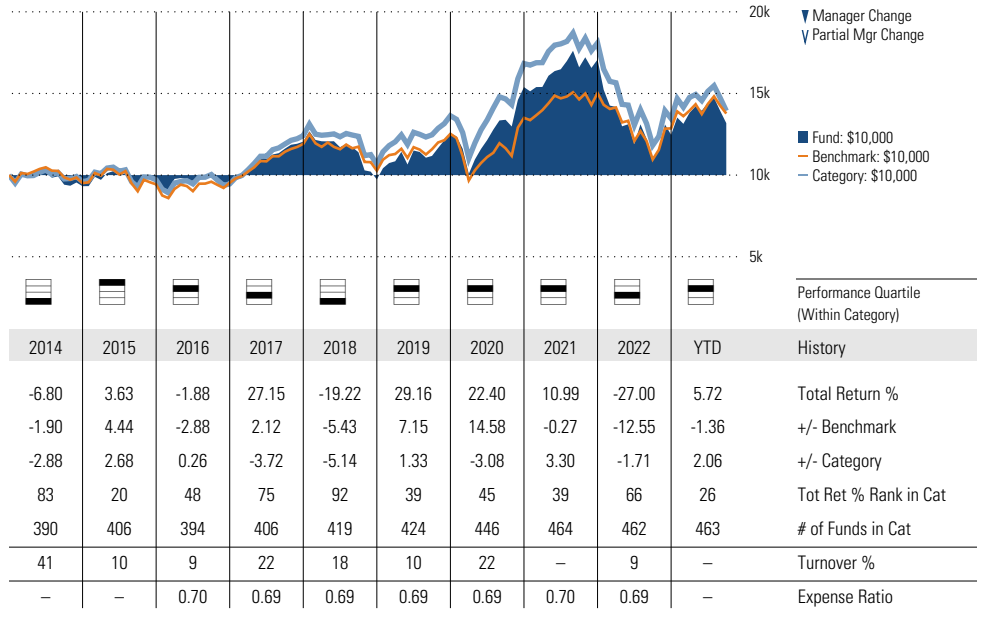
## Morningstar Investment Management LLC Analysis

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.

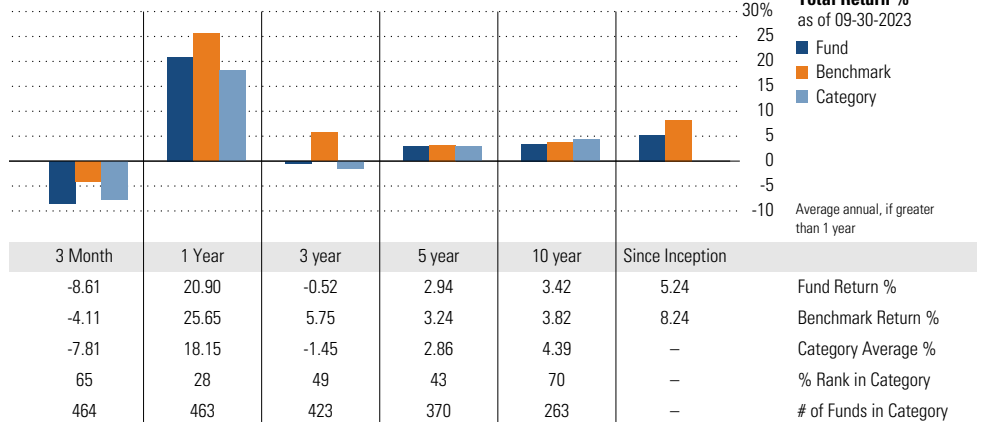
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022

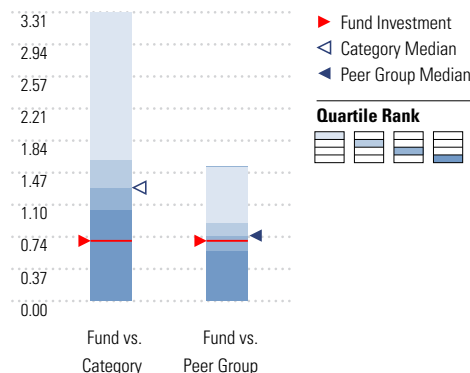
## Growth of \$10,000



## 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	-6.14	-	-7.10
Beta	1.09	-	1.00
R-Squared	86.57	-	85.01
Standard Deviation	21.28	18.23	19.94
Sharpe Ratio	-0.02	0.28	-0.08
Tracking Error	7.96	-	7.79
Information Ratio	-0.79	-	-0.96
Up Capture Ratio	101.03	-	87.36
Down Capture Ratio	128.39	-	117.78

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	27.11	13.87	22.08
Price/Book Ratio	4.74	1.69	3.45
Geom Avg Mkt Cap \$B	41.32	47.39	61.22
ROE	26.15	18.84	22.50

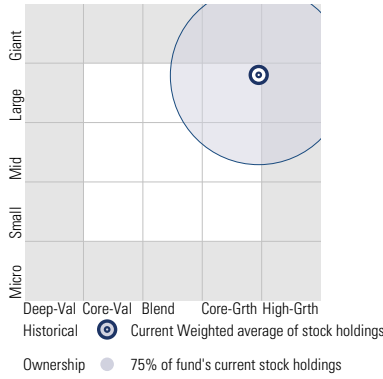
# Invesco Oppenheimer International Gr R6 OIGIX

**Morningstar Category**  
Foreign Large Growth

**Morningstar Index**  
MSCI EAFE NR USD

## Style Analysis as of 09-30-2023

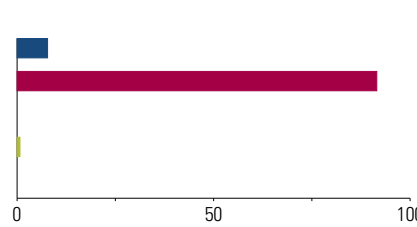
Morningstar Style Box™



## Style Breakdown



## Asset Allocation as of 09-30-2023

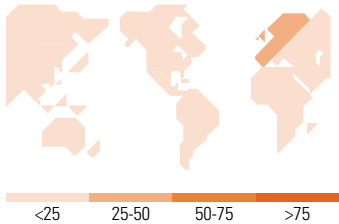


Asset Class	Net %	Cat%
US Stocks	7.75	7.23
Non-US Stocks	91.52	89.86
Bonds	0.00	0.04
Cash	0.73	2.25
Other	0.00	0.62
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023

	Fund	Bmark	Cat	Fund	Benchmark	Category Average
<b>Cyclical</b>	<b>33.48</b>	<b>39.46</b>	<b>36.15</b>			
Basic Materials	3.04	7.36	6.50			
Consumer Cyclical	23.85	11.35	14.91			
Financial Services	6.59	18.20	14.36			
Real Estate	0.00	2.55	0.38			
<b>Sensitive</b>	<b>40.30</b>	<b>33.86</b>	<b>40.29</b>			
Communication Services	3.89	4.13	3.19			
Energy	3.31	4.62	3.01			
Industrials	18.96	16.35	17.23			
Technology	14.14	8.76	16.86			
<b>Defensive</b>	<b>26.24</b>	<b>26.68</b>	<b>23.57</b>			
Consumer Defensive	10.12	9.95	8.87			
Healthcare	16.12	13.58	13.85			
Utilities	0.00	3.15	0.85			

## World Regions % Equity 09-30-2023



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	15.47	27.04	Americas	12.57	14.91	Greater Europe	71.98	58.05	Developed Markets	95.34
Japan	7.61	11.60	North America	12.57	12.77	United Kingdom	25.46	12.35	Emerging Markets	4.66
Australasia	2.15	1.55	Central/Latin	0.00	2.14	W euro-ex UK	46.52	45.17	Not Available	0.00
Asia-4 Tigers	1.05	6.63				Emrgng Europe	0.00	0.04		
Asia-ex 4 Tigers	4.66	7.26				Africa	0.00	0.49		
Not Classified	0.00	0.00								

## Top 10 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Novo Nordisk A/S Class B	4.71	4.71	-	Healthcare
LVMH Moet Hennessy Louis Vuitton SE	3.61	8.32	-	Consumer Cyclical
Reliance Industries Ltd	3.07	11.40	-	Energy
Compass Group PLC	2.89	14.29	-	Consumer Cyclical
Epiroc Ab	2.86	17.15	-	-
London Stock Exchange Group PLC	2.75	19.91	-	Financial Services
ASML Holding NV	2.72	22.63	-	Technology
Hermes International SA	2.66	25.29	-	Consumer Cyclical
Flutter Entertainment PLC	2.58	27.87	-	Consumer Cyclical
Dollarama Inc	2.51	30.38	18.42	Consumer Defensive

**Total Holdings 85**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# MFS Growth R6 MFEKX

**Morningstar Category**  
Large Growth

**Morningstar Index**  
Russell 1000 Growth TR USD

## Portfolio Manager(s)

Eric Fischman since 04-2002  
Bradford Mak since 06-2021

## 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 21.51 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 0.5 is 46.81% lower than the Large Growth category average.

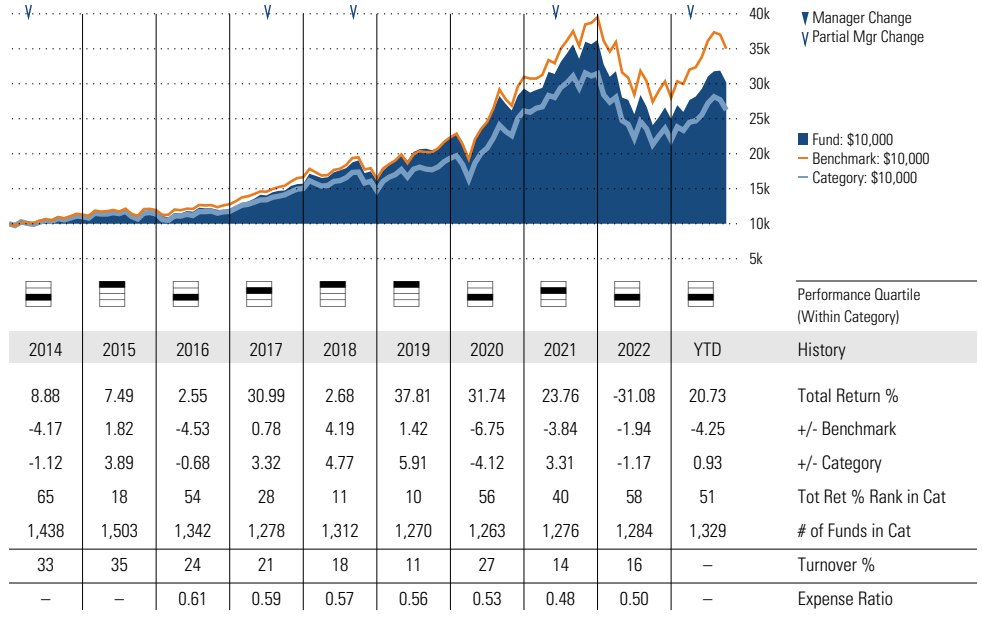
## Morningstar Investment Management LLC Analysis

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.

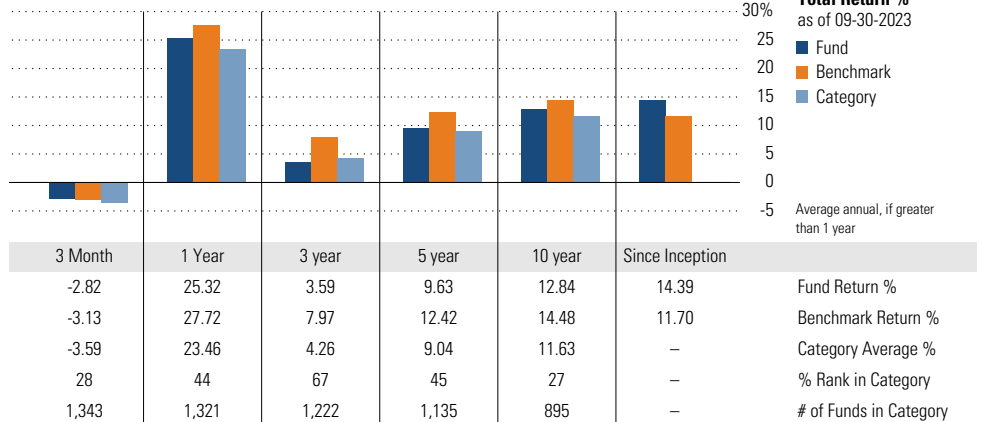
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	2-Basic	02-15-2022

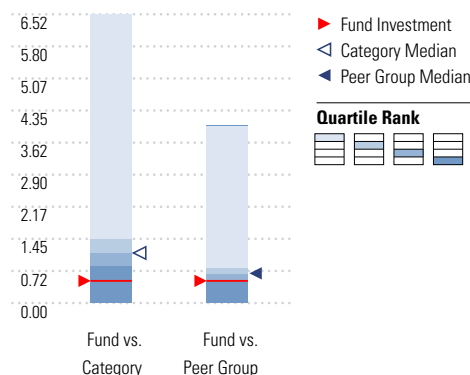
## Growth of \$10,000



## 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	-3.82	-	-3.72
Beta	0.95	-	0.97
R-Squared	97.31	-	91.78
Standard Deviation	20.07	20.81	21.20
Sharpe Ratio	0.17	0.37	0.20
Tracking Error	3.44	-	6.04
Information Ratio	-1.27	-	-0.75
Up Capture Ratio	88.96	-	87.74
Down Capture Ratio	101.78	-	100.10

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	36.83	32.24	30.95
Price/Book Ratio	8.45	10.54	7.97
Geom Avg Mkt Cap \$B	334.81	399.08	418.79
ROE	31.68	39.31	33.78

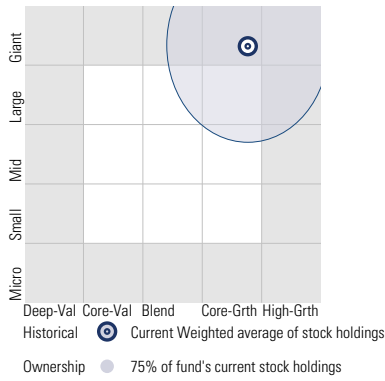
# MFS Growth R6 MFEKX

**Morningstar Category**  
Large Growth

**Morningstar Index**  
Russell 1000 Growth TR USD

## Style Analysis as of 09-30-2023

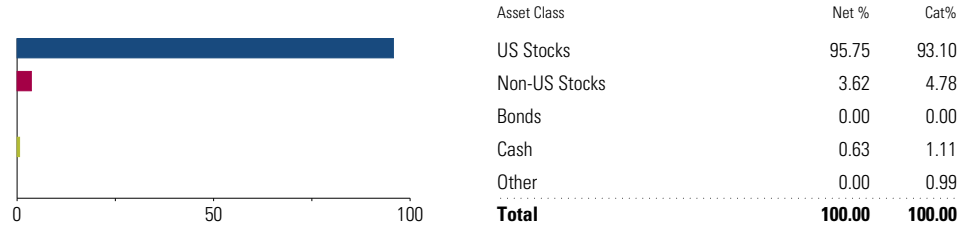
Morningstar Style Box™



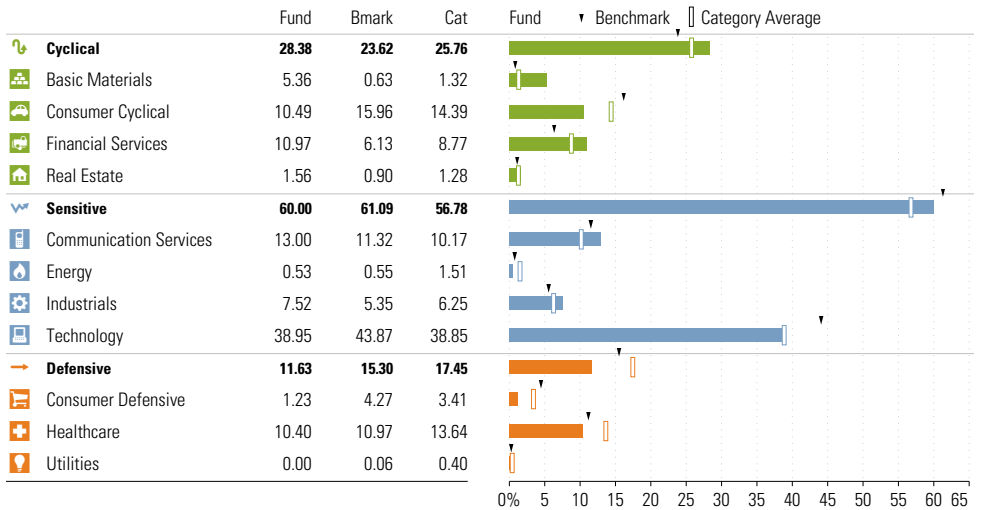
## Style Breakdown



## Asset Allocation as of 09-30-2023



## Sector Weighting as of 09-30-2023



## Top 15 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Microsoft Corp	13.43	13.43	32.51	Technology
Alphabet Inc Class A	6.22	19.65	48.32	Communication Svc
Apple Inc	6.22	25.87	32.32	Technology
Amazon.com Inc	5.95	31.82	51.33	Consumer Cyclical
NVIDIA Corp	5.80	37.63	197.74	Technology
Mastercard Inc Class A	3.72	41.35	14.35	Financial Services
Meta Platforms Inc Class A	3.66	45.01	149.47	Communication Svc
Visa Inc Class A	3.12	48.12	11.36	Financial Services
Vulcan Materials Co	1.85	49.97	16.10	Basic Materials
Boston Scientific Corp	1.84	51.81	14.11	Healthcare
Verisk Analytics Inc	1.71	53.52	34.49	Industrials
MSCI Inc	1.68	55.19	11.19	Financial Services
Alphabet Inc Class C	1.67	56.86	48.60	Communication Svc
Vertex Pharmaceuticals Inc	1.63	58.49	20.42	Healthcare
Cadence Design Systems Inc	1.55	60.04	45.85	Technology

**Total Holdings 73**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# MFS Massachusetts Investors Tr R6 MITJX

Morningstar Category  
Large Blend

Morningstar Index  
S&P 500 TR USD

## Portfolio Manager(s)

Alison O'Neill since 05-2018  
Jude Jason since 06-2021

## 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 5.42 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 0.37 is 50.67% lower than the Large Blend category average.

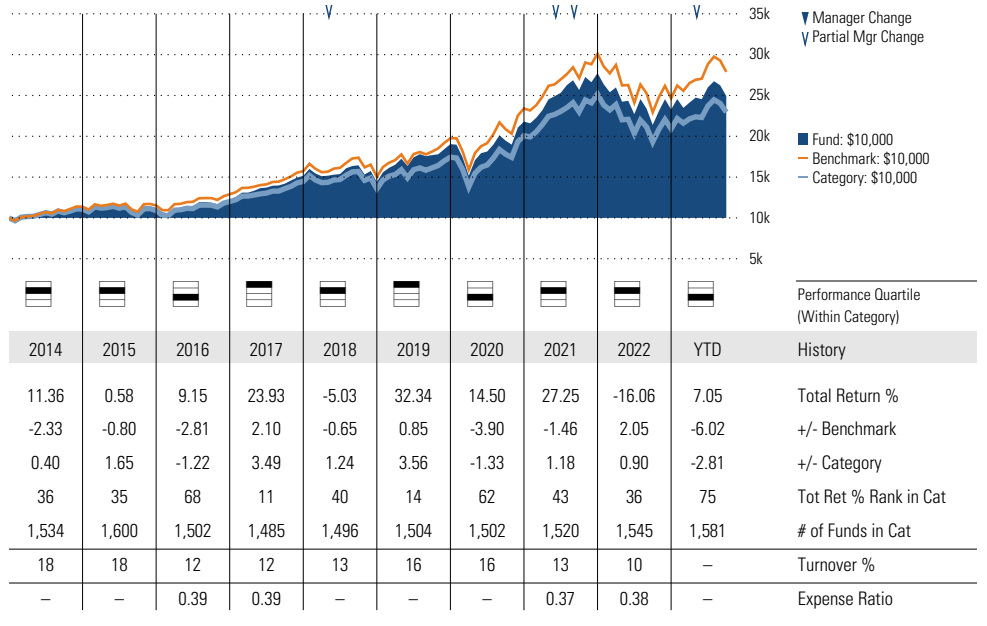
## Morningstar Investment Management LLC Analysis

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.

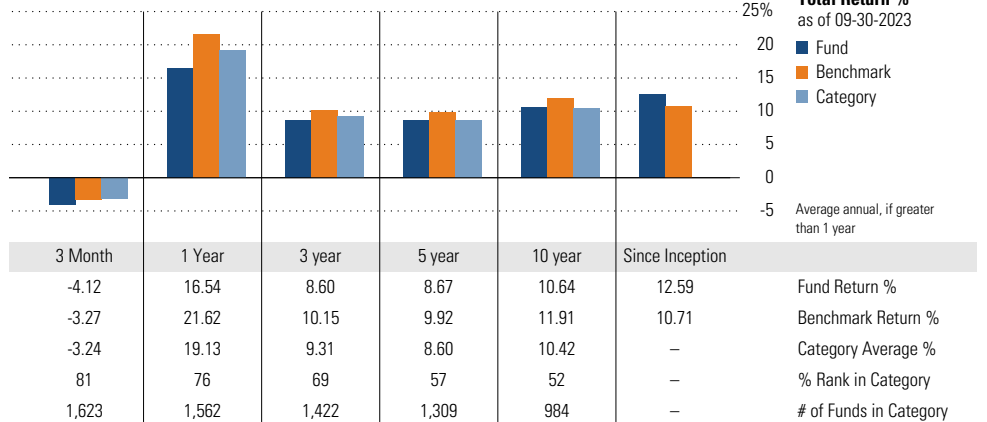
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022

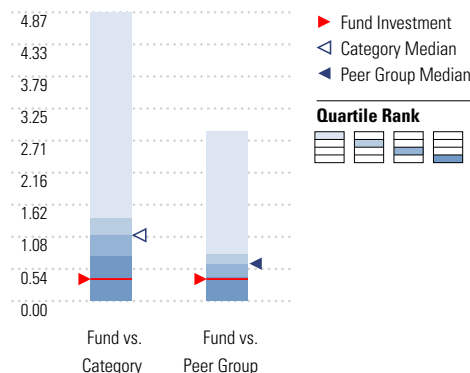
## Growth of \$10,000



## 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	-0.90	-	-0.66
Beta	0.94	-	0.95
R-Squared	97.15	-	94.61
Standard Deviation	17.01	17.85	17.40
Sharpe Ratio	0.45	0.52	0.45
Tracking Error	3.07	-	3.74
Information Ratio	-0.51	-	-1.15
Up Capture Ratio	95.12	-	93.16
Down Capture Ratio	99.72	-	95.77

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	24.98	22.40	22.25
Price/Book Ratio	4.15	3.98	4.46
Geom Avg Mkt Cap \$B	188.03	228.69	275.77
ROE	27.40	30.76	29.52

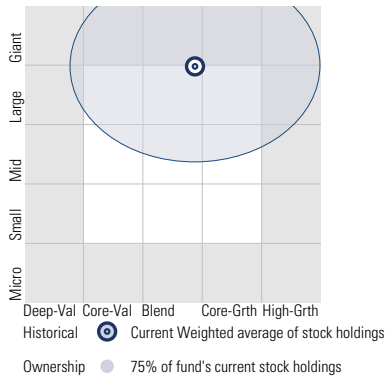
# MFS Massachusetts Investors Tr R6 MITJX

**Morningstar Category**  
Large Blend

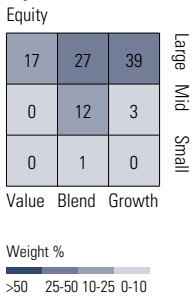
**Morningstar Index**  
S&P 500 TR USD

## Style Analysis as of 09-30-2023

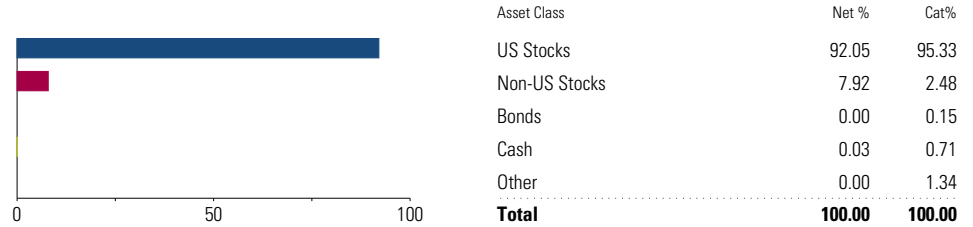
Morningstar Style Box™



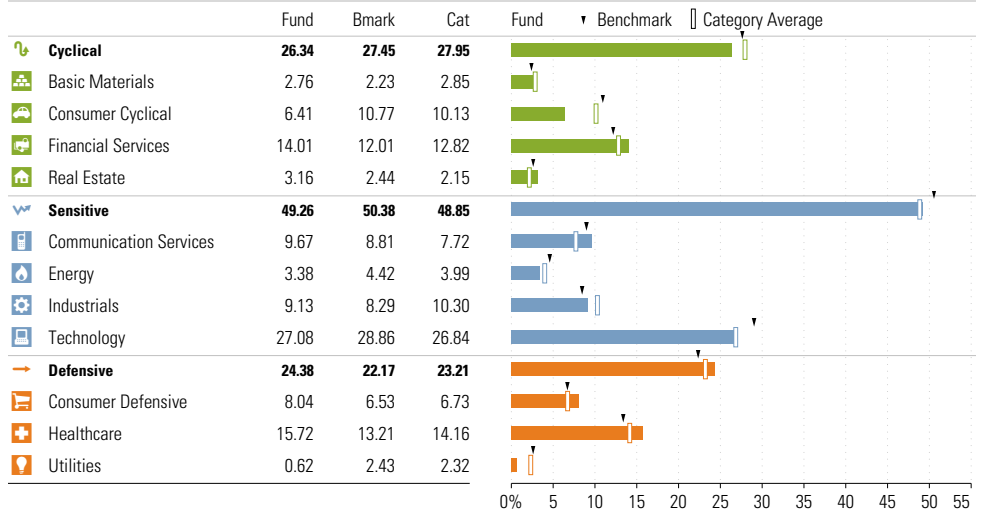
## Style Breakdown



## Asset Allocation as of 09-30-2023



## Sector Weighting as of 09-30-2023



## Top 15 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Microsoft Corp	8.39	8.39	32.51	Technology
Alphabet Inc Class A	5.28	13.67	48.32	Communication Svc
Apple Inc	4.33	18.00	32.32	Technology
ConocoPhillips	2.86	20.86	4.35	Energy
JPMorgan Chase & Co	2.75	23.61	10.38	Financial Services
Visa Inc Class A	2.14	25.75	11.36	Financial Services
Amazon.com Inc	2.05	27.80	51.33	Consumer Cyclical
Mastercard Inc Class A	1.90	29.70	14.35	Financial Services
Honeywell International Inc	1.80	31.50	-12.35	Industrials
Vertex Pharmaceuticals Inc	1.79	33.29	20.42	Healthcare
Johnson Controls International PLC	1.77	35.06	-15.14	Industrials
The Goldman Sachs Group Inc	1.72	36.78	-3.51	Financial Services
Howmet Aerospace Inc	1.65	38.43	17.66	Industrials
Medtronic PLC	1.64	40.07	3.47	Healthcare
Johnson & Johnson	1.58	41.66	-9.84	Healthcare

**Total Holdings 74**

⊕ 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  
Eric Braz since 06-2021

## Quantitative Screens

- Performance:** The fund has finished in the Mid-Cap 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 14.87 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 0.66 is 37.74% lower than the Mid-Cap Growth category average.

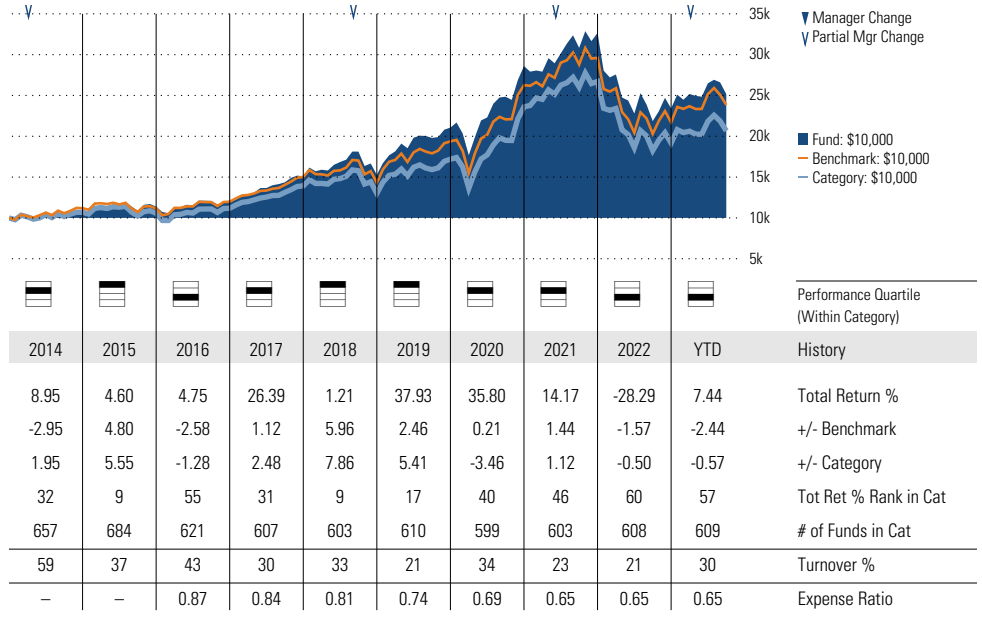
## Morningstar Investment Management LLC Analysis

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.

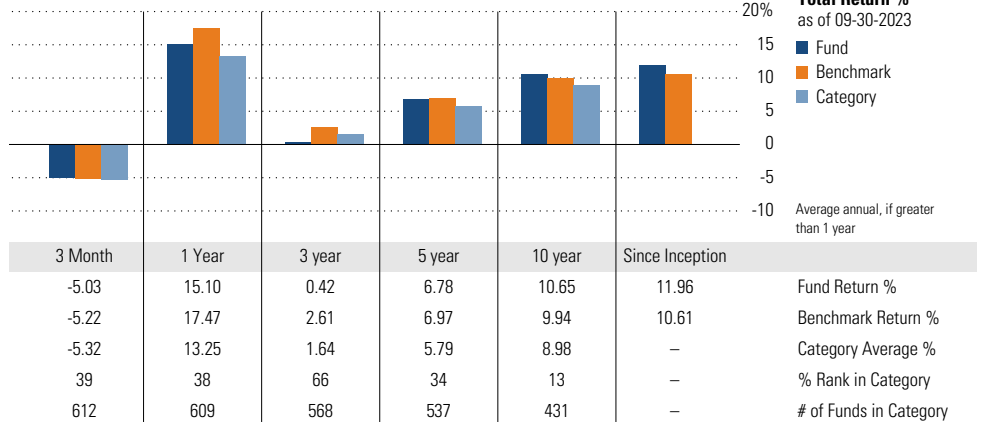
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	5	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	2-Basic	02-15-2022

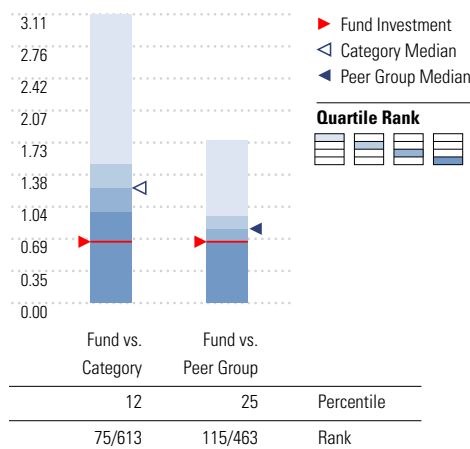
## Growth of \$10,000



## 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	-1.94	-	-1.41
Beta	0.91	-	0.98
R-Squared	93.01	-	90.19
Standard Deviation	19.90	21.11	22.04
Sharpe Ratio	0.02	0.13	0.07
Tracking Error	5.60	-	6.86
Information Ratio	-0.39	-	-0.38
Up Capture Ratio	92.74	-	96.49
Down Capture Ratio	100.20	-	102.58

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	29.33	26.49	27.73
Price/Book Ratio	5.38	7.98	5.01
Geom Avg Mkt Cap \$B	24.74	21.22	20.35
ROE	20.80	22.49	15.69

# MFS Mid Cap Growth R6 OTCKX

Morningstar Category

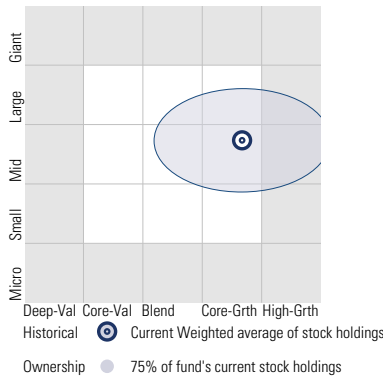
Mid-Cap Growth

Morningstar Index

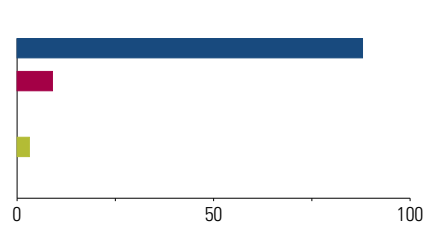
Russell Mid Cap Growth TR USD

## Style Analysis as of 09-30-2023

Morningstar Style Box™

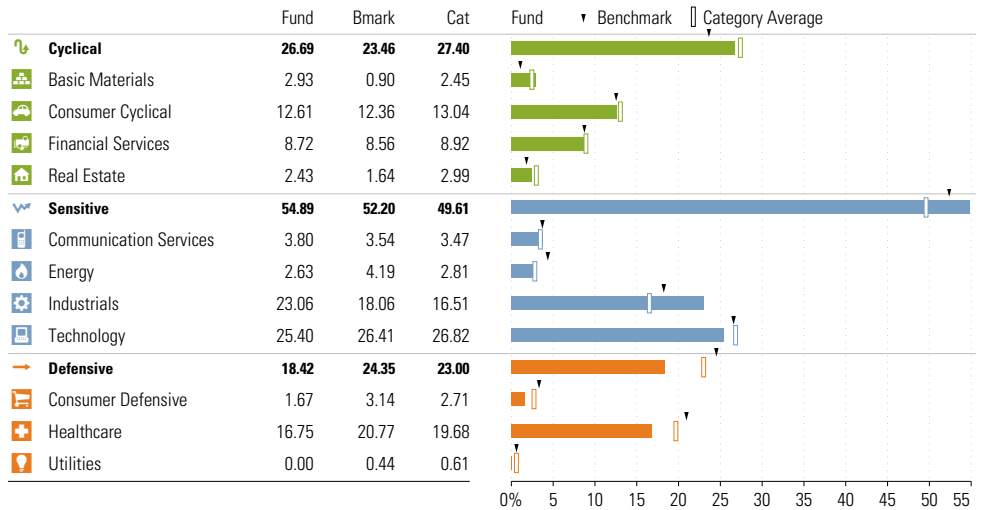


## Asset Allocation as of 09-30-2023

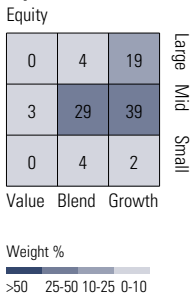


Asset Class	Net %	Cat%
US Stocks	87.89	93.49
Non-US Stocks	8.99	4.04
Bonds	0.00	0.11
Cash	3.12	1.74
Other	0.00	0.64
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## Style Breakdown



## Top 15 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Currency Cash CASH_USD	3.11	3.11	-	-
⊖ Arthur J. Gallagher & Co	3.08	6.19	21.77	Financial Services
⊖ Monolithic Power Systems Inc	3.07	9.26	31.50	Technology
⊕ Verisk Analytics Inc	2.91	12.17	34.49	Industrials
⊖ Cadence Design Systems Inc	2.84	15.02	45.85	Technology
⊖ AMETEK Inc	2.78	17.79	6.29	Industrials
⊖ MSCI Inc	2.52	20.31	11.19	Financial Services
⊖ Vulcan Materials Co	2.43	22.74	16.10	Basic Materials
⊖ Steris PLC	2.41	25.15	19.60	Healthcare
⊖ Copart Inc	2.04	27.19	41.53	Industrials
⊖ Synopsys Inc	1.97	29.16	43.75	Technology
⊖ ASM International NV	1.95	31.12	-	Technology
⊖ CoStar Group Inc	1.95	33.06	-0.50	Real Estate
⊖ Howmet Aerospace Inc	1.93	34.99	17.66	Industrials
⊖ Constellation Software Inc	1.81	36.80	34.82	Technology

**Total Holdings 97**

⊕ Increase ⊖ Decrease ✨ New to Portfolio



# PGIM Jennison Small Company R6 PJSQX

**Morningstar Category**  
Small Growth

**Morningstar Index**  
Russell 2000 Growth TR USD

## Portfolio Manager(s)

Jason Swiatek since 11-2013  
Jonathan Shapiro since 07-2018

## Quantitative Screens

✔ **Performance:** The fund has finished in the Small Growth 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 9.85 years.

✘ **Style:** The fund has landed in its primary style box — Small Growth — 11.76 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.71 is 38.79% lower than the Small Growth category average.

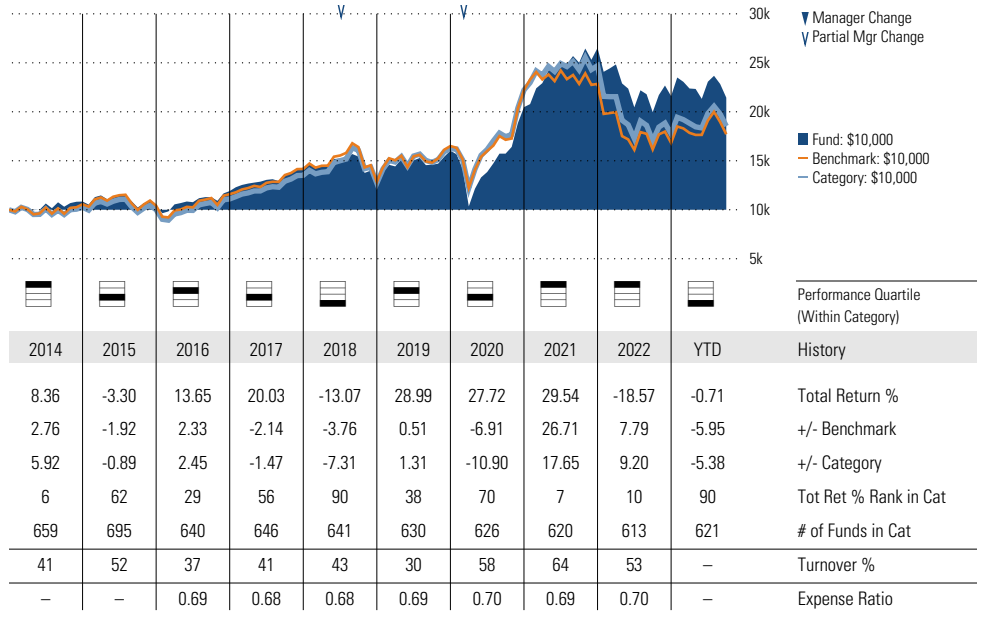
## Morningstar Investment Management LLC Analysis

This fund fails our style screen due to edging up into mid-cap territory but its portfolio positioning is consistent with the overall investment strategy.

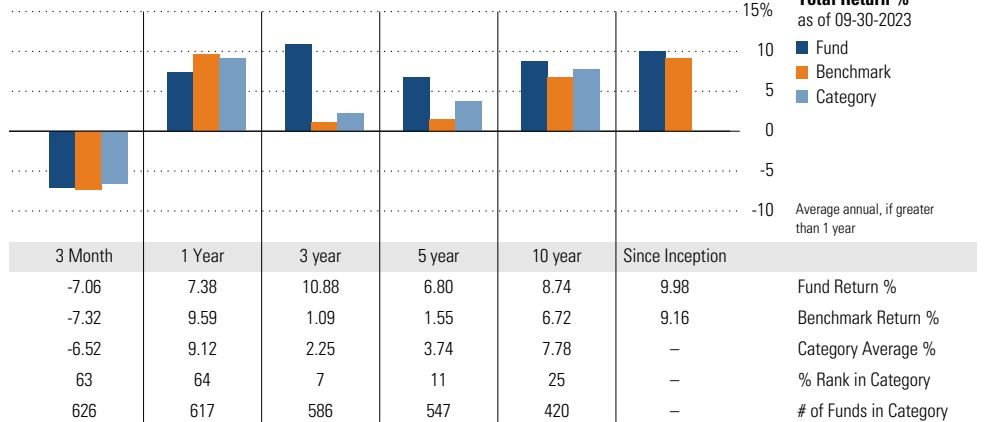
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

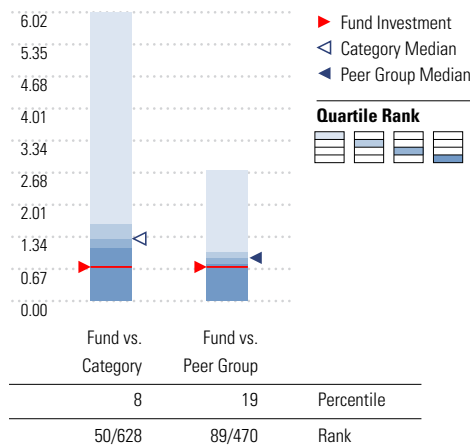
## Growth of \$10,000



## 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	9.42	-	0.22
Beta	0.81	-	0.92
R-Squared	84.29	-	89.86
Standard Deviation	20.29	22.93	22.32
Sharpe Ratio	0.51	0.07	0.07
Tracking Error	9.12	-	7.45
Information Ratio	1.07	-	-0.01
Up Capture Ratio	102.59	-	94.65
Down Capture Ratio	71.78	-	94.64

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	16.54	20.11	24.88
Price/Book Ratio	2.35	3.83	3.93
Geom Avg Mkt Cap \$B	4.83	2.75	5.46
ROE	13.85	9.52	14.27

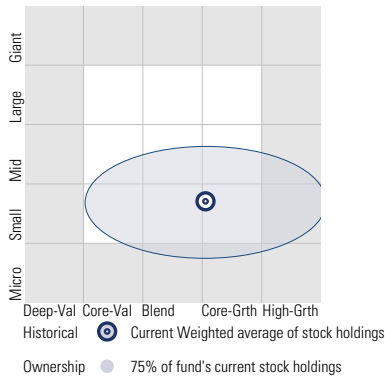
# PGIM Jennison Small Company R6 PJSQX

**Morningstar Category**  
Small Growth

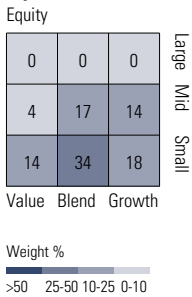
**Morningstar Index**  
Russell 2000 Growth TR USD

## Style Analysis as of 09-30-2023

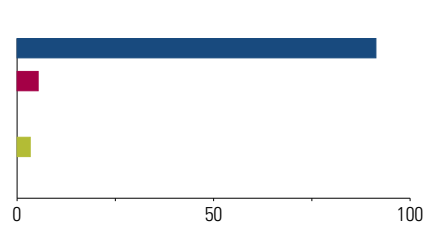
Morningstar Style Box™



## Style Breakdown

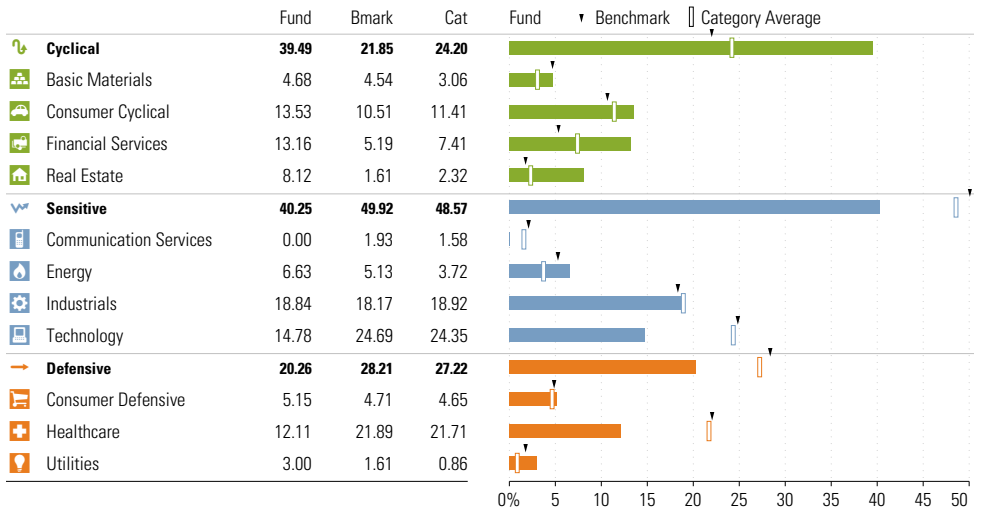


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	91.30	91.66
Non-US Stocks	5.36	4.65
Bonds	0.00	0.02
Cash	3.34	2.44
Other	0.00	1.21
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## Top 15 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Prudential Govt Money Mkt Fd	3.02	3.02	-	-
Targa Resources Corp	2.52	5.54	18.46	Energy
Gaming and Leisure Properties Inc	2.25	7.79	-7.91	Real Estate
Kirby Corp	1.96	9.75	28.67	Industrials
Trinity Industries Inc	1.93	11.67	-15.02	Industrials
Performance Food Group Co	1.90	13.58	0.80	Consumer Defensive
Universal Display Corp	1.87	15.44	46.28	Technology
Molina Healthcare Inc	1.84	17.29	-0.71	Healthcare
WEX Inc	1.67	18.96	14.93	Technology
Constellium SE Class A	1.63	20.59	53.85	Basic Materials
Chord Energy Corp Ordinary Shares - New	1.61	22.20	25.32	Energy
Sprout Social Inc Class A	1.59	23.79	-11.65	Technology
Axis Capital Holdings Ltd	1.58	25.36	6.50	Financial Services
Paycom Software Inc	1.51	26.87	-16.21	Technology
On Holding AG	1.49	28.36	-	Consumer Cyclical

**Total Holdings 121**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# PIMCO Commodity Real Ret Strat Instl PCRIX

**Morningstar Category**  
Commodities Broad Basket

**Morningstar Index**  
Bloomberg Commodity TR USD

## Portfolio Manager(s)

Greg Sharenow since 11-2018  
Stephen Rodosky since 01-2019  
Andrew Dewitt since 02-2022

## Quantitative Screens

✔ **Performance:** The fund has finished in the Commodities Broad Basket 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 4.92 years.

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.99 is 5.71% lower than the Commodities Broad Basket category average.

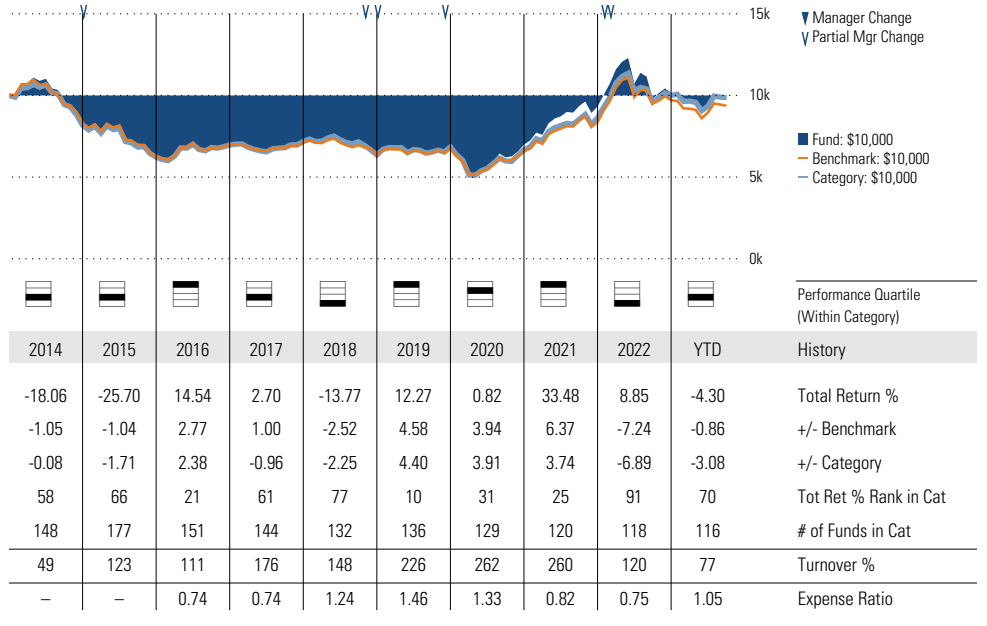
## Morningstar Investment Management LLC Analysis

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.

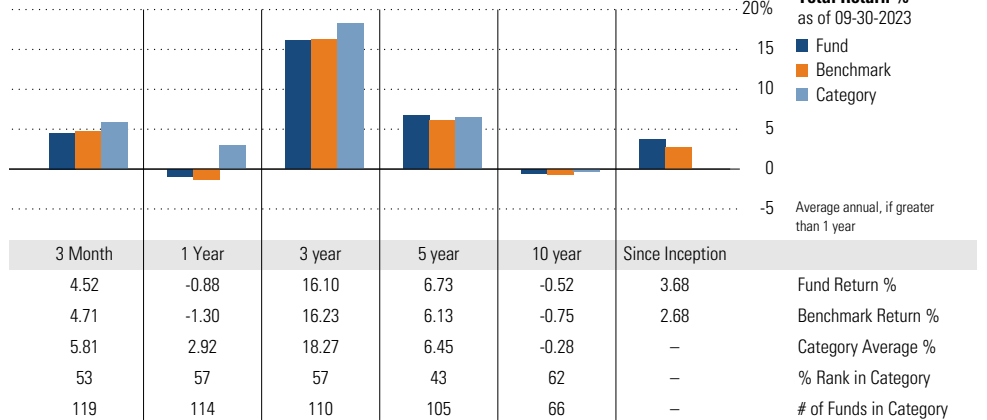
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	06-30-2023

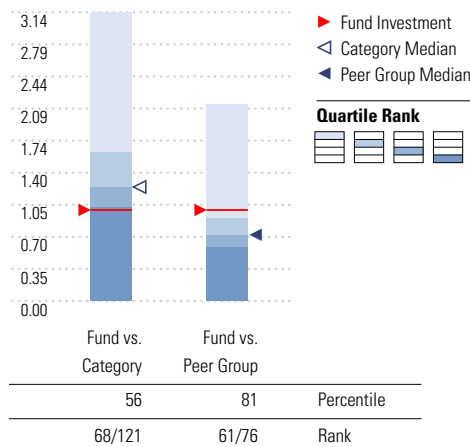
## Growth of \$10,000



## 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	-1.71	-	1.67
Beta	1.12	-	0.99
R-Squared	96.30	-	87.55
Standard Deviation	18.27	15.98	16.87
Sharpe Ratio	0.79	0.89	0.92
Tracking Error	4.02	-	5.47
Information Ratio	-0.03	-	0.11
Up Capture Ratio	107.90	-	101.07
Down Capture Ratio	115.74	-	93.74

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	12.27	-	7.93
Price/Book Ratio	3.56	-	1.87
Geom Avg Mkt Cap \$B	16.44	-	44.07
ROE	29.97	-	27.17

# PIMCO Commodity Real Ret Strat Instl PCRIX

**Morningstar Category**  
Commodities Broad Basket

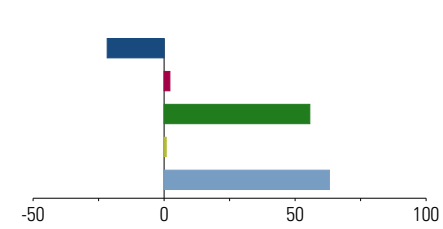
**Morningstar Index**  
Bloomberg Commodity TR USD

## Style Analysis as of 09-30-2023

Morningstar Style Box™



## Asset Allocation as of 09-30-2023

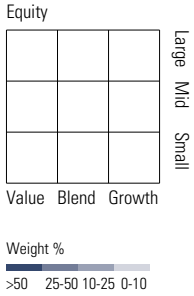


Asset Class	Net %	Cat%
US Stocks	-21.73	0.71
Non-US Stocks	2.21	0.76
Bonds	55.62	37.34
Cash	0.80	45.59
Other	63.09	15.59
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## Style Breakdown



## Top 15 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Thai Union Group Public Company Limited Future Sept 23	26.06	26.06	-	-
⊖ Euro Schatz Future Sept 23	19.30	45.36	-	-
⊕ US 5 Year Note (CBT) Sept13	15.39	60.75	-	-
⊕ Pimco Cayman Cmdty Fd Ltd Instl	12.50	73.25	-	-
⊖ United States Treasury Notes 0.125%	12.19	85.44	-	-
⊖ US 10 Year Note (CBT) Sept13	10.06	95.50	-	-
⊕ United States Treasury Notes 1.625%	9.81	105.30	-	-
⊖ EUROPEAN MONETARY UNION EURO Sold	9.56	114.86	-	-
⊖ EUROPEAN MONETARY UNION EURO Purchased	9.56	124.42	-	-
⊖ US Treasury Bond Future Sept 23	9.16	133.59	-	-
⊕ TRS R 5.24/91282CDC2 MYC	9.16	142.75	-	-
⊕ United States Treasury Notes 0.125%	8.66	151.41	-	-
⊕ TRS R 5.24/912828YL8 MYC	6.13	157.53	-	-
⊕ TRS R 5.24/912828ZJ2 MYC	5.96	163.49	-	-
✳ Offset: Unsettled Trades	5.57	169.06	-	-

**Total Holdings 802**

⊕ Increase ⊖ Decrease ✳ New to Portfolio

# PIMCO Income Instl PIMIX

**Morningstar Category**  
Multisector Bond

**Morningstar Index**  
Bloomberg 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 16.52 years.

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.62 is 36.73% lower than the Multisector Bond category average.

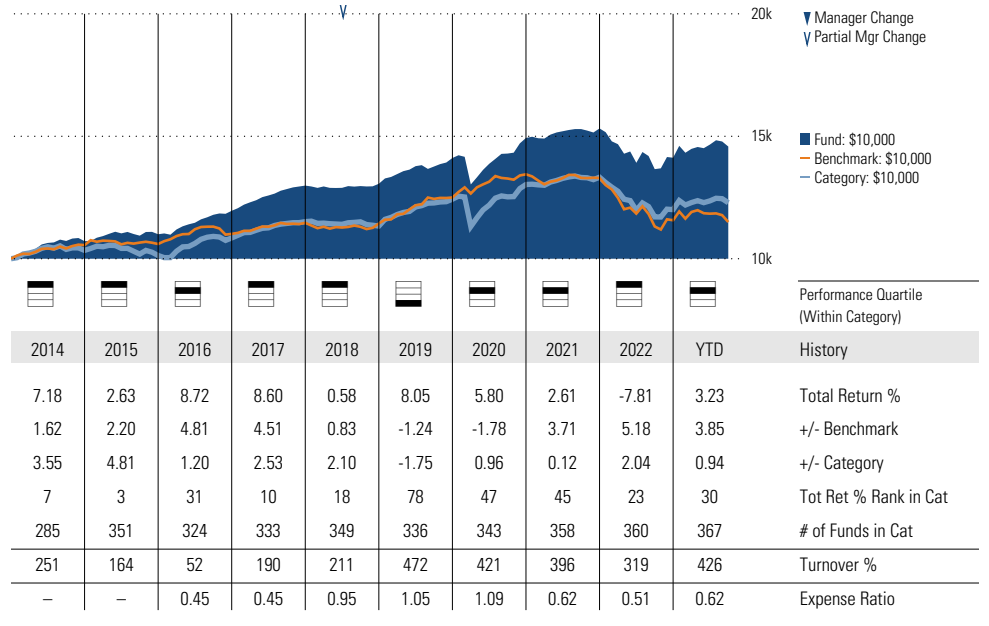
## Morningstar Investment Management LLC Analysis

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.

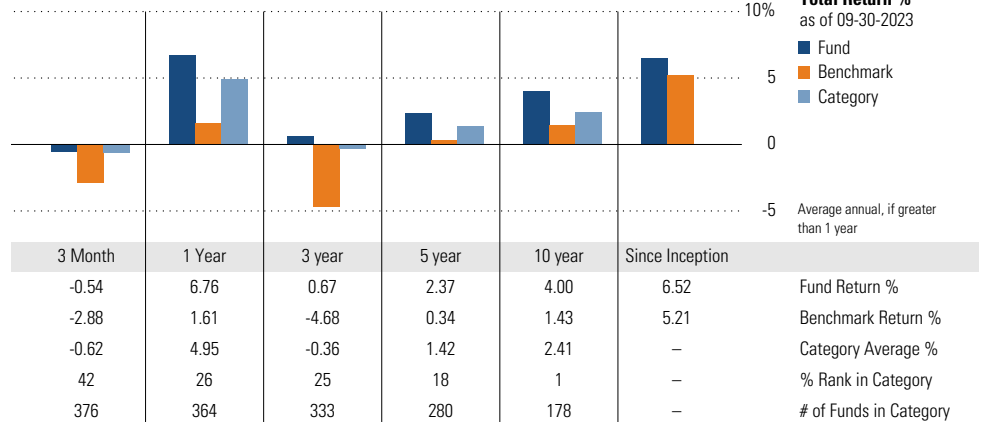
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	08-31-2023

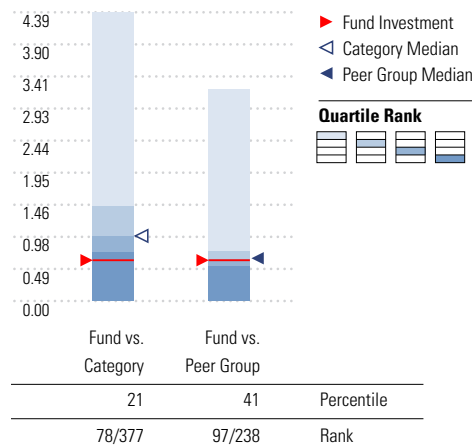
## Growth of \$10,000



## Trailing Performance



## Net Expense



## 3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	4.67	-	3.21
Beta	0.84	-	0.78
R-Squared	80.17	-	68.44
Standard Deviation	5.77	6.17	5.81
Sharpe Ratio	-0.21	-1.08	-0.40
Tracking Error	2.76	-	3.69
Information Ratio	1.94	-	1.16
Up Capture Ratio	109.80	-	92.20
Down Capture Ratio	54.17	-	55.86

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	4.01	4.55	4.43
Avg Eff Maturity	5.78	7.69	7.23

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

# PIMCO Income Instl PIMIX

**Morningstar Category**  
Multisector Bond

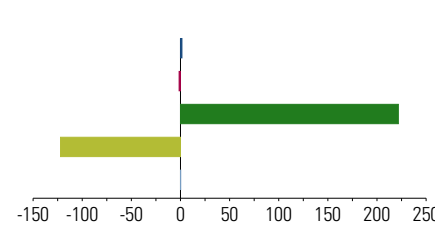
**Morningstar Index**  
Bloomberg US Universal TR USD

## Style Analysis as of 09-30-2023

### Style Breakdown



## Asset Allocation as of 09-30-2023

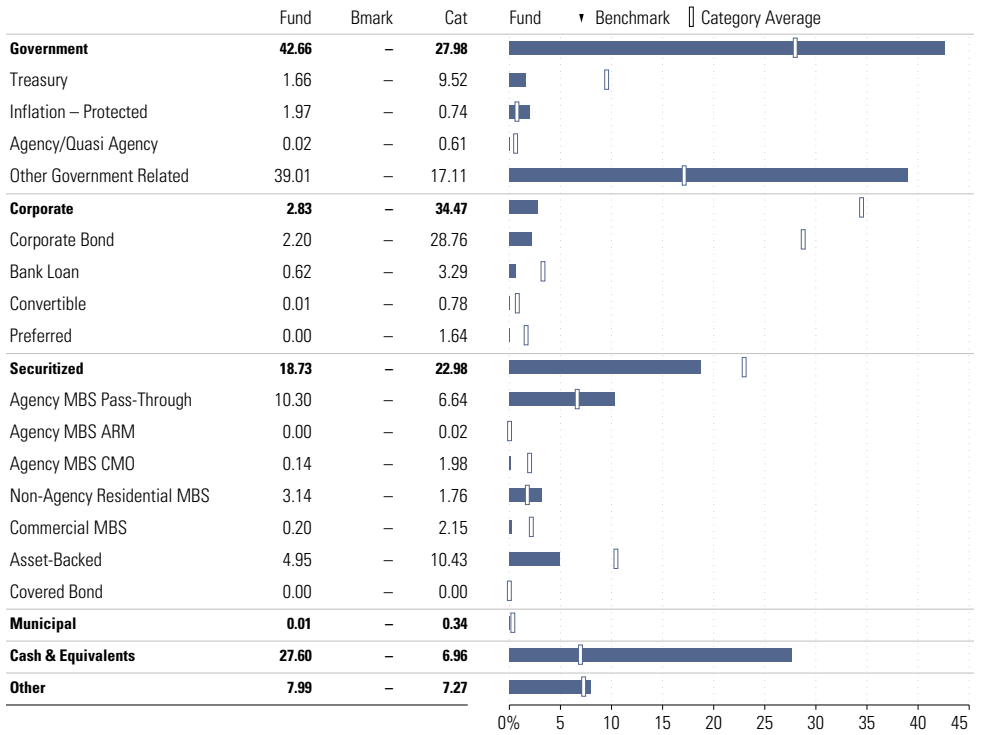


Asset Class	Net %	Cat%
US Stocks	1.48	1.20
Non-US Stocks	-1.39	0.16
Bonds	221.73	89.79
Cash	-122.08	6.58
Other	0.26	2.27
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	58.86	67.64	22.57
AA	5.30	3.23	3.57
A	3.36	10.03	8.60
BBB	11.99	10.89	21.91
BB	8.89	3.19	19.49
B	3.98	3.64	12.39
Below B	7.62	1.38	4.32
Not Rated	0.00	0.00	7.16

## Sector Weighting as of 09-30-2023



## Top 10 Holdings as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
✳ Offset: Unsettled Trades	-	40.63	40.63	-
⊕ RFR USD SOFR/5.10000 05/22/23-1Y LCH Pay	05-2024	33.49	74.12	-
⊕ RFR USD SOFR/5.10000 05/22/23-1Y LCH Receive	05-2024	33.40	107.52	-
⊕ RFR USD SOFR/5.40000 06/06/23-1Y LCH Receive	06-2024	19.71	127.23	-
⊕ RFR USD SOFR/5.40000 06/06/23-1Y LCH Pay	06-2024	19.71	146.94	-
⊕ RFR USD SOFR/4.50000 05/22/23-2Y LCH Pay	05-2025	17.27	164.21	-
⊕ RFR USD SOFR/4.50000 05/22/23-2Y LCH Receive	05-2025	17.16	181.37	-
✳ Cash Offset	-	13.42	194.79	-
⊕ RFR USD SF+26.161/1.270 11/04/22-1Y LCH Pay	11-2023	12.63	207.42	-
⊖ RFR USD SF+26.161/0.00 11/04/22-1Y* LCH Pay	08-2023	12.63	220.06	-

**Total Holdings 8508**

⊕ Increase ⊖ Decrease ✳ New to Portfolio

# PIMCO International Bond (USD-Hdg) Instl PFORX

**Morningstar Category**  
Global Bond-USD Hedged

**Morningstar Index**  
Bloomberg US Agg Bond TR USD

## Portfolio Manager(s)

Andrew Balls since 09-2014  
Lorenzo Pagani since 09-2014  
Sachin Gupta since 09-2014

## Quantitative Screens

✔ **Performance:** The fund has finished in the Global Bond-USD Hedged 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 9.02 years.

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.63 is 14.86% lower than the Global Bond-USD Hedged category average.

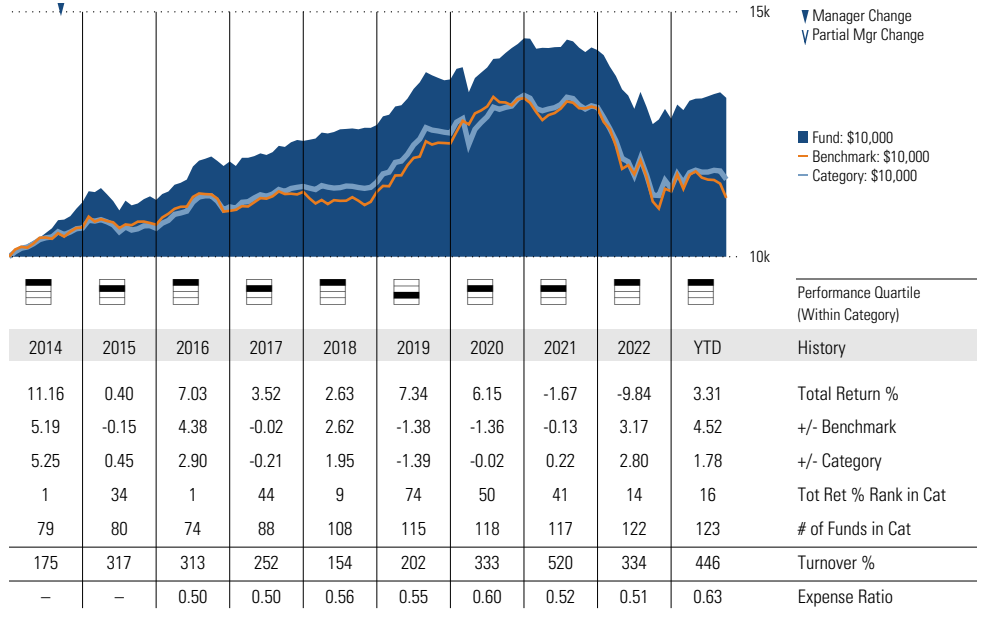
## Morningstar Investment Management LLC Analysis

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.

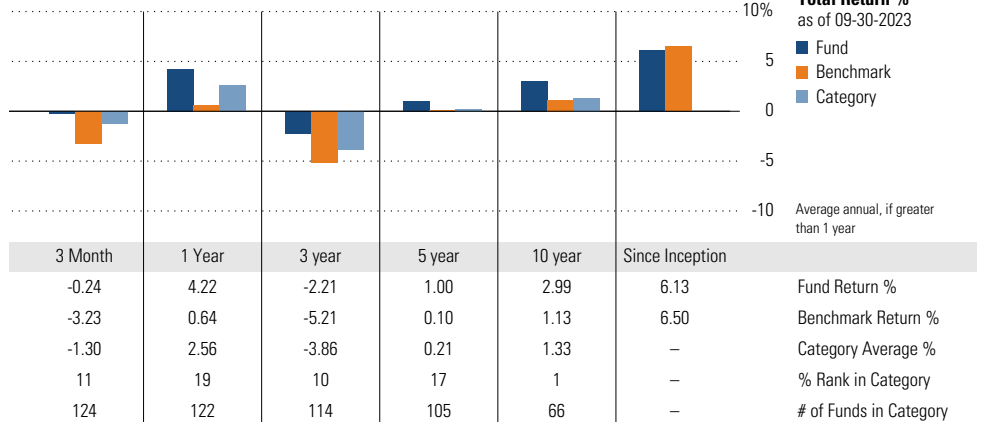
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	08-31-2023

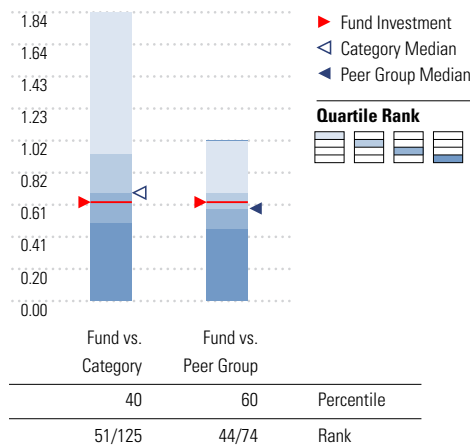
## Growth of \$10,000



## 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	0.82	-	0.33
Beta	0.58	-	0.82
R-Squared	69.07	-	79.52
Standard Deviation	4.30	6.20	5.70
Sharpe Ratio	-0.98	-1.16	-1.06
Tracking Error	3.55	-	3.02
Information Ratio	0.84	-	0.44
Up Capture Ratio	61.42	-	85.16
Down Capture Ratio	52.17	-	80.82

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	6.10	4.43	5.90
Avg Eff Maturity	7.33	-	7.58

# PIMCO International Bond (USD-Hdg) Instl PFORX

**Morningstar Category**  
Global Bond-USD Hedged

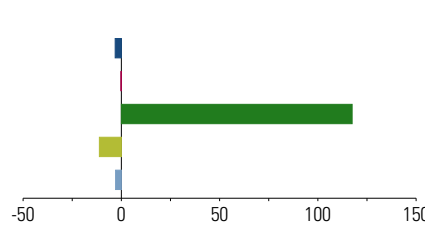
**Morningstar Index**  
Bloomberg US Agg Bond TR USD

## Style Analysis as of 09-30-2023

### Style Breakdown



## Asset Allocation as of 09-30-2023

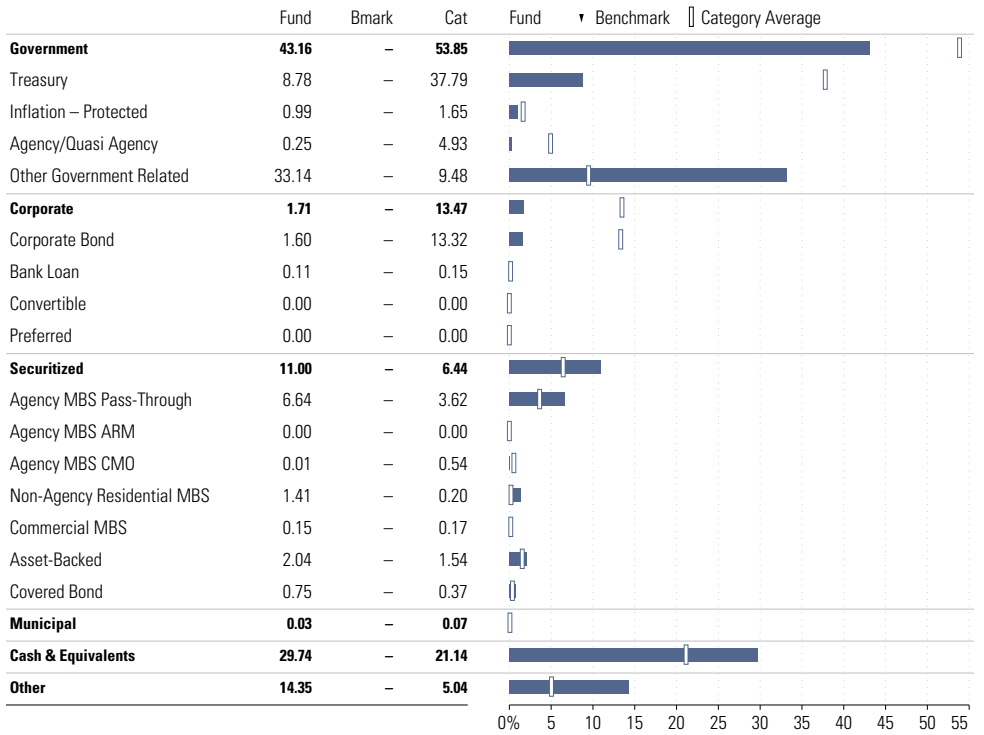


Asset Class	Net %	Cat%
US Stocks	-3.15	0.00
Non-US Stocks	-0.21	0.00
Bonds	117.44	96.60
Cash	-11.18	3.35
Other	-2.92	0.04
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	52.86	3.53	43.26
AA	16.62	74.59	16.10
A	16.00	10.82	19.14
BBB	11.32	8.32	20.17
BB	1.25	0.28	4.86
B	0.31	0.00	1.22
Below B	1.64	0.00	0.45
Not Rated	0.00	2.46	-5.21

## Sector Weighting as of 09-30-2023



## Top 10 Holdings as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
✳ Offset: Unsettled Trades	-	26.13	26.13	-
⊕ IRS EUR 3.00000 09/20/23-5Y LCH Pay	09-2028	23.18	49.31	-
⊕ IRS EUR 3.00000 09/20/23-5Y LCH Receive	09-2028	22.96	72.26	-
⊕ IRS EUR 3.00000 09/20/23-10Y LCH Receive	09-2033	15.09	87.36	-
⊕ IRS EUR 3.00000 09/20/23-10Y LCH Pay	09-2033	15.07	102.43	-
✳ Cash Offset	-	14.85	117.28	-
⊕ Pimco Fds	08-2023	10.61	127.89	-
⊕ OIS CAD CAONREPO/3.50000 05/10/24-1Y LCH Pay	05-2025	10.38	138.28	-
⊕ OIS CAD CAONREPO/3.50000 05/10/24-1Y LCH Receive	05-2025	10.28	148.55	-
⊖ Euro Bobl Future Sept 23	09-2023	10.14	158.69	-

**Total Holdings 1673**

⊕ 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  
Nick Birkett since 08-2023  
Aaron Choi since 08-2023

## 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 7.43 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 94.67% 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.

## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

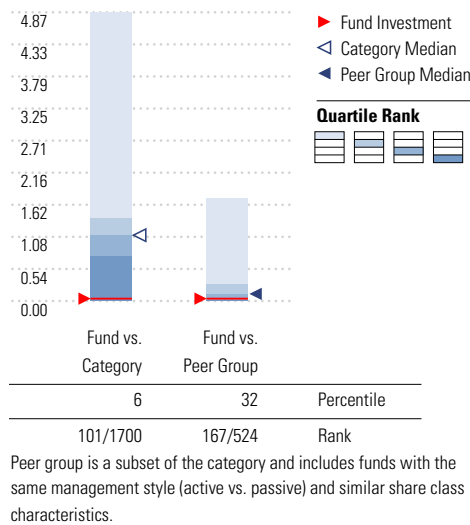
## Growth of \$10,000



## Trailing Performance



## Net Expense



## 3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	-0.04	-	-0.66
Beta	1.00	-	0.95
R-Squared	100.00	-	94.61
Standard Deviation	17.85	17.85	17.40
Sharpe Ratio	0.51	0.52	0.45
Tracking Error	0.01	-	3.74
Information Ratio	-4.76	-	-1.15
Up Capture Ratio	99.93	-	93.16
Down Capture Ratio	100.07	-	95.77

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	22.41	22.40	22.25
Price/Book Ratio	3.99	3.98	4.46
Geom Avg Mkt Cap \$B	228.88	228.69	275.77
ROE	30.78	30.76	29.52

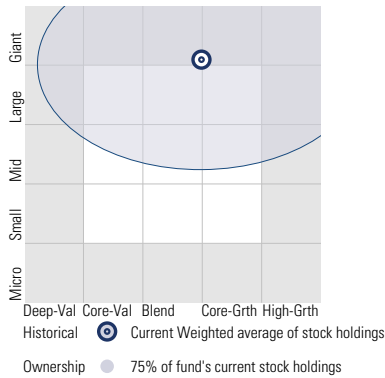
# Vanguard 500 Index Admiral VFIAX

**Morningstar Category**  
Large Blend

**Morningstar Index**  
S&P 500 TR USD

## Style Analysis as of 09-30-2023

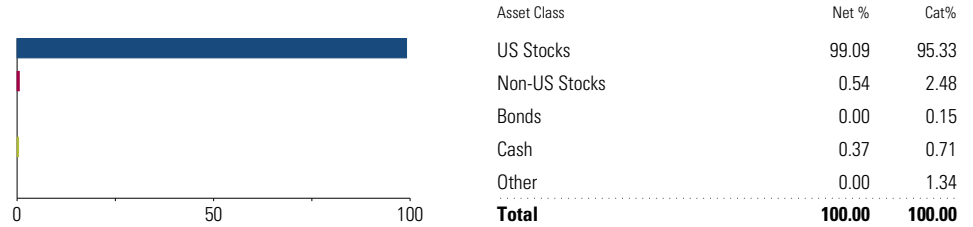
Morningstar Style Box™



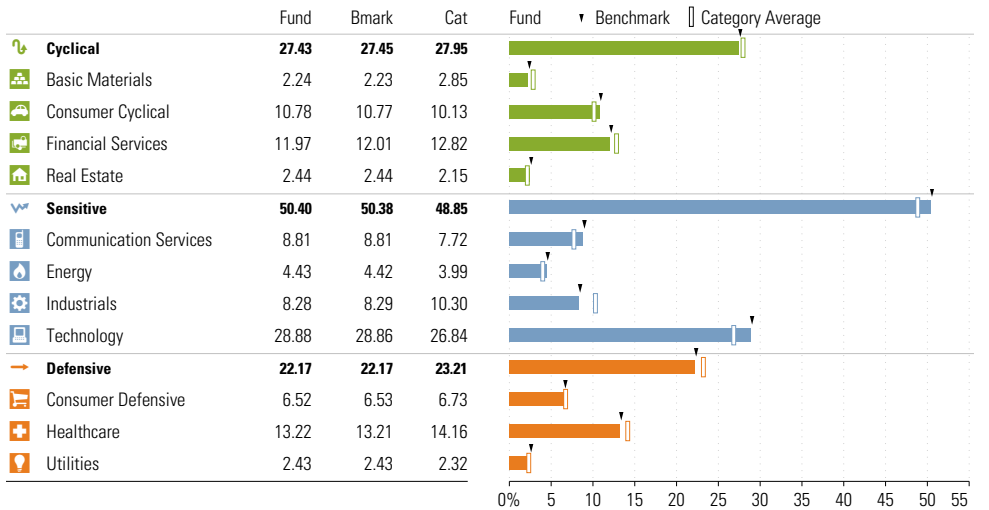
## Style Breakdown



## Asset Allocation as of 09-30-2023



## Sector Weighting as of 09-30-2023



## Top 15 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Apple Inc	7.35	7.35	32.32	Technology
⊕ Microsoft Corp	6.45	13.81	32.51	Technology
⊕ Amazon.com Inc	3.26	17.07	51.33	Consumer Cyclical
⊕ NVIDIA Corp	3.23	20.30	197.74	Technology
⊕ Alphabet Inc Class A	2.14	22.44	48.32	Communication Svc
⊕ Alphabet Inc Class C	1.86	24.30	48.60	Communication Svc
⊕ Tesla Inc	1.84	26.14	103.13	Consumer Cyclical
⊕ Meta Platforms Inc Class A	1.73	27.87	149.47	Communication Svc
⊕ Berkshire Hathaway Inc Class B	1.70	29.57	13.40	Financial Services
⊕ Exxon Mobil Corp	1.19	30.76	9.08	Energy
⊕ UnitedHealth Group Inc	1.17	31.94	-3.88	Healthcare
⊕ Eli Lilly and Co	1.16	33.10	47.75	Healthcare
⊕ JPMorgan Chase & Co	1.13	34.23	10.38	Financial Services
⊕ Visa Inc Class A	1.05	35.27	11.36	Financial Services
⊖ Johnson & Johnson	1.03	36.30	-9.84	Healthcare

**Total Holdings 510**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Emerging Mkts Stock Idx Adm VEMAX

**Morningstar Category**  
Diversified Emerging Mkts

**Morningstar Index**  
MSCI EM NR USD

## Portfolio Manager(s)

Michael Perre since 08-2008  
Jeffrey Miller since 02-2016

## 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 15.1 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 87.72% lower than the Diversified Emerging Mkts category average.

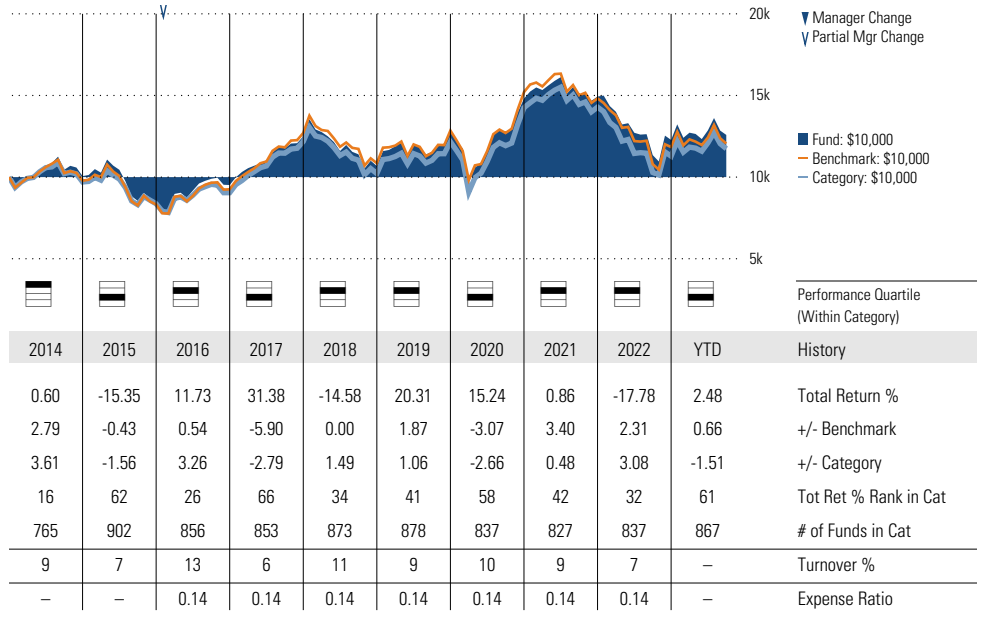
## Morningstar Investment Management LLC Analysis

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.

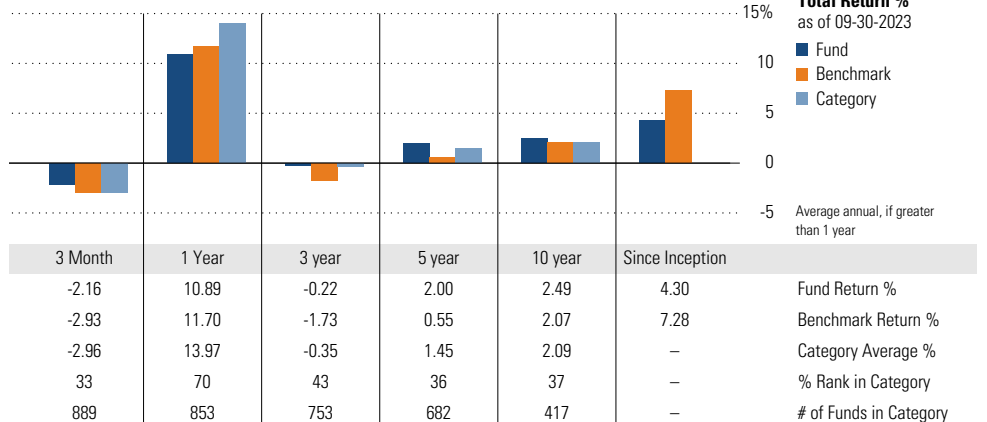
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	08-31-2023
Carbon Risk Score	Medium Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

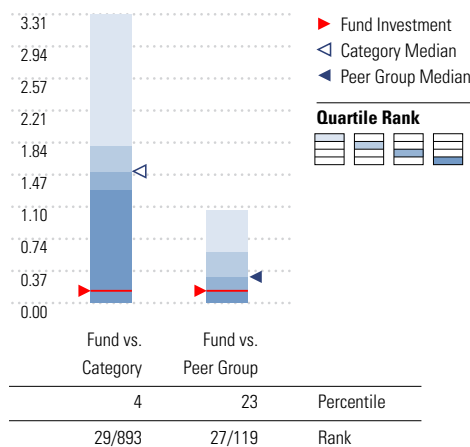
## Growth of \$10,000



## 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	1.29	-	0.13
Beta	0.92	-	0.96
R-Squared	97.67	-	87.58
Standard Deviation	16.62	17.90	18.47
Sharpe Ratio	-0.06	-0.12	-0.10
Tracking Error	2.94	-	6.34
Information Ratio	0.51	-	-0.02
Up Capture Ratio	96.57	-	98.68
Down Capture Ratio	90.75	-	98.67

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	12.95	12.44	13.62
Price/Book Ratio	1.68	1.57	1.94
Geom Avg Mkt Cap \$B	20.59	34.93	45.85
ROE	17.21	16.48	18.37

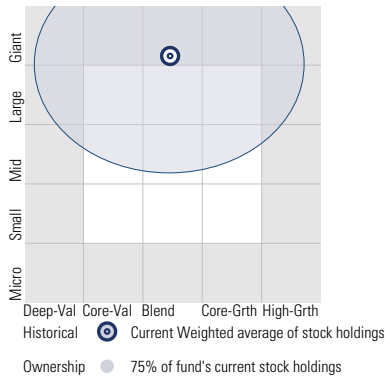
# Vanguard Emerging Mkts Stock Idx Adm VEMAX

**Morningstar Category**  
Diversified Emerging Mkts

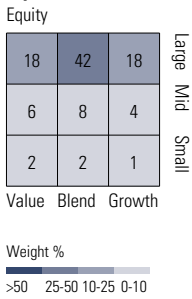
**Morningstar Index**  
MSCI EM NR USD

## Style Analysis as of 09-30-2023

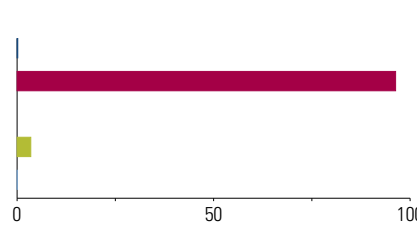
Morningstar Style Box™



## Style Breakdown



## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	0.17	3.39
Non-US Stocks	96.31	94.61
Bonds	0.00	0.00
Cash	3.48	1.75
Other	0.04	0.24
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023

	Fund	Bmark	Cat	Fund	Benchmark	Category Average
<b>Cyclical</b>	<b>45.78</b>	<b>44.93</b>	<b>43.44</b>			
Basic Materials	8.63	8.10	6.28			
Consumer Cyclical	13.64	13.38	13.74			
Financial Services	20.70	21.69	21.73			
Real Estate	2.81	1.76	1.69			
<b>Sensitive</b>	<b>40.05</b>	<b>42.53</b>	<b>42.93</b>			
Communication Services	9.38	10.16	8.72			
Energy	5.44	5.13	4.44			
Industrials	8.28	6.60	6.74			
Technology	16.95	20.64	23.03			
<b>Defensive</b>	<b>14.17</b>	<b>12.54</b>	<b>13.61</b>			
Consumer Defensive	6.37	6.01	7.42			
Healthcare	4.53	4.06	4.58			
Utilities	3.27	2.47	1.61			

## World Regions % Equity 09-30-2023



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	75.84	74.43	Americas	10.26	15.31	Greater Europe	13.90	10.24	Developed Markets	22.45
Japan	0.00	0.08	North America	0.17	2.89	United Kingdom	0.00	0.58	Emerging Markets	77.55
Australasia	0.00	0.00	Central/Latin	10.09	12.42	W euro-ex UK	0.69	1.92	Not Available	0.00
Asia-4 Tigers	18.05	27.40				Emrgng Europe	1.76	1.50		
Asia-ex 4 Tigers	57.79	46.95				Africa	11.45	6.24		
Not Classified	0.00	0.00								

## Top 10 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Taiwan Semiconductor Manufacturing Co Ltd	4.91	4.91	-	Technology
⊕ Tencent Holdings Ltd	3.55	8.46	-	Communication Svc
⊕ Alibaba Group Holding Ltd Ordinary Shares	2.75	11.20	0.00	Consumer Cyclical
⊕ Mktliq 12/31/2049	1.53	12.74	-	-
⊕ Slbbh1142	1.43	14.16	-	-
⊕ Reliance Industries Ltd	1.34	15.50	-	Energy
⊕ Meituan Class B	1.21	16.72	-	Consumer Cyclical
⊕ Infosys Ltd	0.83	17.55	-	Technology
Taiwan Semiconductor Manufacturing Co Ltd ADR	0.81	18.36	18.48	Technology
⊕ HDFC Bank Ltd	0.77	19.13	-	Financial Services

**Total Holdings 4750**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Inflation-Protected Secs Adm VAIPX

**Morningstar Category**  
Inflation-Protected Bond

**Morningstar Index**  
Bloomberg US Treasury US TIPS TR USD

## Portfolio Manager(s)

John Madziyire since 11-2021

## Quantitative Screens

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

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

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.1 is 83.87% lower than the Inflation-Protected Bond category average.

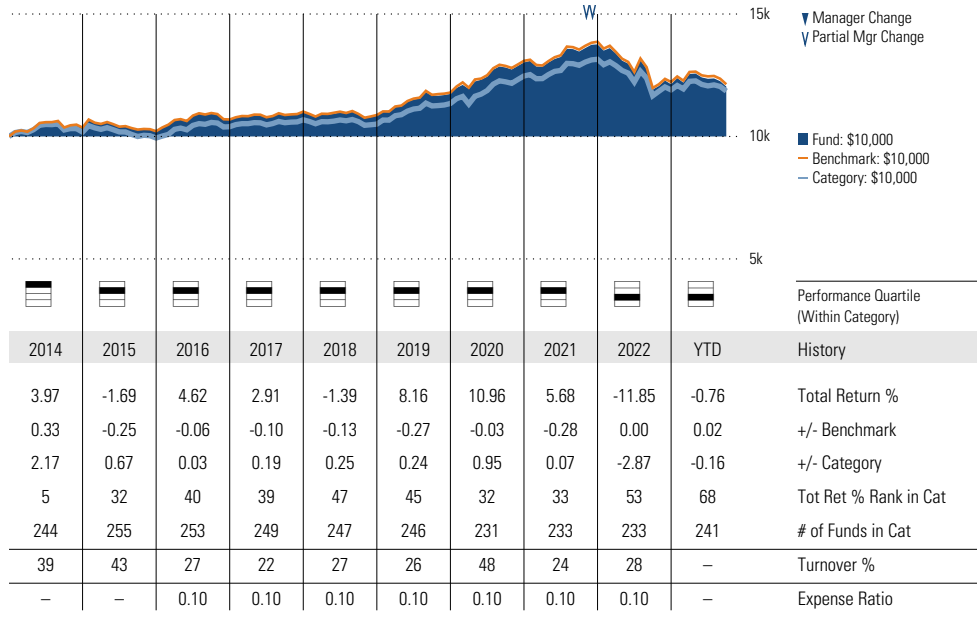
## Morningstar Investment Management LLC Analysis

This fund fails the manager tenure screen; however, the current manager has earned results consistent with those of his predecessor.

## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023

## Growth of \$10,000



## Trailing Performance



## Net Expense



## 3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	-0.10	-	0.39
Beta	0.99	-	0.89
R-Squared	99.72	-	93.36
Standard Deviation	6.81	6.86	6.33
Sharpe Ratio	-0.56	-0.55	-0.44
Tracking Error	0.37	-	1.95
Information Ratio	-0.23	-	-0.07
Up Capture Ratio	98.80	-	90.18
Down Capture Ratio	99.91	-	86.17

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	6.85	4.52	5.88
Avg Eff Maturity	7.30	-	6.75

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

# Vanguard Inflation-Protected Secs Adm VAIPX

**Morningstar Category**  
Inflation-Protected Bond

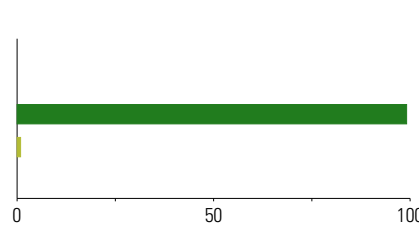
**Morningstar Index**  
Bloomberg US Treasury US TIPS TR USD

## Style Analysis as of 09-30-2023

### Style Breakdown



## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	0.00	0.11
Non-US Stocks	0.00	0.00
Bonds	99.11	99.64
Cash	0.89	-0.10
Other	0.00	0.36
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	99.91	0.00	88.72
AA	0.00	99.60	3.39
A	0.00	0.00	1.89
BBB	0.00	0.00	2.59
BB	0.00	0.00	1.01
B	0.00	0.00	0.58
Below B	0.00	0.00	0.20
Not Rated	0.09	0.40	1.62

## Sector Weighting as of 09-30-2023



## Top 10 Holdings as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊖ United States Treasury Notes	-	3.66	3.66	-
⊖ United States Treasury Notes	-	3.41	7.07	-
⊕ United States Treasury Notes	-	3.32	10.39	-
⊖ United States Treasury Notes	-	3.24	13.63	-
⊖ United States Treasury Notes	-	3.21	16.84	-
United States Treasury Notes	-	3.10	19.94	-
⊖ United States Treasury Notes	-	3.03	22.97	-
⊖ United States Treasury Notes	-	3.02	26.00	-
⊖ United States Treasury Notes	-	2.97	28.97	-
⊖ United States Treasury Notes	-	2.96	31.93	-

**Total Holdings 58**

⊕ 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 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 27.4 years.

✔ **Style:** The fund has landed in its primary style box — Mid-Cap Blend — 91.43 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.12 is 88.79% lower than the Real Estate category average.

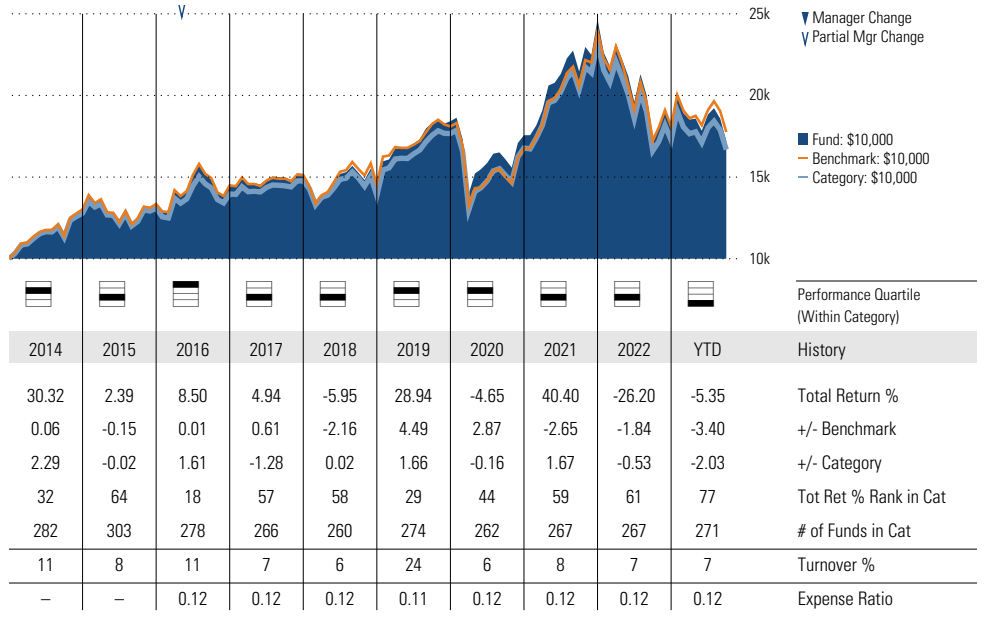
## Morningstar Investment Management LLC Analysis

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.

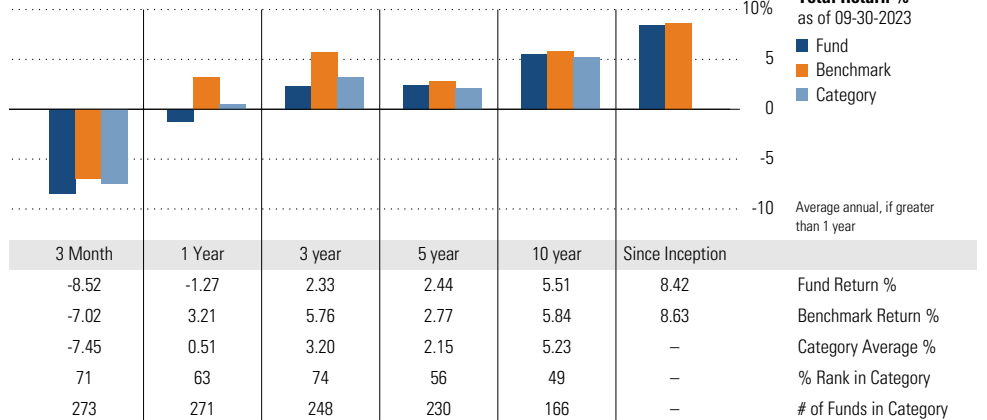
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

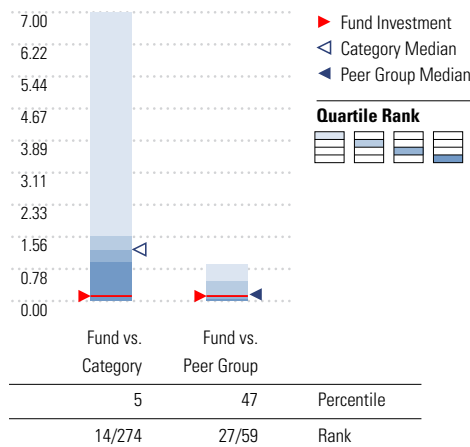
## Growth of \$10,000



## 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	-3.30	-	-2.17
Beta	1.01	-	0.96
R-Squared	98.83	-	94.42
Standard Deviation	20.72	20.45	20.13
Sharpe Ratio	0.11	0.27	0.16
Tracking Error	2.24	-	4.33
Information Ratio	-1.53	-	-0.70
Up Capture Ratio	95.82	-	92.28
Down Capture Ratio	106.86	-	99.74

## Portfolio Metrics

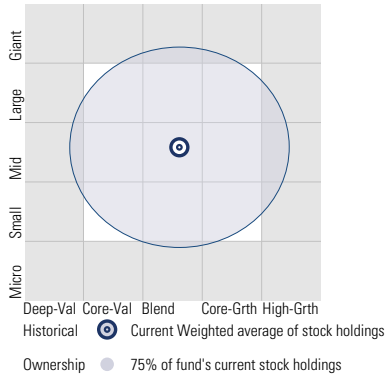
Metric	Fund	Bmark	Cat
Price/Earnings Ratio	29.65	38.46	31.64
Price/Book Ratio	2.23	2.42	2.27
Geom Avg Mkt Cap \$B	21.33	9.35	31.22
ROE	12.99	9.56	14.92

# Vanguard Real Estate Index Admiral VGSLX

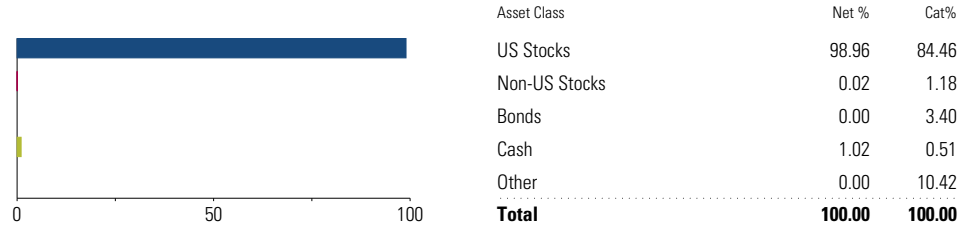
**Morningstar Category**  
Real Estate

**Morningstar Index**  
S&P United States REIT TR USD

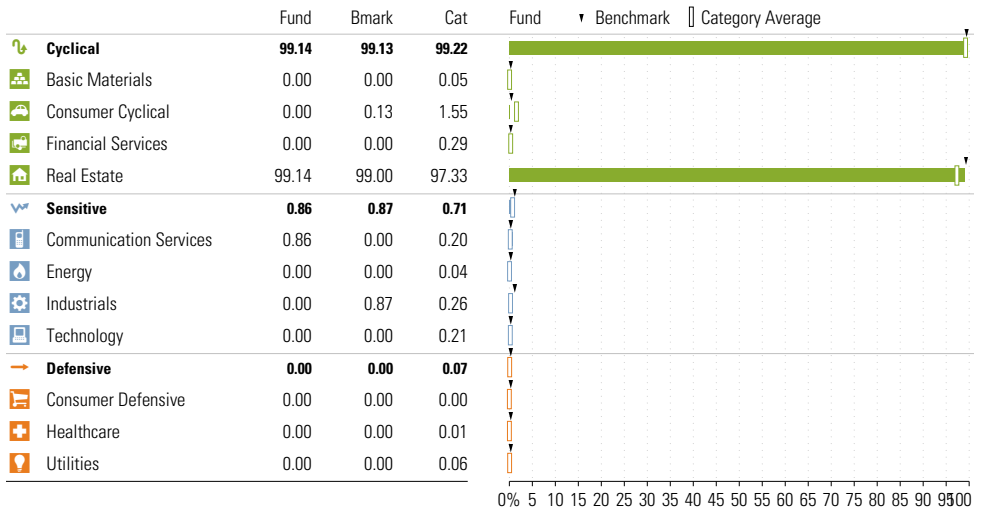
**Style Analysis** as of 09-30-2023  
Morningstar Style Box™



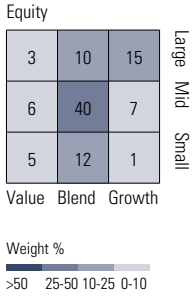
**Asset Allocation** as of 09-30-2023



**Sector Weighting** as of 09-30-2023



**Style Breakdown**



**Top 15 Holdings** as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Vanguard Real Estate II Index	12.67	12.67	-	-
⊖ Prologis Inc	7.75	20.42	1.85	Real Estate
⊖ American Tower Corp	5.71	26.13	-20.90	Real Estate
⊖ Equinix Inc	4.94	31.06	12.44	Real Estate
⊖ Public Storage	2.95	34.02	-2.74	Real Estate
⊖ Crown Castle Inc	2.94	36.96	-28.69	Real Estate
⊖ Welltower Inc	2.68	39.64	27.77	Real Estate
⊕ Realty Income Corp	2.55	42.19	-17.66	Real Estate
⊖ Digital Realty Trust Inc	2.46	44.65	24.34	Real Estate
⊖ Simon Property Group Inc	2.43	47.08	-3.32	Real Estate
⊖ CoStar Group Inc	2.26	49.35	-0.50	Real Estate
⊖ Extra Space Storage Inc	1.84	51.18	-14.09	Real Estate
⊖ VICI Properties Inc Ordinary Shares	1.82	53.01	-6.50	Real Estate
⊖ CBRE Group Inc Class A	1.79	54.79	-4.03	Real Estate
⊕ AvalonBay Communities Inc	1.76	56.56	9.39	Real Estate

**Total Holdings 165**

⊕ Increase ⊖ Decrease ✨ New to Portfolio



# Vanguard Selected Value Inv VASVX

**Morningstar Category**  
Mid-Cap Value

**Morningstar Index**  
Russell Mid Cap Value TR USD

## Portfolio Manager(s)

Richard Greenberg since 02-2005  
 Richard Pzena since 03-2014  
 John Flynn since 12-2015  
 Benjamin Silver since 02-2017  
 Jonathan Hartsel since 11-2019  
 William Weber since 12-2019  
 Meहुल Trivedi since 12-2019

## Quantitative Screens

**Performance:** The fund has finished in the Mid-Cap Value 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 18.61 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 0.38 is 60.82% lower than the Mid-Cap Value category average.

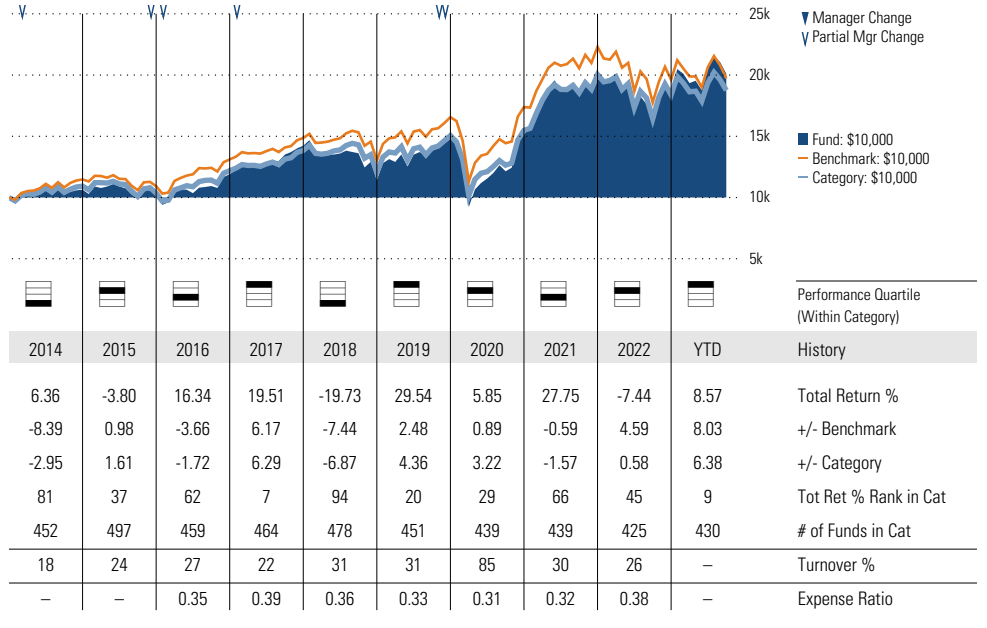
## Morningstar Investment Management LLC Analysis

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.

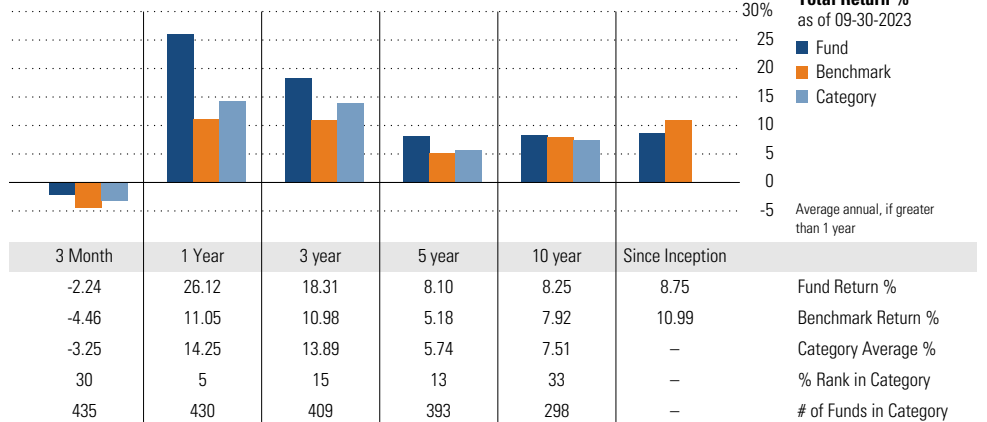
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	08-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

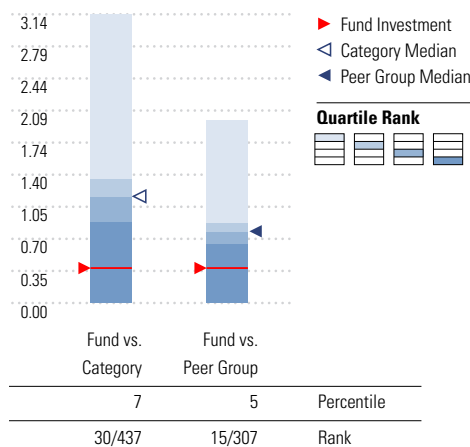
## Growth of \$10,000



## 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	5.84	-	2.65
Beta	1.08	-	0.98
R-Squared	94.90	-	94.38
Standard Deviation	22.09	19.86	19.94
Sharpe Ratio	0.78	0.52	0.63
Tracking Error	5.26	-	4.81
Information Ratio	1.39	-	0.55
Up Capture Ratio	115.64	-	100.27
Down Capture Ratio	94.47	-	90.56

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	11.67	15.63	14.80
Price/Book Ratio	1.49	2.12	1.91
Geom Avg Mkt Cap \$B	8.75	17.17	13.33
ROE	12.08	13.69	14.35

# Vanguard Selected Value Inv VASVX

Morningstar Category

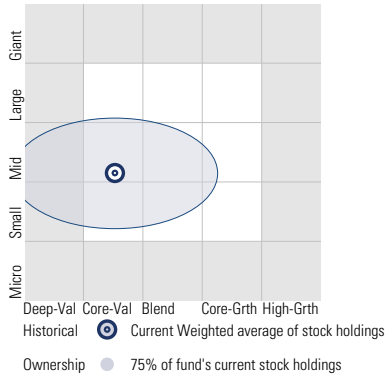
Mid-Cap Value

Morningstar Index

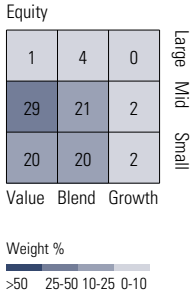
Russell Mid Cap Value TR USD

## Style Analysis as of 09-30-2023

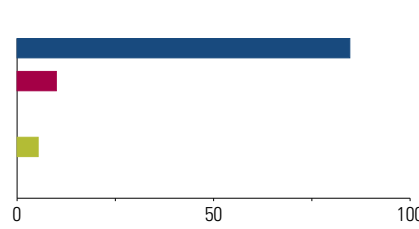
Morningstar Style Box™



## Style Breakdown

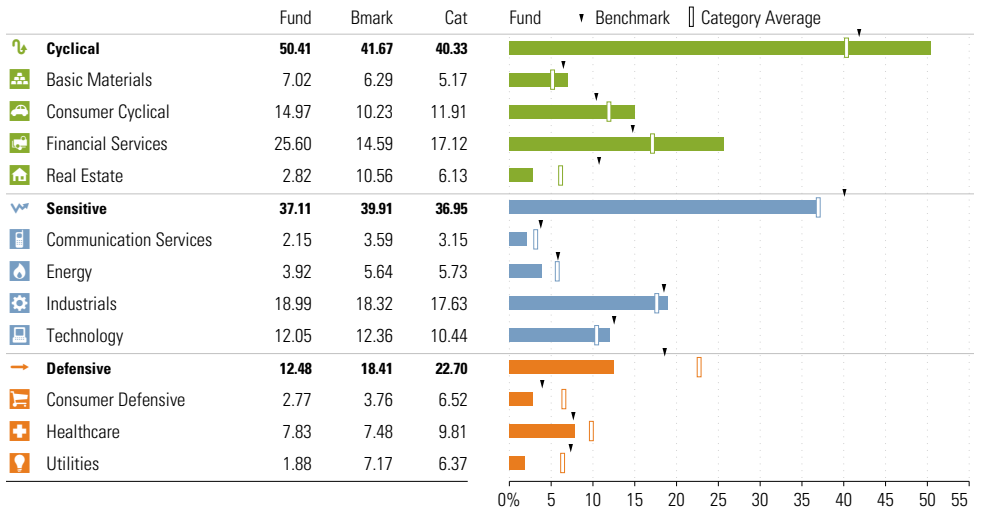


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	84.66	90.26
Non-US Stocks	9.98	7.17
Bonds	0.00	0.01
Cash	5.36	2.08
Other	0.00	0.49
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## Top 15 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Mktliq 12/31/2049	4.55	4.55	-	-
⊖ AerCap Holdings NV	3.50	8.05	7.46	Industrials
⊕ TE Connectivity Ltd	2.02	10.07	9.12	Technology
⊖ Gildan Activewear Inc	1.78	11.86	4.71	Consumer Cyclical
⊕ Globe Life Inc	1.74	13.60	-9.26	Financial Services
⊖ Unum Group	1.71	15.31	22.39	Financial Services
⊖ Arrow Electronics Inc	1.64	16.95	19.77	Technology
⊕ Acuity Brands Inc	1.61	18.56	3.07	Industrials
⊖ Fidelity National Financial Inc	1.35	19.91	13.37	Financial Services
⊕ Us Dollar	1.29	21.20	-	-
Avnet Inc	1.26	22.47	18.04	Technology
⊖ Fresenius Medical Care AG & Co. KGaA ADR	1.26	23.73	31.82	Healthcare
Lear Corp	1.25	24.98	10.07	Consumer Cyclical
M/I Homes Inc	1.25	26.23	81.98	Consumer Cyclical
⊕ CBRE Group Inc Class A	1.20	27.43	-4.03	Real Estate

**Total Holdings 135**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2025 Fund VTTVX

**Morningstar Category**  
Target-Date 2025

**Morningstar Index**  
Morningstar Lifetime Mod 2025 TR USD

## Portfolio Manager(s)

Walter Nejman since 02-2013  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## 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 10.61 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 0.08 is 86.67% lower than the Target-Date 2025 category average.

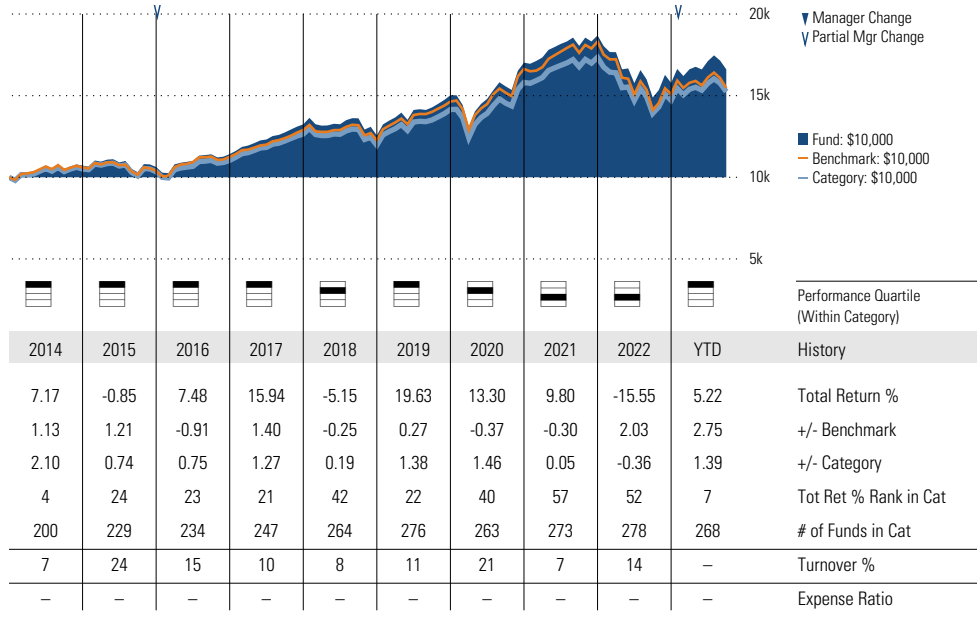
## Morningstar Investment Management LLC Analysis

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.

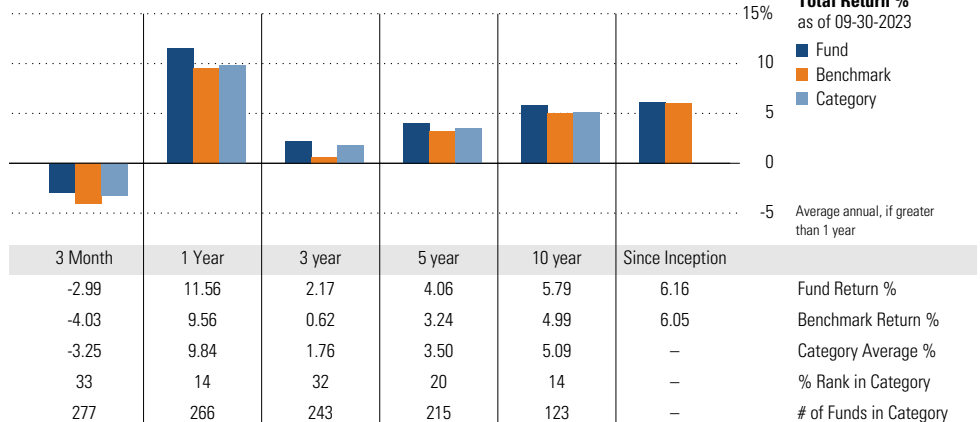
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

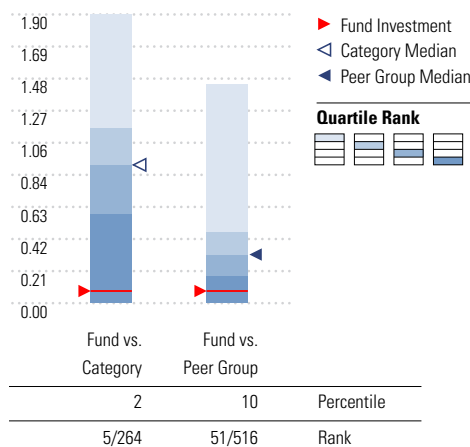
## Growth of \$10,000



## 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	1.53	-	1.05
Beta	0.93	-	0.87
R-Squared	98.83	-	97.96
Standard Deviation	11.65	12.44	10.95
Sharpe Ratio	0.07	-0.05	0.01
Tracking Error	1.52	-	2.37
Information Ratio	1.02	-	0.56
Up Capture Ratio	98.80	-	91.09
Down Capture Ratio	89.83	-	84.91

## Portfolio Metrics

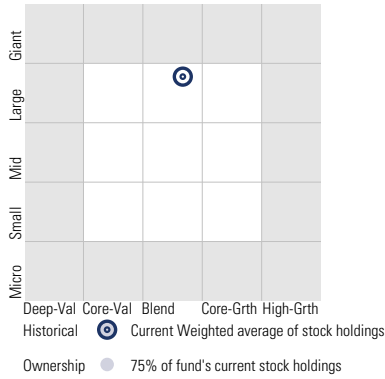
	Fund	Bmark	Cat
Price/Earnings Ratio	17.61	17.42	18.55
Price/Book Ratio	2.47	2.40	2.67
Avg Eff Duration	6.34	-	5.81

# Vanguard Target Retirement 2025 Fund VTTVX

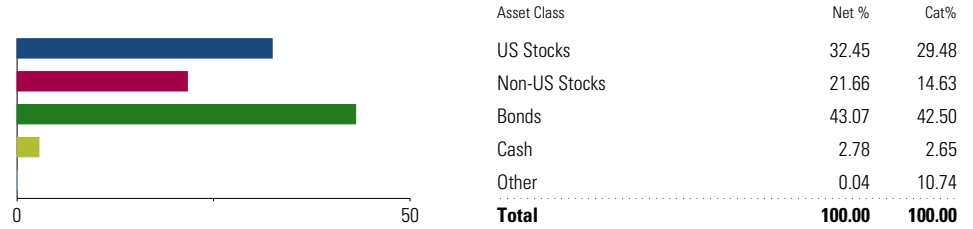
**Morningstar Category**  
Target-Date 2025

**Morningstar Index**  
Morningstar Lifetime Mod 2025 TR USD

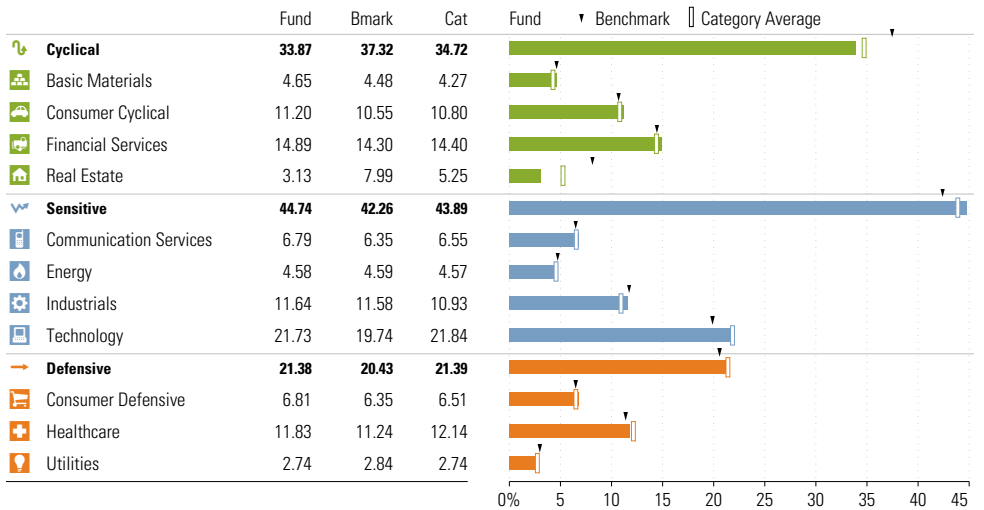
**Style Analysis** as of 09-30-2023  
Morningstar Style Box™



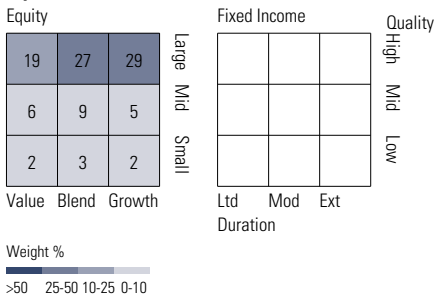
**Asset Allocation** as of 09-30-2023



**Sector Weighting** as of 09-30-2023



**Style Breakdown**



**Top 7 Holdings** as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Instl Pls	-	32.66	32.66	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	27.46	60.13	-	-
⊖ Vanguard Total Intl Stock Index Inv	-	22.26	82.39	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	11.98	94.37	-	-
⊕ Vanguard Shrt-Term Infl-Prot Sec Idx Adm	-	4.46	98.83	-	-
⊖ Mktliq 12/31/2049	-	1.17	99.99	-	-
⊕ Us Dollar	-	0.01	100.00	-	-

**Total Holdings 7**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2030 Fund VTHRX

**Morningstar Category**  
Target-Date 2030

**Morningstar Index**  
Morningstar Lifetime Mod 2030 TR USD

## Portfolio Manager(s)

Walter Nejman since 02-2013  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## 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 10.61 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 0.08 is 87.3% lower than the Target-Date 2030 category average.

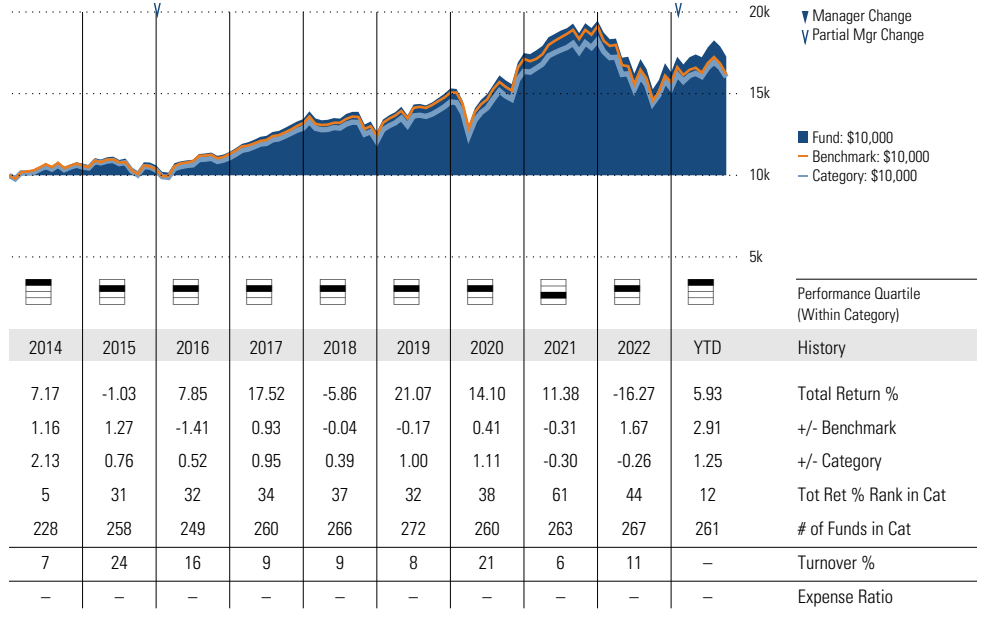
## Morningstar Investment Management LLC Analysis

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.

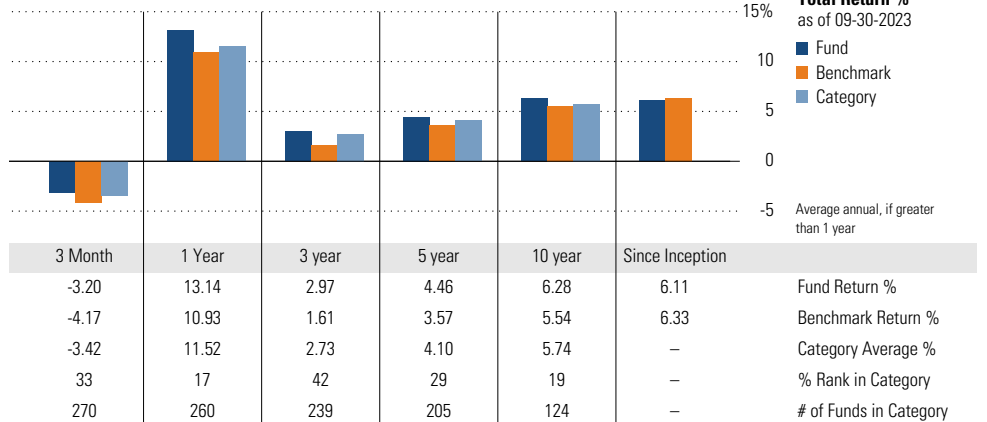
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

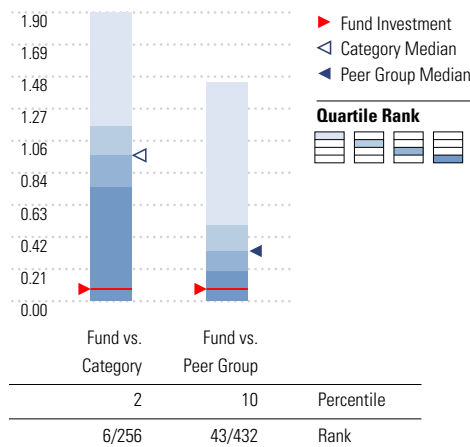
## Growth of \$10,000



## 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	1.39	-	1.18
Beta	0.94	-	0.91
R-Squared	99.00	-	98.28
Standard Deviation	12.77	13.50	12.37
Sharpe Ratio	0.13	0.03	0.11
Tracking Error	1.51	-	2.14
Information Ratio	0.91	-	0.62
Up Capture Ratio	98.80	-	95.10
Down Capture Ratio	91.39	-	88.80

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	17.68	17.24	18.53
Price/Book Ratio	2.49	2.37	2.75
Avg Eff Duration	6.73	-	5.85

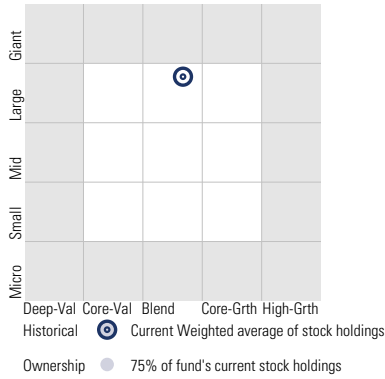
# Vanguard Target Retirement 2030 Fund VTHRX

**Morningstar Category**  
Target-Date 2030

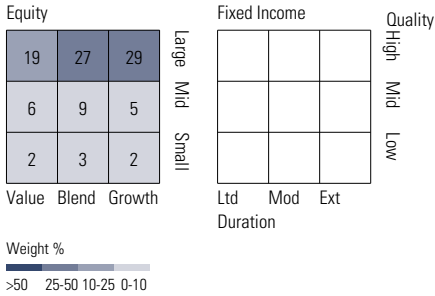
**Morningstar Index**  
Morningstar Lifetime Mod 2030 TR USD

## Style Analysis as of 09-30-2023

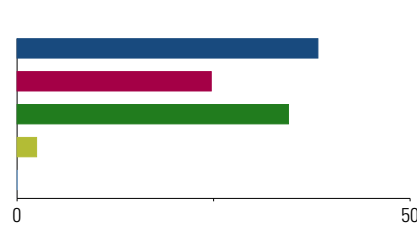
Morningstar Style Box™



## Style Breakdown

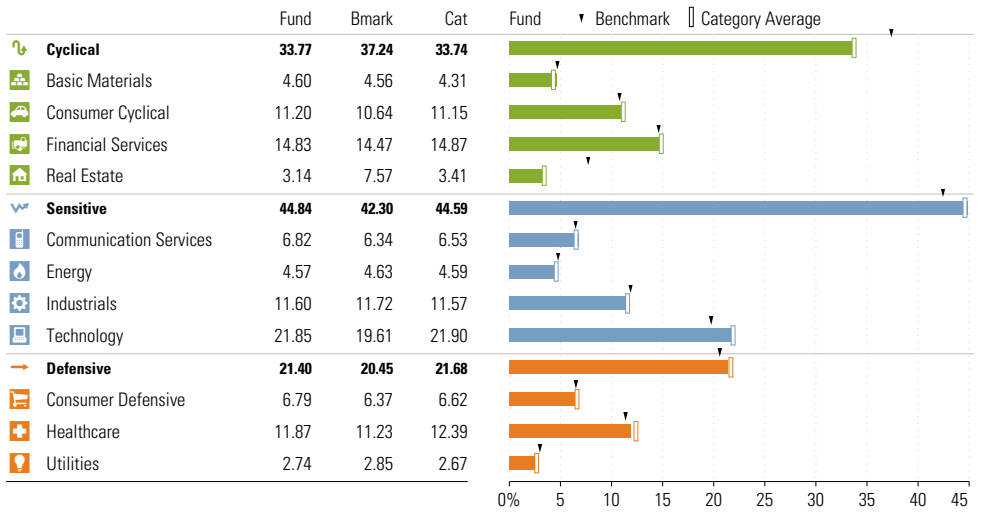


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	38.27	35.41
Non-US Stocks	24.70	18.47
Bonds	34.52	33.26
Cash	2.48	1.01
Other	0.03	11.85
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## Top 6 Holdings as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Instl Pls	-	38.53	38.53	-	-
⊖ Vanguard Total Intl Stock Index Inv	-	25.37	63.90	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	24.41	88.31	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	10.56	98.87	-	-
⊖ Mktliq 12/31/2049	-	1.11	99.98	-	-
⊕ Us Dollar	-	0.02	100.00	-	-

## Total Holdings 6

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2035 Fund VTTX

**Morningstar Category**  
Target-Date 2035

**Morningstar Index**  
Morningstar Lifetime Mod 2035 TR USD

## Portfolio Manager(s)

Walter Nejman since 02-2013  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2035 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 10.61 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 0.08 is 87.1% lower than the Target-Date 2035 category average.

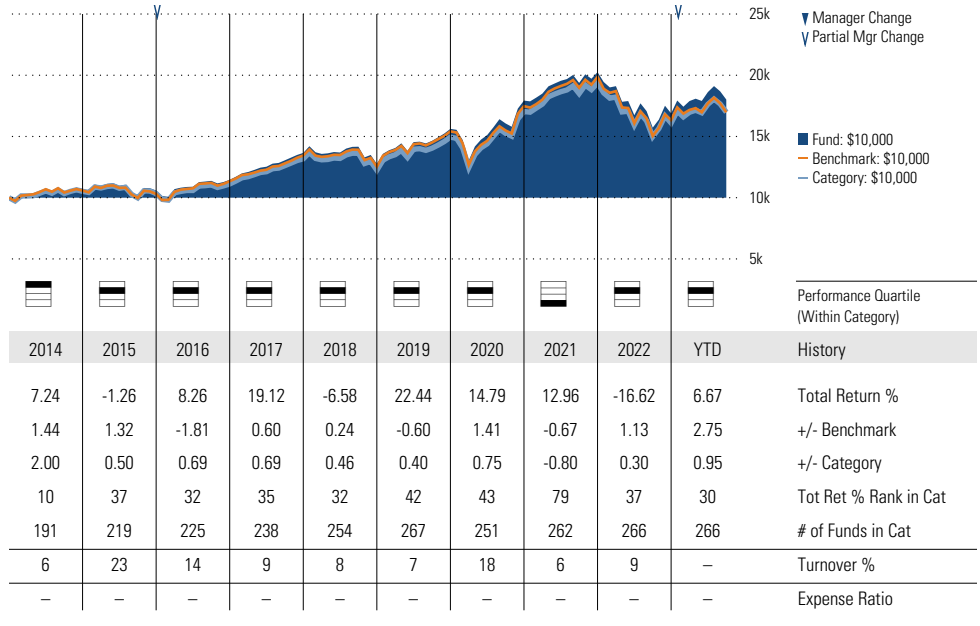
## Morningstar Investment Management LLC Analysis

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.

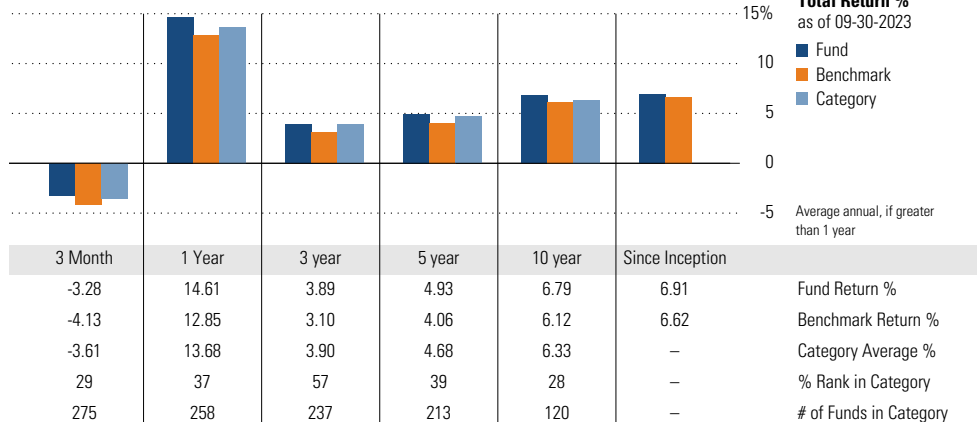
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

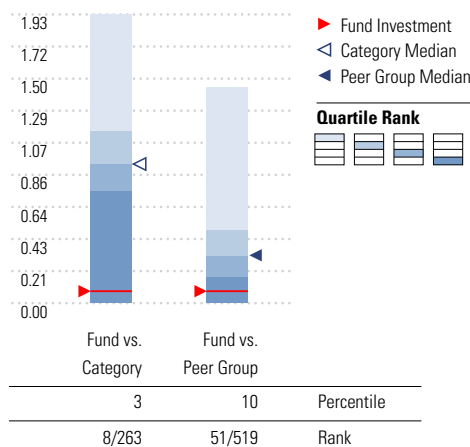
## Growth of \$10,000



## 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	0.91	-	0.97
Beta	0.93	-	0.94
R-Squared	99.07	-	98.48
Standard Deviation	13.72	14.62	13.83
Sharpe Ratio	0.20	0.14	0.20
Tracking Error	1.63	-	2.06
Information Ratio	0.48	-	0.51
Up Capture Ratio	96.61	-	97.43
Down Capture Ratio	92.20	-	92.79

## Portfolio Metrics

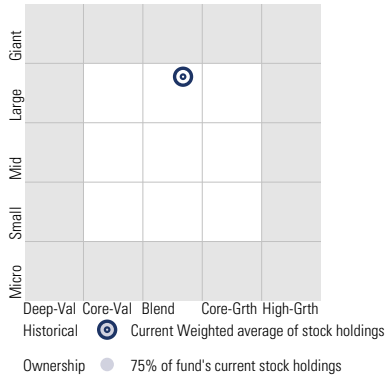
	Fund	Bmark	Cat
Price/Earnings Ratio	17.70	17.07	18.50
Price/Book Ratio	2.50	2.34	2.71
Avg Eff Duration	6.73	-	6.11

# Vanguard Target Retirement 2035 Fund VTTHX

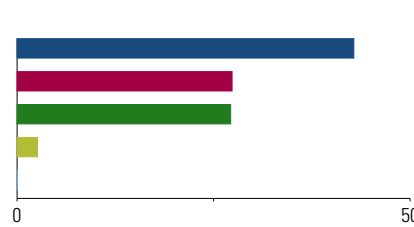
**Morningstar Category**  
Target-Date 2035

**Morningstar Index**  
Morningstar Lifetime Mod 2035 TR USD

**Style Analysis** as of 09-30-2023  
Morningstar Style Box™

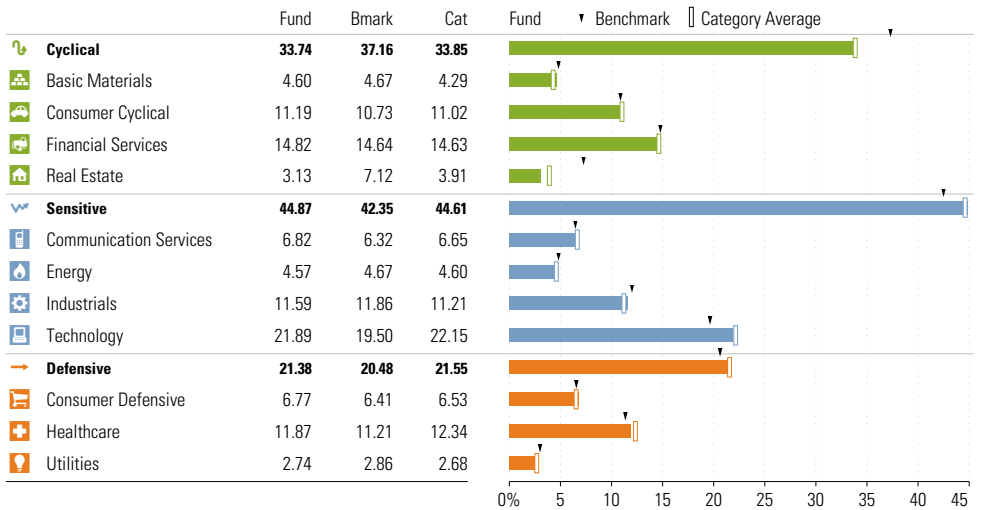


**Asset Allocation** as of 09-30-2023

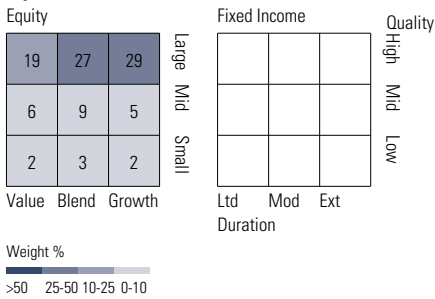


Asset Class	Net %	Cat%
US Stocks	42.84	42.75
Non-US Stocks	27.35	21.09
Bonds	27.17	22.52
Cash	2.60	1.63
Other	0.03	12.02
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 09-30-2023



**Style Breakdown**



**Top 6 Holdings** as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Instl Pls	-	43.13	43.13	-	-
⊖ Vanguard Total Intl Stock Index Inv	-	28.10	71.22	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	19.21	90.43	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	8.31	98.74	-	-
⊕ Mktliq 12/31/2049	-	1.24	99.98	-	-
⊕ Us Dollar	-	0.02	100.00	-	-

**Total Holdings 6**

⊕ Increase ⊖ Decrease ✨ New to Portfolio



# Vanguard Target Retirement 2040 Fund VFORX

**Morningstar Category**  
Target-Date 2040

**Morningstar Index**  
Morningstar Lifetime Mod 2040 TR USD

## Portfolio Manager(s)

Walter Nejman since 02-2013  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2040 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 10.61 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 0.08 is 87.88% lower than the Target-Date 2040 category average.

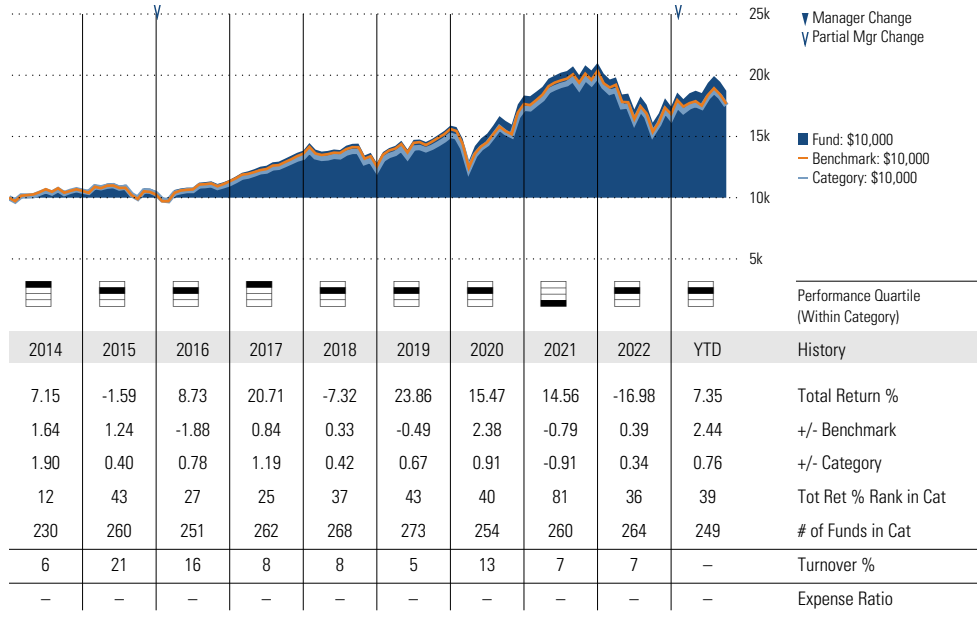
## Morningstar Investment Management LLC Analysis

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.

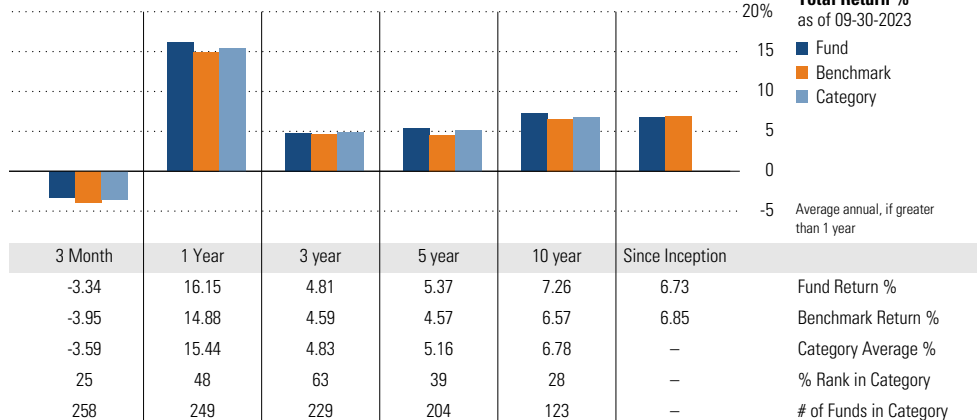
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

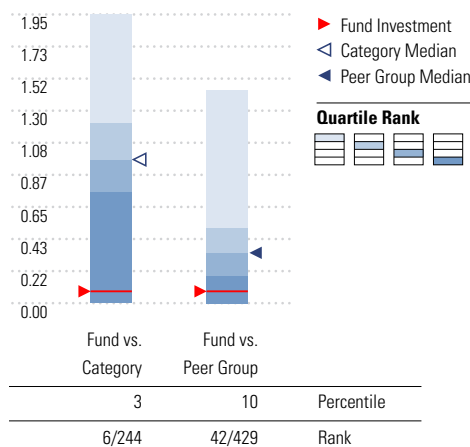
## Growth of \$10,000



## 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	0.44	-	0.45
Beta	0.94	-	0.95
R-Squared	99.00	-	98.40
Standard Deviation	14.68	15.62	14.97
Sharpe Ratio	0.25	0.23	0.25
Tracking Error	1.79	-	2.19
Information Ratio	0.12	-	0.20
Up Capture Ratio	95.53	-	97.38
Down Capture Ratio	93.64	-	95.57

## Portfolio Metrics

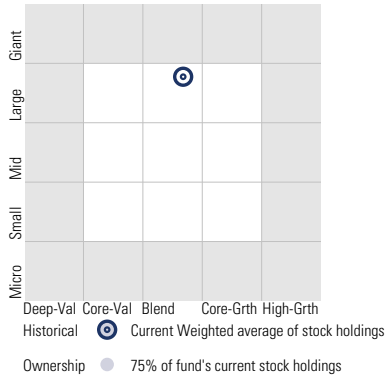
	Fund	Bmark	Cat
Price/Earnings Ratio	17.75	16.90	18.51
Price/Book Ratio	2.51	2.31	2.74
Avg Eff Duration	6.72	-	6.11

# Vanguard Target Retirement 2040 Fund VFORX

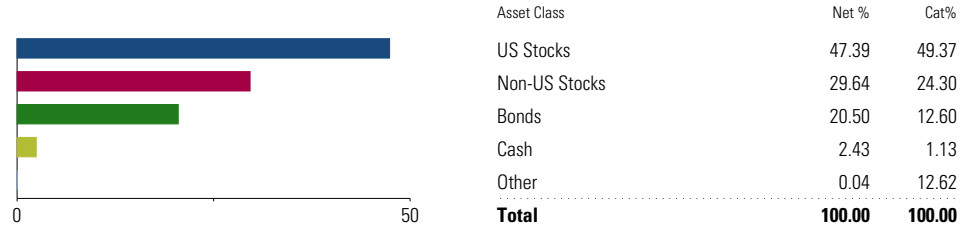
**Morningstar Category**  
Target-Date 2040

**Morningstar Index**  
Morningstar Lifetime Mod 2040 TR USD

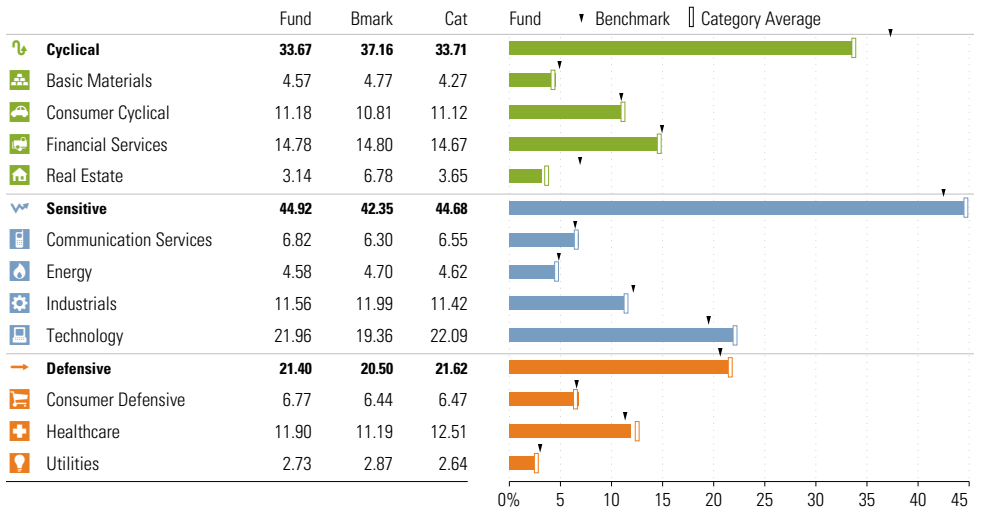
**Style Analysis** as of 09-30-2023  
Morningstar Style Box™



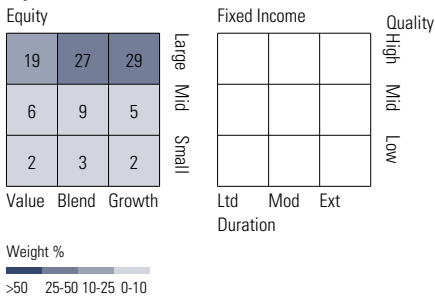
**Asset Allocation** as of 09-30-2023



**Sector Weighting** as of 09-30-2023



**Style Breakdown**



**Top 6 Holdings** as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Instl Pls	-	47.71	47.71	-	-
⊖ Vanguard Total Intl Stock Index Inv	-	30.44	78.16	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	14.69	92.85	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	6.07	98.92	-	-
⊖ Mktliq 12/31/2049	-	1.07	99.99	-	-
⊕ Us Dollar	-	0.01	100.00	-	-

**Total Holdings 6**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2045 Fund VTIVX

**Morningstar Category**  
Target-Date 2045

**Morningstar Index**  
Morningstar Lifetime Mod 2045 TR USD

## Portfolio Manager(s)

Walter Nejman since 02-2013  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## 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 10.61 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 0.08 is 87.5% lower than the Target-Date 2045 category average.

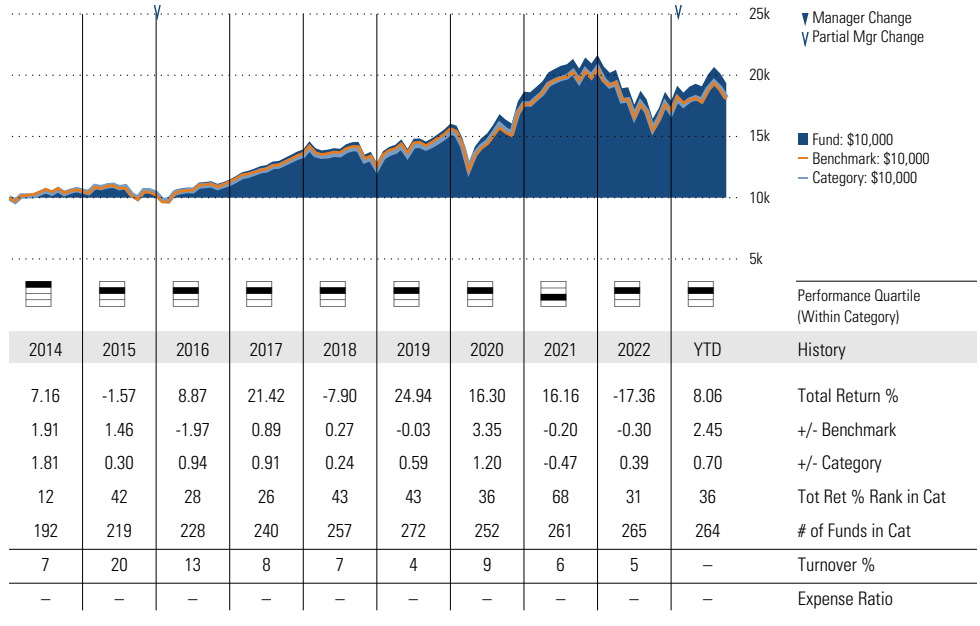
## Morningstar Investment Management LLC Analysis

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.

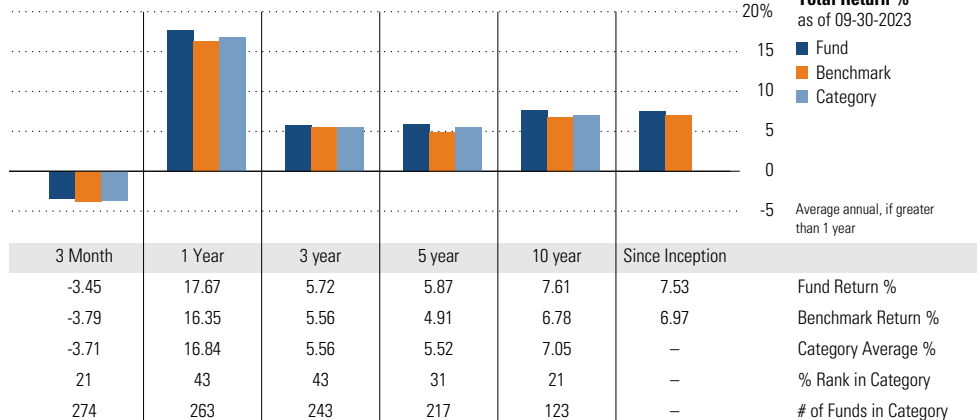
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

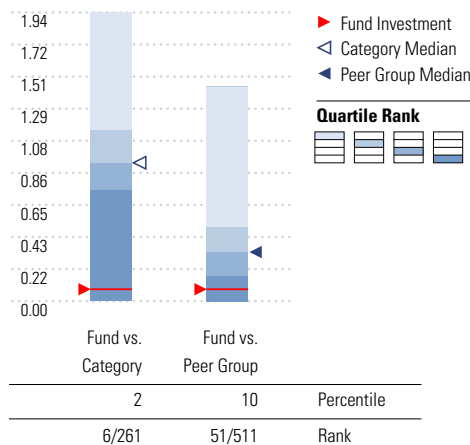
## Growth of \$10,000



## 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	-	0.10
Beta	0.96	-	0.96
R-Squared	98.96	-	98.38
Standard Deviation	15.68	16.29	15.81
Sharpe Ratio	0.30	0.29	0.28
Tracking Error	1.75	-	2.19
Information Ratio	0.09	-	0.01
Up Capture Ratio	97.80	-	98.04
Down Capture Ratio	96.56	-	97.98

## Portfolio Metrics

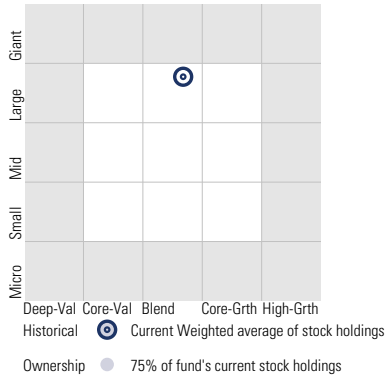
	Fund	Bmark	Cat
Price/Earnings Ratio	17.75	16.76	18.33
Price/Book Ratio	2.51	2.28	2.67
Avg Eff Duration	6.72	-	6.74

# Vanguard Target Retirement 2045 Fund VTIVX

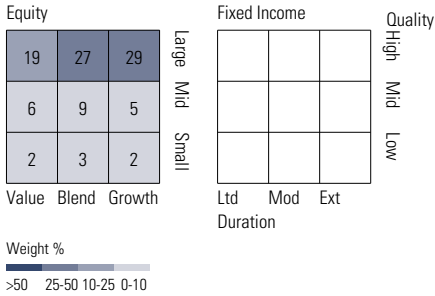
**Morningstar Category**  
Target-Date 2045

**Morningstar Index**  
Morningstar Lifetime Mod 2045 TR USD

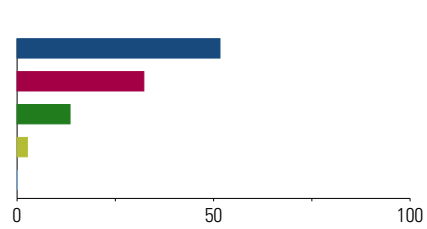
**Style Analysis** as of 09-30-2023  
Morningstar Style Box™



**Style Breakdown**

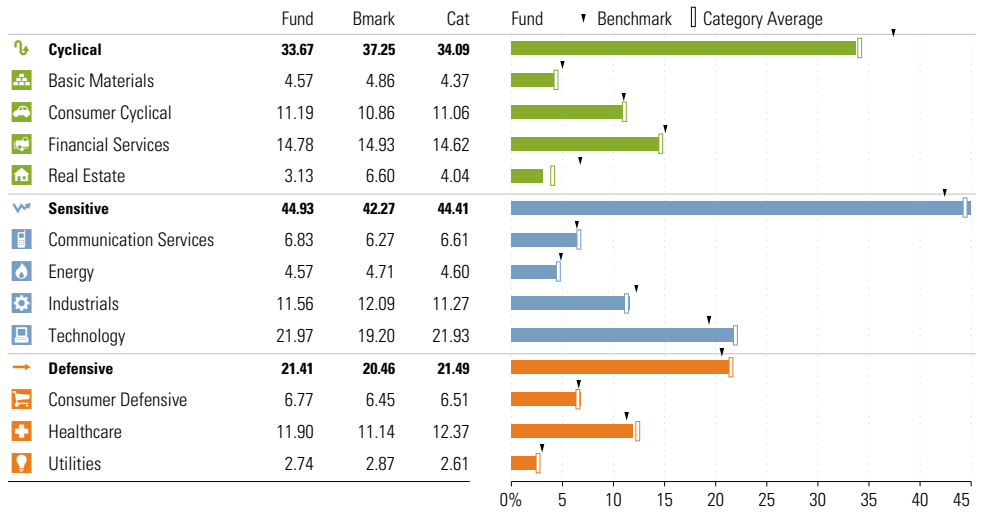


**Asset Allocation** as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	51.62	52.76
Non-US Stocks	32.25	27.21
Bonds	13.47	7.95
Cash	2.61	1.22
Other	0.05	10.87
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 09-30-2023



**Top 6 Holdings** as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Instl Pls	-	51.98	51.98	-	-
⊖ Vanguard Total Intl Stock Index Inv	-	33.12	85.10	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	9.77	94.87	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	3.88	98.75	-	-
⊖ Mktliq 12/31/2049	-	1.24	99.99	-	-
⊕ Us Dollar	-	0.01	100.00	-	-

**Total Holdings 6**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2050 Fund VFIFF

**Morningstar Category**  
Target-Date 2050

**Morningstar Index**  
Morningstar Lifetime Mod 2050 TR USD

## Portfolio Manager(s)

Walter Nejman since 02-2013  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## 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 10.61 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 0.08 is 87.88% lower than the Target-Date 2050 category average.

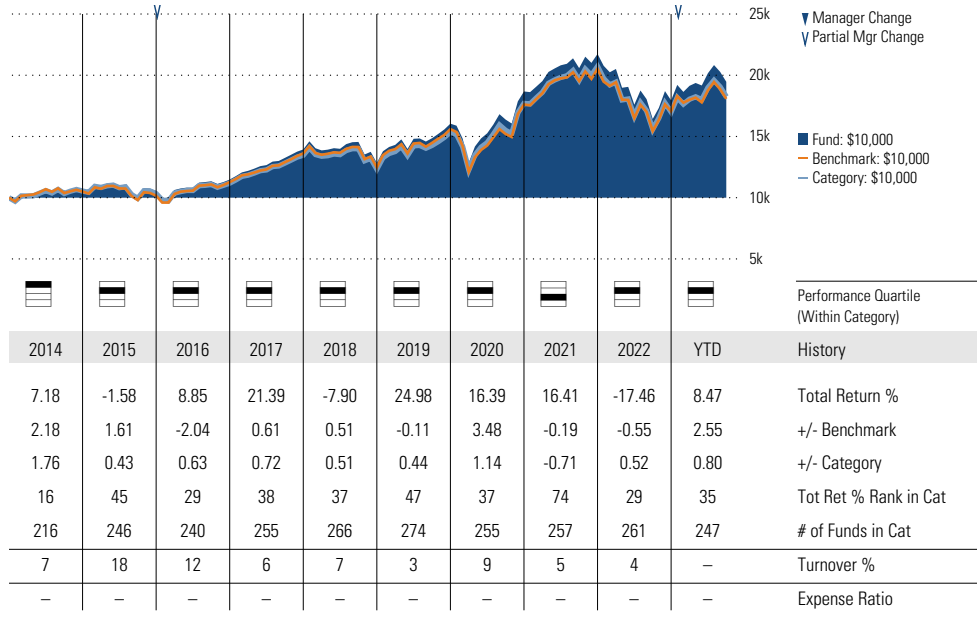
## Morningstar Investment Management LLC Analysis

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.

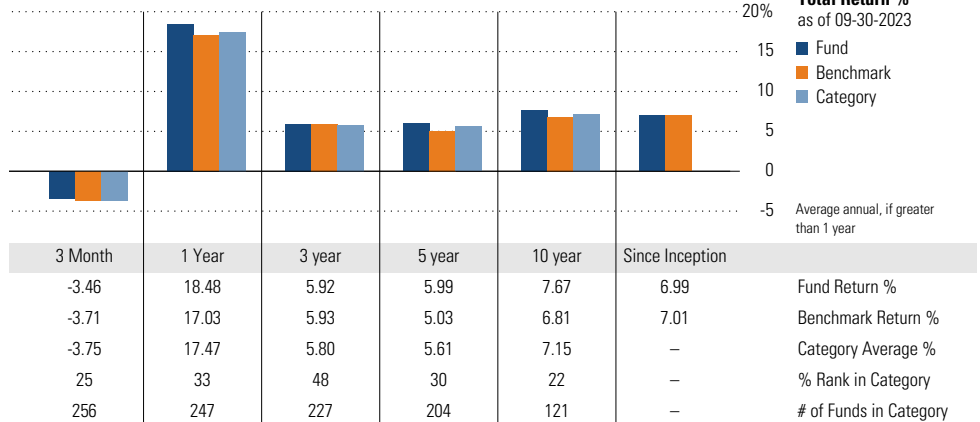
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

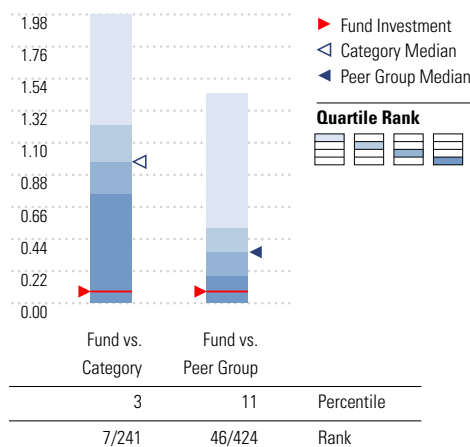
## Growth of \$10,000



## 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	-	-0.06
Beta	0.96	-	0.97
R-Squared	98.83	-	98.24
Standard Deviation	15.99	16.58	16.20
Sharpe Ratio	0.31	0.31	0.29
Tracking Error	1.86	-	2.24
Information Ratio	-0.01	-	-0.09
Up Capture Ratio	97.94	-	98.54
Down Capture Ratio	97.51	-	99.27

## Portfolio Metrics

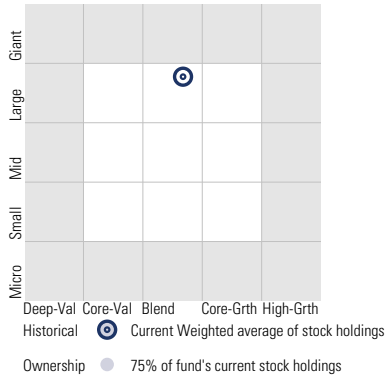
	Fund	Bmark	Cat
Price/Earnings Ratio	17.70	16.63	18.33
Price/Book Ratio	2.49	2.25	2.67
Avg Eff Duration	6.71	-	6.59

# Vanguard Target Retirement 2050 Fund VFIFX

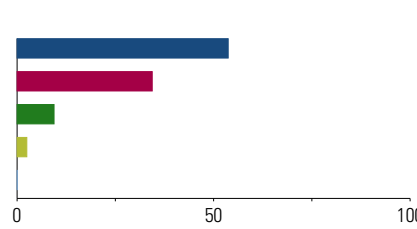
**Morningstar Category**  
Target-Date 2050

**Morningstar Index**  
Morningstar Lifetime Mod 2050 TR USD

**Style Analysis** as of 09-30-2023  
Morningstar Style Box™

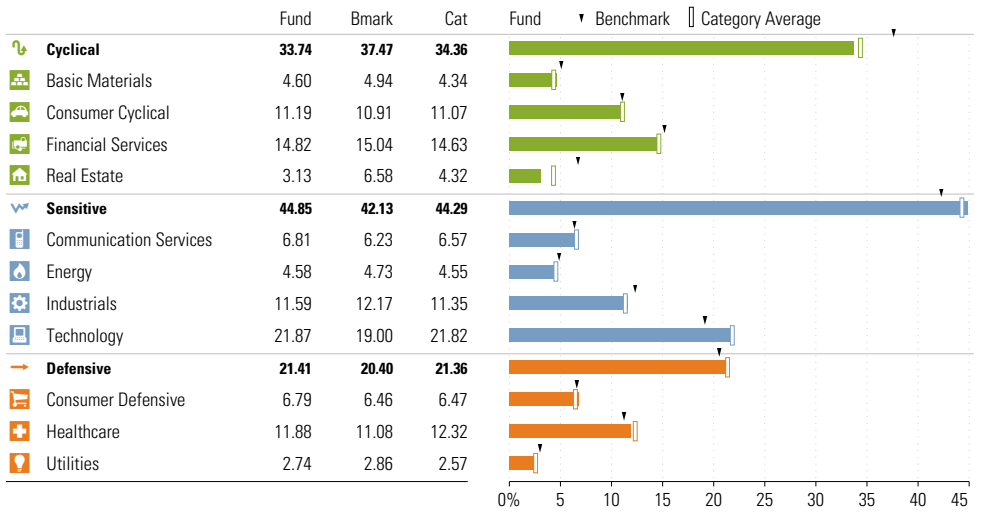


**Asset Allocation** as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	53.71	55.24
Non-US Stocks	34.38	28.24
Bonds	9.40	5.60
Cash	2.47	1.16
Other	0.05	9.76
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 09-30-2023



**Style Breakdown**



**Top 6 Holdings** as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Instl Pls	-	54.07	54.07	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	35.31	89.38	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	6.88	96.26	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	2.64	98.90	-	-
⊕ Mktliq 12/31/2049	-	1.08	99.99	-	-
⊕ Us Dollar	-	0.01	100.00	-	-

**Total Holdings 6**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2055 Fund VFFVX

**Morningstar Category**  
Target-Date 2055

**Morningstar Index**  
Morningstar Lifetime Mod 2055 TR USD

## Portfolio Manager(s)

Walter Nejman since 02-2013  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2055 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 10.61 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 0.08 is 87.5% lower than the Target-Date 2055 category average.

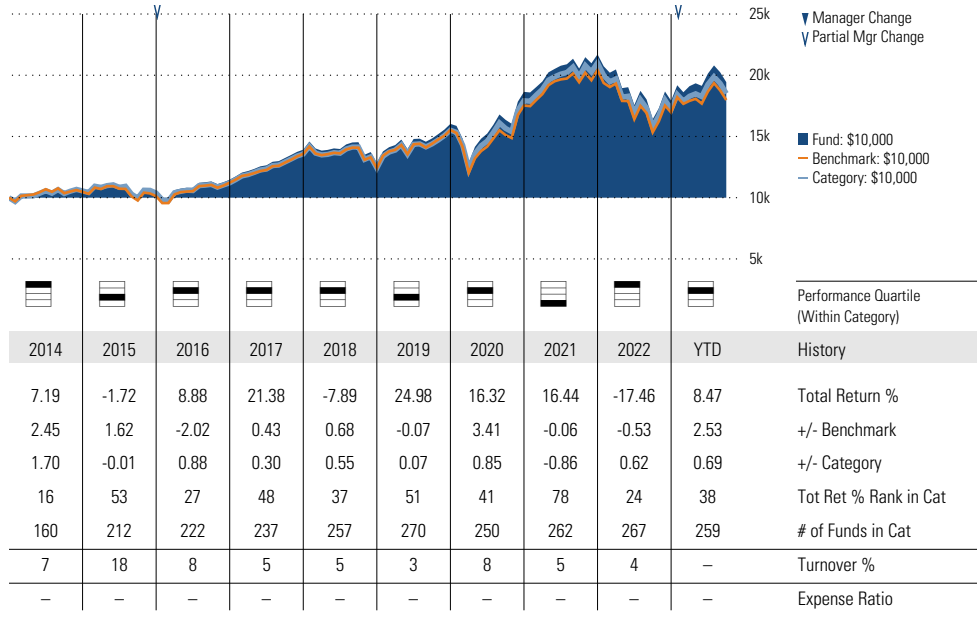
## Morningstar Investment Management LLC Analysis

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.

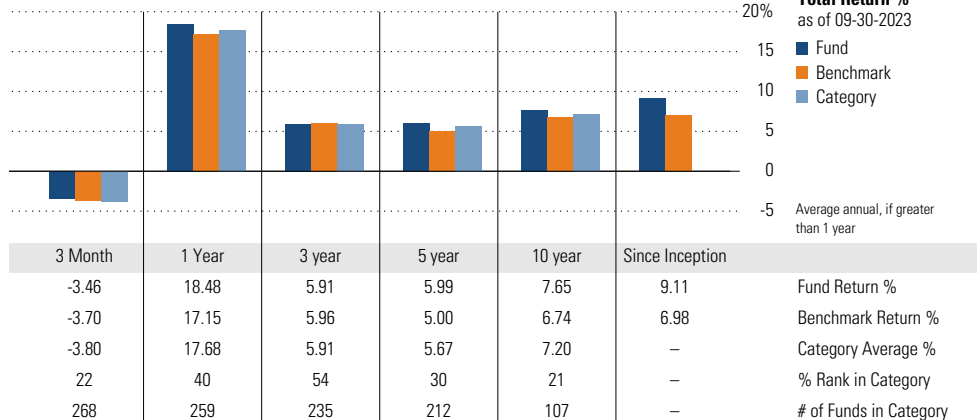
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

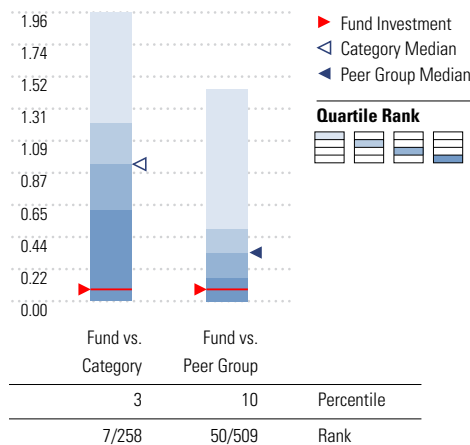
## Growth of \$10,000



## 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	-	0.03
Beta	0.95	-	0.97
R-Squared	98.79	-	98.19
Standard Deviation	15.99	16.66	16.37
Sharpe Ratio	0.31	0.31	0.30
Tracking Error	1.92	-	2.24
Information Ratio	-0.02	-	-0.04
Up Capture Ratio	97.64	-	99.47
Down Capture Ratio	97.27	-	99.88

## Portfolio Metrics

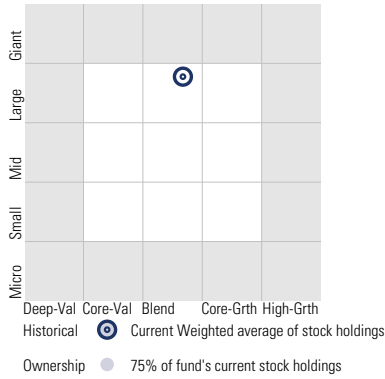
	Fund	Bmark	Cat
Price/Earnings Ratio	17.65	16.51	18.11
Price/Book Ratio	2.48	2.22	2.65
Avg Eff Duration	6.71	-	7.49

# Vanguard Target Retirement 2055 Fund VFFVX

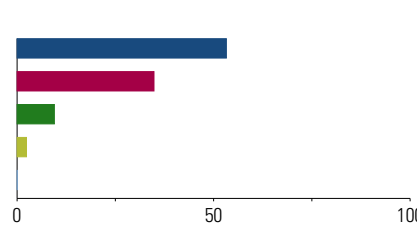
**Morningstar Category**  
Target-Date 2055

**Morningstar Index**  
Morningstar Lifetime Mod 2055 TR USD

**Style Analysis** as of 09-30-2023  
Morningstar Style Box™

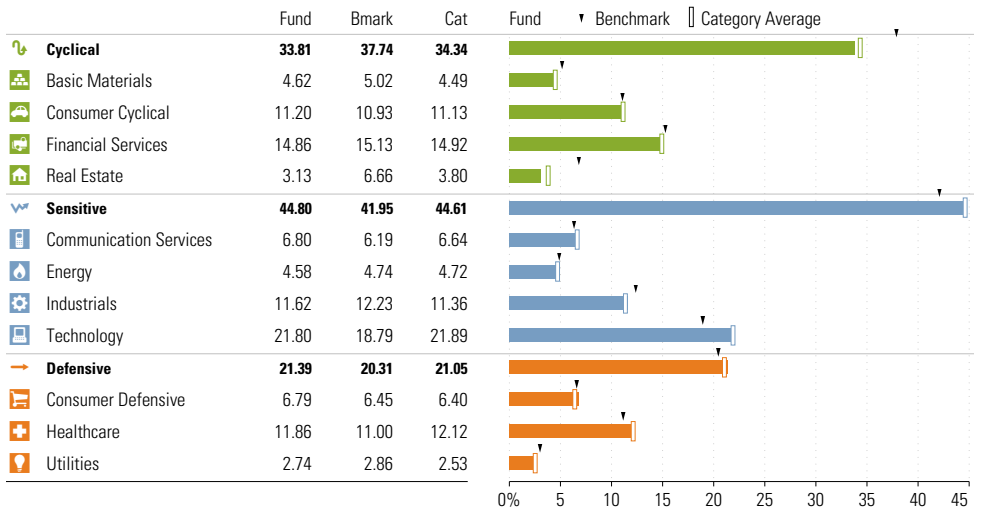


**Asset Allocation** as of 09-30-2023

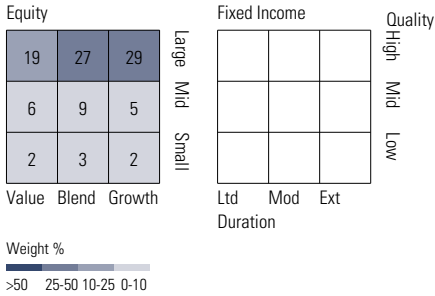


Asset Class	Net %	Cat%
US Stocks	53.25	54.00
Non-US Stocks	34.83	28.85
Bonds	9.48	5.90
Cash	2.39	1.06
Other	0.05	10.20
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 09-30-2023



**Style Breakdown**



**Top 6 Holdings** as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Instl Pls	-	53.61	53.61	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	35.79	89.40	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	6.96	96.35	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	2.65	99.00	-	-
⊖ Mktliq 12/31/2049	-	1.00	100.00	-	-
⊖ Us Dollar	-	0.00	100.00	-	-

**Total Holdings 6**

⊕ Increase ⊖ Decrease ✨ New to Portfolio



# Vanguard Target Retirement 2060 Fund VTTSX

**Morningstar Category**  
Target-Date 2060

**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Portfolio Manager(s)

Walter Nejman since 02-2013  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2060 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 10.61 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 0.08 is 88.06% lower than the Target-Date 2060 category average.

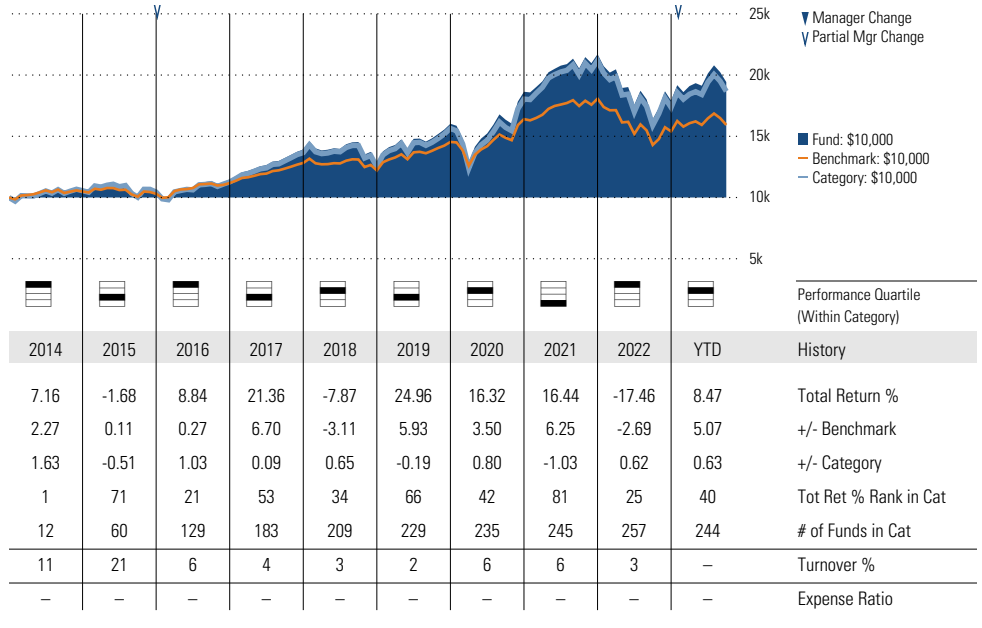
## Morningstar Investment Management LLC Analysis

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.

## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

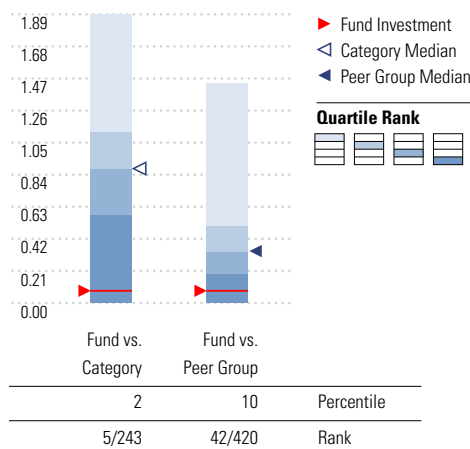
## Growth of \$10,000



## 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	3.12	-	3.10
Beta	1.29	-	1.32
R-Squared	98.50	-	97.20
Standard Deviation	15.97	12.30	16.42
Sharpe Ratio	0.31	0.08	0.30
Tracking Error	4.06	-	4.78
Information Ratio	0.89	-	0.75
Up Capture Ratio	141.38	-	144.61
Down Capture Ratio	124.11	-	127.71

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	17.63	16.40	18.07
Price/Book Ratio	2.48	2.18	2.61
Avg Eff Duration	6.71	-	6.43

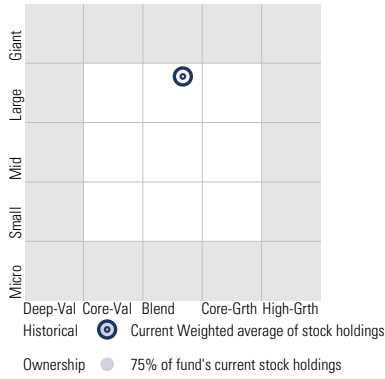
# Vanguard Target Retirement 2060 Fund VTTSX

**Morningstar Category**  
Target-Date 2060

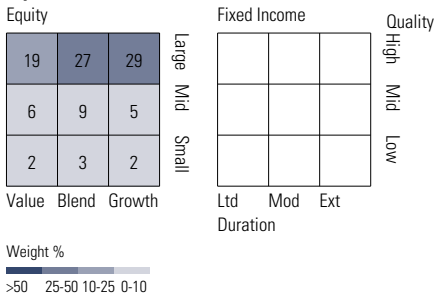
**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Style Analysis as of 09-30-2023

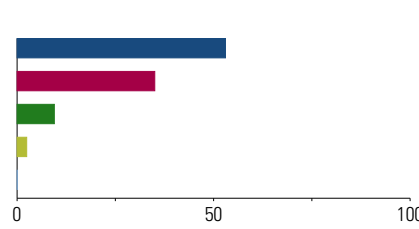
Morningstar Style Box™



## Style Breakdown

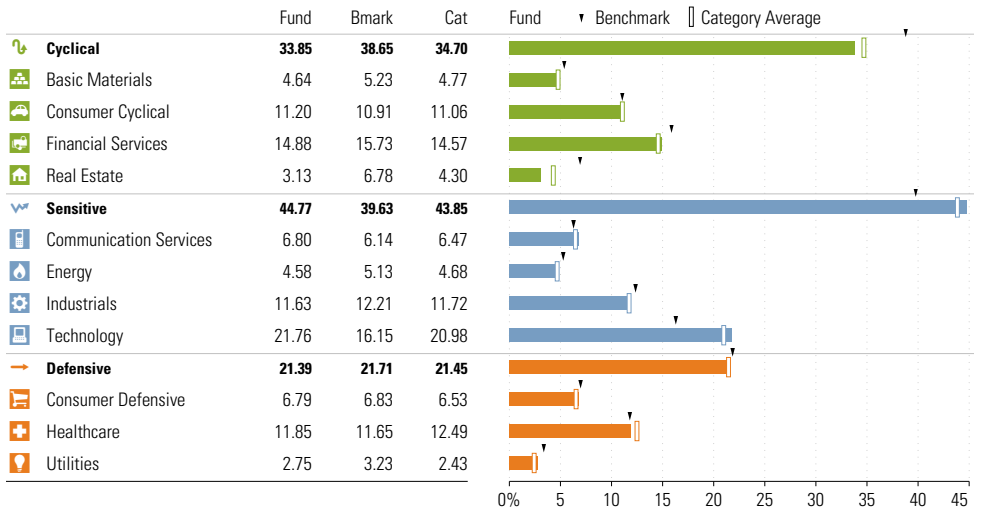


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	53.02	47.90
Non-US Stocks	35.03	30.80
Bonds	9.47	5.12
Cash	2.44	1.28
Other	0.05	14.90
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## Top 6 Holdings as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	-	53.37	53.37	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	35.99	89.36	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	6.94	96.30	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	2.65	98.95	-	-
⊕ Mktliq 12/31/2049	-	1.03	99.98	-	-
⊕ Us Dollar	-	0.02	100.00	-	-

## Total Holdings 6

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2065 Fund VLXVX

**Morningstar Category**  
Target-Date 2065+

**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Portfolio Manager(s)

Walter Nejman since 07-2017  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## Quantitative Screens

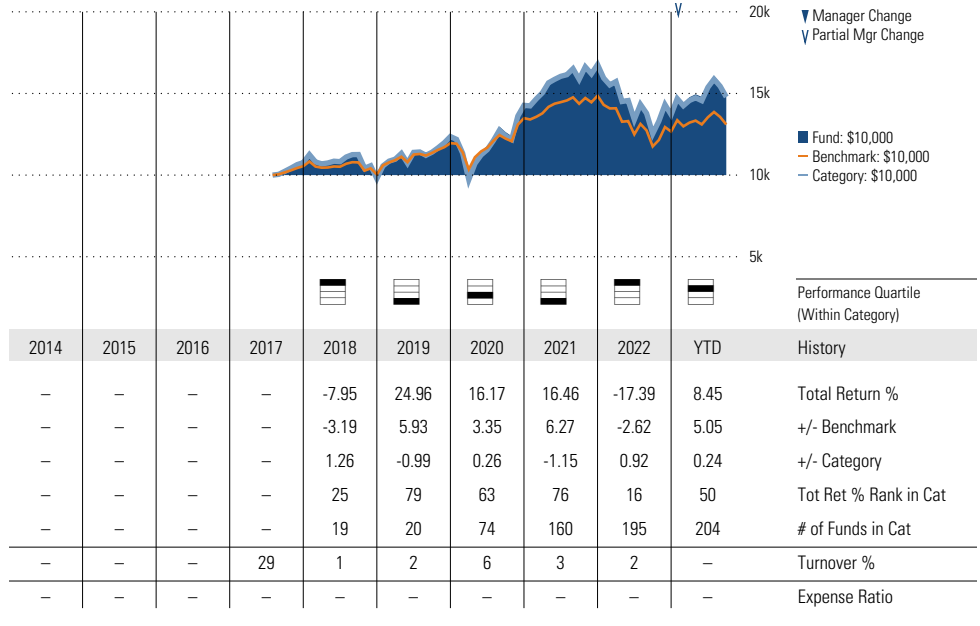
✔ **Performance:** The fund has finished in the Target-Date 2065+ category's top three quartiles in 4 of the 6 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.22 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 0.08 is 86.67% lower than the Target-Date 2065+ category average.

## Growth of \$10,000



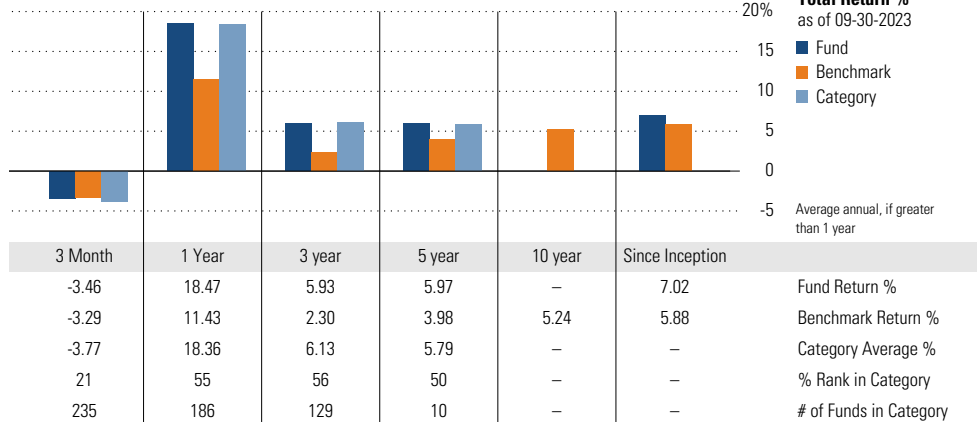
## Morningstar Investment Management LLC Analysis

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.

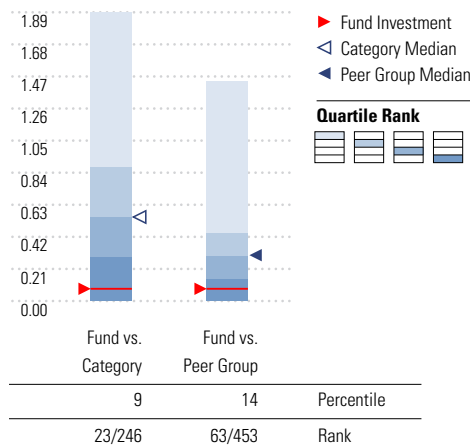
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

## 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	3.14	-	2.96
Beta	1.29	-	1.34
R-Squared	98.48	-	97.56
Standard Deviation	15.98	12.30	16.70
Sharpe Ratio	0.31	0.08	0.30
Tracking Error	4.07	-	4.95
Information Ratio	0.89	-	0.70
Up Capture Ratio	141.53	-	146.28
Down Capture Ratio	124.16	-	130.15

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	17.63	16.40	17.76
Price/Book Ratio	2.48	2.18	2.52
Avg Eff Duration	6.71	-	6.43

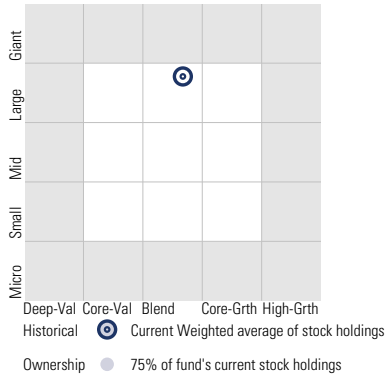
# Vanguard Target Retirement 2065 Fund VLXVX

**Morningstar Category**  
Target-Date 2065+

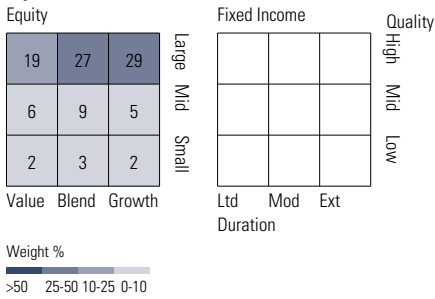
**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Style Analysis as of 09-30-2023

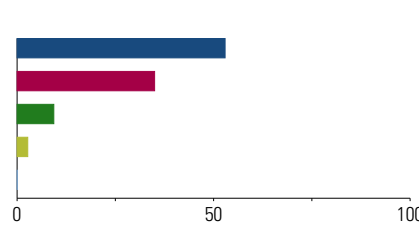
Morningstar Style Box™



## Style Breakdown

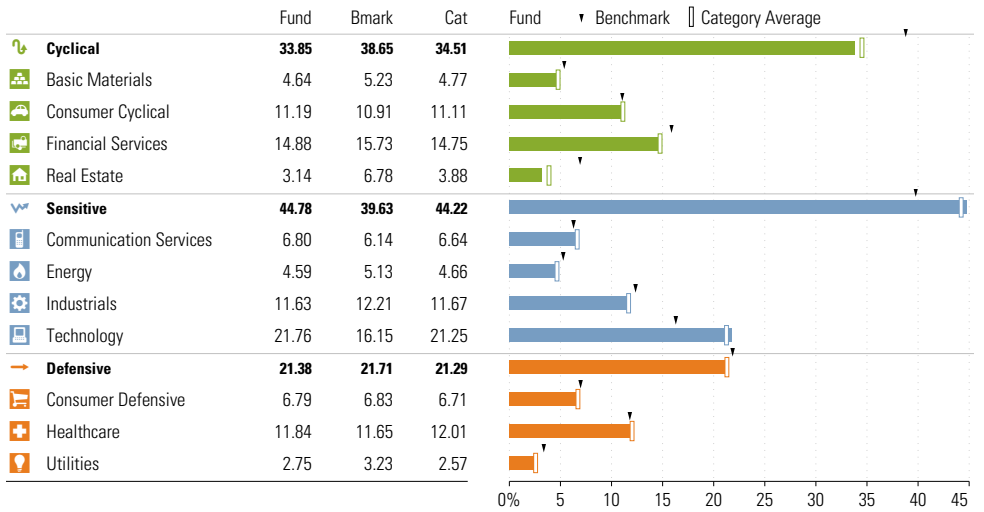


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	52.92	48.27
Non-US Stocks	34.99	32.03
Bonds	9.34	6.73
Cash	2.71	1.80
Other	0.05	11.18
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## Top 6 Holdings as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	—	53.27	53.27	—	—
⊕ Vanguard Total Intl Stock Index Inv	—	35.95	89.22	—	—
⊕ Vanguard Total Bond Market II Idx Inv	—	6.79	96.01	—	—
⊕ Vanguard Total Intl Bd II Idx Instl	—	2.66	98.68	—	—
⊕ Mktliq 12/31/2049	—	1.23	99.91	—	—
⊕ Us Dollar	—	0.09	100.00	—	—

## Total Holdings 6

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2070 Fund VSVNX

**Morningstar Category**  
Target-Date 2065+

**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Portfolio Manager(s)

Walter Nejman since 06-2022  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## 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 0.08 is 86.67% lower than the Target-Date 2065+ category average.

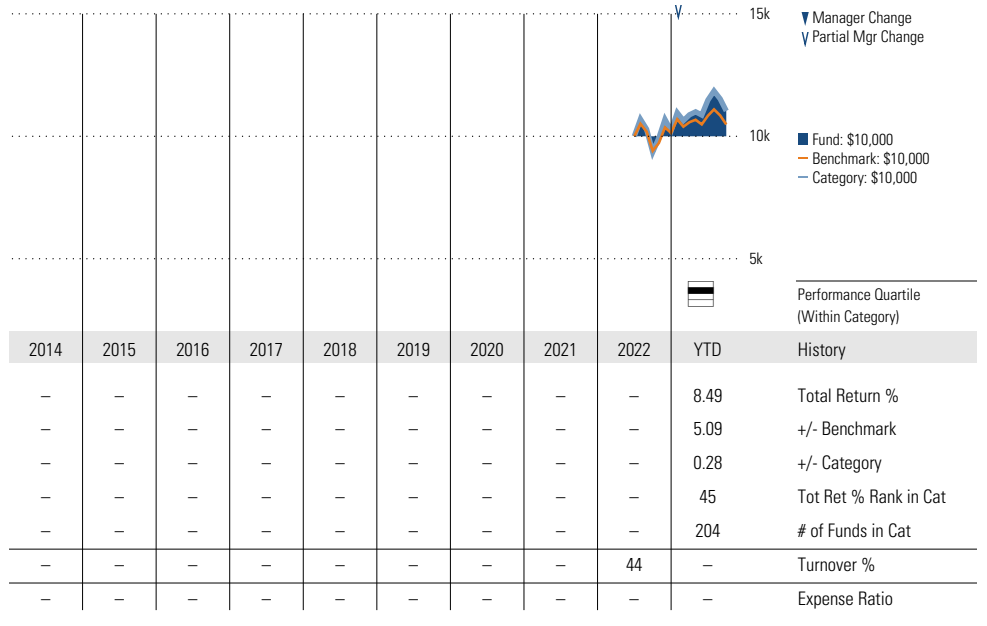
## Morningstar Investment Management LLC Analysis

This fund fails the manager tenure screen due to a limited history for this target-date vintage.

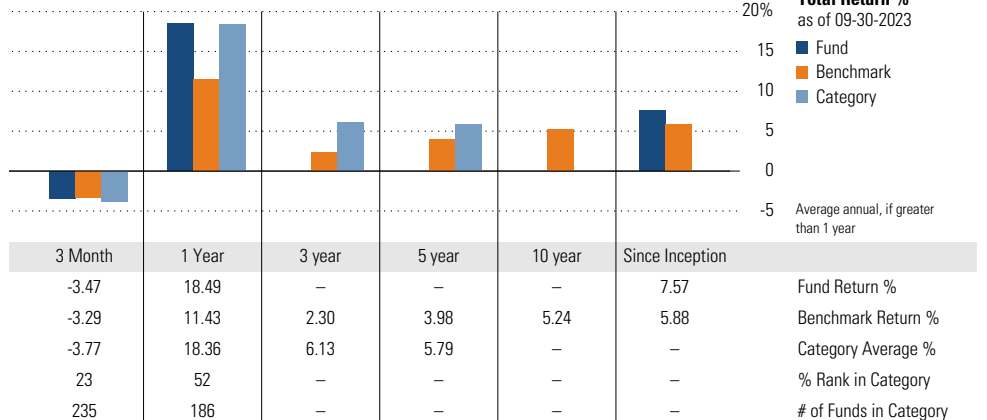
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022

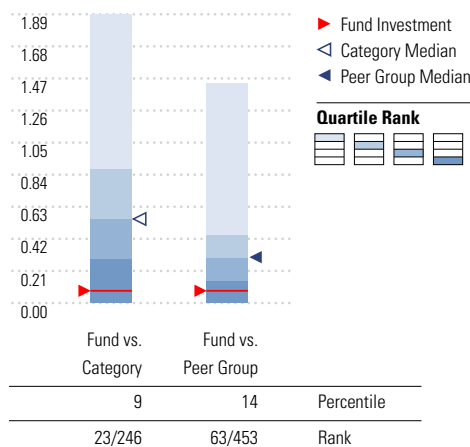
## Growth of \$10,000



## 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	-	-	2.96
Beta	-	-	1.34
R-Squared	-	-	97.56
Standard Deviation	-	12.30	16.70
Sharpe Ratio	-	0.08	0.30
Tracking Error	-	-	4.95
Information Ratio	-	-	0.70
Up Capture Ratio	-	-	146.28
Down Capture Ratio	-	-	130.15

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	17.66	16.40	17.76
Price/Book Ratio	2.48	2.18	2.52
Avg Eff Duration	6.73	-	6.43

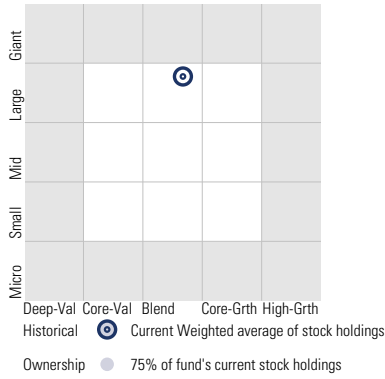
# Vanguard Target Retirement 2070 Fund VSVNX

**Morningstar Category**  
Target-Date 2065+

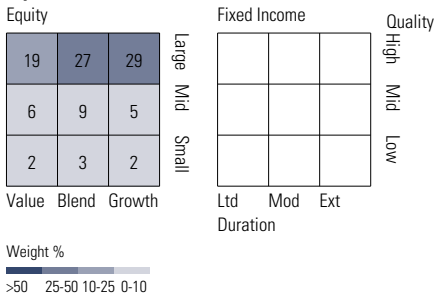
**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Style Analysis as of 09-30-2023

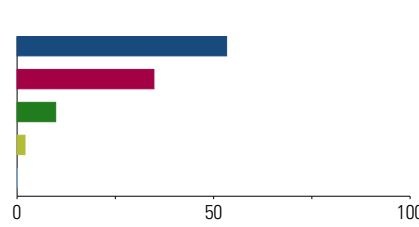
Morningstar Style Box™



## Style Breakdown

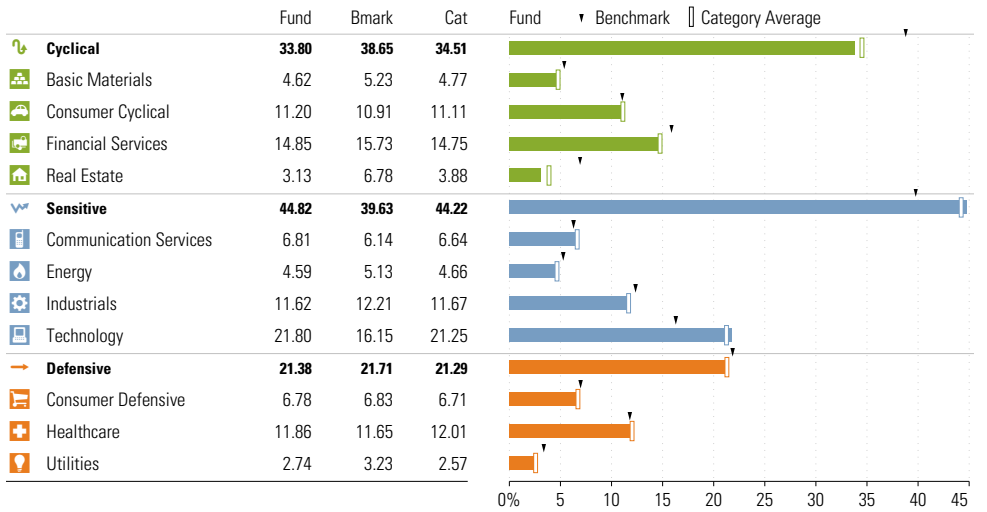


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	53.31	48.27
Non-US Stocks	34.81	32.03
Bonds	9.82	6.73
Cash	2.01	1.80
Other	0.05	11.18
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## Top 6 Holdings as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	-	53.67	53.67	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	35.77	89.43	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	6.96	96.40	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	2.98	99.38	-	-
⊕ Mktliq 12/31/2049	-	0.31	99.69	-	-
⊕ Us Dollar	-	0.31	100.00	-	-

## Total Holdings 6

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement Income Fund VTINX

**Morningstar Category**  
Target-Date Retirement

**Morningstar Index**  
Morningstar Lifetime Mod Incm TR USD

## Portfolio Manager(s)

Walter Nejman since 02-2013  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Diaz since 02-2023

## Quantitative Screens

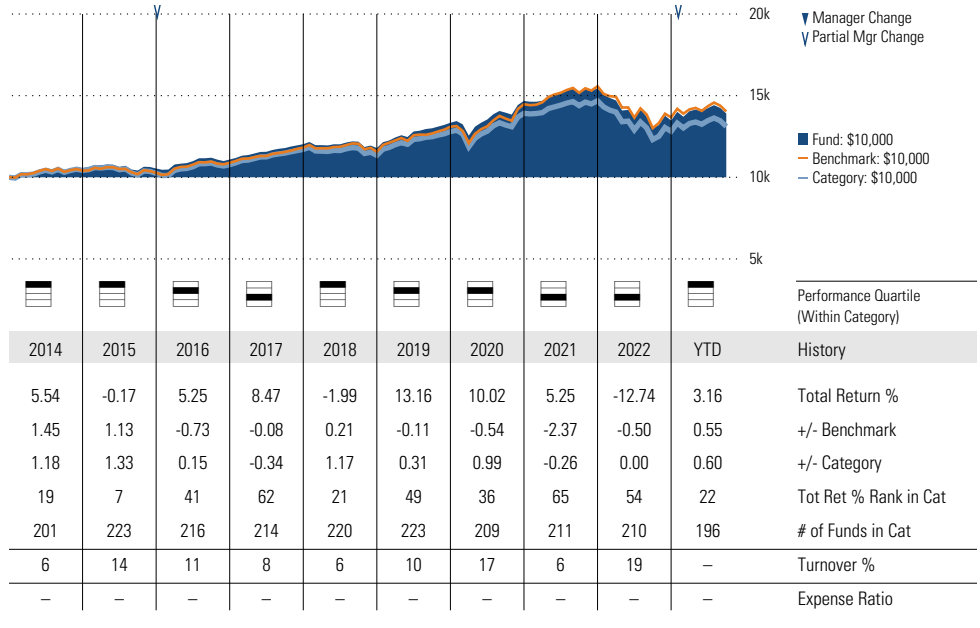
✔ **Performance:** The fund has finished in the Target-Date Retirement category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 10.61 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 0.08 is 86.89% lower than the Target-Date Retirement category average.

## Growth of \$10,000



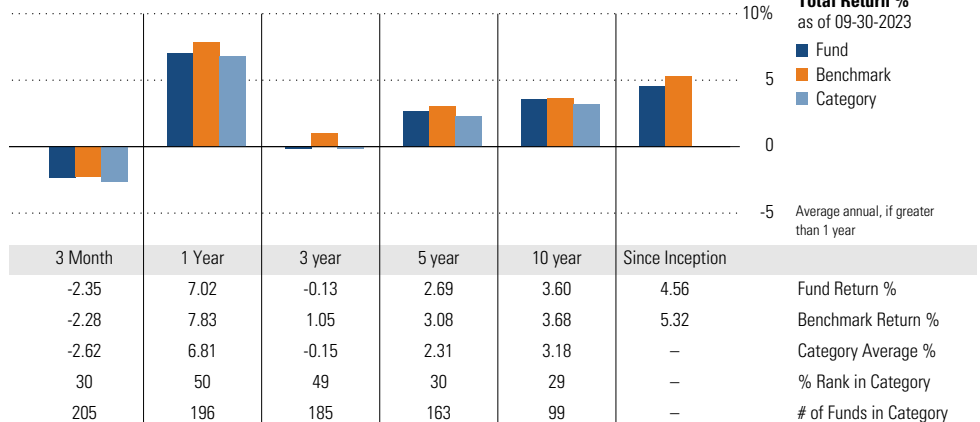
## Morningstar Investment Management LLC Analysis

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.

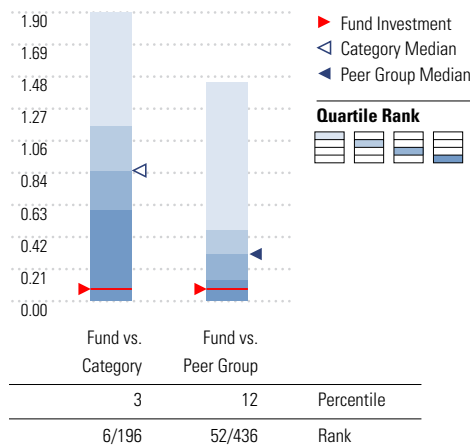
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
ESG Commitment	1-Low	02-15-2022

## 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	-1.09	-	-1.14
Beta	0.90	-	0.94
R-Squared	97.43	-	96.63
Standard Deviation	8.08	8.87	8.45
Sharpe Ratio	-0.23	-0.07	-0.23
Tracking Error	1.57	-	1.88
Information Ratio	-0.75	-	-0.65
Up Capture Ratio	86.47	-	89.70
Down Capture Ratio	95.39	-	99.10

## Portfolio Metrics

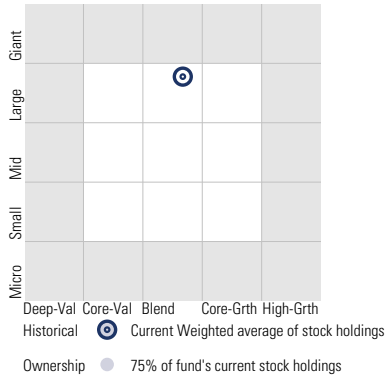
	Fund	Bmark	Cat
Price/Earnings Ratio	17.60	18.00	18.29
Price/Book Ratio	2.47	2.51	2.52
Avg Eff Duration	5.76	-	5.57

# Vanguard Target Retirement Income Fund VTINX

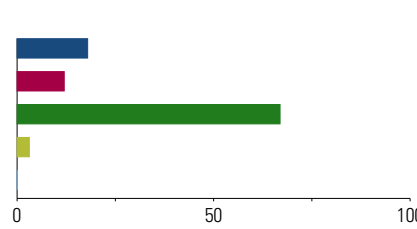
**Morningstar Category**  
Target-Date Retirement

**Morningstar Index**  
Morningstar Lifetime Mod Incm TR USD

**Style Analysis** as of 09-30-2023  
Morningstar Style Box™

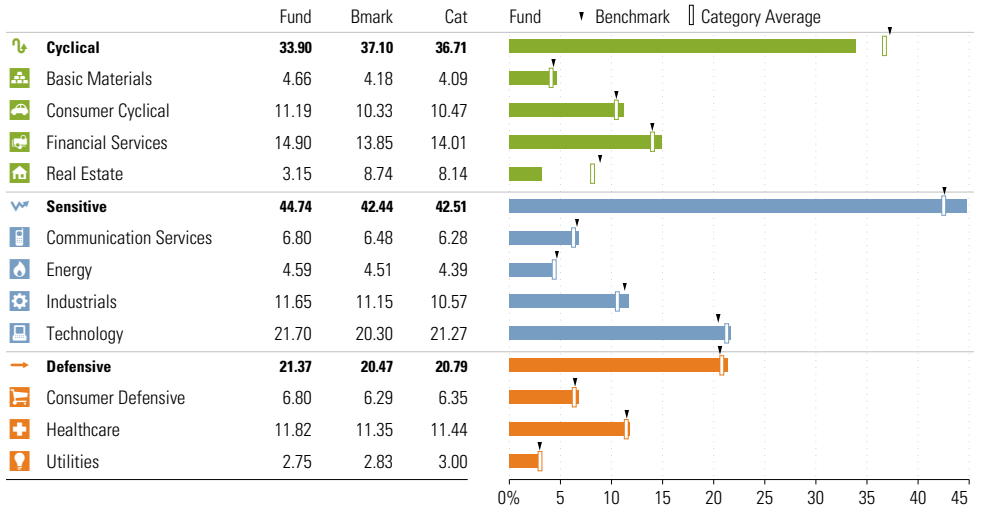


**Asset Allocation** as of 09-30-2023

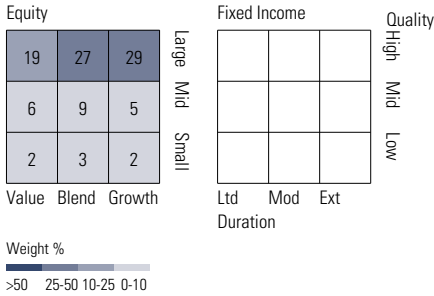


Asset Class	Net %	Cat%
US Stocks	17.95	19.96
Non-US Stocks	11.99	9.84
Bonds	66.91	52.99
Cash	3.11	3.88
Other	0.02	13.34
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 09-30-2023



**Style Breakdown**



**Top 7 Holdings** as of 09-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Bond Market II Idx Inv	-	36.18	36.18	-	-
⊖ Vanguard Total Stock Mkt Idx Instl Pls	-	18.06	54.25	-	-
Vanguard Shrt-Term Infl-Prot Sec Idx Adm	-	16.62	70.86	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	16.03	86.89	-	-
⊖ Vanguard Total Intl Stock Index Inv	-	12.32	99.22	-	-
⊖ Mktliq 12/31/2049	-	0.78	99.99	-	-
⊕ Us Dollar	-	0.01	100.00	-	-

**Total Holdings 7**

⊕ Increase ⊖ Decrease ✨ New to Portfolio



# Vanguard Total World Stock Index Admiral VTWAX

**Morningstar Category**  
Global Large-Stock Blend

**Morningstar Index**  
MSCI ACWI NR USD

## Portfolio Manager(s)

Christine Franquin since 02-2013  
Scott Geiger since 11-2017

## Quantitative Screens

✔ **Performance:** The fund has finished in the Global Large-Stock Blend category's top three quartiles in 4 of the 4 years it's been in existence.

✔ **Management:** The fund's management has been in place for 10.61 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 0.1 is 89.58% lower than the Global Large-Stock Blend category average.

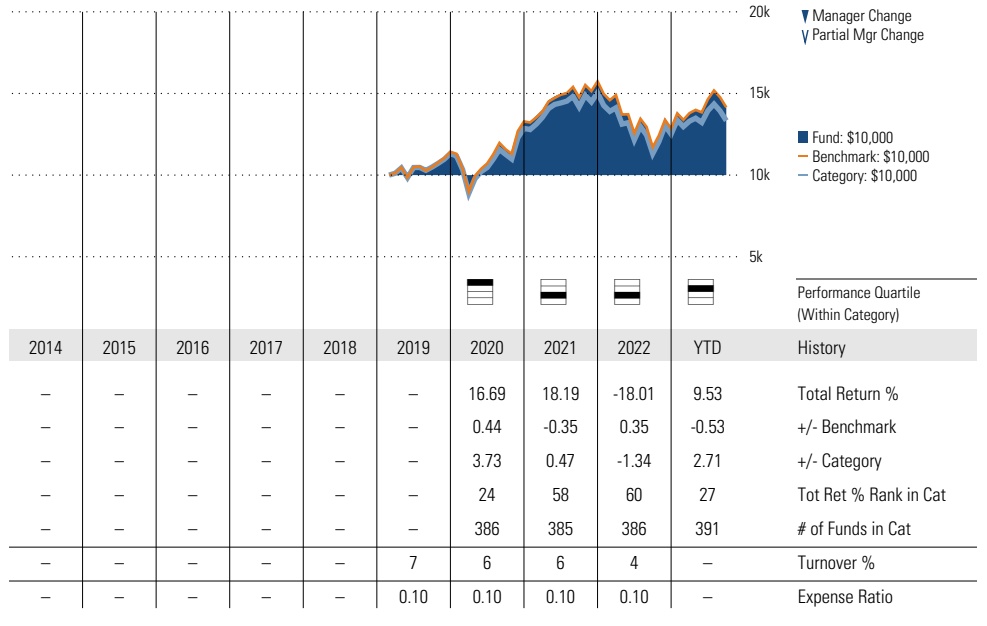
## Morningstar Investment Management LLC Analysis

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.

## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

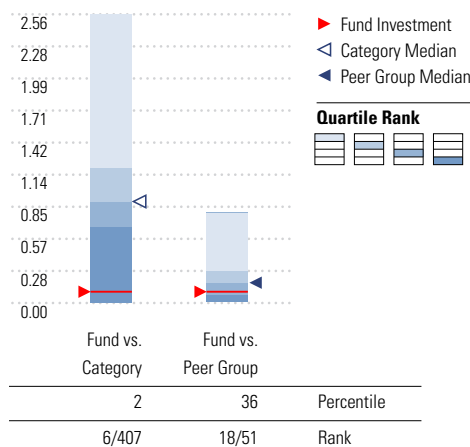
## Growth of \$10,000



## 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	-	-0.39
Beta	1.01	-	0.98
R-Squared	99.78	-	92.28
Standard Deviation	17.36	17.09	17.39
Sharpe Ratio	0.36	0.35	0.32
Tracking Error	0.85	-	4.67
Information Ratio	0.18	-	-0.12
Up Capture Ratio	101.59	-	98.93
Down Capture Ratio	101.36	-	101.56

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	17.39	18.01	18.92
Price/Book Ratio	2.42	2.62	2.96
Geom Avg Mkt Cap \$B	76.82	114.17	98.38
ROE	23.82	25.38	25.09

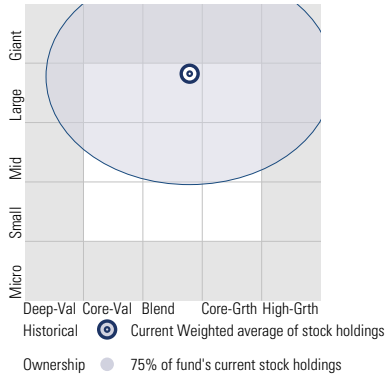
# Vanguard Total World Stock Index Admiral VTWAX

**Morningstar Category**  
Global Large-Stock Blend

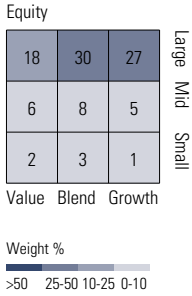
**Morningstar Index**  
MSCI ACWI NR USD

## Style Analysis as of 09-30-2023

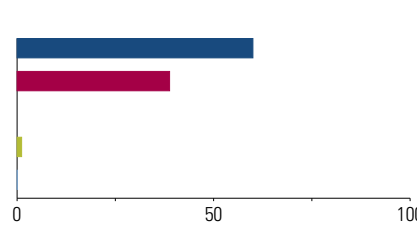
Morningstar Style Box™



## Style Breakdown

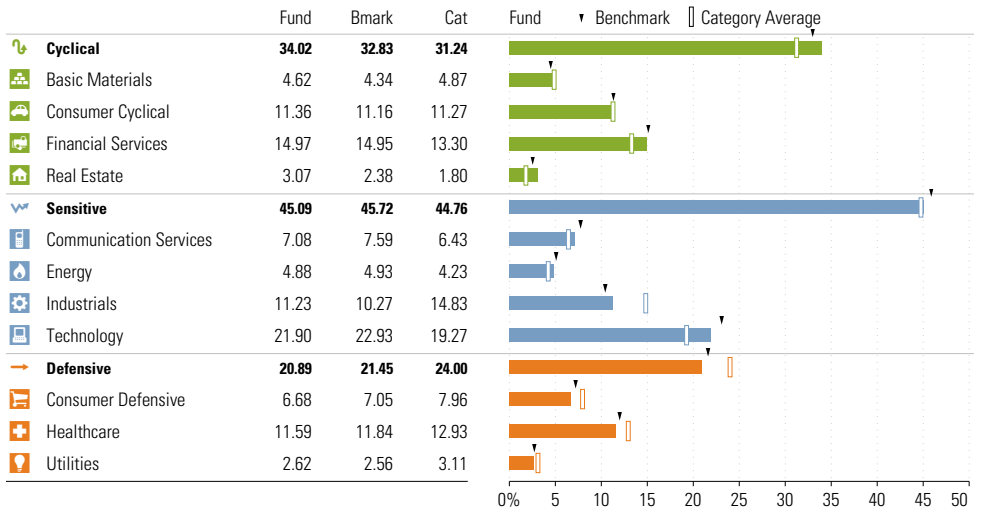


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	60.00	55.87
Non-US Stocks	38.80	39.23
Bonds	0.00	1.31
Cash	1.15	1.42
Other	0.05	2.18
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 09-30-2023



## World Regions % Equity 09-30-2023



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Americas	64.69	62.46	Greater Europe	17.24	24.22	Developed Markets	92.07			
North America	63.51	61.65	United Kingdom	3.62	6.00	Emerging Markets	7.93			
Central/Latin	1.18	0.81	W euro-ex UK	12.01	17.82	Not Available	0.00			
			Emrgng Europe	0.27	0.04					
			Africa	1.34	0.36					

## Top 10 Holdings as of 09-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Apple Inc	3.89	3.89	32.32	Technology
⊕ Microsoft Corp	3.39	7.28	32.51	Technology
⊕ Amazon.com Inc	1.73	9.00	51.33	Consumer Cyclical
⊕ NVIDIA Corp	1.63	10.63	197.74	Technology
⊕ Alphabet Inc Class A	1.14	11.77	48.32	Communication Svc
⊕ Tesla Inc	0.99	12.76	103.13	Consumer Cyclical
⊕ Alphabet Inc Class C	0.97	13.72	48.60	Communication Svc
⊕ Meta Platforms Inc Class A	0.91	14.63	149.47	Communication Svc
⊕ Berkshire Hathaway Inc Class B	0.77	15.40	13.40	Financial Services
⊕ Eli Lilly and Co	0.65	16.05	47.75	Healthcare

**Total Holdings 9546**

⊕ Increase ⊖ Decrease ✱ New to Portfolio