

# American Century Mid Cap Value I AVUAX

**Morningstar Category**  
Mid-Cap Value

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

## Portfolio Manager(s)

Michael Liss since 03-2004  
Kevin Toney since 08-2008  
Brian Woglom since 02-2012  
Nathan Rawlins since 03-2022

## Quantitative Screens

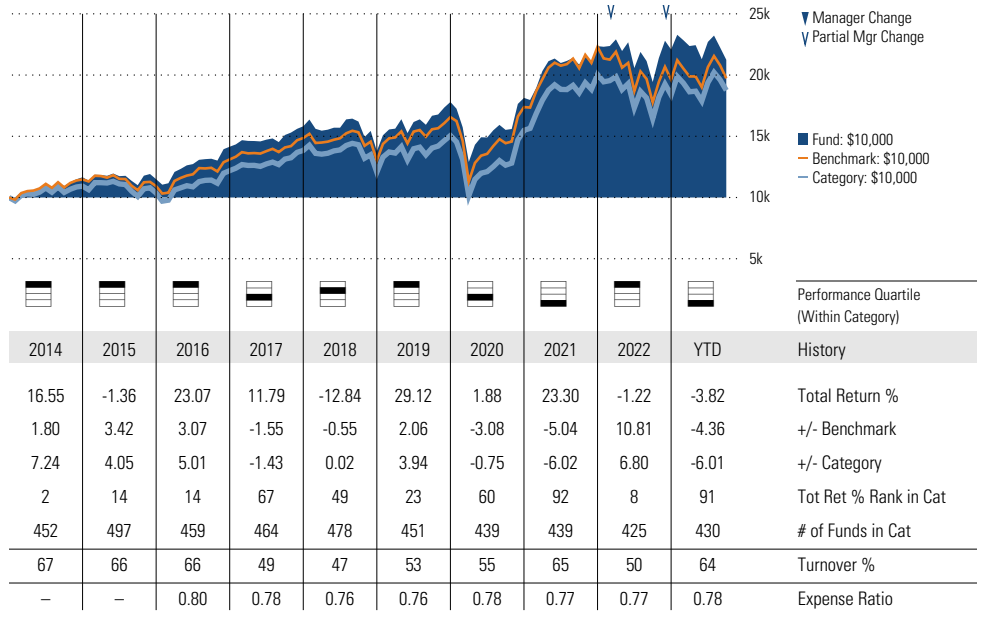
**Performance:** The fund has finished in the Mid-Cap Value category's top three quartiles in 8 of the 10 years it's been in existence.

**Management:** The fund's management has been in place for 19.51 years.

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

**Net Expense:** The fund's expense ratio of 0.78 is 19.59% lower than the Mid-Cap Value category average.

## Growth of \$10,000



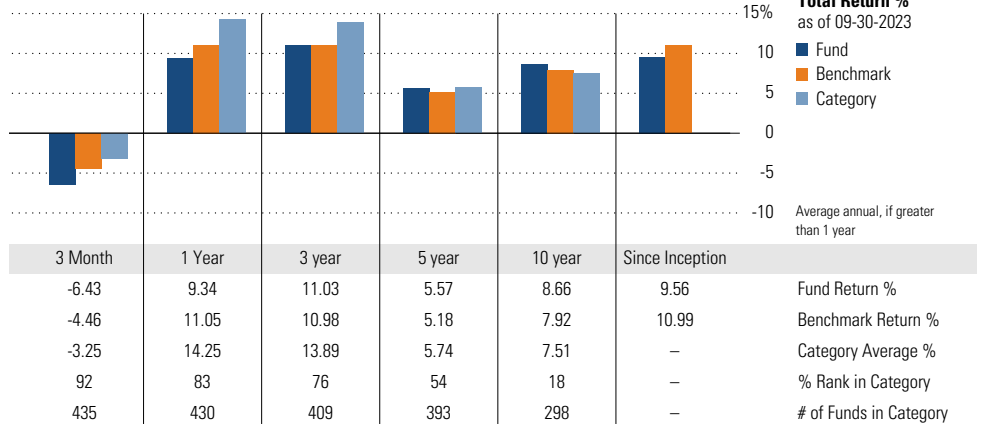
## Morningstar Investment Management LLC Analysis

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.

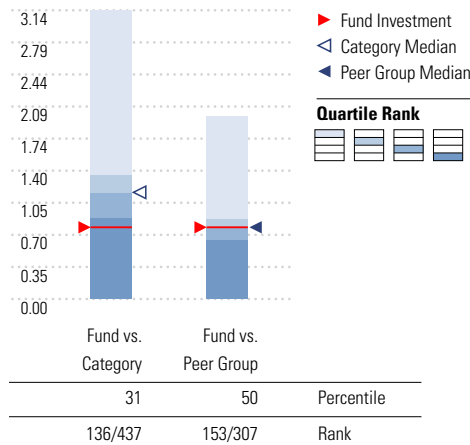
## ESG Metrics

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

Metric	Fund	Bmark	Cat
Alpha	1.47	-	2.65
Beta	0.85	-	0.98
R-Squared	94.16	-	94.38
Standard Deviation	17.34	19.86	19.94
Sharpe Ratio	0.57	0.52	0.63
Tracking Error	5.17	-	4.81
Information Ratio	0.01	-	0.55
Up Capture Ratio	86.73	-	100.27
Down Capture Ratio	81.29	-	90.56

## Portfolio Metrics

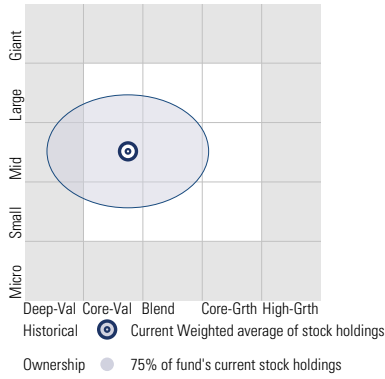
Metric	Fund	Bmark	Cat
Price/Earnings Ratio	16.09	15.63	14.80
Price/Book Ratio	1.98	2.12	1.91
Geom Avg Mkt Cap \$B	17.74	17.17	13.33
ROE	15.11	13.69	14.35

# American Century Mid Cap Value I AVUAX

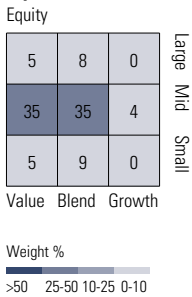
**Morningstar Category**  
Mid-Cap Value

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

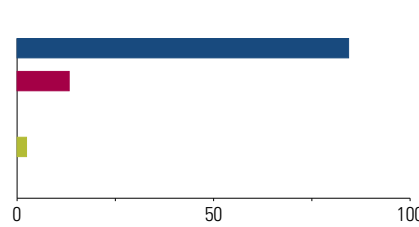
**Style Analysis** as of 09-30-2023  
Morningstar Style Box™



**Style Breakdown**

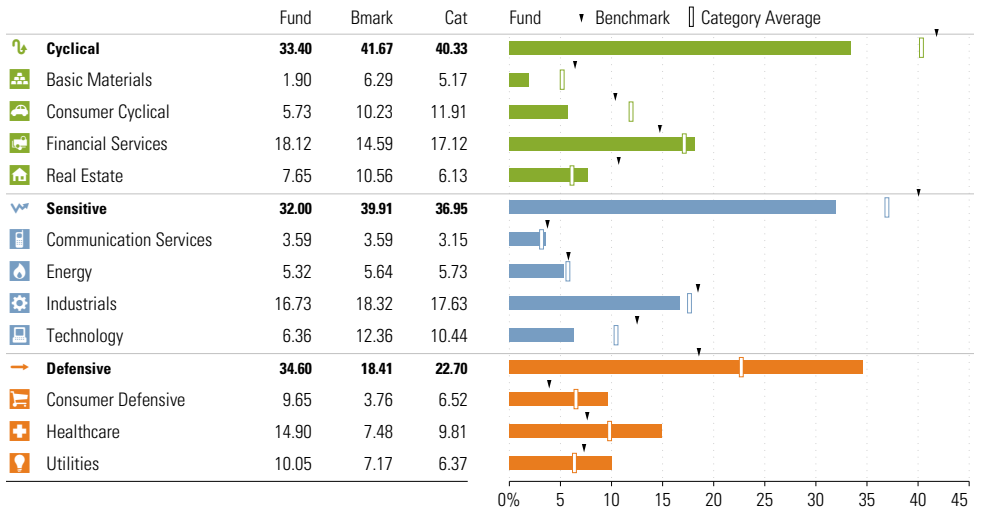


**Asset Allocation** as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	84.35	90.26
Non-US Stocks	13.25	7.17
Bonds	0.00	0.01
Cash	2.40	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
⊖ Zimmer Biomet Holdings Inc	2.55	2.55	-11.42	Healthcare
⊖ Northern Trust Corp	2.25	4.80	-18.94	Financial Services
⊕ Allstate Corp	2.22	7.02	-15.87	Financial Services
⊕ Edison International	2.21	9.23	2.96	Utilities
⊕ Conagra Brands Inc	2.15	11.38	-26.54	Consumer Defensive
⊖ Bank of New York Mellon Corp	2.09	13.47	-3.76	Financial Services
⊖ Koninklijke Ahold Delhaize NV	2.00	15.48	-	Consumer Defensive
⊕ Henry Schein Inc	1.92	17.40	-7.04	Healthcare
⊕ Oshkosh Corp	1.92	19.32	9.60	Industrials
⊕ Emerson Electric Co	1.92	21.24	2.15	Industrials
⊖ Southwest Airlines Co	1.69	22.93	-17.46	Industrials
⊕ Packaging Corp of America	1.69	24.62	22.98	Consumer Cyclical
⊖ Spire Inc	1.69	26.31	-14.70	Utilities
⊖ Dollar Tree Inc	1.64	27.95	-24.74	Consumer Defensive
⊕ Enterprise Products Partners LP	1.63	29.58	19.61	Energy

**Total Holdings 102**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# American Funds New Perspective R6 RNPGX

**Morningstar Category**  
Global Large-Stock Growth

**Morningstar Index**  
MSCI ACWI NR USD

## Portfolio Manager(s)

Robert Lovelace since 12-2000  
Jonathan Knowles since 12-2004  
Joanna Jonsson since 12-2005  
Steven Watson since 12-2005  
Brady Enright since 12-2005  
Noriko Chen since 04-2012  
Andraz Razen since 07-2015  
Barbara Burtin since 12-2018  
Patrice Collette since 12-2018

## Quantitative Screens

✔ **Performance:** The fund has finished in the Global Large-Stock 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 22.84 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.41 is 61.68% lower than the Global Large-Stock 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	2	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	-2.36	-	-5.37
Beta	1.11	-	1.09
R-Squared	96.13	-	87.87
Standard Deviation	19.33	17.09	20.08
Sharpe Ratio	0.24	0.35	0.09
Tracking Error	4.24	-	7.12
Information Ratio	-0.47	-	-0.70
Up Capture Ratio	105.23	-	96.80
Down Capture Ratio	115.20	-	119.97

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	21.65	18.01	25.97
Price/Book Ratio	3.64	2.62	4.60
Geom Avg Mkt Cap \$B	118.09	114.17	155.31
ROE	25.53	25.38	24.52

# American Funds New Perspective R6 RNPGX

**Morningstar Category**  
Global Large-Stock Growth

**Morningstar Index**  
MSCI ACWI NR USD

## Style Analysis as of 09-30-2023

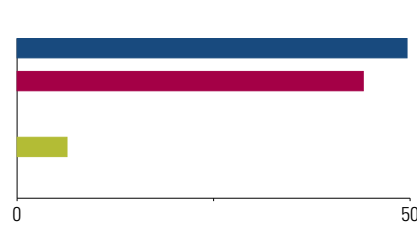
Morningstar Style Box™



## Style Breakdown

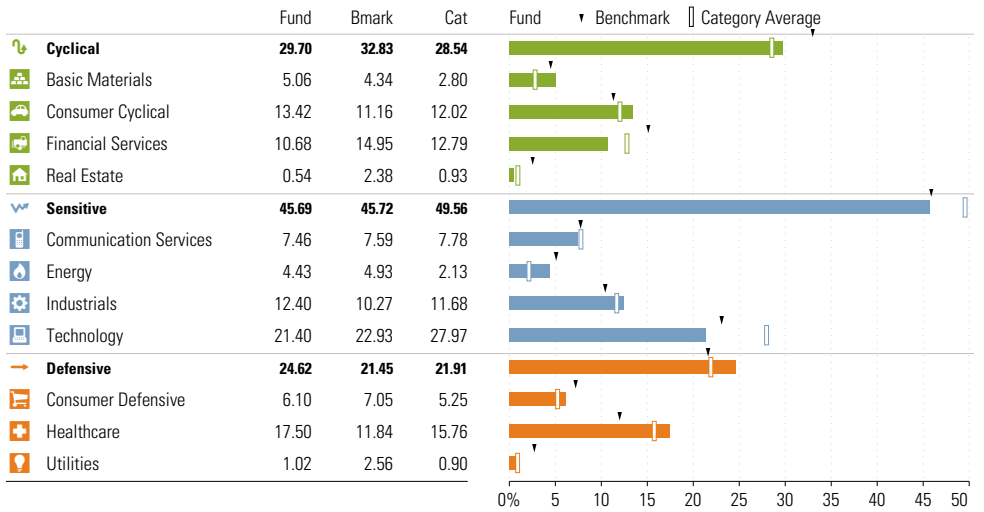


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	49.61	58.42
Non-US Stocks	44.04	38.96
Bonds	0.00	0.01
Cash	6.35	2.05
Other	0.00	0.56
<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	11.44	12.26	Americas	57.58	63.40	Greater Europe	30.99	24.36	Developed Markets	95.76
Japan	3.17	4.11	North America	56.23	62.03	United Kingdom	5.54	4.38	Emerging Markets	4.24
Australasia	0.09	0.24	Central/Latin	1.35	1.37	W euro-ex UK	24.95	19.65	Not Available	0.00
Asia-4 Tigers	5.62	3.56				Emrgng Europe	0.00	0.02		
Asia-ex 4 Tigers	2.56	4.35				Africa	0.50	0.31		
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 Fund	6.35	6.35	-	-
⊖ Microsoft Corp	4.69	11.04	32.51	Technology
⊕ Novo Nordisk A/S Class B	2.48	13.52	-	Healthcare
⊖ Tesla Inc	2.39	15.91	103.13	Consumer Cyclical
⊖ Taiwan Semiconductor Manufacturing Co Ltd	2.29	18.21	-	Technology
⊖ Meta Platforms Inc Class A	2.15	20.36	149.47	Communication Svc
⊖ Broadcom Inc	1.91	22.27	51.02	Technology
⊖ Eli Lilly and Co	1.51	23.78	47.75	Healthcare
⊖ ASML Holding NV	1.46	25.24	-	Technology
LVMH Moët Hennessy Louis Vuitton SE	1.33	26.58	-	Consumer Cyclical

**Total Holdings 297**

⊕ Increase ⊖ Decrease ✱ New to Portfolio

# American Funds New World R6 RNWGX

**Morningstar Category**  
Diversified Emerging Mkts

**Morningstar Index**  
MSCI EM NR USD

## Portfolio Manager(s)

Carl Kawaja since 06-1999  
 Robert Lovelace since 06-1999  
 Winnie Kwan since 01-2009  
 Christopher Thomsen since 01-2009  
 Tomonori Tani since 10-2013  
 Jonathan Knowles since 01-2016  
 Akira Shiraishi since 01-2017  
 Bradford Freer since 01-2017  
 Lisa Thompson since 10-2019  
 Kirstie Spence since 12-2019  
 Dawid Justus since 01-2020  
 Piya Phanaphat since 01-2020

## 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 24.3 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.57 is 50% 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	3	08-31-2023
Carbon Risk Score	Medium Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

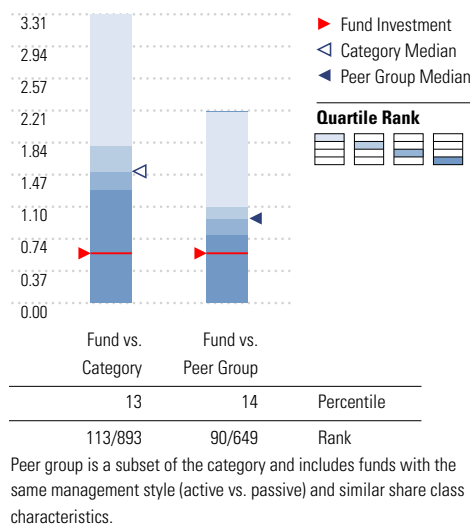
## Growth of \$10,000



## Trailing Performance



## Net Expense



## 3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	3.12	-	0.13
Beta	0.85	-	0.96
R-Squared	78.76	-	87.58
Standard Deviation	17.07	17.90	18.47
Sharpe Ratio	0.05	-0.12	-0.10
Tracking Error	8.33	-	6.34
Information Ratio	0.39	-	-0.02
Up Capture Ratio	93.06	-	98.68
Down Capture Ratio	80.37	-	98.67

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	18.17	12.44	13.62
Price/Book Ratio	2.98	1.57	1.94
Geom Avg Mkt Cap \$B	59.03	34.93	45.85
ROE	22.42	16.48	18.37

# American Funds New World R6 RNWGX

**Morningstar Category**  
Diversified Emerging Mkts

**Morningstar Index**  
MSCI EM NR USD

## Style Analysis as of 09-30-2023

Morningstar Style Box™



## Style Breakdown

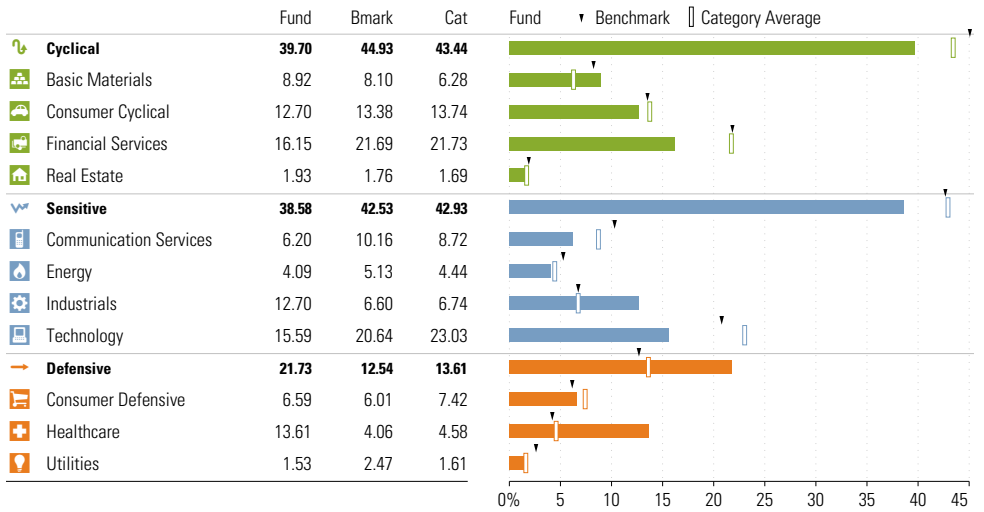


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	22.73	3.39
Non-US Stocks	68.10	94.61
Bonds	3.75	0.00
Cash	4.99	1.75
Other	0.43	0.24
<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	38.48	74.43	Americas	36.40	15.31	Greater Europe	25.12	10.24	Developed Markets	59.04
Japan	2.51	0.08	North America	26.68	2.89	United Kingdom	2.38	0.58	Emerging Markets	40.96
Australasia	0.46	0.00	Central/Latin	9.72	12.42	W euro-ex UK	20.00	1.92	Not Available	0.00
Asia-4 Tigers	6.81	27.40				Emrgng Europe	0.59	1.50		
Asia-ex 4 Tigers	28.70	46.95				Africa	2.15	6.24		
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 Fund	4.81	4.81	-	-
Microsoft Corp	2.91	7.72	32.51	Technology
Novo Nordisk A/S Class B	2.17	9.89	-	Healthcare
Taiwan Semiconductor Manufacturing Co Ltd	2.02	11.91	-	Technology
LVMH Moet Hennessy Louis Vuitton SE	1.82	13.72	-	Consumer Cyclical
Kotak Mahindra Bank Ltd	1.61	15.33	-	Financial Services
Airbus SE	1.55	16.88	-	Industrials
Eli Lilly and Co	1.26	18.13	47.75	Healthcare
Reliance Industries Ltd	1.16	19.30	-	Energy
AIA Group Ltd	1.12	20.42	-	Financial Services

**Total Holdings 590**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# American Funds Washington Mutual R6 RWMGX

**Morningstar Category**  
Large Blend

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

## Portfolio Manager(s)

Alan Berro since 07-1997  
 Jeffrey Lager since 07-2004  
 Alan Wilson since 07-2013  
 Diana Wagner since 06-2014  
 Jin Lee since 07-2014  
 Eric Stern since 11-2014  
 Irfan Furniturewala since 06-2015  
 Emme Kozloff since 07-2016  
 Mark Casey since 07-2016

## Quantitative Screens

- ✔ **Performance:** The fund has finished in the Large Blend category's top three quartiles in 7 of the 10 years it's been in existence.
- ✔ **Management:** The fund's management has been in place for 26.27 years.
- ✗ **Style:** The fund has landed in its primary style box — Large Blend — 50 % of the time over the past three years.
- ✔ **Net Expense:** The fund's expense ratio of 0.27 is 64% lower than the Large Blend category average.

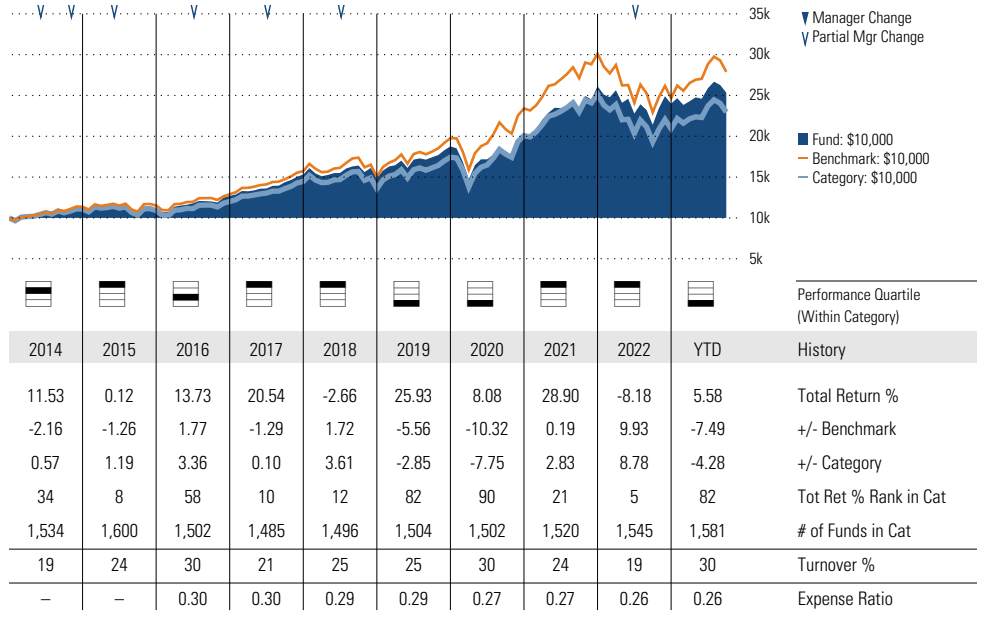
## Morningstar Investment Management LLC Analysis

This fund fails our style consistency screen as the portfolio has slightly drifted from the large-blend portion of the Morningstar style box to the large-value portion however, the underlying investment strategy remains consistent so we are not concerned with this style failure.

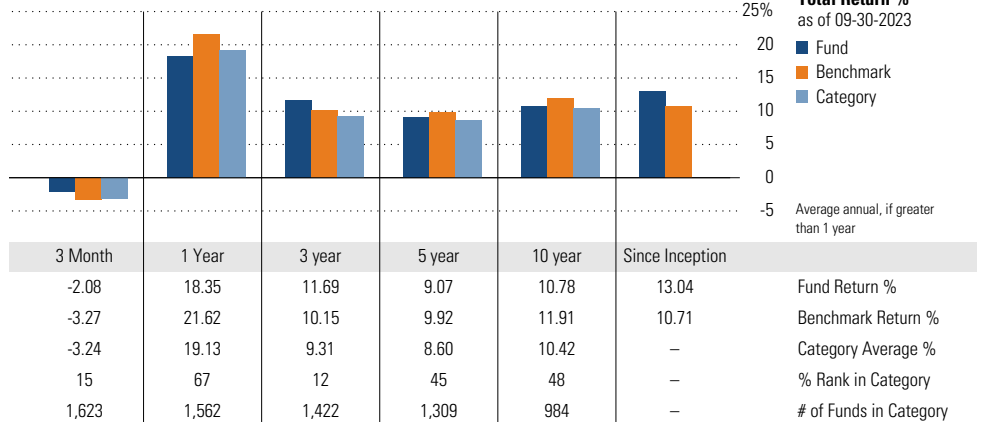
## ESG Metrics

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

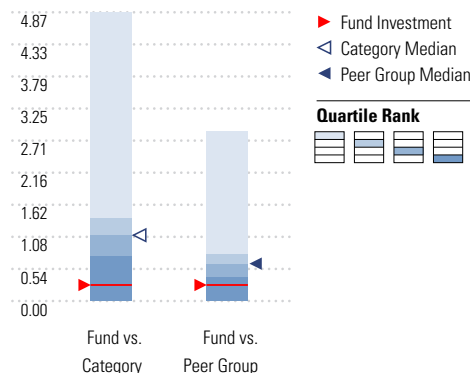
## Growth of \$10,000



## 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

Metric	Fund	Bmark	Cat
Alpha	2.79	-	-0.66
Beta	0.85	-	0.95
R-Squared	90.86	-	94.61
Standard Deviation	15.84	17.85	17.40
Sharpe Ratio	0.65	0.52	0.45
Tracking Error	5.52	-	3.74
Information Ratio	0.28	-	-1.15
Up Capture Ratio	91.69	-	93.16
Down Capture Ratio	82.01	-	95.77

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	19.42	22.40	22.25
Price/Book Ratio	3.61	3.98	4.46
Geom Avg Mkt Cap \$B	152.24	228.69	275.77
ROE	29.65	30.76	29.52

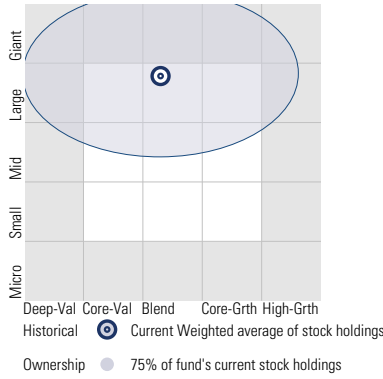
# American Funds Washington Mutual R6 RWMGX

**Morningstar Category**  
Large Blend

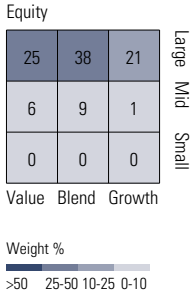
**Morningstar Index**  
S&P 500 TR USD

## Style Analysis as of 09-30-2023

Morningstar Style Box™



## Style Breakdown

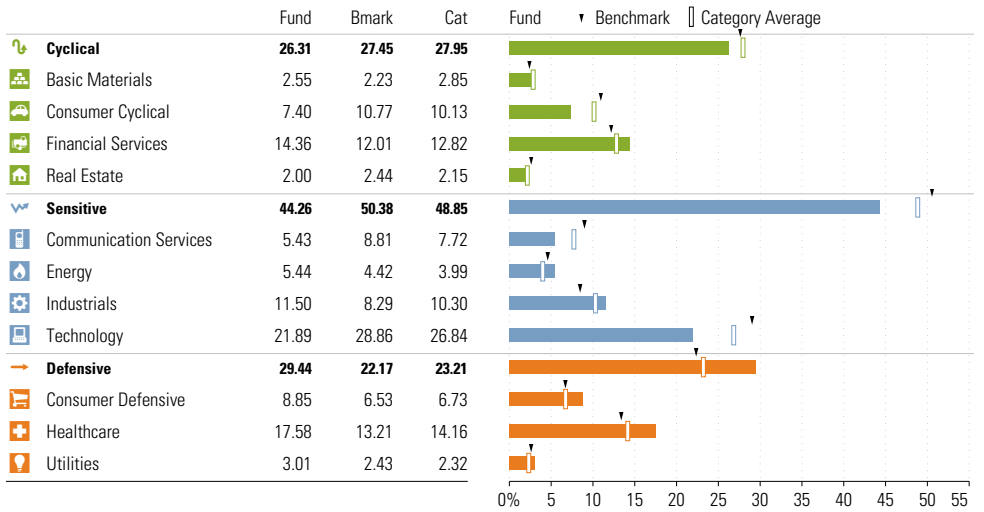


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	88.86	95.33
Non-US Stocks	7.01	2.48
Bonds	0.00	0.15
Cash	4.07	0.71
Other	0.07	1.34
<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
⊖ Broadcom Inc	6.43	6.43	51.02	Technology
⊖ Microsoft Corp	6.19	12.62	32.51	Technology
⊕ Capital Group Central Cash Fund	4.02	16.64	-	-
⊖ UnitedHealth Group Inc	3.24	19.88	-3.88	Healthcare
⊖ Comcast Corp Class A	2.68	22.55	29.23	Communication Svc
Marsh & McLennan Companies Inc	2.51	25.06	16.14	Financial Services
⊖ Eli Lilly and Co	1.98	27.04	47.75	Healthcare
⊕ Northrop Grumman Corp	1.80	28.84	-18.32	Industrials
⊖ The Home Depot Inc	1.75	30.59	-2.35	Consumer Cyclical
⊕ Philip Morris International Inc	1.70	32.29	-4.73	Consumer Defensive
Apple Inc	1.60	33.89	32.32	Technology
⊕ Johnson & Johnson	1.56	35.45	-9.84	Healthcare
⊕ JPMorgan Chase & Co	1.40	36.86	10.38	Financial Services
⊕ ASML Holding NV ADR	1.23	38.09	8.64	Technology
⊖ AstraZeneca PLC ADR	1.20	39.29	2.02	Healthcare

**Total Holdings 192**

⊕ 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.

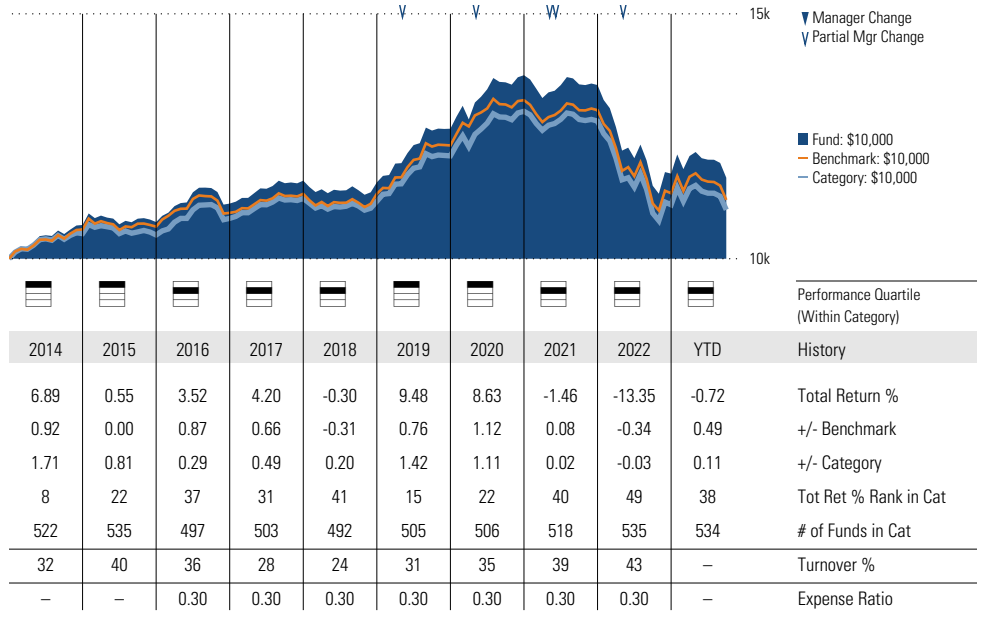
## Morningstar Investment Management LLC Analysis

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.

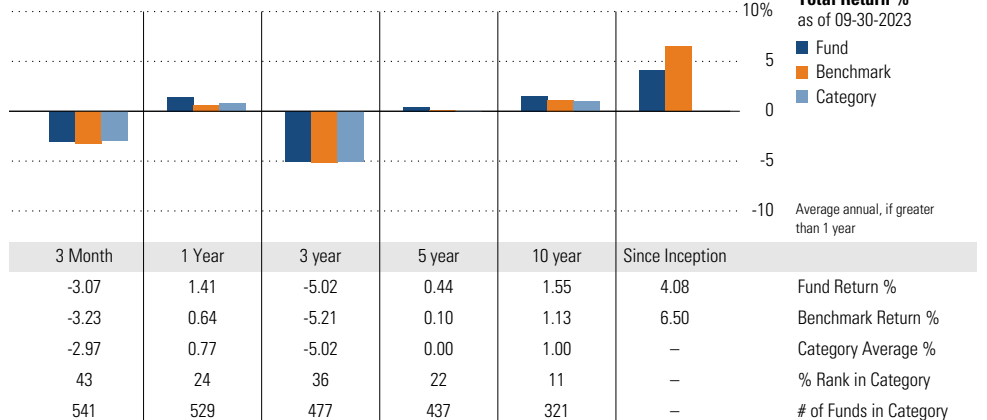
## ESG Metrics

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

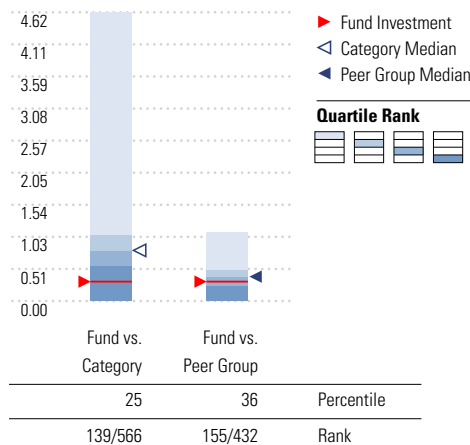
## Growth of \$10,000



## 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 Oblig 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

# BlackRock Global Allocation Instl MALOX

**Morningstar Category**  
Global Allocation

**Morningstar Index**  
Morningstar Gbl Allocation TR USD

## Portfolio Manager(s)

Russ Koesterich since 01-2017  
David Clayton since 01-2017  
Rick Rieder since 04-2019

## Quantitative Screens

✔ **Performance:** The fund has finished in the Global Allocation 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 6.75 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 0.84 is 24.32% lower than the Global Allocation category average.

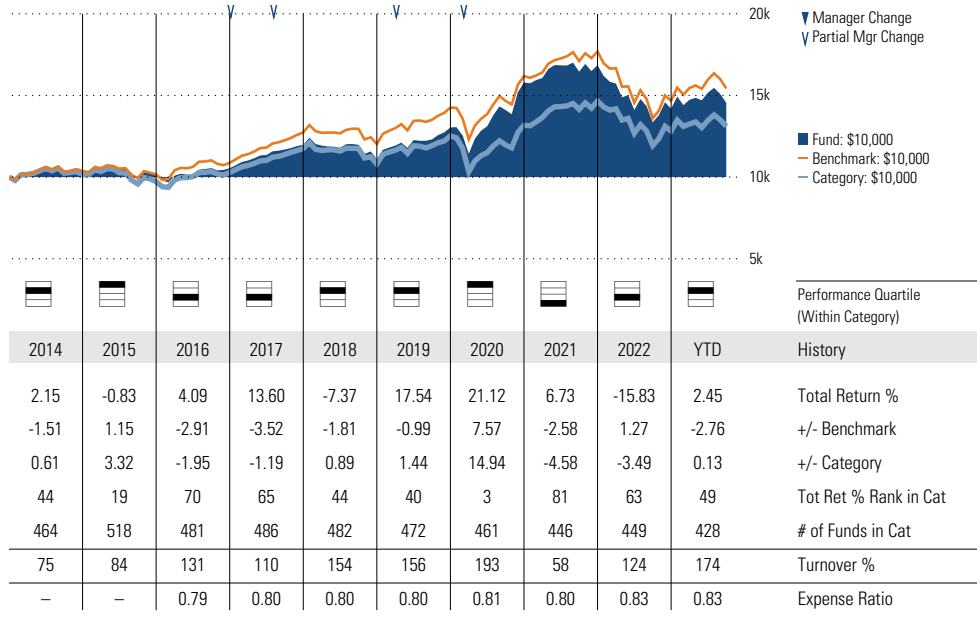
## Morningstar Investment Management LLC Analysis

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.

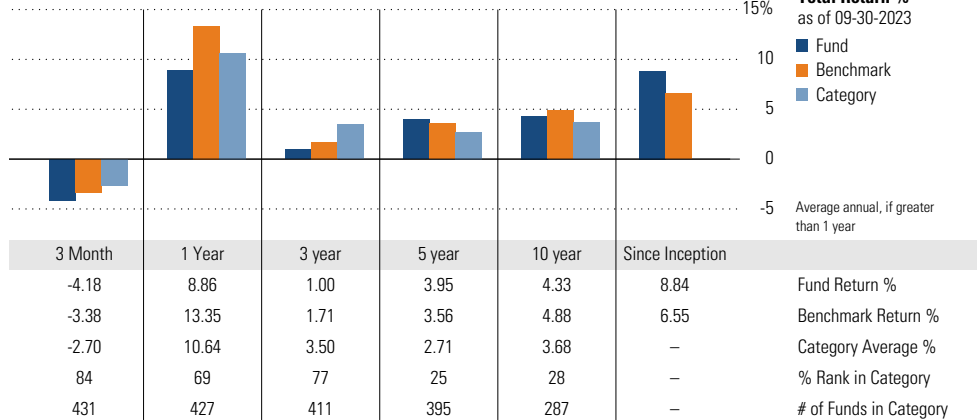
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	09-30-2022

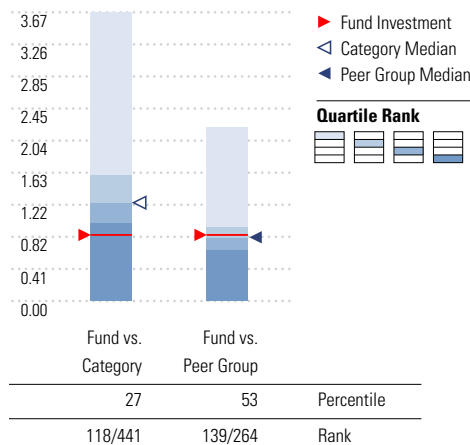
## Growth of \$10,000



## 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	-0.65	-	1.73
Beta	0.96	-	0.94
R-Squared	97.44	-	88.07
Standard Deviation	12.51	12.83	12.87
Sharpe Ratio	-0.02	0.04	0.15
Tracking Error	2.06	-	4.32
Information Ratio	-0.35	-	0.24
Up Capture Ratio	94.42	-	101.88
Down Capture Ratio	98.11	-	92.82

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	18.10	17.40	16.13
Price/Book Ratio	2.76	2.44	2.10
Avg Eff Duration	4.70	-	5.49

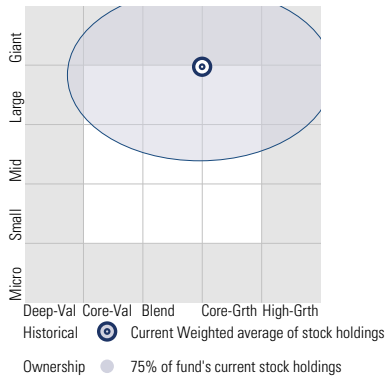
# BlackRock Global Allocation Instl MALOX

**Morningstar Category**  
Global Allocation

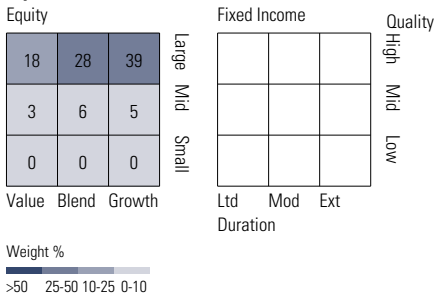
**Morningstar Index**  
Morningstar Gbl Allocation TR USD

## Style Analysis as of 09-30-2023

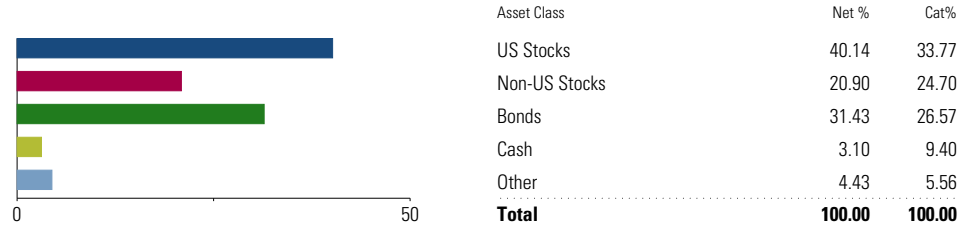
Morningstar Style Box™



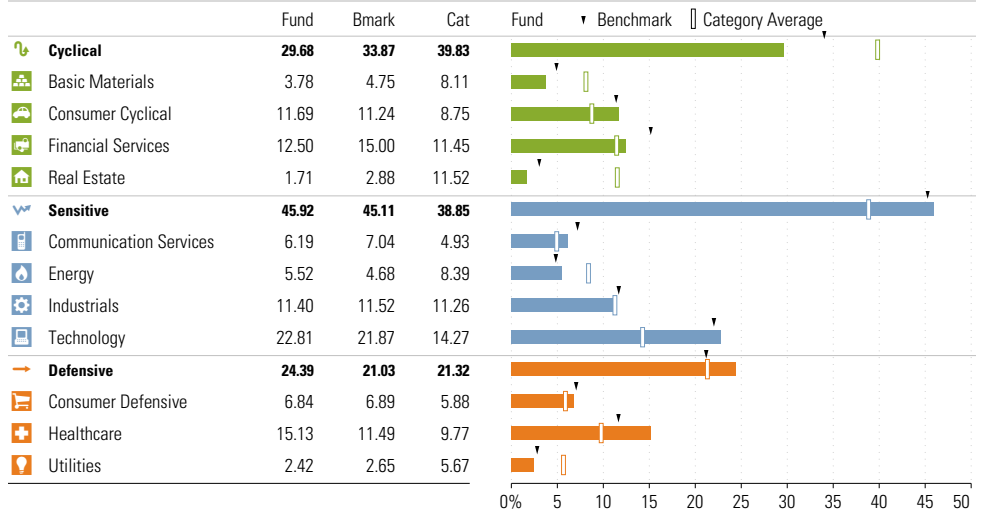
## Style Breakdown



## Asset Allocation as of 09-30-2023



## Sector Weighting as of 09-30-2023



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

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Us Ultra 10Yr Note Sep 23	-	13.36	13.36	-	-
⊖ JPY/USD Purchased	09-2023	6.68	20.04	-	-
⊕ JPY/USD Purchased	09-2023	6.43	26.47	-	-
⊕ Us 5Yr Note Sep 23	-	5.15	31.62	-	-
⊕ Euro Bund Future Sept 23	09-2023	4.83	36.45	-	-
⊕ Three Month SONIA Index Future June 23	09-2023	4.76	41.21	-	-
⊖ Future on 10 Year Treasury Note	09-2023	4.12	45.34	-	-
⊕ BlackRock Liquidity T-Fund Instl	-	4.06	49.39	-	-
⊕ EUR/USD Purchased	09-2023	3.00	52.39	-	-
⊖ EUR/USD Purchased	09-2023	2.96	55.35	-	-

## Total Holdings 2577

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# BlackRock Inflation Protected Bond Instl BPRIX

**Morningstar Category**  
Inflation-Protected Bond

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

## Portfolio Manager(s)

Christopher Allen since 02-2017  
David Rogal since 03-2018

## 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 has been in place for 6.63 years.

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.56 is 9.68% lower than the Inflation-Protected Bond category average.

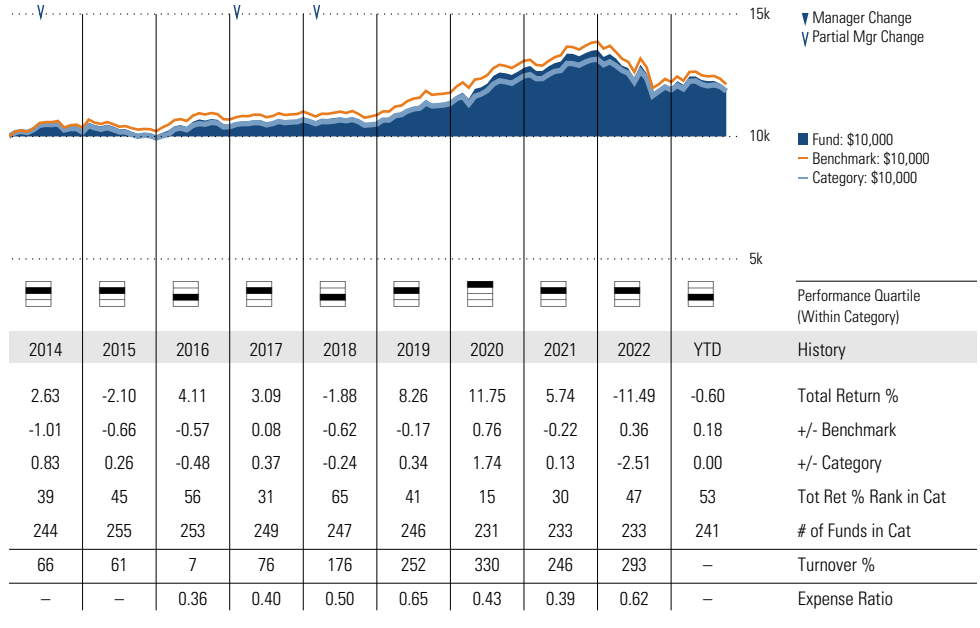
## Morningstar Investment Management LLC Analysis

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.

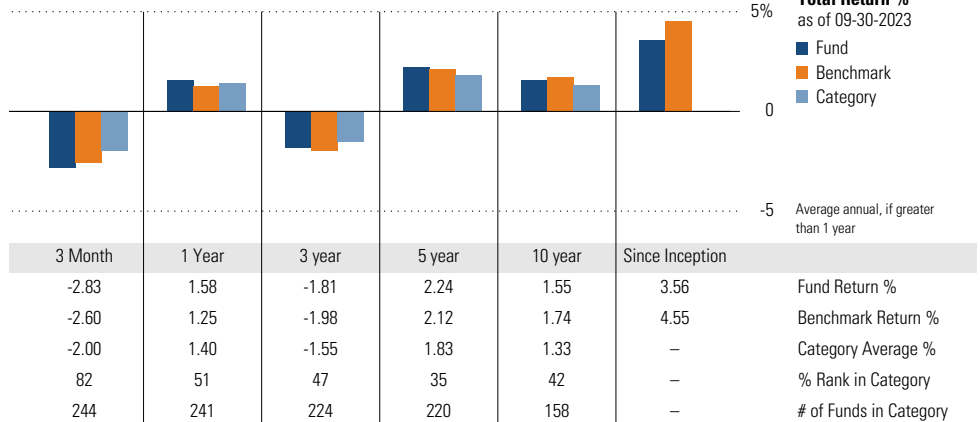
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023

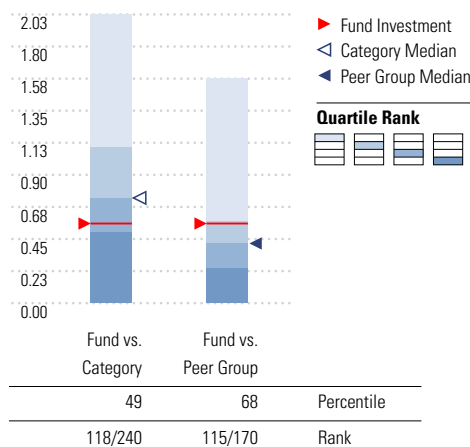
## Growth of \$10,000



## 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	0.22	-	0.39
Beta	1.02	-	0.89
R-Squared	99.25	-	93.36
Standard Deviation	7.04	6.86	6.33
Sharpe Ratio	-0.51	-0.55	-0.44
Tracking Error	0.63	-	1.95
Information Ratio	0.27	-	-0.07
Up Capture Ratio	101.36	-	90.18
Down Capture Ratio	99.35	-	86.17

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	6.93	4.52	5.88
Avg Eff Maturity	8.01	-	6.75

# BlackRock Inflation Protected Bond Instl BPRIX

**Morningstar Category**  
Inflation-Protected Bond

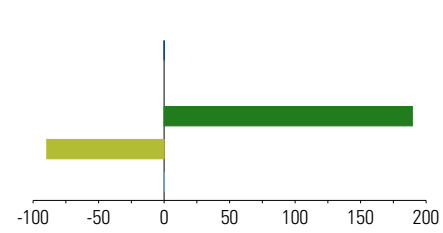
**Morningstar Index**  
Bloomberg US Treasury US TIPS TR USD

## Style Analysis as of 09-30-2023

### Style Breakdown



## Asset Allocation as of 09-30-2023

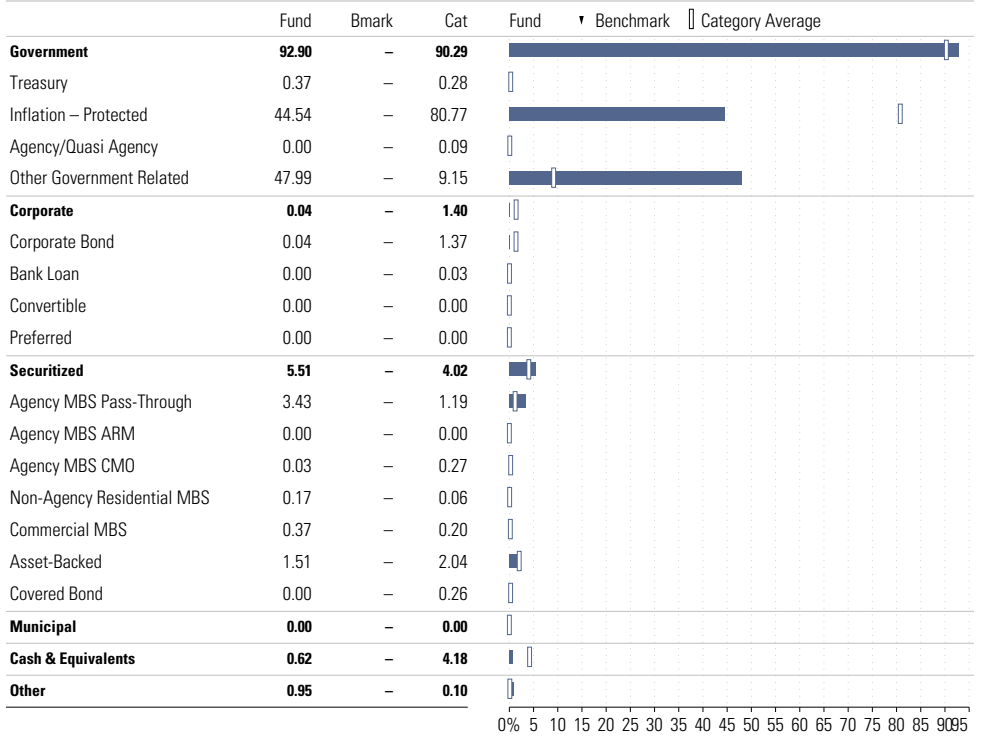


Asset Class	Net %	Cat%
US Stocks	0.14	0.11
Non-US Stocks	0.00	0.00
Bonds	189.49	99.64
Cash	-89.56	-0.10
Other	-0.09	0.36
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	96.22	0.00	88.72
AA	0.14	99.60	3.39
A	0.73	0.00	1.89
BBB	0.39	0.00	2.59
BB	0.02	0.00	1.01
B	0.05	0.00	0.58
Below B	0.02	0.00	0.20
Not Rated	2.43	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
✱ Cash Offset	-	75.35	75.35	-
⊖ Three-Month Sofr Future Mar 24	-	73.38	148.73	-
⊕ Oct23 Sfrz3 P @ 95.625	-	26.34	175.07	-
⊖ Oct23 Sfrz3 P @ 95.375	-	25.99	201.07	-
⊕ Fed Fund 30 Day Mar 24	-	19.78	220.85	-
⊖ Fed Fund 30 Day Oct 23	-	19.78	240.63	-
⊖ Oct23 Sfrz3 P @ 95.25	-	15.38	256.01	-
⊕ Oct23 Sfrz3 P @ 95	-	14.45	270.46	-
⊕ Three-Month Sofr Future Jun 24	-	10.67	281.13	-
⊖ Oct23 Sfrz3 P @ 95.125	-	9.98	291.11	-

**Total Holdings 303**

⊕ Increase ⊖ Decrease ✱ New to Portfolio

# Eaton Vance Income Fund of Boston I EIBIX

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

✔ **Management:** The fund's management has been in place for 8.91 years.

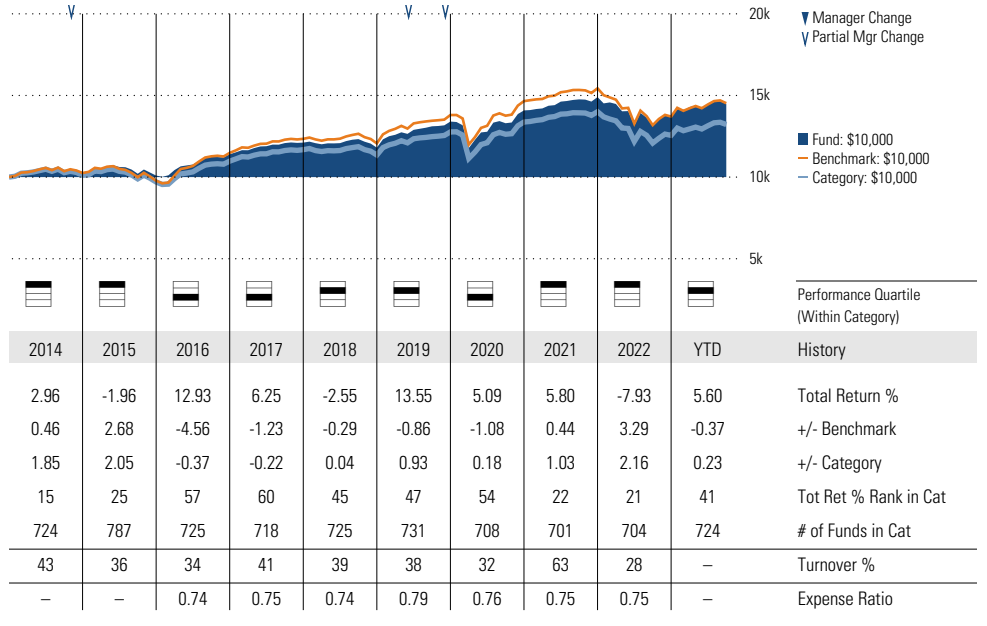
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.75 is 15.73% lower than the High Yield Bond category average.

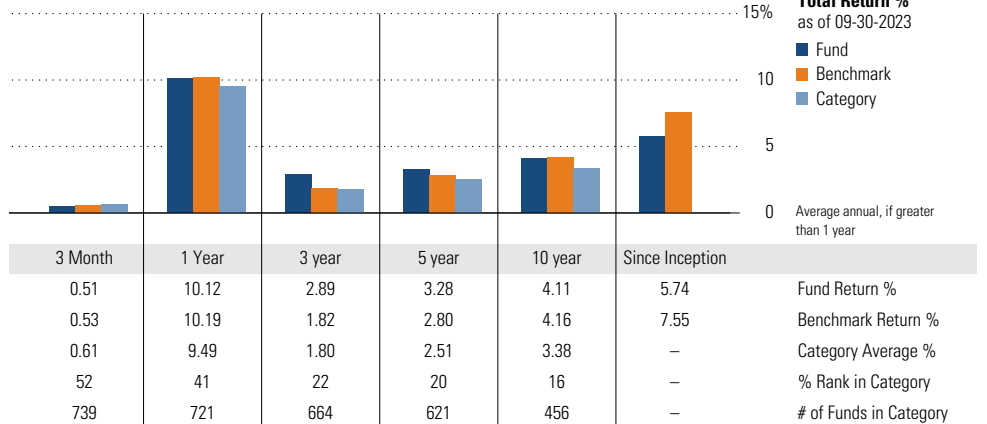
## Morningstar Investment Management LLC Analysis

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.

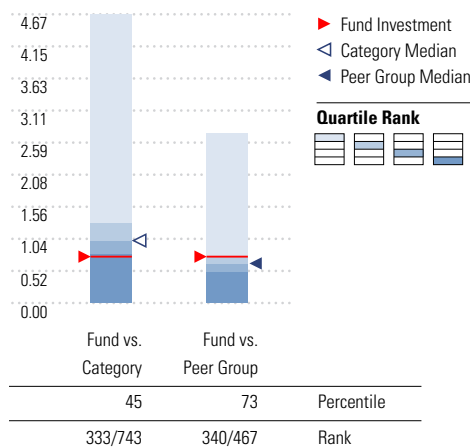
## Growth of \$10,000



## 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	1.17	-	0.09
Beta	0.93	-	0.90
R-Squared	98.24	-	93.92
Standard Deviation	7.60	8.13	7.53
Sharpe Ratio	0.15	0.01	0.01
Tracking Error	1.17	-	1.89
Information Ratio	0.92	-	-0.23
Up Capture Ratio	97.94	-	90.23
Down Capture Ratio	86.13	-	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 I EIBIX

**Morningstar Category**  
High Yield Bond

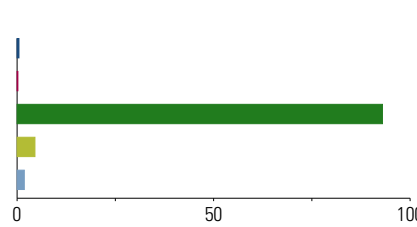
**Morningstar Index**  
ICE BofA US High Yield TR USD

## Style Analysis as of 09-30-2023

### Style Breakdown



## Asset Allocation as of 09-30-2023

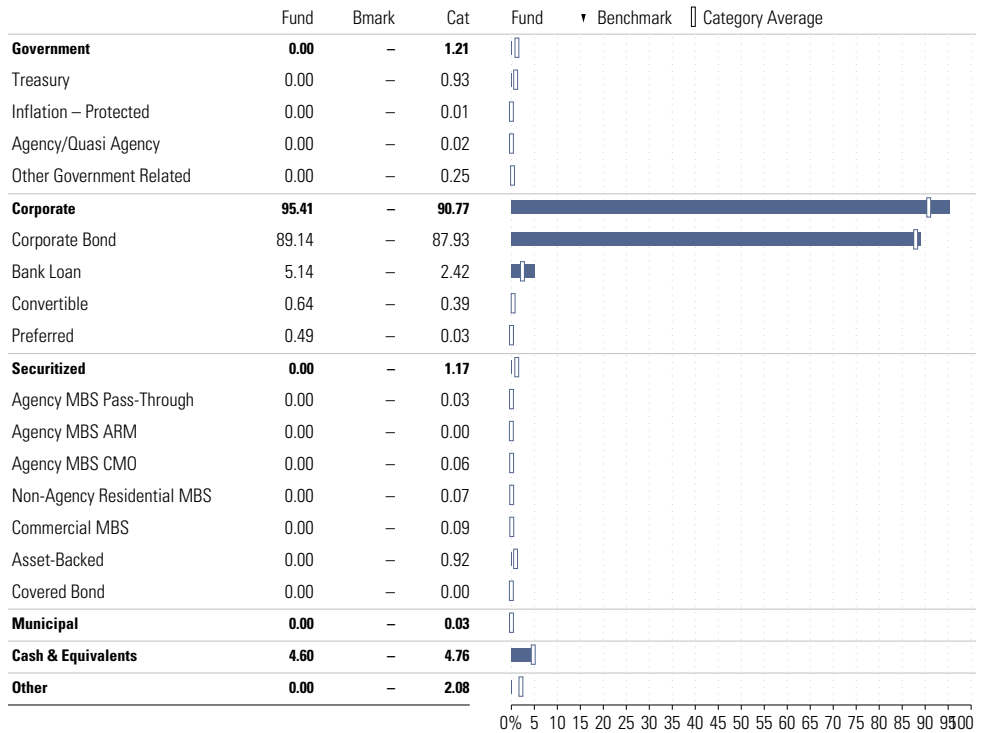


Asset Class	Net %	Cat%
US Stocks	0.47	0.60
Non-US Stocks	0.20	0.13
Bonds	92.96	94.59
Cash	4.54	3.17
Other	1.83	1.50
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

### 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 IS FGUSX

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

✔ **Management:** The fund's management has been in place for 26.24 years.

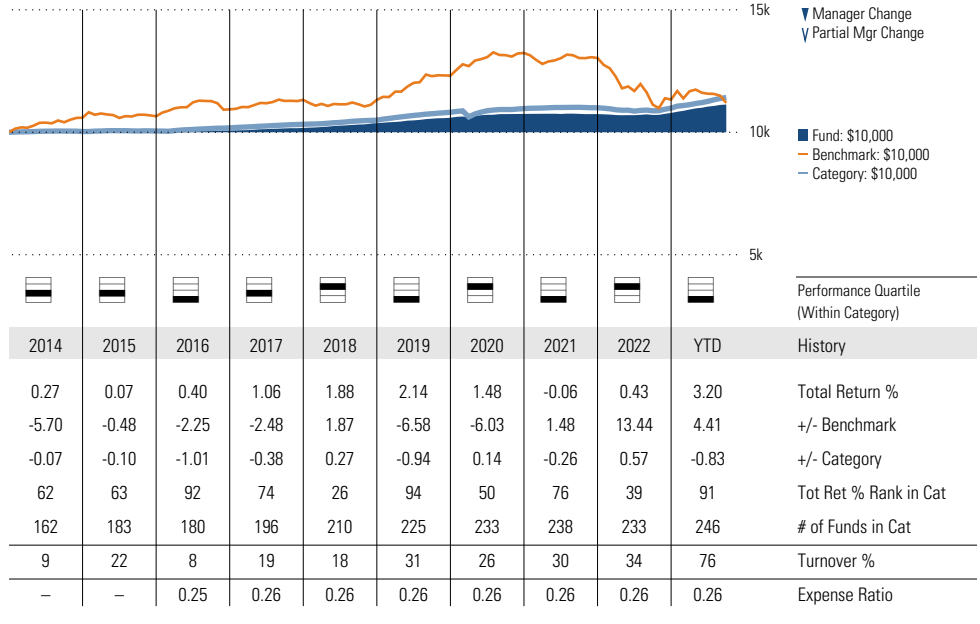
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.26 is 38.1% lower than the Ultrashort Bond category average.

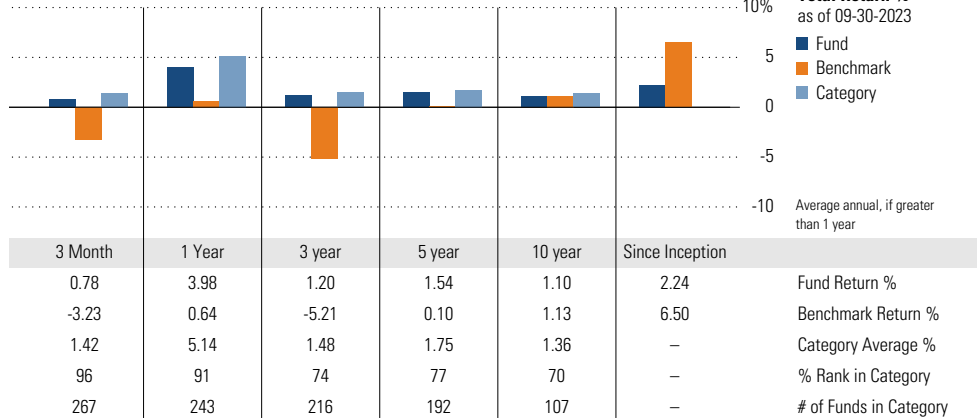
## Morningstar Investment Management LLC Analysis

This fund fails our performance consistency screen. Its relative performance versus typical peers in the ultrashort bond category has struggled, partly due to its strict adherence to investing in government securities, which have lagged credit instruments.

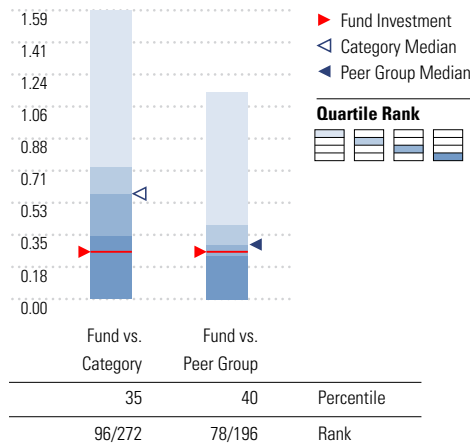
## Growth of \$10,000



## Trailing Performance



## Net Expense



## 3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	1.46	-	1.85
Beta	0.05	-	0.08
R-Squared	22.06	-	21.31
Standard Deviation	0.67	6.20	1.08
Sharpe Ratio	-2.00	-1.16	-0.98
Tracking Error	5.92	-	5.82
Information Ratio	1.08	-	1.15
Up Capture Ratio	11.65	-	15.49
Down Capture Ratio	-4.76	-	-5.01

## Portfolio Metrics

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

# Federated Hermes Govt Ultrashort IS FGUSX

**Morningstar Category**  
Ultrashort Bond

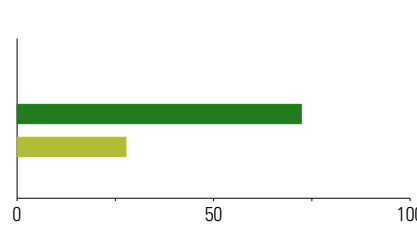
**Morningstar Index**  
Bloomberg US Agg Bond TR USD

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

**Style Breakdown**



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

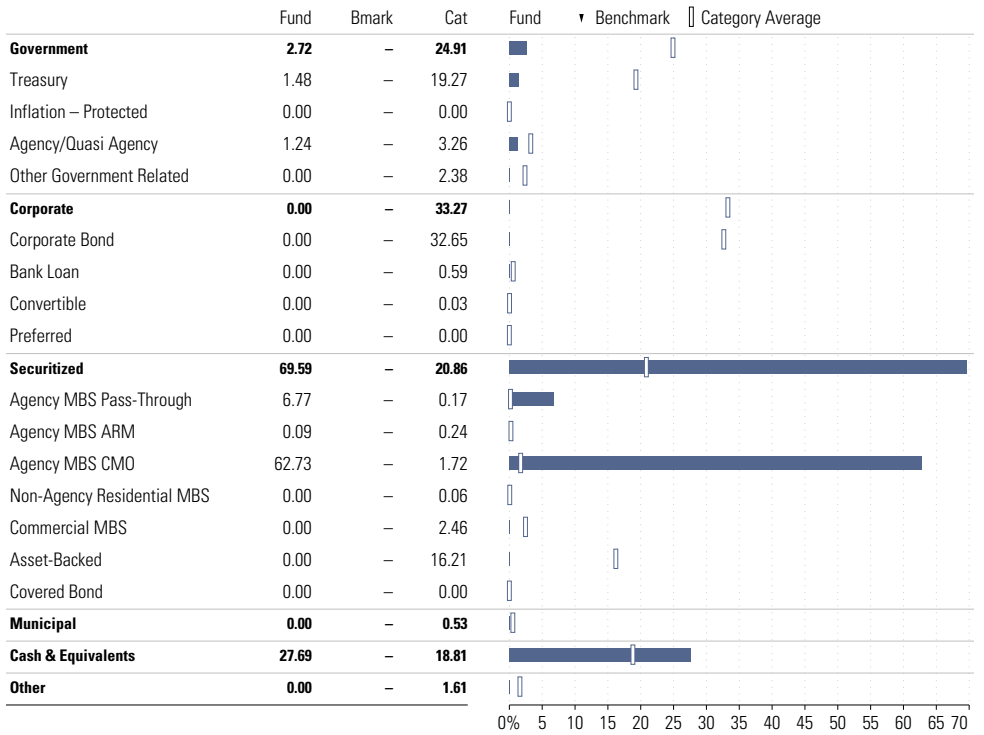


Asset Class	Net %	Cat%
US Stocks	0.00	0.10
Non-US Stocks	0.00	0.00
Bonds	72.31	71.51
Cash	27.69	28.31
Other	0.00	0.10
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**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
⊕ Hsbc Repo 2 Repo	07-2023	13.42	13.42	-
⊕ Bank Of Montreal 4 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

# JPMorgan Large Cap Growth R6 JLGMX

**Morningstar Category**  
Large Growth

**Morningstar Index**  
Russell 1000 Growth TR USD

## Portfolio Manager(s)

Giri Devulapally since 08-2004  
Holly Fleiss since 11-2020  
Joseph Wilson since 11-2020  
Larry Lee since 11-2020  
Robert Maloney since 11-2022

## Quantitative Screens

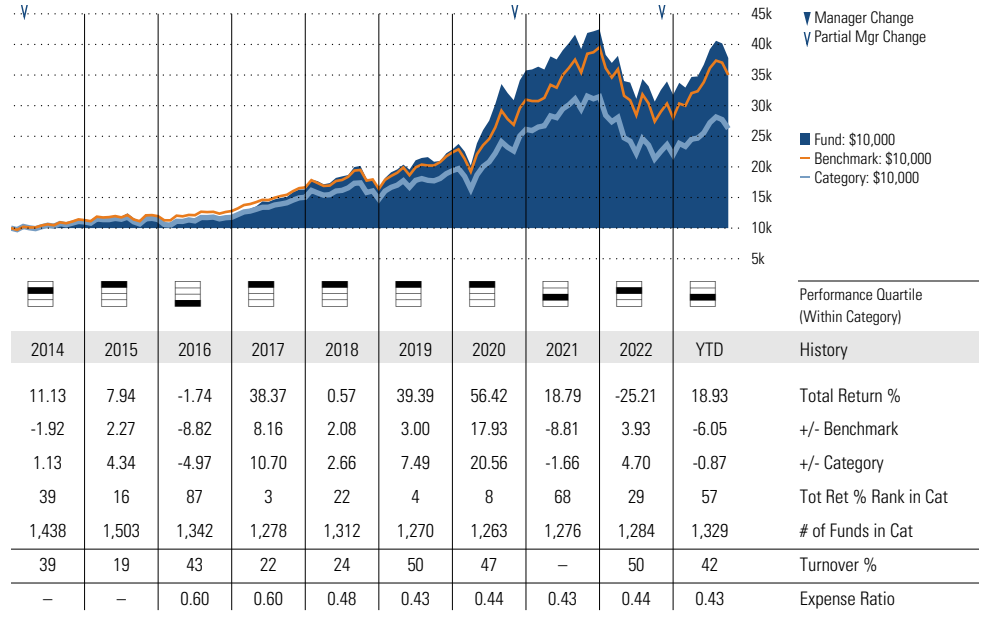
✔ **Performance:** The fund has finished in the Large Growth category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 19.17 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.44 is 53.19% lower than the Large Growth category average.

## Growth of \$10,000



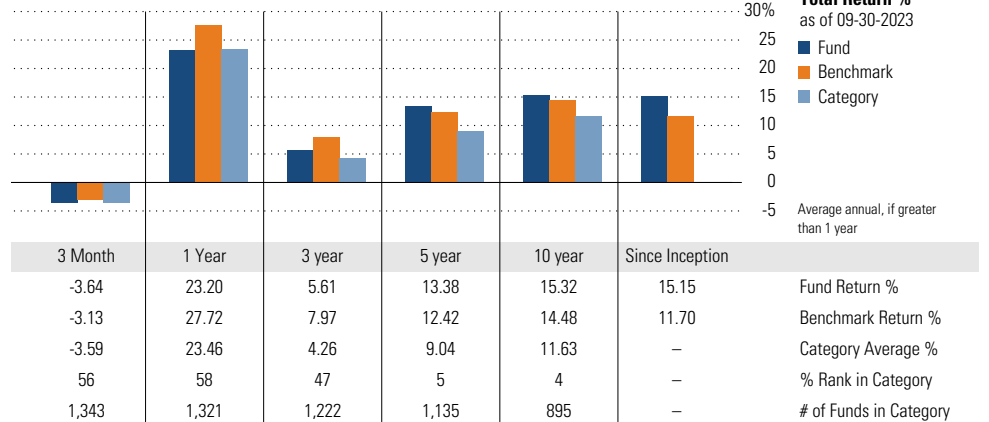
## Morningstar Investment Management LLC Analysis

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.

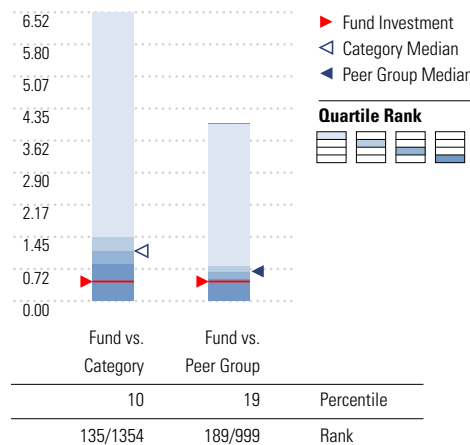
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	2-Basic	04-07-2022

## 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

Metric	Fund	Bmark	Cat
Alpha	-1.58	-	-3.72
Beta	0.90	-	0.97
R-Squared	96.51	-	91.78
Standard Deviation	19.05	20.81	21.20
Sharpe Ratio	0.27	0.37	0.20
Tracking Error	4.13	-	6.04
Information Ratio	-0.57	-	-0.75
Up Capture Ratio	85.43	-	87.74
Down Capture Ratio	90.23	-	100.10

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	33.23	32.24	30.95
Price/Book Ratio	9.41	10.54	7.97
Geom Avg Mkt Cap \$B	357.53	399.08	418.79
ROE	28.87	39.31	33.78

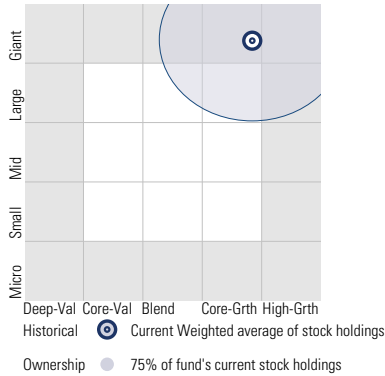
# JPMorgan Large Cap Growth R6 JLGMX

**Morningstar Category**  
Large Growth

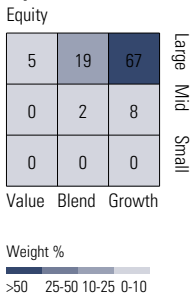
**Morningstar Index**  
Russell 1000 Growth TR USD

## Style Analysis as of 09-30-2023

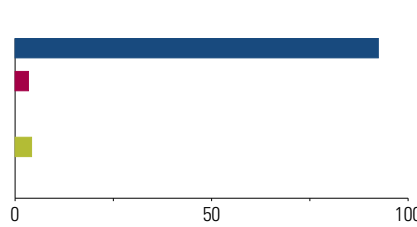
Morningstar Style Box™



## Style Breakdown

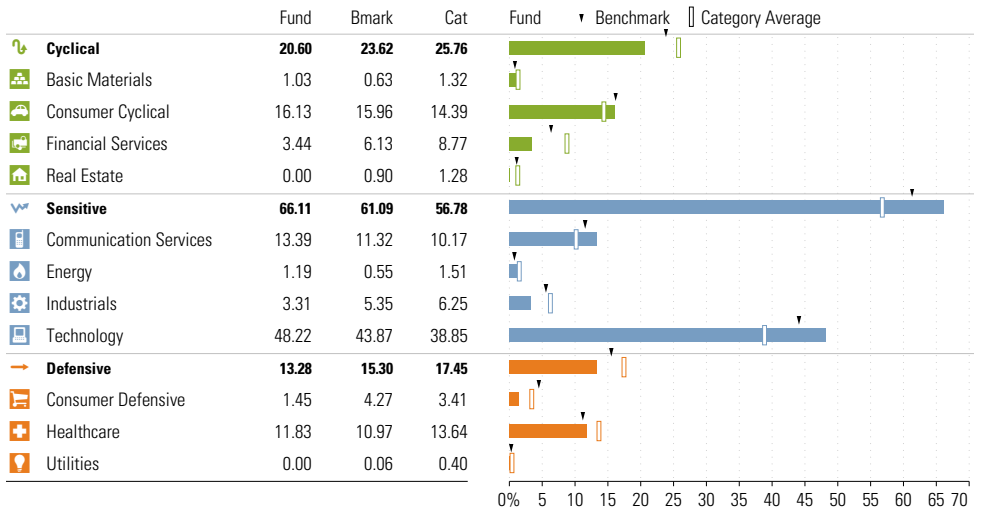


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	92.42	93.10
Non-US Stocks	3.39	4.78
Bonds	0.00	0.00
Cash	4.19	1.11
Other	0.00	0.99
<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
Microsoft Corp	10.49	10.49	32.51	Technology
Apple Inc	10.21	20.70	32.32	Technology
NVIDIA Corp	5.51	26.21	197.74	Technology
⊕ Alphabet Inc Class C	5.06	31.27	48.60	Communication Svc
⊕ Amazon.com Inc	4.95	36.22	51.33	Consumer Cyclical
⊕ Meta Platforms Inc Class A	4.87	41.08	149.47	Communication Svc
⊕ JPMorgan Prime Money Market Inst	4.19	45.27	—	—
Netflix Inc	2.57	47.84	28.05	Communication Svc
⊕ Tesla Inc	2.51	50.35	103.13	Consumer Cyclical
⊕ Uber Technologies Inc	1.87	52.22	85.97	Technology
⊕ Regeneron Pharmaceuticals Inc	1.82	54.04	14.06	Healthcare
Oracle Corp	1.81	55.85	30.95	Technology
Lowe's Companies Inc	1.76	57.62	5.92	Consumer Cyclical
Eli Lilly and Co	1.75	59.37	47.75	Healthcare
⊕ Salesforce Inc	1.75	61.11	52.94	Technology

**Total Holdings 70**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# JPMorgan US Equity R6 JUEMX

**Morningstar Category**  
Large Blend

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

## Portfolio Manager(s)

Scott Davis since 08-2014  
David Small since 07-2016  
Shilpee Raina since 11-2021

## 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 9.12 years.

✔ **Style:** The fund has landed in its primary style box — Large Blend — 70 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.44 is 41.33% lower than the Large Blend category average.

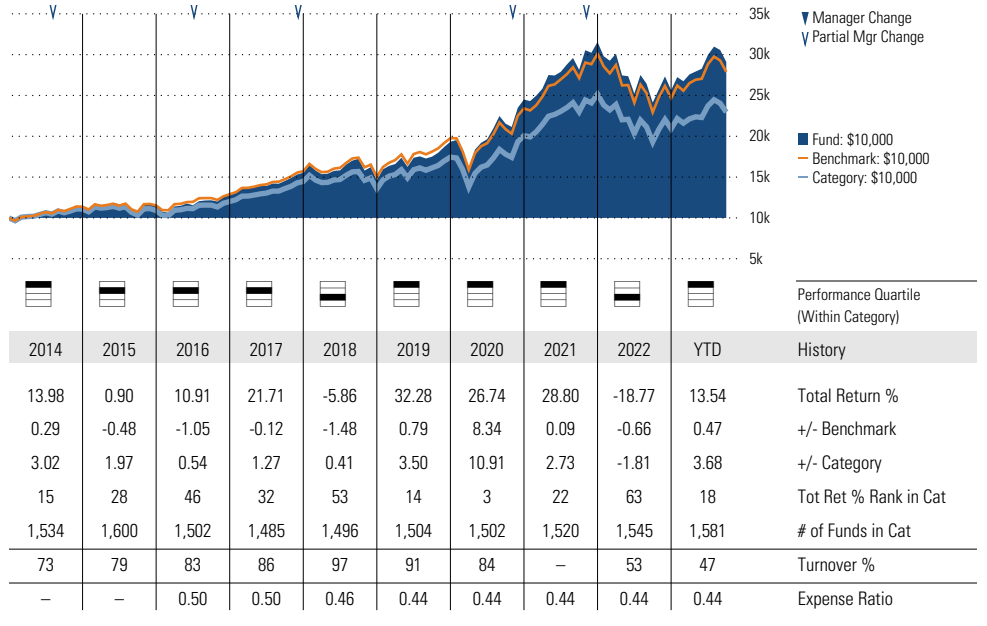
## Morningstar Investment Management LLC Analysis

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.

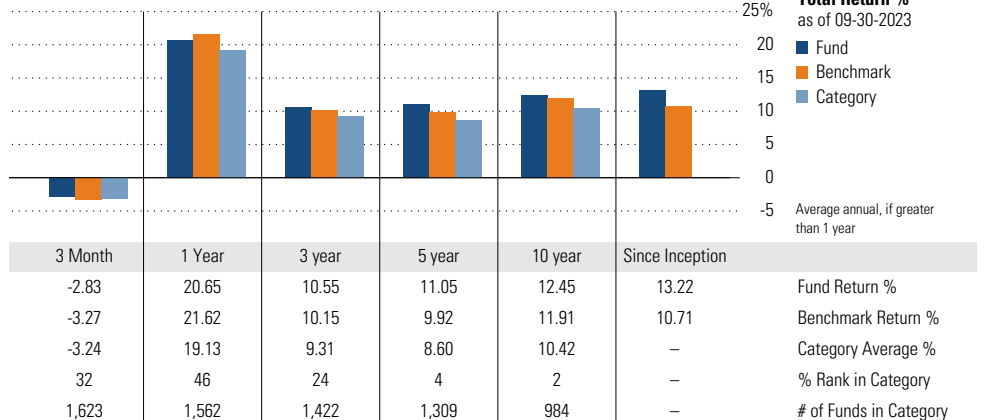
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	08-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	2-Basic	03-11-2022

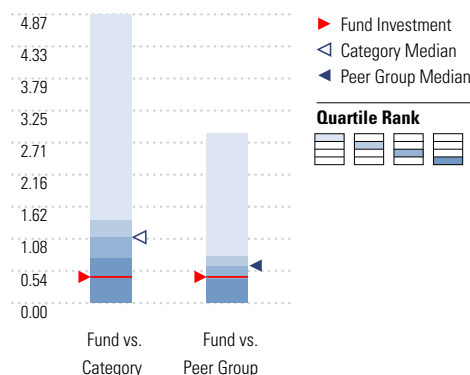
## Growth of \$10,000



## 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	0.50	-	-0.66
Beta	0.99	-	0.95
R-Squared	98.32	-	94.61
Standard Deviation	17.75	17.85	17.40
Sharpe Ratio	0.54	0.52	0.45
Tracking Error	2.31	-	3.74
Information Ratio	0.17	-	-1.15
Up Capture Ratio	98.35	-	93.16
Down Capture Ratio	96.02	-	95.77

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	23.74	22.40	22.25
Price/Book Ratio	4.72	3.98	4.46
Geom Avg Mkt Cap \$B	258.83	228.69	275.77
ROE	28.45	30.76	29.52

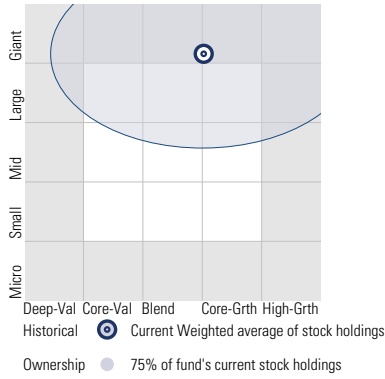
# JPMorgan US Equity R6 JUEMX

**Morningstar Category**  
Large Blend

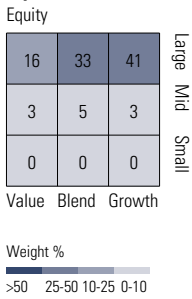
**Morningstar Index**  
S&P 500 TR USD

## Style Analysis as of 09-30-2023

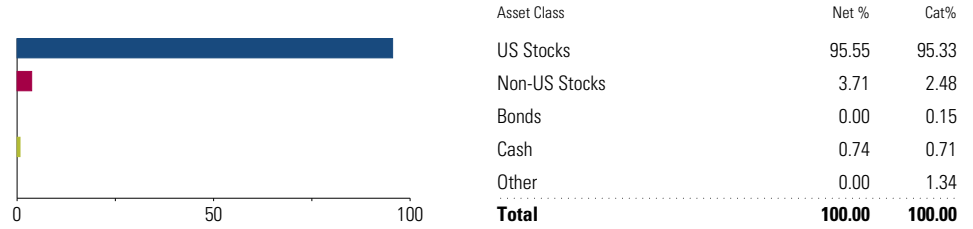
Morningstar Style Box™



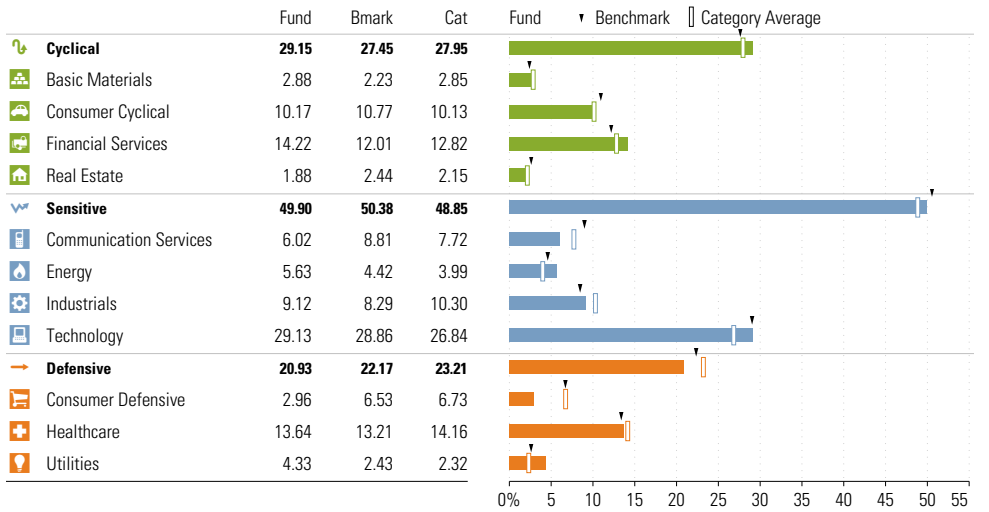
## Style Breakdown



## 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	9.31	9.31	32.51	Technology
⊕ Apple Inc	6.04	15.35	32.32	Technology
⊖ NVIDIA Corp	4.00	19.35	197.74	Technology
⊖ Amazon.com Inc	3.65	23.00	51.33	Consumer Cyclical
⊕ AbbVie Inc	3.28	26.28	-5.02	Healthcare
⊕ Alphabet Inc Class A	3.22	29.50	48.32	Communication Svc
⊖ UnitedHealth Group Inc	3.22	32.72	-3.88	Healthcare
⊖ NXP Semiconductors NV	3.10	35.83	28.43	Technology
⊕ NextEra Energy Inc	2.70	38.53	-29.79	Utilities
⊕ Mastercard Inc Class A	2.67	41.20	14.35	Financial Services
⊕ Lowe's Companies Inc	2.51	43.70	5.92	Consumer Cyclical
⊕ Eaton Corp PLC	2.48	46.18	37.53	Industrials
⊖ Meta Platforms Inc Class A	2.45	48.62	149.47	Communication Svc
⊖ Baker Hughes Co Class A	2.38	51.01	21.57	Energy
⊖ Deere & Co	2.32	53.32	-11.09	Industrials

**Total Holdings 52**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# MFS International Growth R6 MGRDX

**Morningstar Category**  
Foreign Large Growth

**Morningstar Index**  
MSCI EAFE NR USD

## Portfolio Manager(s)

Kevin Dwan since 01-2012

Matthew Barrett since 03-2015

## Quantitative Screens

✔ **Performance:** The fund has finished in the Foreign Large Growth 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 11.75 years.

✔ **Style:** The fund has landed in its primary style box — Large Growth — 77.42 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.71 is 31.07% lower than the Foreign Large Growth category average.

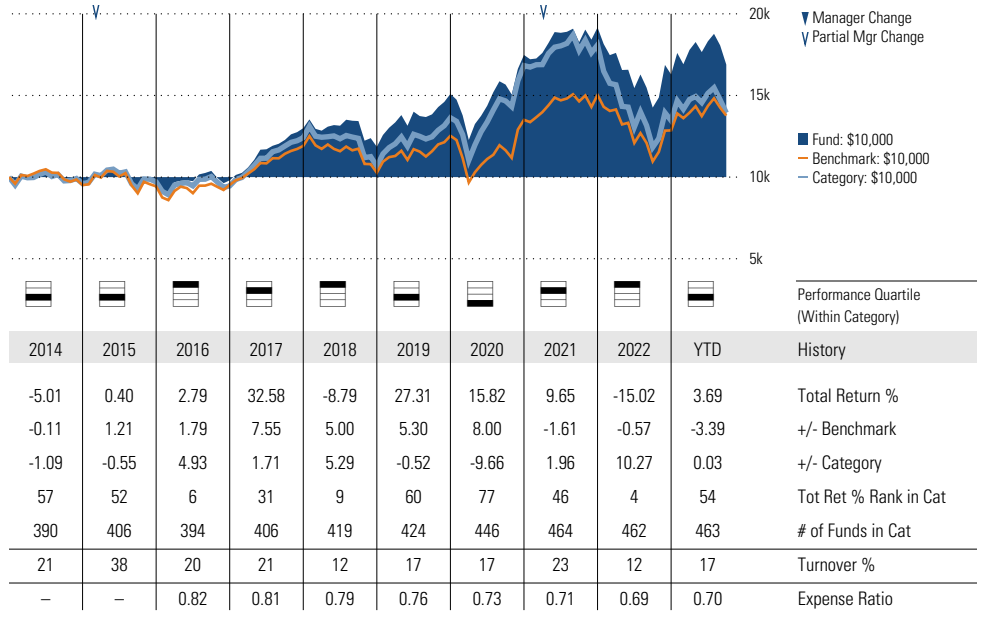
## Morningstar Investment Management LLC Analysis

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.

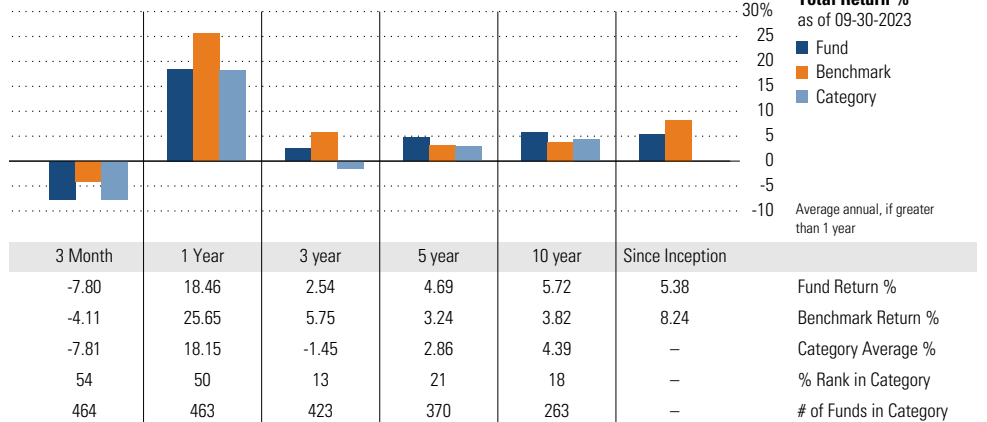
## ESG Metrics

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

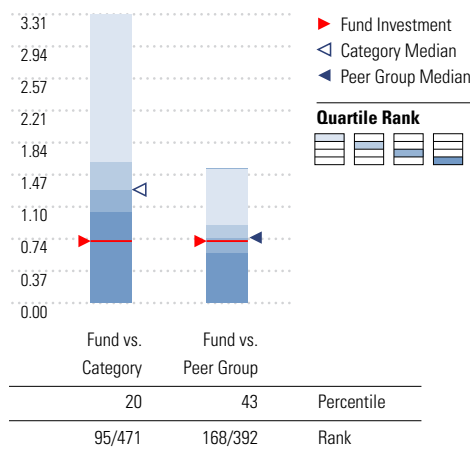
## Growth of \$10,000



## 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	-2.61	-	-7.10
Beta	0.92	-	1.00
R-Squared	90.55	-	85.01
Standard Deviation	17.53	18.23	19.94
Sharpe Ratio	0.11	0.28	-0.08
Tracking Error	5.60	-	7.79
Information Ratio	-0.57	-	-0.96
Up Capture Ratio	90.43	-	87.36
Down Capture Ratio	102.26	-	117.78

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	22.28	13.87	22.08
Price/Book Ratio	3.02	1.69	3.45
Geom Avg Mkt Cap \$B	62.82	47.39	61.22
ROE	18.01	18.84	22.50

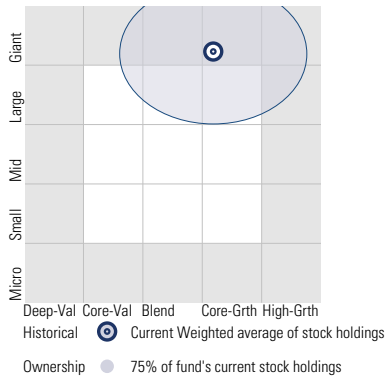
# MFS International Growth R6 MGRDX

**Morningstar Category**  
Foreign Large Growth

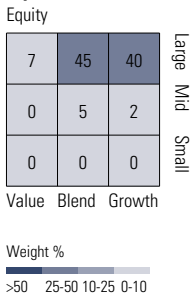
**Morningstar Index**  
MSCI EAFE NR USD

## Style Analysis as of 09-30-2023

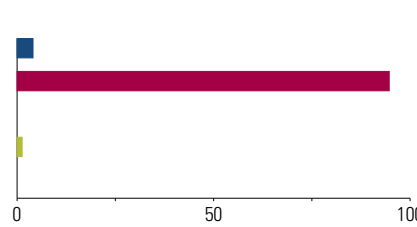
Morningstar Style Box™



## Style Breakdown

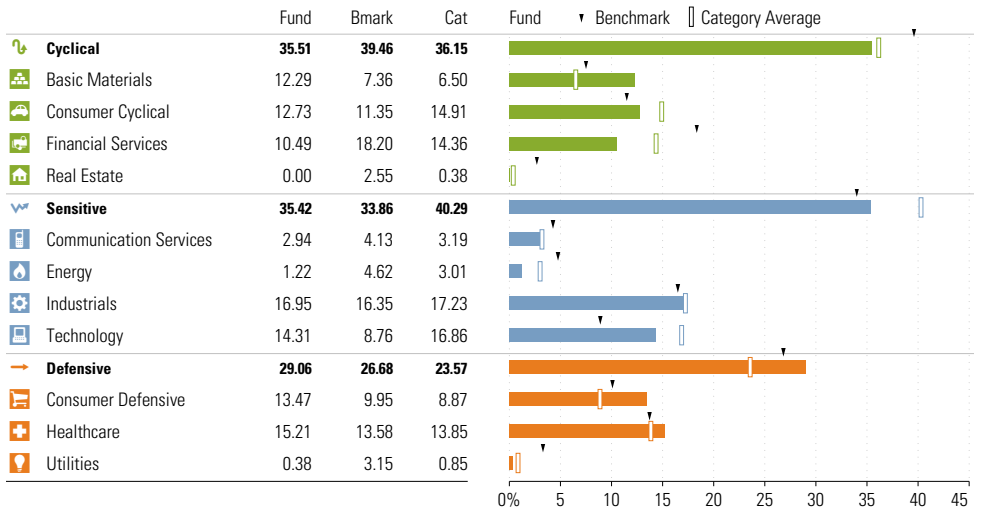


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	4.05	7.23
Non-US Stocks	94.68	89.86
Bonds	0.00	0.04
Cash	1.27	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



## World Regions % Equity 09-30-2023



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	30.17	27.04	Americas	12.28	14.91	Greater Europe	57.55	58.05	Developed Markets	89.14
Japan	9.56	11.60	North America	9.90	12.77	United Kingdom	9.88	12.35	Emerging Markets	10.86
Australasia	1.18	1.55	Central/Latin	2.38	2.14	W euro-ex UK	47.19	45.17	Not Available	0.00
Asia-4 Tigers	10.95	6.63				Emrgng Europe	0.00	0.04		
Asia-ex 4 Tigers	8.48	7.26				Africa	0.48	0.49		
Not Classified	0.00	0.00								

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

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Roche Holding AG	4.14	4.14	-	Healthcare
⊕ Nestle SA	4.12	8.26	-	Consumer Defensive
⊕ SAP SE	4.07	12.34	-	Technology
⊕ LVMH Moet Hennessy Louis Vuitton SE	3.78	16.11	-	Consumer Cyclical
⊖ Hitachi Ltd	3.57	19.69	-	Industrials
⊕ Schneider Electric SE	3.38	23.07	-	Industrials
⊕ Taiwan Semiconductor Manufacturing Co Ltd ADR	3.20	26.26	18.48	Technology
⊕ Linde PLC	3.01	29.27	15.33	Basic Materials
⊕ AIA Group Ltd	2.46	31.73	-	Financial Services
⊕ Amadeus IT Group SA	2.19	33.92	-	Consumer Cyclical

**Total Holdings 93**

⊕ 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.

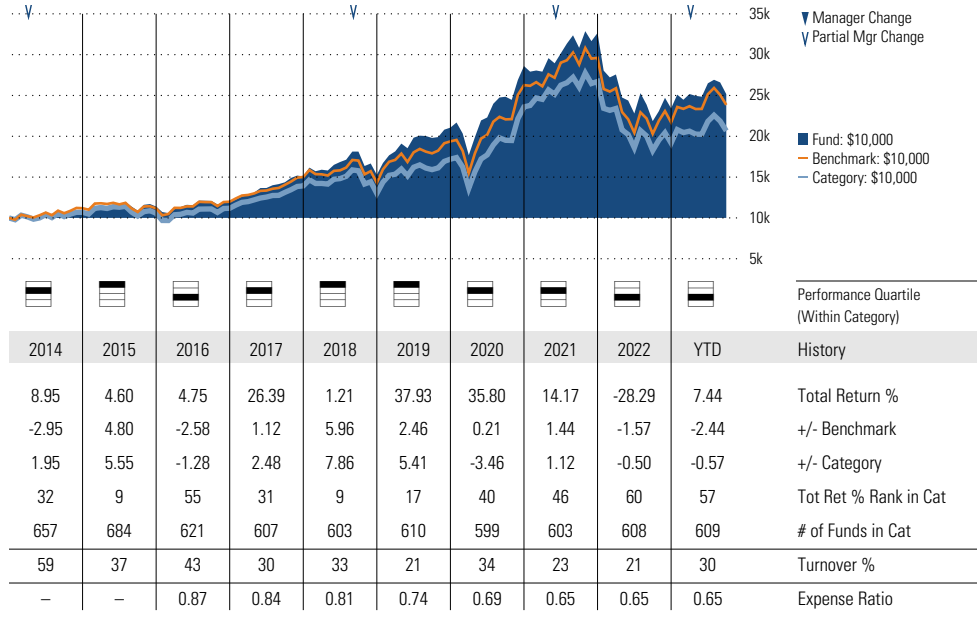
## Morningstar Investment Management LLC Analysis

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.

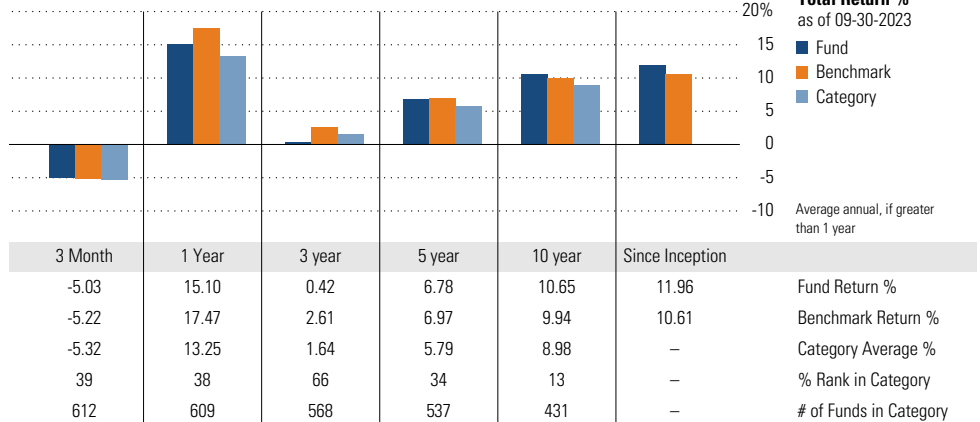
## ESG Metrics

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

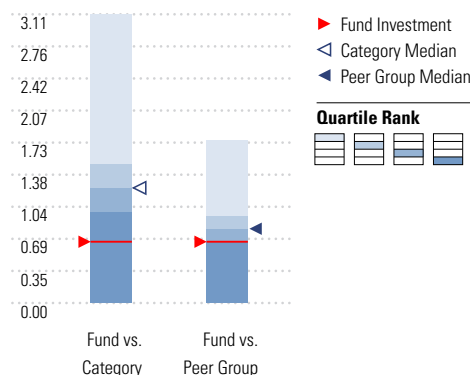
## Growth of \$10,000



## 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

	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

	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

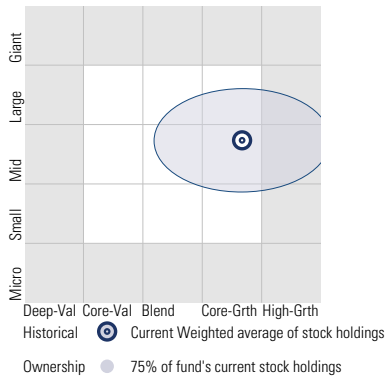
Mid-Cap Growth

Morningstar Index

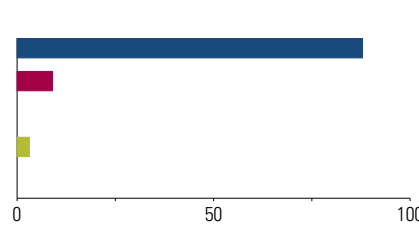
Russell Mid Cap Growth TR USD

## Style Analysis as of 09-30-2023

Morningstar Style Box™

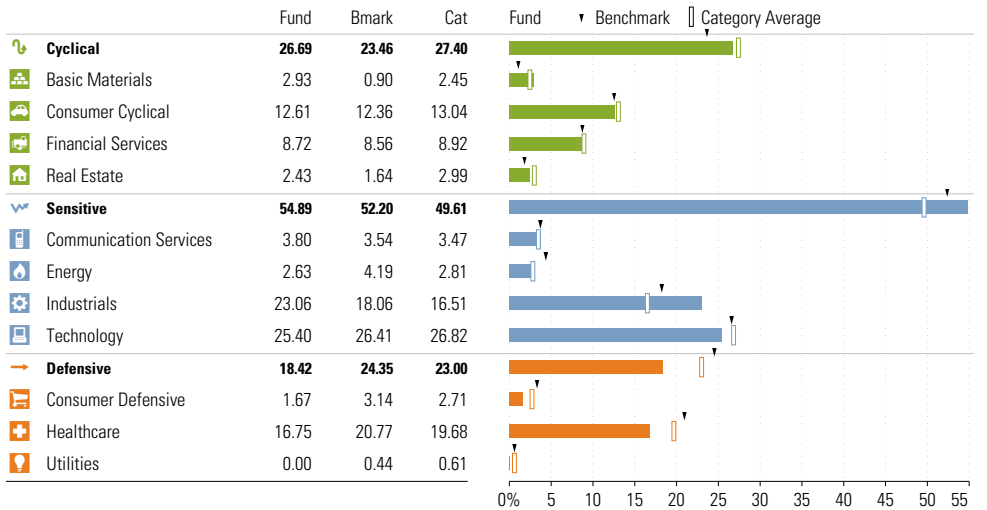


## Asset Allocation as of 09-30-2023

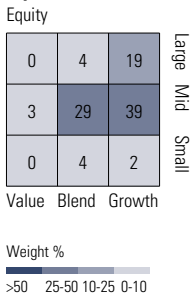


Asset Class	Net %	Cat%
US Stocks	87.89	93.49
Non-US Stocks	8.99	4.04
Bonds	0.00	0.11
Cash	3.12	1.74
Other	0.00	0.64
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## 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

# PIMCO Commodity Real Return Strat I2 PCRPX

**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 1.09 is 3.81% higher than the Commodities Broad Basket category average.

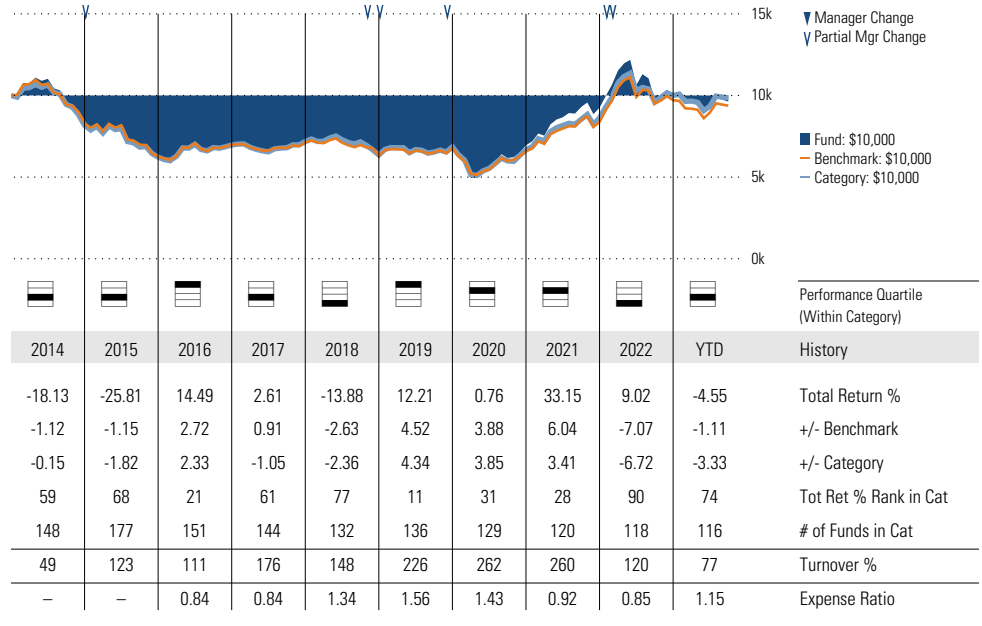
## Morningstar Investment Management LLC Analysis

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.

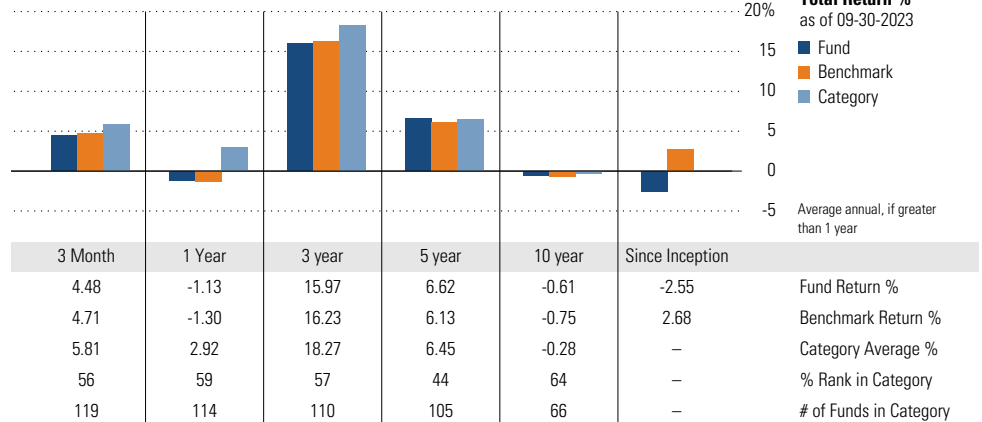
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	06-30-2023

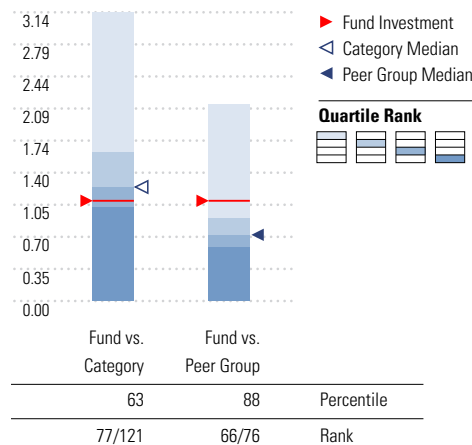
## Growth of \$10,000



## 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	-1.84	-	1.67
Beta	1.12	-	0.99
R-Squared	96.43	-	87.55
Standard Deviation	18.28	15.98	16.87
Sharpe Ratio	0.79	0.89	0.92
Tracking Error	3.98	-	5.47
Information Ratio	-0.07	-	0.11
Up Capture Ratio	107.41	-	101.07
Down Capture Ratio	115.53	-	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 Return Strat I2 PCRPX

**Morningstar Category**  
Commodities Broad Basket

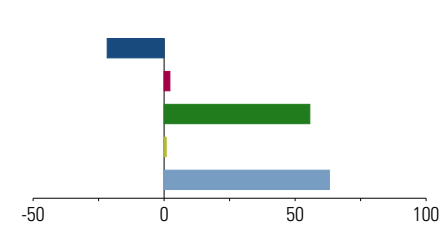
**Morningstar Index**  
Bloomberg Commodity TR USD

## Style Analysis as of 09-30-2023

Morningstar Style Box™

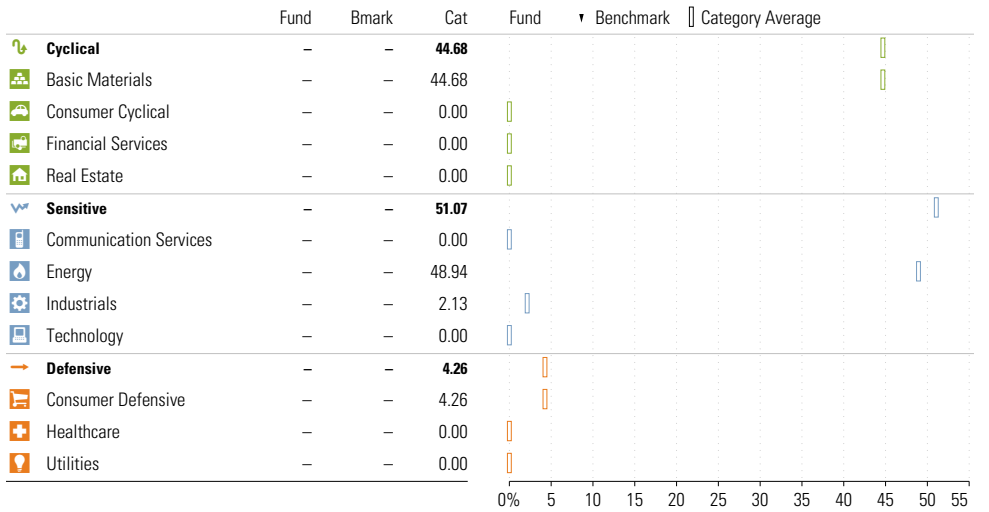


## Asset Allocation as of 09-30-2023

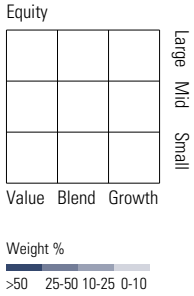


Asset Class	Net %	Cat%
US Stocks	-21.73	0.71
Non-US Stocks	2.21	0.76
Bonds	55.62	37.34
Cash	0.80	45.59
Other	63.09	15.59
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## 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 Purchased	9.56	114.86	-	-
⊖ EUROPEAN MONETARY UNION EURO Sold	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 I2 PONPX

**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 0.72 is 26.53% lower than the Multisector Bond category average.

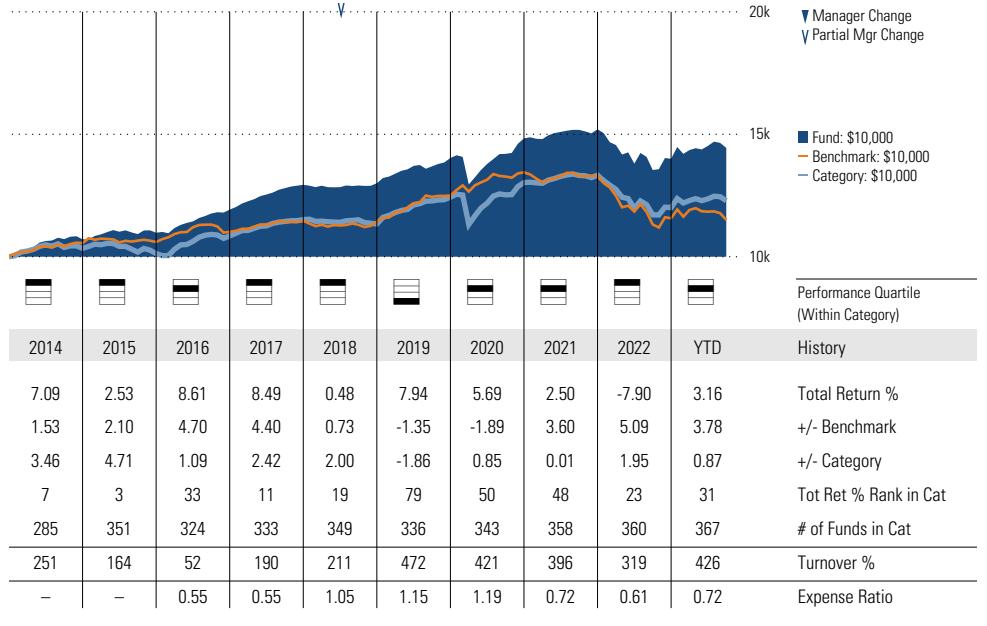
## Morningstar Investment Management LLC Analysis

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.

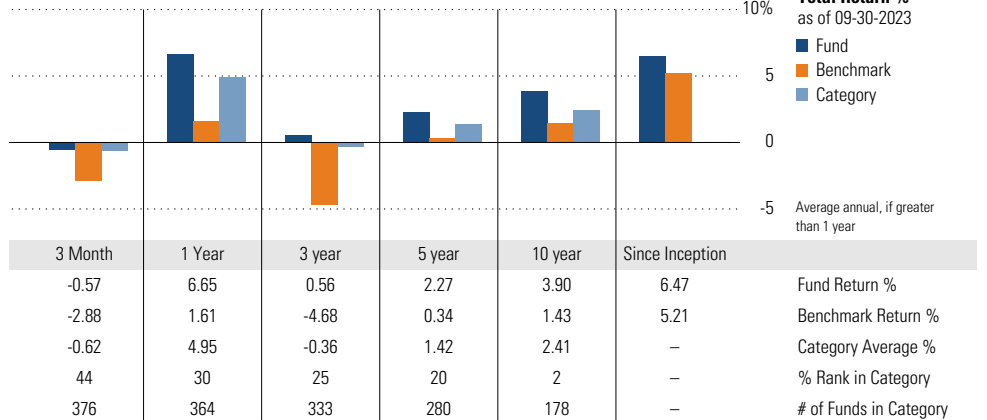
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	08-31-2023

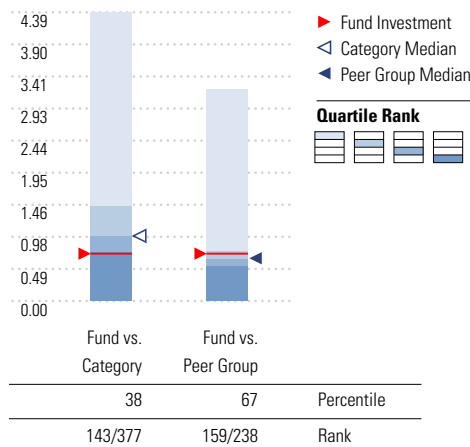
## Growth of \$10,000



## Trailing Performance



## Net Expense



## 3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	4.57	-	3.21
Beta	0.84	-	0.78
R-Squared	80.17	-	68.44
Standard Deviation	5.77	6.17	5.81
Sharpe Ratio	-0.23	-1.08	-0.40
Tracking Error	2.76	-	3.69
Information Ratio	1.90	-	1.16
Up Capture Ratio	109.14	-	92.20
Down Capture Ratio	54.75	-	55.86

## Portfolio Metrics

	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.

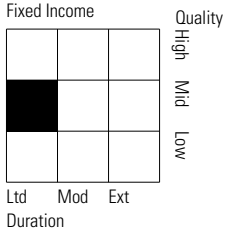
# PIMCO Income I2 PONPX

**Morningstar Category**  
Multisector Bond

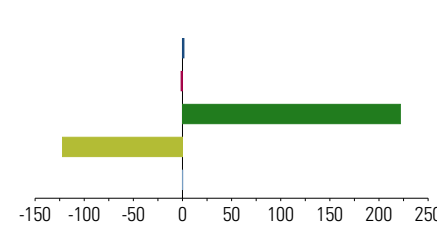
**Morningstar Index**  
Bloomberg US Universal TR USD

## Style Analysis as of 09-30-2023

### Style Breakdown



## Asset Allocation as of 09-30-2023

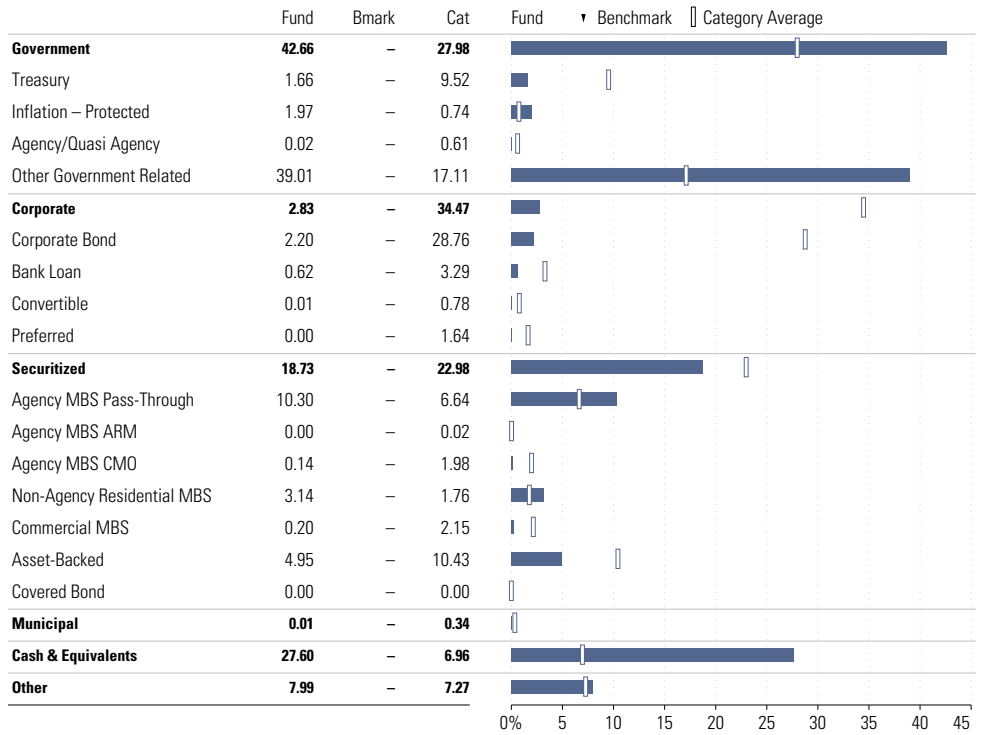


Asset Class	Net %	Cat%
US Stocks	1.48	1.20
Non-US Stocks	-1.39	0.16
Bonds	221.73	89.79
Cash	-122.08	6.58
Other	0.26	2.27
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## 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+26.161/0.00 11/04/22-1Y* LCH Pay	08-2023	12.63	207.42	-
⊕ IRSF USD 0.00000 11/04/22-1Y* (WHT) LCH Pay	08-2023	12.63	220.06	-

**Total Holdings 8508**

⊕ Increase ⊖ Decrease ✳ New to Portfolio

# PIMCO International Bond (USD-Hdg) I-2 PFBPX

**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 9 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 0.73 is 1.35% lower than the Global Bond-USD Hedged category average.

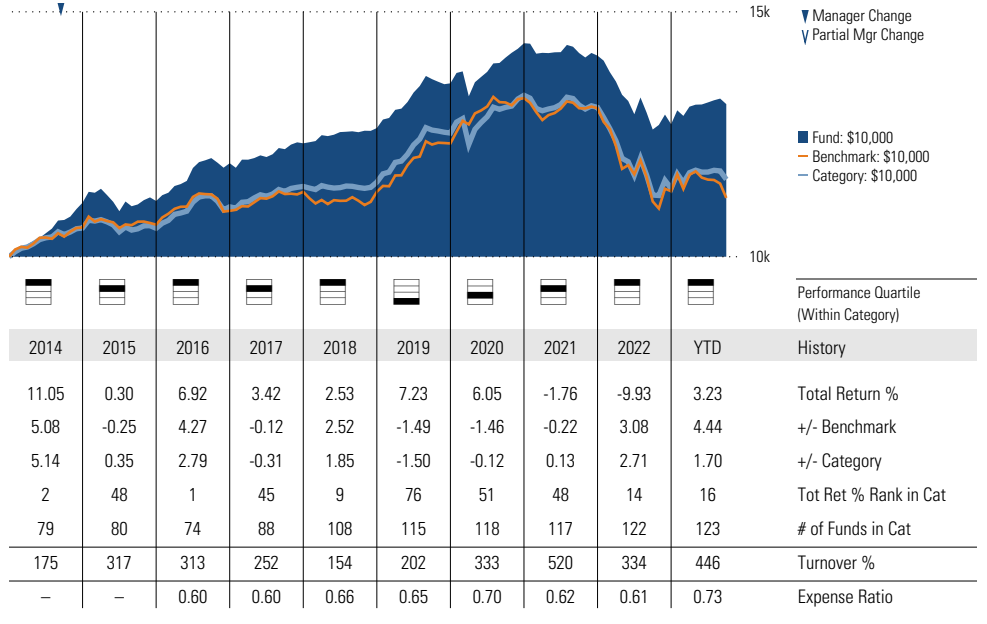
## Morningstar Investment Management LLC Analysis

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.

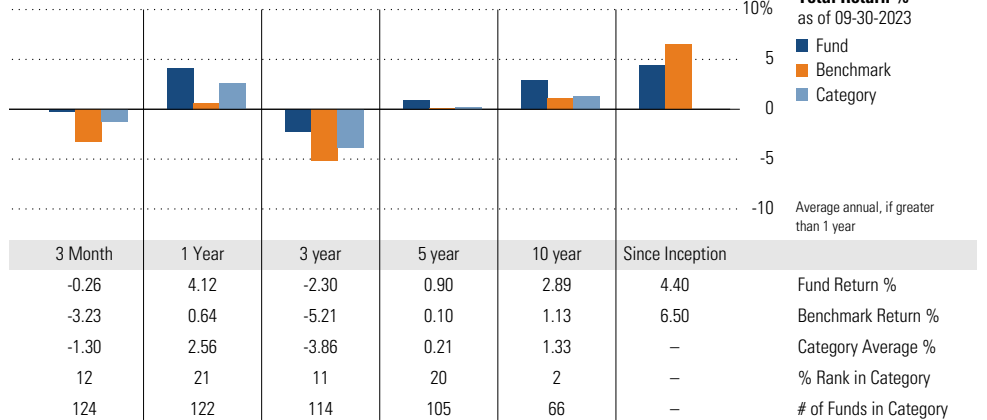
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	08-31-2023

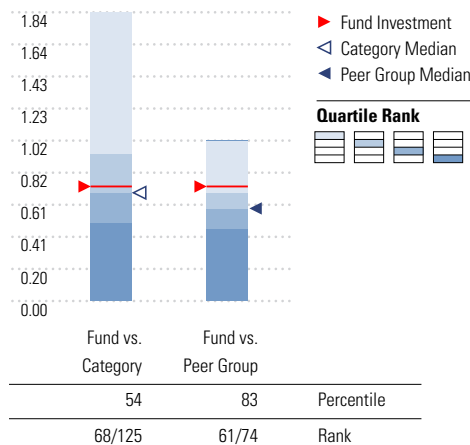
## Growth of \$10,000



## 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	0.72	-	0.33
Beta	0.58	-	0.82
R-Squared	69.07	-	79.52
Standard Deviation	4.30	6.20	5.70
Sharpe Ratio	-1.01	-1.16	-1.06
Tracking Error	3.55	-	3.02
Information Ratio	0.82	-	0.44
Up Capture Ratio	60.79	-	85.16
Down Capture Ratio	52.75	-	80.82

## Portfolio Metrics

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

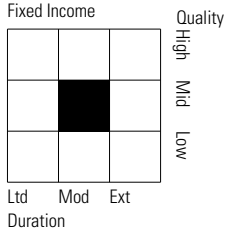
# PIMCO International Bond (USD-Hdg) I-2 PFBPX

**Morningstar Category**  
Global Bond-USD Hedged

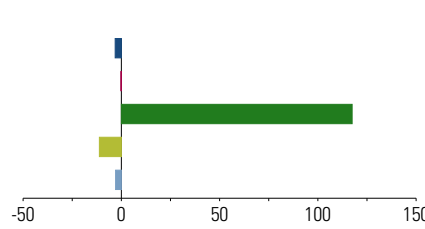
**Morningstar Index**  
Bloomberg US Agg Bond TR USD

## 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

	Fund	Bmark	Cat	Fund	Benchmark	Category Average
<b>Government</b>	<b>43.16</b>	-	<b>53.85</b>			
Treasury	8.78	-	37.79			
Inflation – Protected	0.99	-	1.65			
Agency/Quasi Agency	0.25	-	4.93			
Other Government Related	33.14	-	9.48			
<b>Corporate</b>	<b>1.71</b>	-	<b>13.47</b>			
Corporate Bond	1.60	-	13.32			
Bank Loan	0.11	-	0.15			
Convertible	0.00	-	0.00			
Preferred	0.00	-	0.00			
<b>Securitized</b>	<b>11.00</b>	-	<b>6.44</b>			
Agency MBS Pass-Through	6.64	-	3.62			
Agency MBS ARM	0.00	-	0.00			
Agency MBS CMO	0.01	-	0.54			
Non-Agency Residential MBS	1.41	-	0.20			
Commercial MBS	0.15	-	0.17			
Asset-Backed	2.04	-	1.54			
Covered Bond	0.75	-	0.37			
<b>Municipal</b>	<b>0.03</b>	-	<b>0.07</b>			
<b>Cash &amp; Equivalents</b>	<b>29.74</b>	-	<b>21.14</b>			
<b>Other</b>	<b>14.35</b>	-	<b>5.04</b>			

## 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.

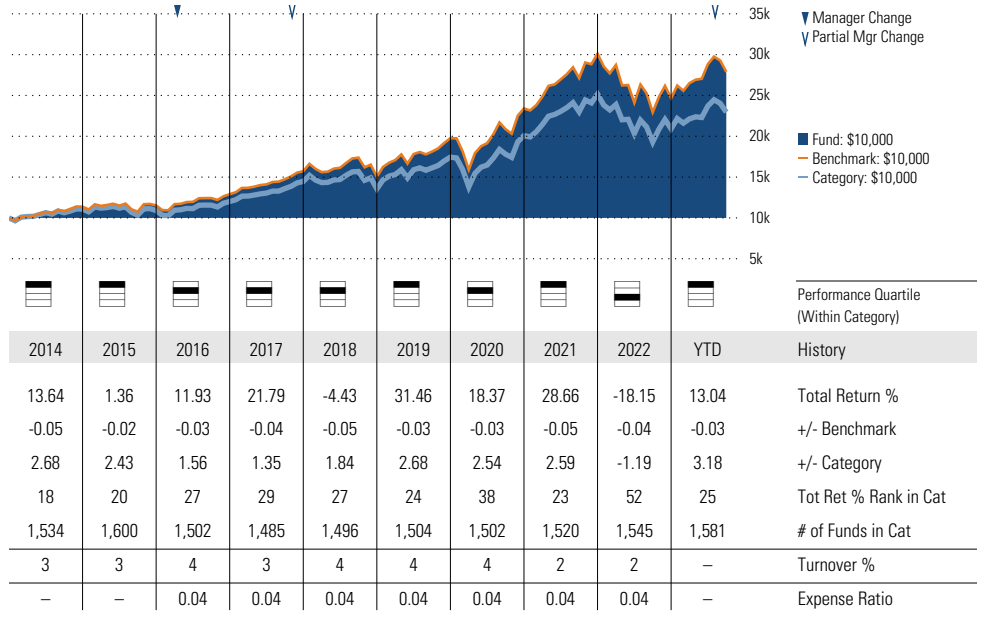
## Morningstar Investment Management LLC Analysis

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.

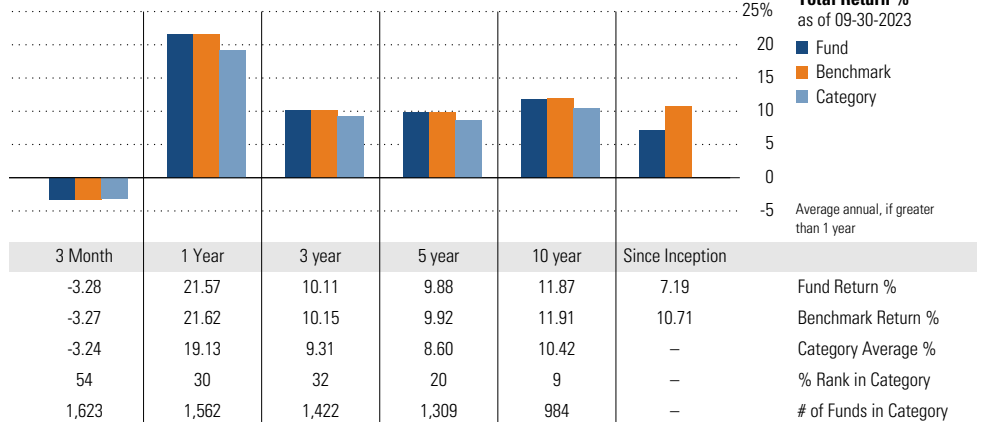
## ESG Metrics

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

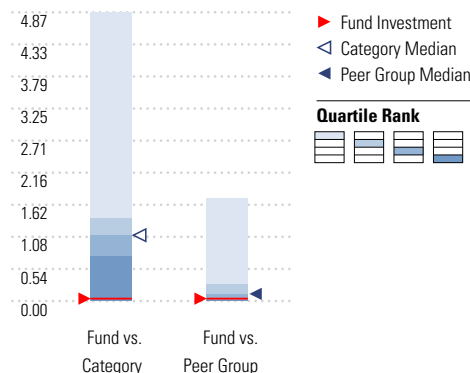
## Growth of \$10,000



## Trailing Performance



## Net Expense



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	-0.04	-	-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

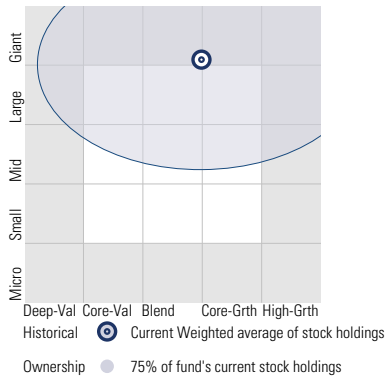
# Vanguard 500 Index Admiral VFIAX

**Morningstar Category**  
Large Blend

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

## Style Analysis as of 09-30-2023

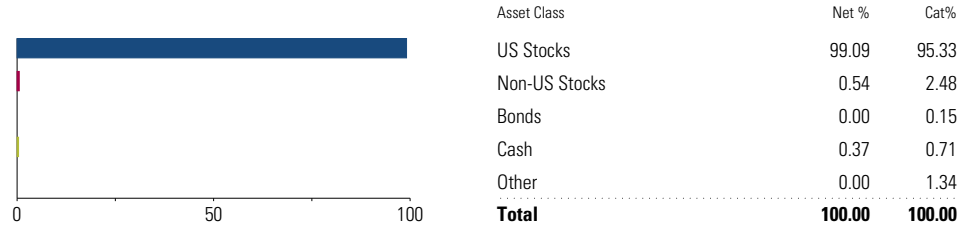
Morningstar Style Box™



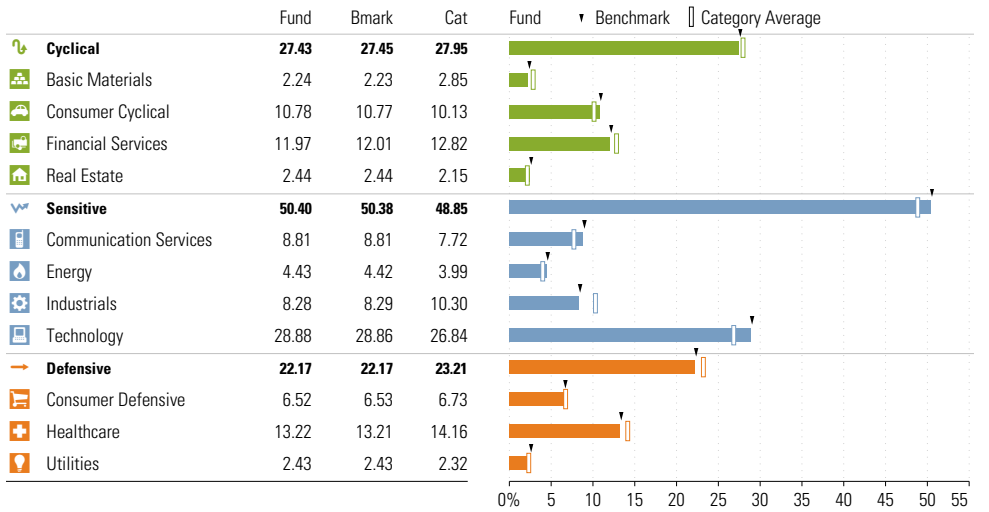
## Style Breakdown



## 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 Developed Markets Index Admiral VTMGX

**Morningstar Category**  
Foreign Large Blend

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

## Portfolio Manager(s)

Christine Franquin since 02-2013

Michael Perre since 11-2017

## Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 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 0.07 is 91.95% lower than the Foreign Large Blend category average.

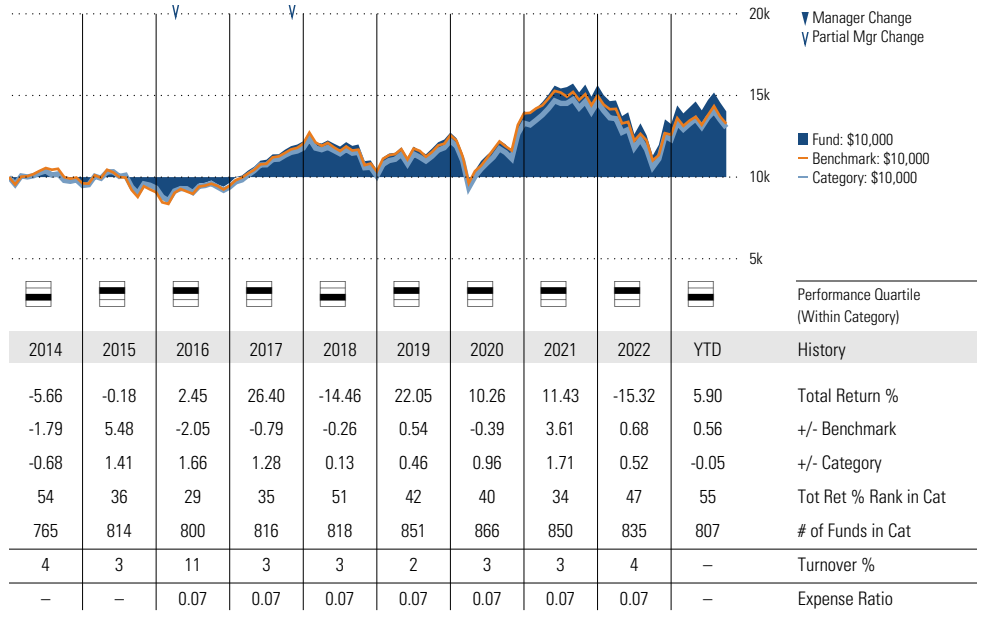
## Morningstar Investment Management LLC Analysis

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

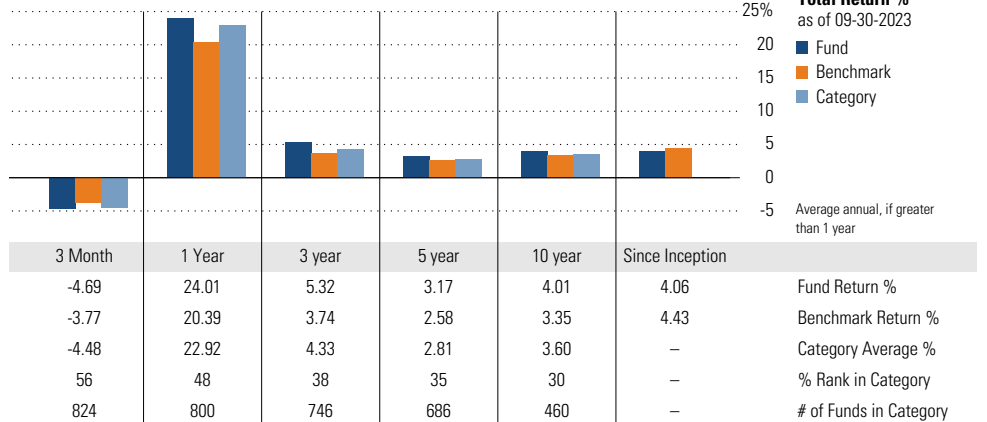
## ESG Metrics

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

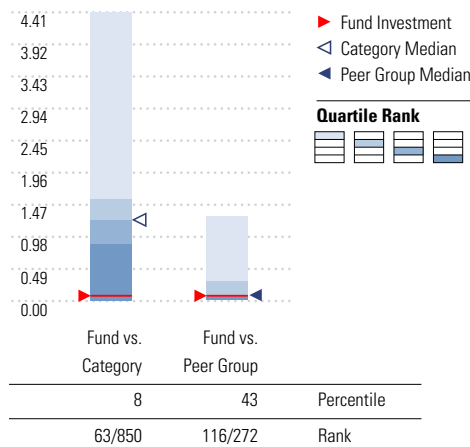
## Growth of \$10,000



## 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

Metric	Fund	Bmark	Cat
Alpha	1.37	-	0.38
Beta	1.09	-	1.03
R-Squared	96.95	-	93.49
Standard Deviation	19.09	17.19	18.35
Sharpe Ratio	0.26	0.18	0.20
Tracking Error	3.70	-	4.70
Information Ratio	0.43	-	0.11
Up Capture Ratio	115.04	-	106.23
Down Capture Ratio	109.87	-	105.46

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	13.60	13.48	14.20
Price/Book Ratio	1.56	1.67	1.88
Geom Avg Mkt Cap \$B	29.59	42.75	56.55
ROE	16.69	17.72	20.14

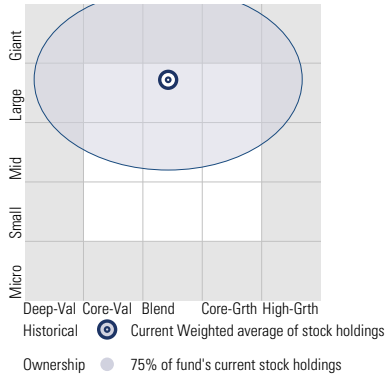
# Vanguard Developed Markets Index Admiral VTMGX

**Morningstar Category**  
Foreign Large Blend

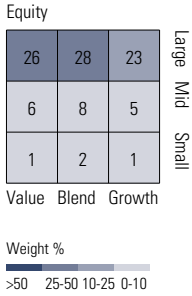
**Morningstar Index**  
MSCI ACWI Ex USA NR USD

## Style Analysis as of 09-30-2023

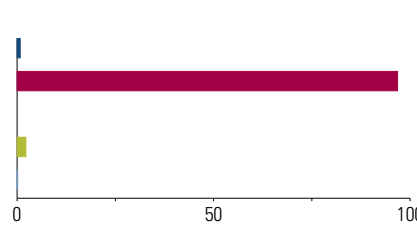
Morningstar Style Box™



## Style Breakdown

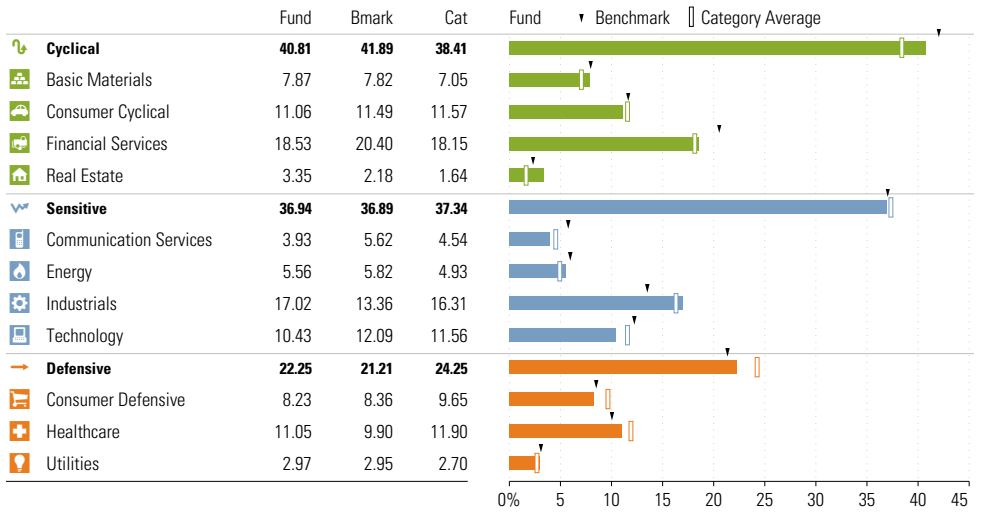


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	0.79	3.46
Non-US Stocks	96.81	93.89
Bonds	0.00	0.22
Cash	2.23	0.97
Other	0.16	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	36.29	35.08	Americas	10.36	8.51	Greater Europe	53.35	56.41	Developed Markets	99.45
Japan	21.44	18.59	North America	10.34	7.23	United Kingdom	12.17	13.72	Emerging Markets	0.55
Australasia	6.85	4.86	Central/Latin	0.02	1.28	W euro-ex UK	40.28	41.70	Not Available	0.00
Asia-4 Tigers	7.81	6.61				Emrgng Europe	0.32	0.07		
Asia-ex 4 Tigers	0.19	5.02				Africa	0.58	0.92		
Not Classified	0.00	0.00								

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

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Slcmt1142	1.62	1.62	-	-
⊕ Nestle SA	1.52	3.13	-	Consumer Defensive
⊕ Novo Nordisk A/S Class B	1.36	4.50	-	Healthcare
⊕ ASML Holding NV	1.22	5.72	-	Technology
⊕ Samsung Electronics Co Ltd	1.13	6.85	-	Technology
⊕ LVMH Moet Hennessy Louis Vuitton SE	0.99	7.84	-	Consumer Cyclical
⊕ Shell PLC	0.99	8.82	-	Energy
⊕ Toyota Motor Corp	0.97	9.80	-	Consumer Cyclical
⊕ Roche Holding AG	0.96	10.76	-	Healthcare
⊕ Novartis AG Registered Shares	0.96	11.71	-	Healthcare

**Total Holdings 4073**

⊕ Increase ⊖ Decrease ✱ New to Portfolio

# Vanguard International Value Inv VTRIX

**Morningstar Category**  
Foreign Large Value

**Morningstar Index**  
MSCI EAFE NR USD

## Portfolio Manager(s)

Michael Bennett since 05-2010  
 Michael Fry since 05-2010  
 Steven Morrow since 08-2012  
 A. Rama Krishna since 12-2012  
 Arjun Kumar since 10-2020  
 Shirley Woo since 10-2020

## Quantitative Screens

✔ **Performance:** The fund has finished in the Foreign Large Value category's top three quartiles in 7 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 13.35 years.

✗ **Style:** The fund has landed in its primary style box — Large Value — 41.67 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.38 is 60.82% lower than the Foreign Large Value category average.

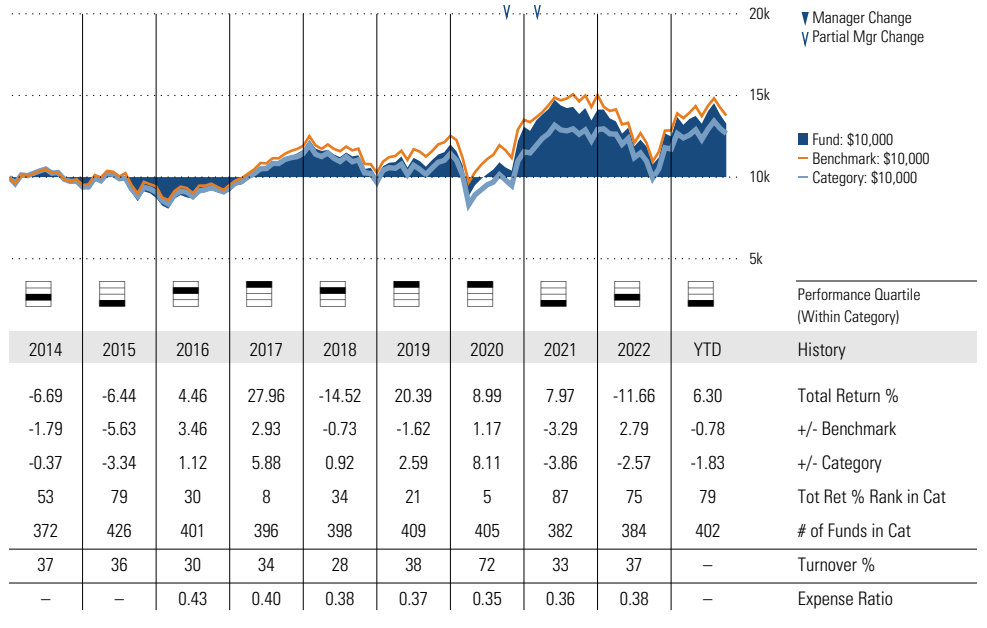
## Morningstar Investment Management LLC Analysis

This fund fails the style consistency screen. Its largest underlying subadvisor employs a relative value approach, which can include more growth-leaning stocks, causing the fund to plot near the border of the value and blend column in the Morningstar Stylebox.

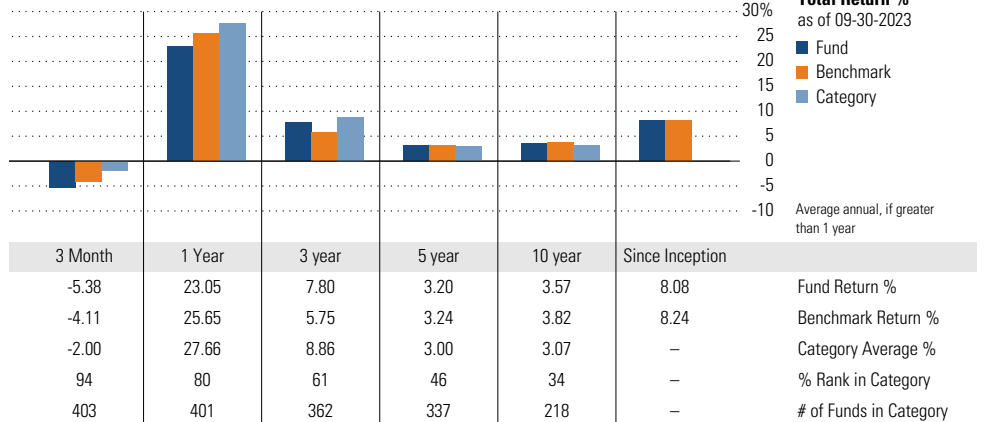
## ESG Metrics

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

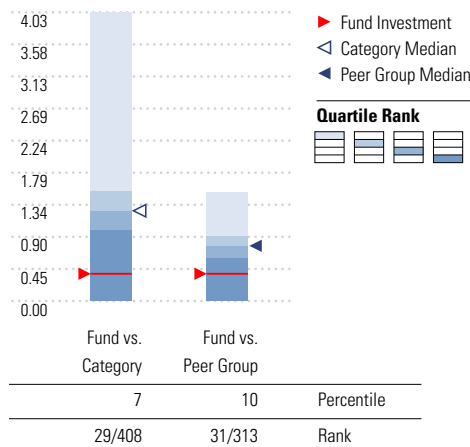
## Growth of \$10,000



## 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	1.95	-	3.13
Beta	1.03	-	0.99
R-Squared	91.86	-	89.42
Standard Deviation	19.53	18.23	19.11
Sharpe Ratio	0.37	0.28	0.43
Tracking Error	5.59	-	6.38
Information Ratio	0.37	-	0.49
Up Capture Ratio	103.77	-	103.27
Down Capture Ratio	95.95	-	91.00

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	13.59	13.87	10.37
Price/Book Ratio	1.75	1.69	1.28
Geom Avg Mkt Cap \$B	32.88	47.39	36.88
ROE	16.60	18.84	15.89

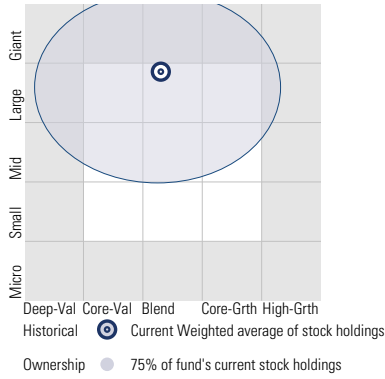
# Vanguard International Value Inv VTRIX

**Morningstar Category**  
Foreign Large Value

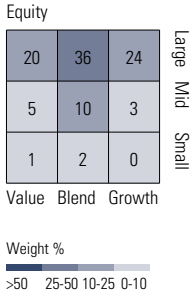
**Morningstar Index**  
MSCI EAFE NR USD

## Style Analysis as of 09-30-2023

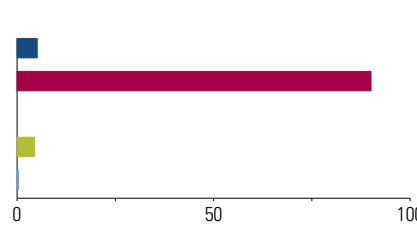
Morningstar Style Box™



## Style Breakdown

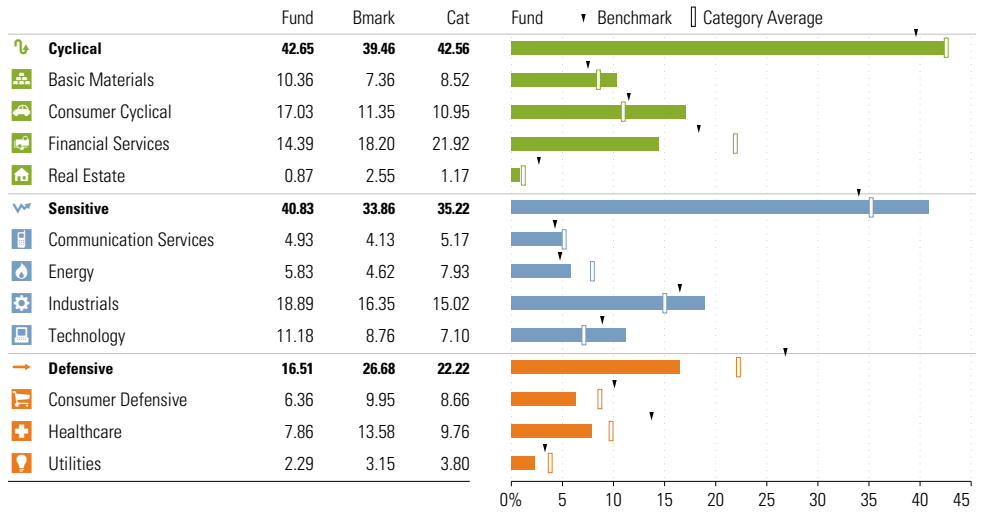


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	5.12	3.43
Non-US Stocks	90.05	94.75
Bonds	0.00	0.04
Cash	4.45	1.54
Other	0.38	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	39.15	30.58	Americas	12.07	9.36	Greater Europe	48.77	60.05	Developed Markets	81.22
Japan	12.25	16.72	North America	7.96	8.12	United Kingdom	14.74	17.06	Emerging Markets	18.78
Australasia	0.57	3.68	Central/Latin	4.11	1.24	W euro-ex UK	33.73	42.12	Not Available	0.00
Asia-4 Tigers	11.87	7.21				Emrgng Europe	0.00	0.11		
Asia-ex 4 Tigers	14.46	2.97				Africa	0.30	0.76		
Not Classified	0.00	0.00								

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

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Mktliq 12/31/2049	3.70	3.70	-	-
Alibaba Group Holding Ltd Ordinary Shares	1.82	5.52	-	Consumer Cyclical
⊖ HSBC Holdings PLC	1.63	7.15	-	Financial Services
⊖ Holcim Ltd	1.53	8.68	-	Basic Materials
⊖ Airbus SE	1.50	10.18	-	Industrials
AIA Group Ltd	1.48	11.67	-	Financial Services
BP PLC	1.47	13.14	-	Energy
⊕ Ryanair Holdings PLC ADR	1.39	14.53	30.03	Industrials
⊕ Roche Holding AG	1.31	15.84	-	Healthcare
⊕ Taiwan Semiconductor Manufacturing Co Ltd	1.30	17.14	-	Technology

**Total Holdings 229**

⊕ 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.

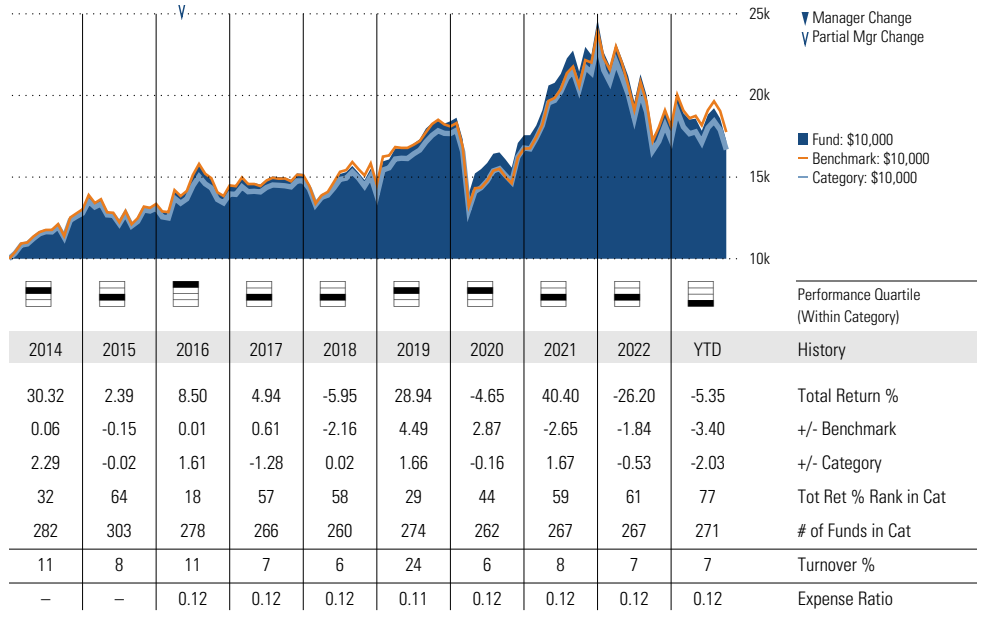
## Morningstar Investment Management LLC Analysis

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.

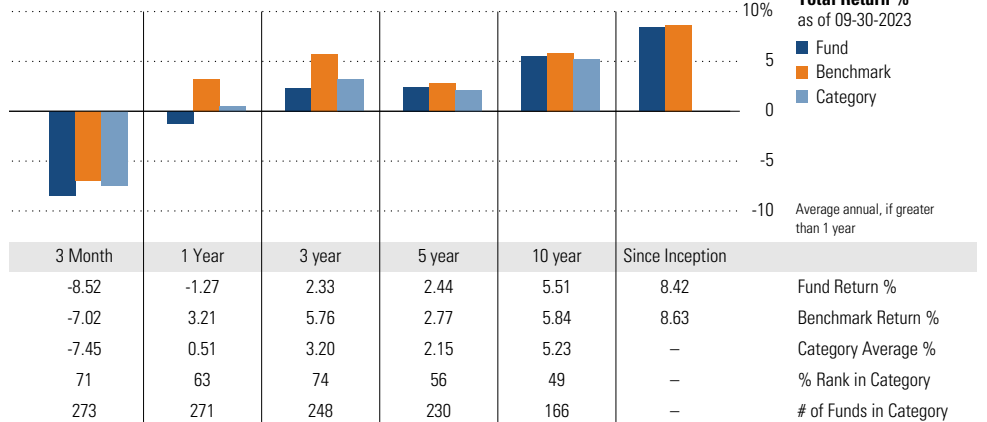
## ESG Metrics

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

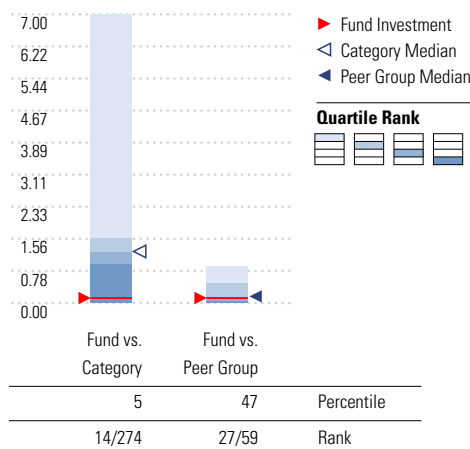
## Growth of \$10,000



## 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

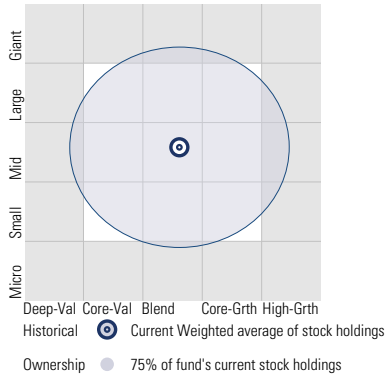
Metric	Fund	Bmark	Cat
Price/Earnings Ratio	29.65	38.46	31.64
Price/Book Ratio	2.23	2.42	2.27
Geom Avg Mkt Cap \$B	21.33	9.35	31.22
ROE	12.99	9.56	14.92

# Vanguard Real Estate Index Admiral VGSLX

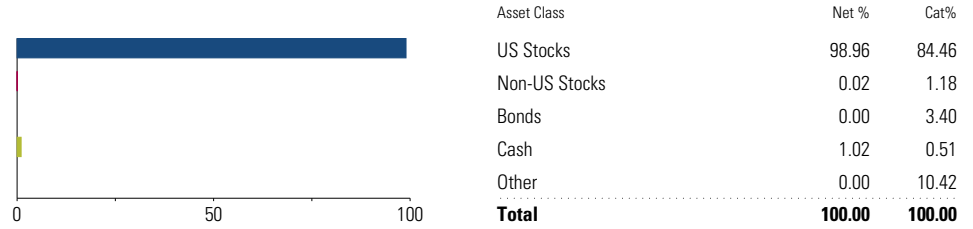
**Morningstar Category**  
Real Estate

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

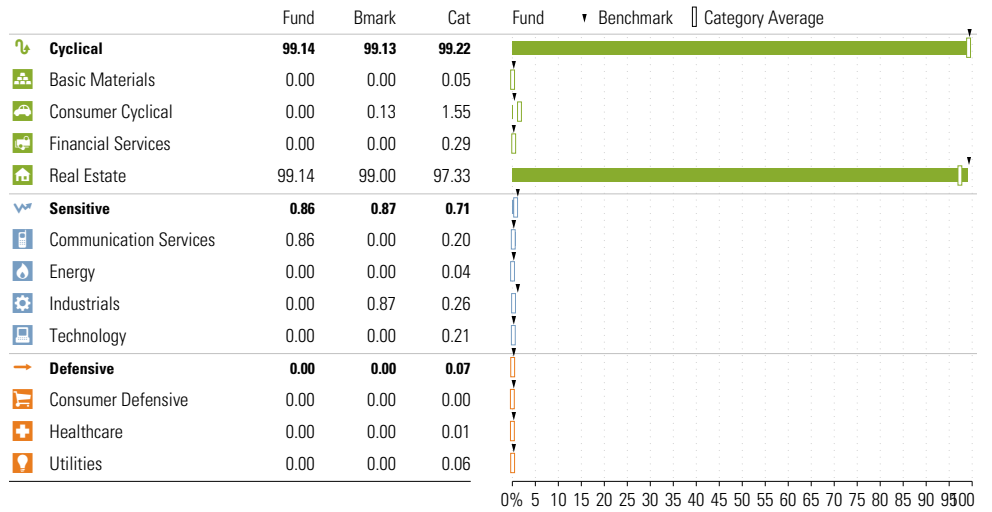
**Style Analysis** as of 09-30-2023  
Morningstar Style Box™



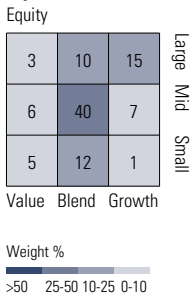
**Asset Allocation** as of 09-30-2023



**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 Small Cap Value Index Admiral VSIAX

**Morningstar Category**  
Small Value

**Morningstar Index**  
Russell 2000 Value TR USD

## Portfolio Manager(s)

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

## Quantitative Screens

✔ **Performance:** The fund has finished in the Small Value category's top three quartiles in 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 — Small Value — 100 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.07 is 93.75% lower than the Small Value category average.

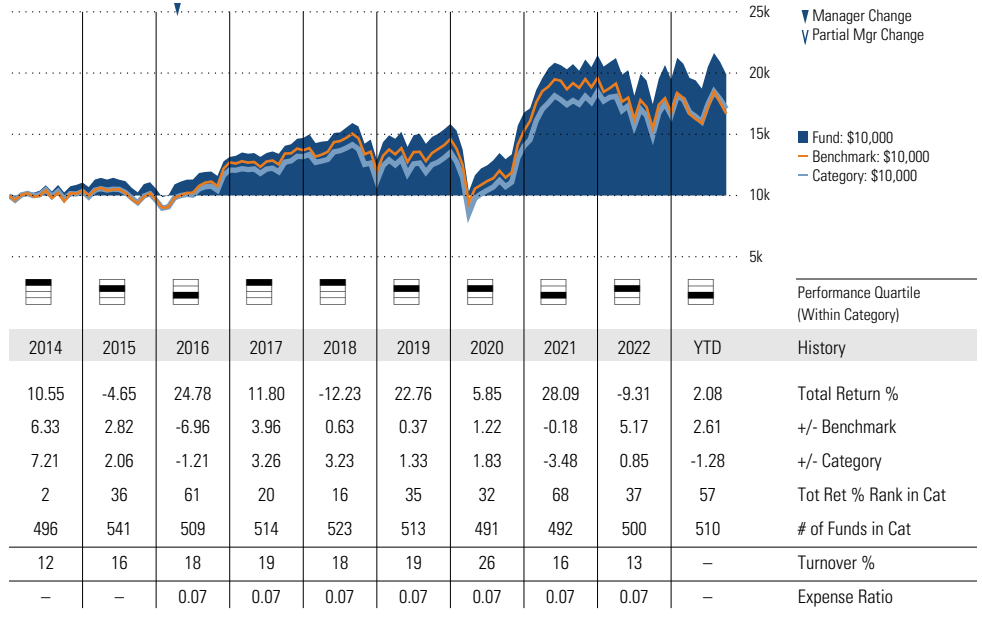
## Morningstar Investment Management LLC Analysis

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.

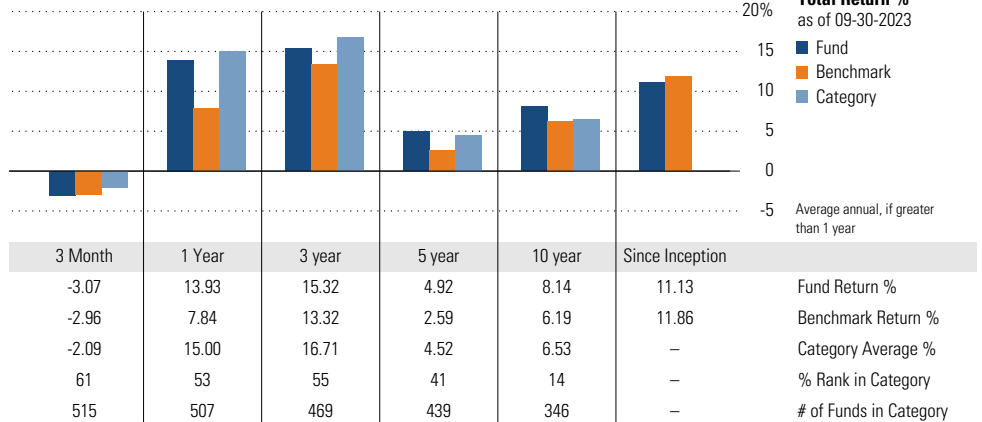
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	08-31-2023
Carbon Risk Score	Medium Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

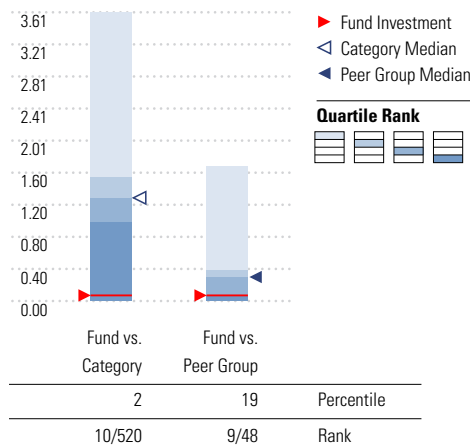
## Growth of \$10,000



## 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	2.66	-	3.37
Beta	0.92	-	0.94
R-Squared	96.77	-	93.31
Standard Deviation	21.67	23.16	22.57
Sharpe Ratio	0.67	0.56	0.69
Tracking Error	4.31	-	5.97
Information Ratio	0.46	-	0.51
Up Capture Ratio	96.56	-	98.85
Down Capture Ratio	88.72	-	88.84

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	11.42	9.46	11.18
Price/Book Ratio	1.67	1.23	1.61
Geom Avg Mkt Cap \$B	5.23	1.89	4.32
ROE	15.32	7.74	15.96

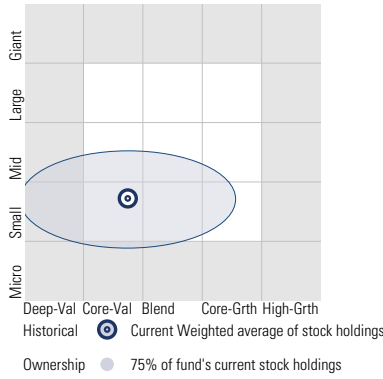
# Vanguard Small Cap Value Index Admiral VSIAX

**Morningstar Category**  
Small Value

**Morningstar Index**  
Russell 2000 Value TR USD

## Style Analysis as of 09-30-2023

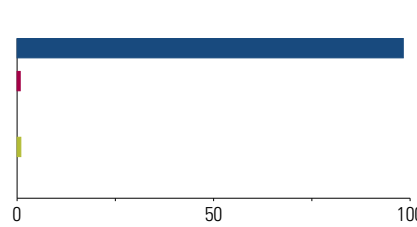
Morningstar Style Box™



## Style Breakdown

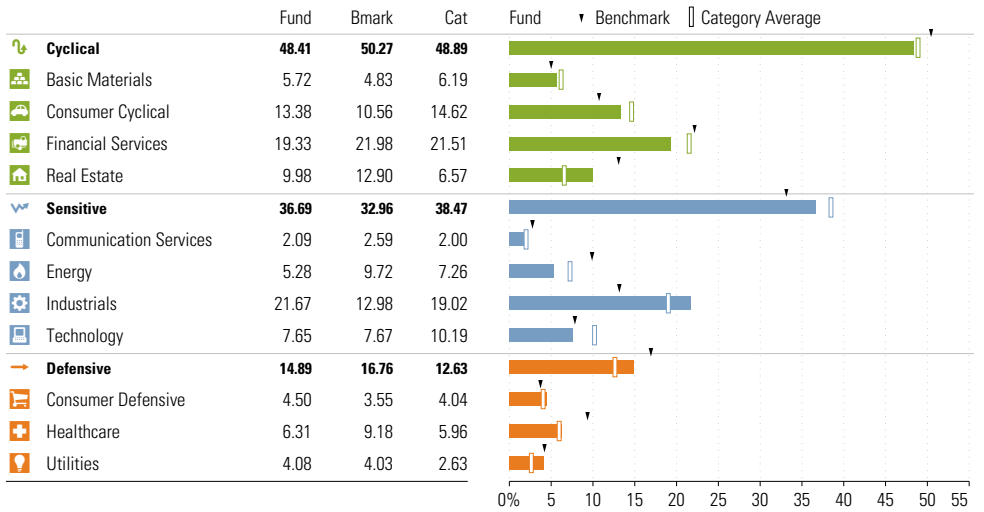


## Asset Allocation as of 09-30-2023



Asset Class	Net %	Cat%
US Stocks	98.26	93.12
Non-US Stocks	0.79	3.32
Bonds	0.00	0.04
Cash	0.95	3.43
Other	0.00	0.09
<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
Slcmt1142	0.78	0.78	-	-
Builders FirstSource Inc	0.68	1.46	91.88	Industrials
Bunge Ltd	0.63	2.09	10.42	Consumer Defensive
IDEX Corp	0.63	2.71	-8.07	Industrials
Reliance Steel & Aluminum Co	0.61	3.33	31.02	Basic Materials
Atmos Energy Corp	0.57	3.89	-3.50	Utilities
Booz Allen Hamilton Holding Corp Class A	0.55	4.44	5.89	Industrials
Jabil Inc	0.53	4.97	86.41	Technology
First Citizens BancShares Inc Class A	0.50	5.47	82.28	Financial Services
APA Corp	0.49	5.97	-10.35	Energy
Carlisle Companies Inc	0.49	6.46	11.02	Industrials
Owens-Corning Inc	0.47	6.93	61.75	Industrials
RPM International Inc	0.47	7.40	-1.42	Basic Materials
AECOM	0.45	7.85	-1.59	Industrials
Gaming and Leisure Properties Inc	0.43	8.28	-7.91	Real Estate

**Total Holdings 855**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2020 Fund VTWNX

**Morningstar Category**  
Target-Date 2020

**Morningstar Index**  
Morningstar Lifetime Mod 2020 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 2020 category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 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 86.21% lower than the Target-Date 2020 category average.

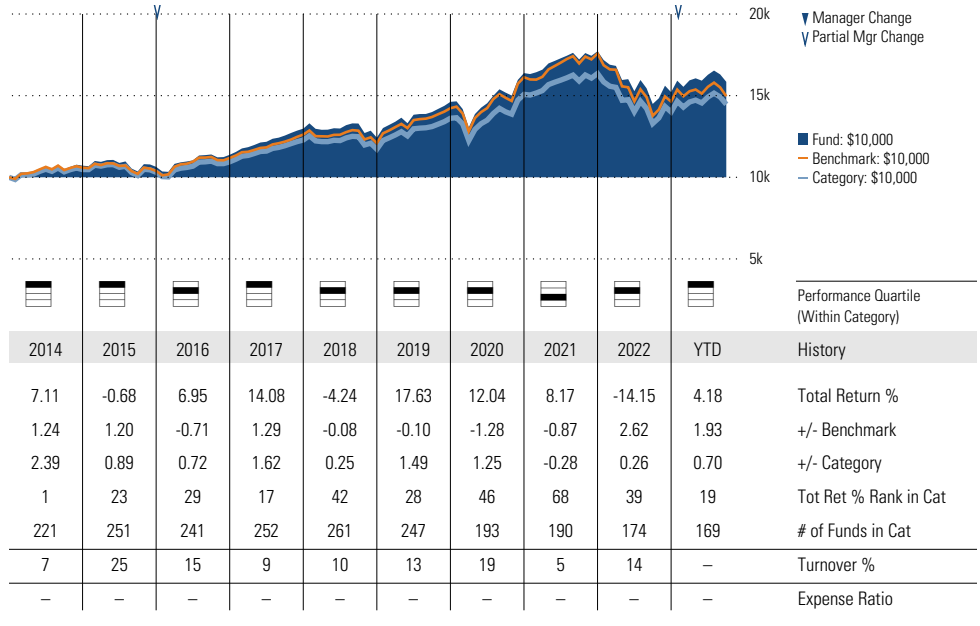
## Morningstar Investment Management LLC Analysis

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

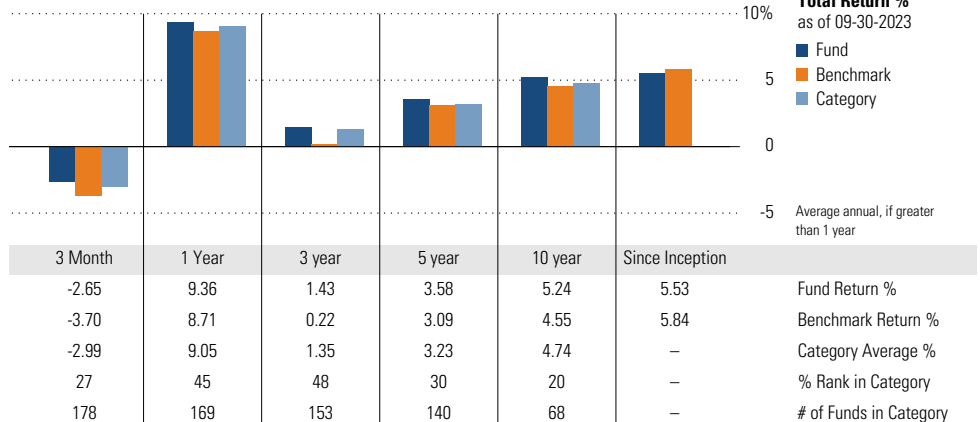
## ESG Metrics

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

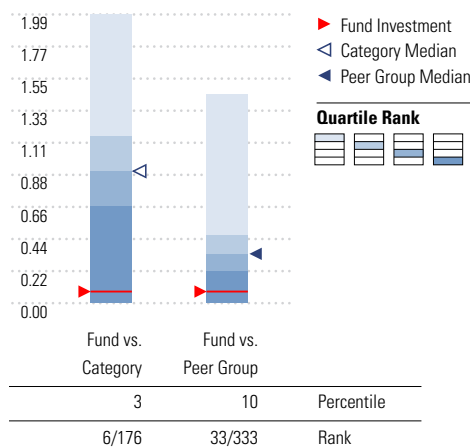
## Growth of \$10,000



## 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

	Fund	Bmark	Cat
Alpha	1.16	-	1.10
Beta	0.87	-	0.88
R-Squared	98.67	-	97.66
Standard Deviation	10.02	11.49	10.24
Sharpe Ratio	-0.01	-0.10	-0.02
Tracking Error	1.92	-	2.17
Information Ratio	0.63	-	0.58
Up Capture Ratio	90.12	-	91.07
Down Capture Ratio	82.63	-	84.06

## Portfolio Metrics

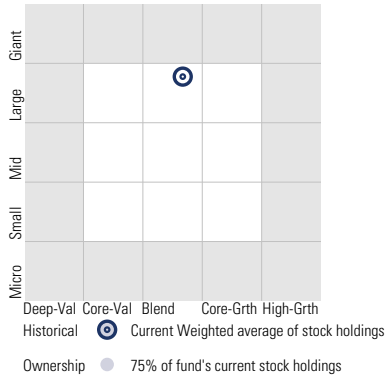
	Fund	Bmark	Cat
Price/Earnings Ratio	17.59	17.60	18.43
Price/Book Ratio	2.47	2.43	2.67
Avg Eff Duration	5.98	-	5.99

# Vanguard Target Retirement 2020 Fund VTWNX

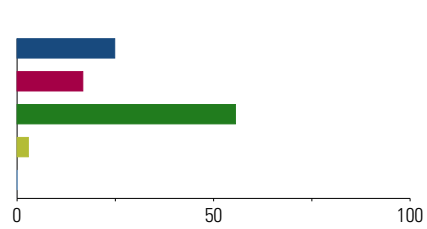
**Morningstar Category**  
Target-Date 2020

**Morningstar Index**  
Morningstar Lifetime Mod 2020 TR USD

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

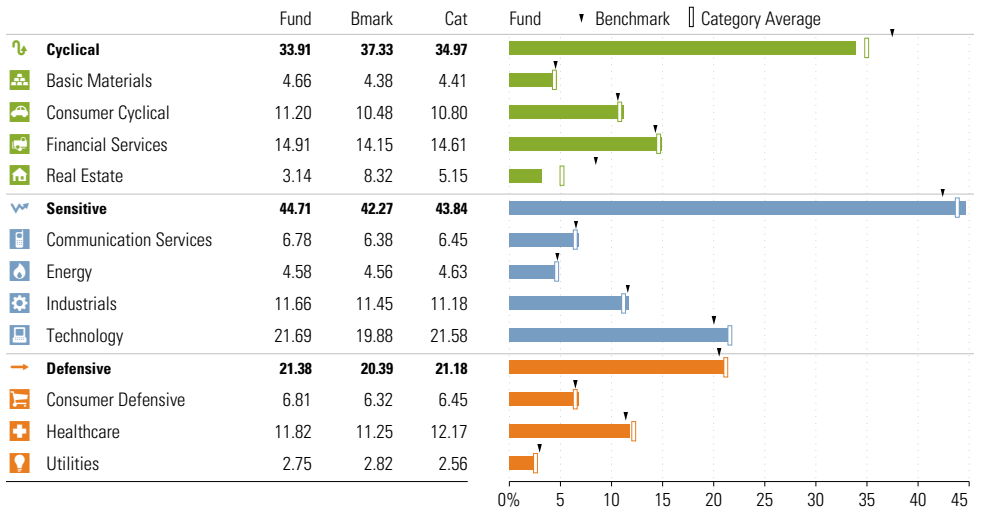


**Asset Allocation** as of 09-30-2023

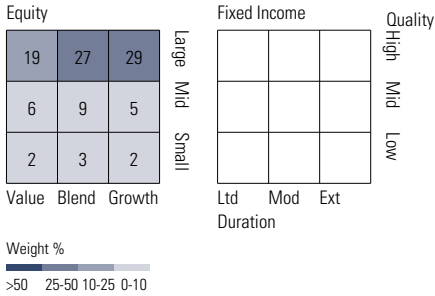


Asset Class	Net %	Cat%
US Stocks	24.84	26.35
Non-US Stocks	16.72	14.08
Bonds	55.55	49.41
Cash	2.86	2.01
Other	0.03	8.15
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**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	—	31.67	31.67	—	—
⊖ Vanguard Total Stock Mkt Idx Instl Pls	—	25.00	56.68	—	—
⊖ Vanguard Total Intl Stock Index Inv	—	17.18	73.86	—	—
⊕ Vanguard Total Intl Bd II Idx Instl	—	14.20	88.06	—	—
⊕ Vanguard Shrt-Term Infl-Prot Sec Idx Adm	—	11.09	99.15	—	—
⊖ Mktliq 12/31/2049	—	0.87	100.02	—	—
⊖ Us Dollar	—	0.02	100.03	—	—

**Total Holdings 7**

⊕ 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.

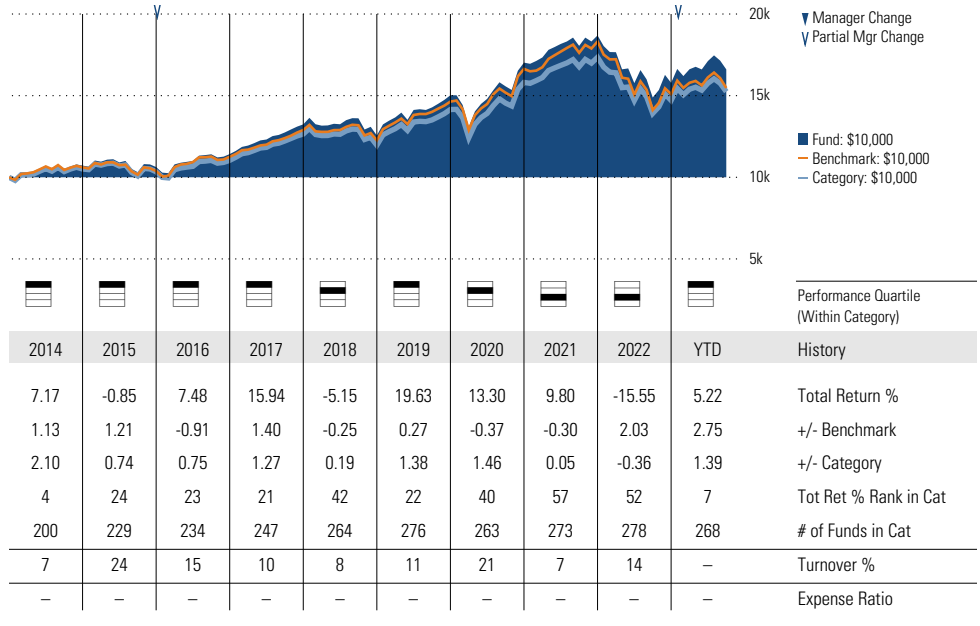
## Morningstar Investment Management LLC Analysis

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.

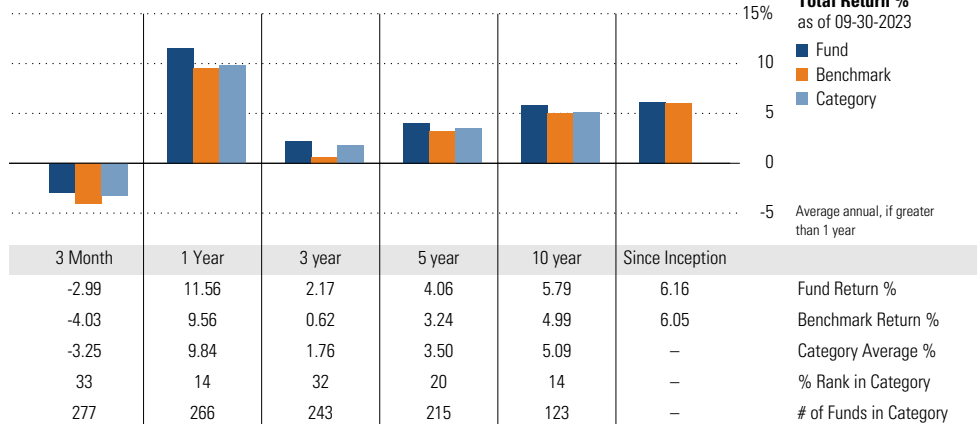
## ESG Metrics

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

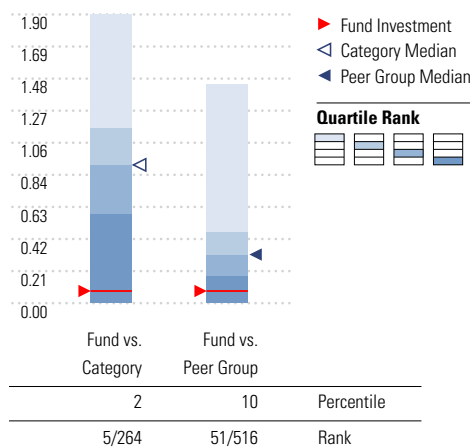
## Growth of \$10,000



## 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

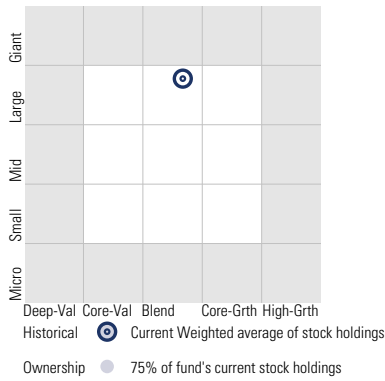
	Fund	Bmark	Cat
Price/Earnings Ratio	17.61	17.42	18.55
Price/Book Ratio	2.47	2.40	2.67
Avg Eff Duration	6.34	-	5.81

# Vanguard Target Retirement 2025 Fund VTTVX

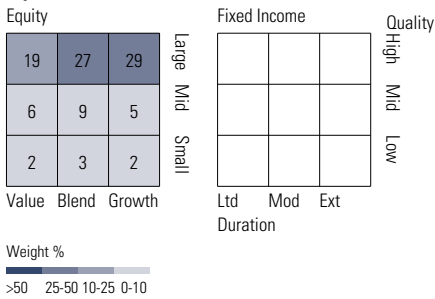
**Morningstar Category**  
Target-Date 2025

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

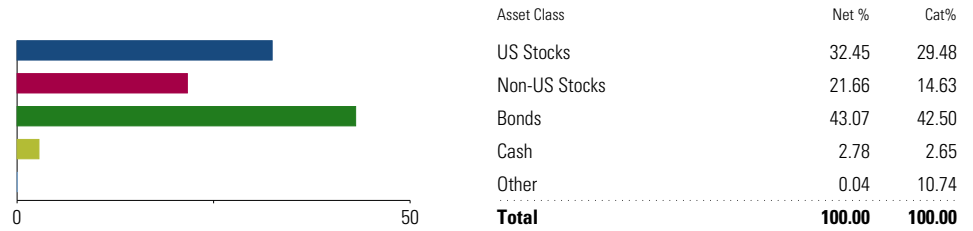
**Style Analysis** as of 09-30-2023  
Morningstar Style Box™



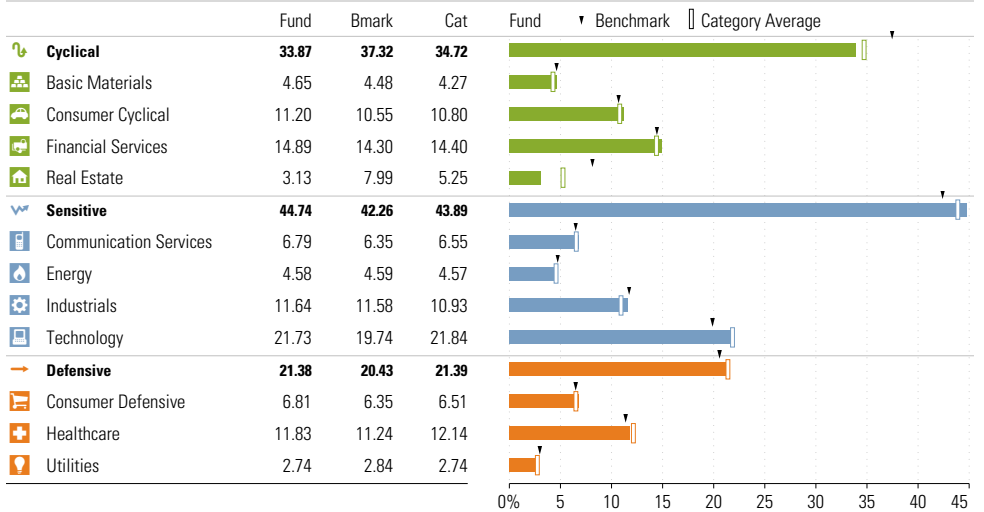
**Style Breakdown**



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



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



**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.

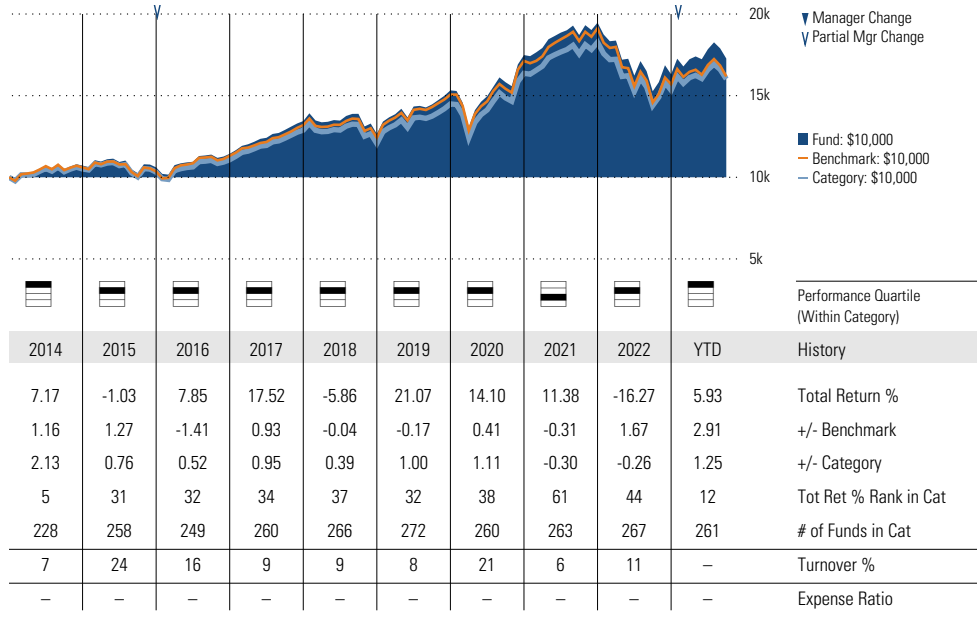
## Morningstar Investment Management LLC Analysis

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.

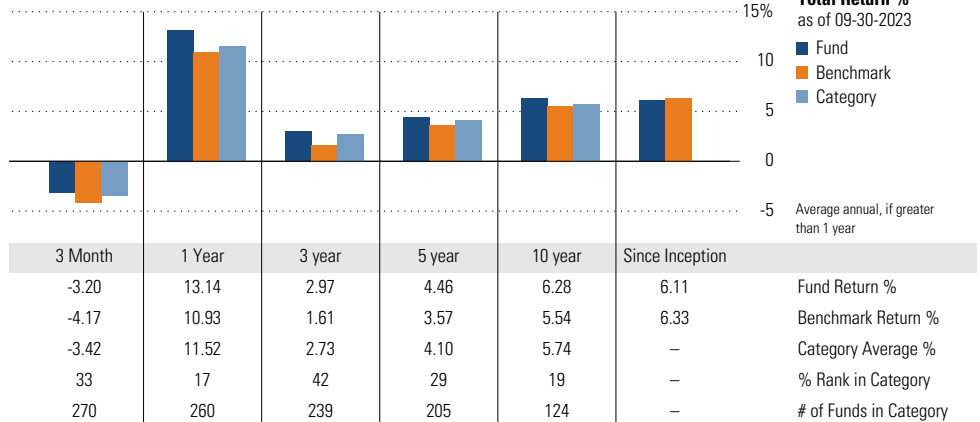
## ESG Metrics

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

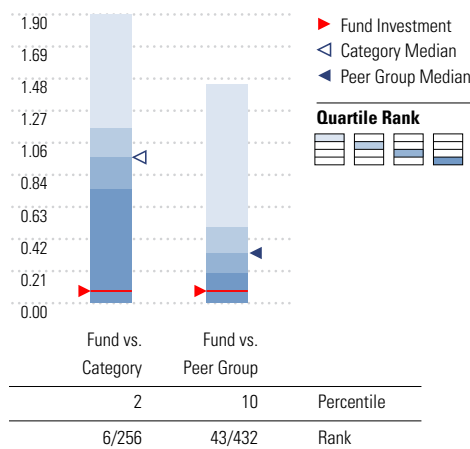
## Growth of \$10,000



## 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

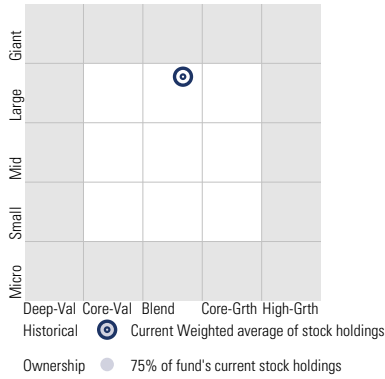
# Vanguard Target Retirement 2030 Fund VTHR

**Morningstar Category**  
Target-Date 2030

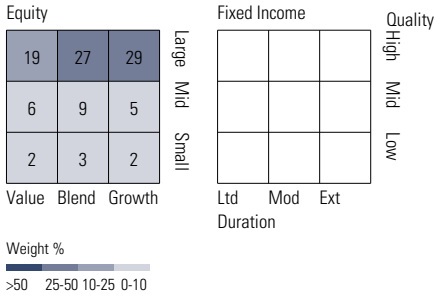
**Morningstar Index**  
Morningstar Lifetime Mod 2030 TR USD

## Style Analysis as of 09-30-2023

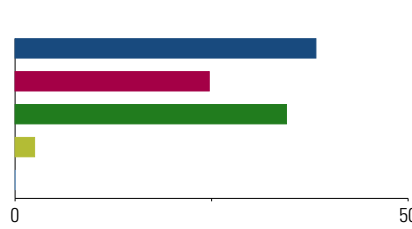
Morningstar Style Box™



## Style Breakdown

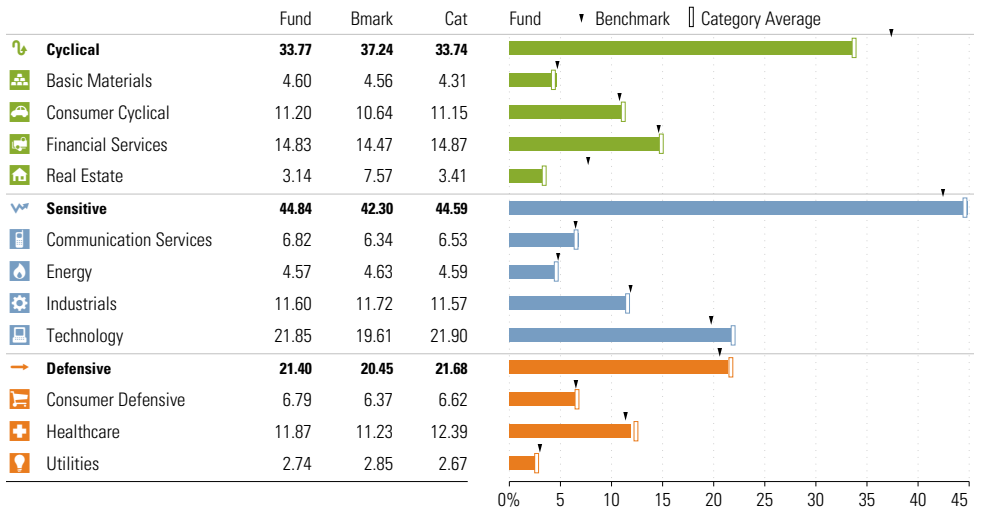


## Asset Allocation as of 09-30-2023



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.

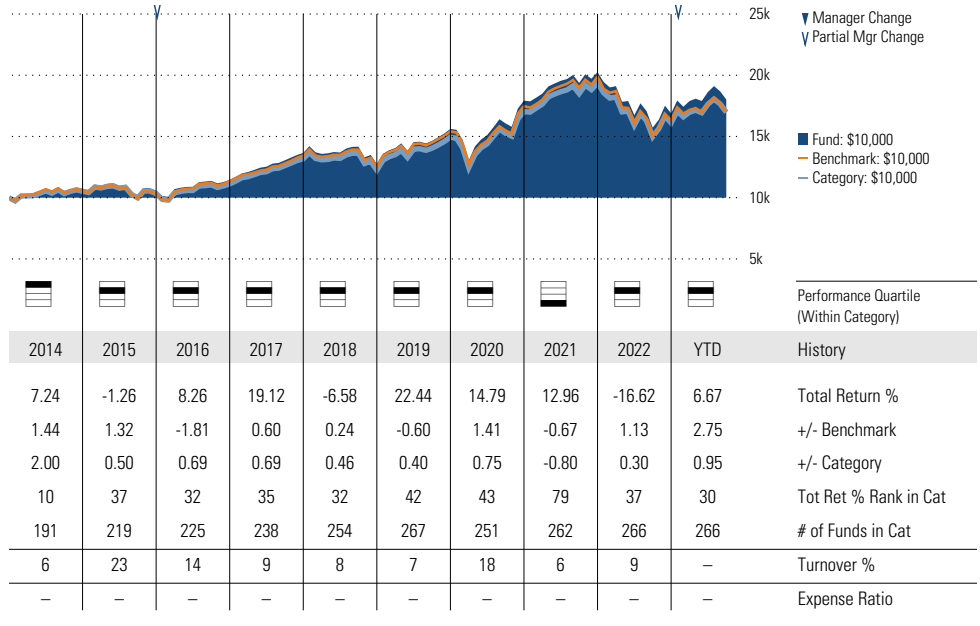
## Morningstar Investment Management LLC Analysis

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.

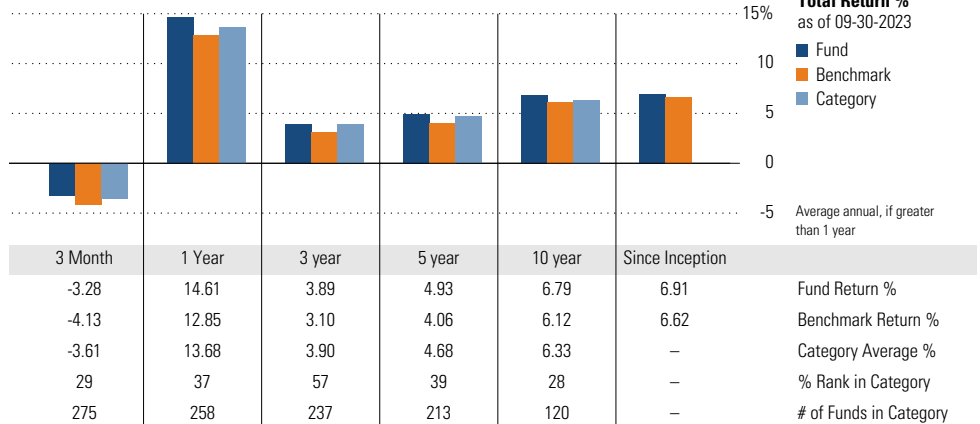
## ESG Metrics

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

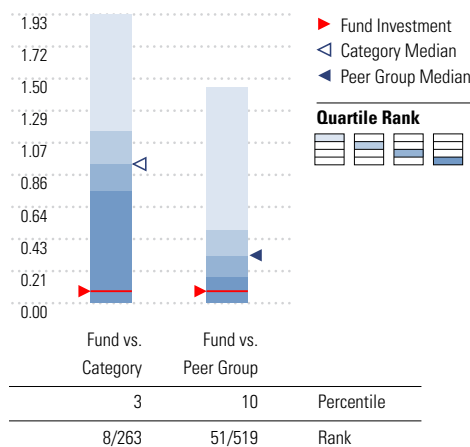
## Growth of \$10,000



## 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

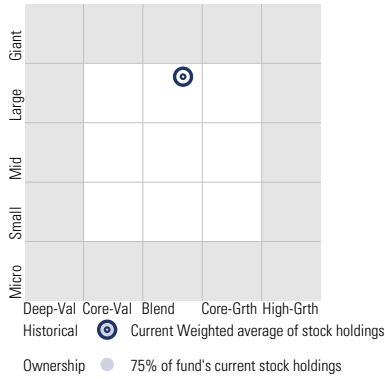
# Vanguard Target Retirement 2035 Fund VTTHX

**Morningstar Category**  
Target-Date 2035

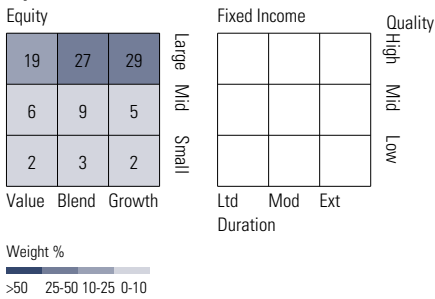
**Morningstar Index**  
Morningstar Lifetime Mod 2035 TR USD

## Style Analysis as of 09-30-2023

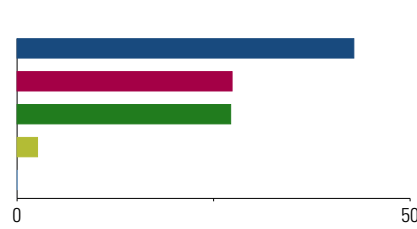
Morningstar Style Box™



## Style Breakdown

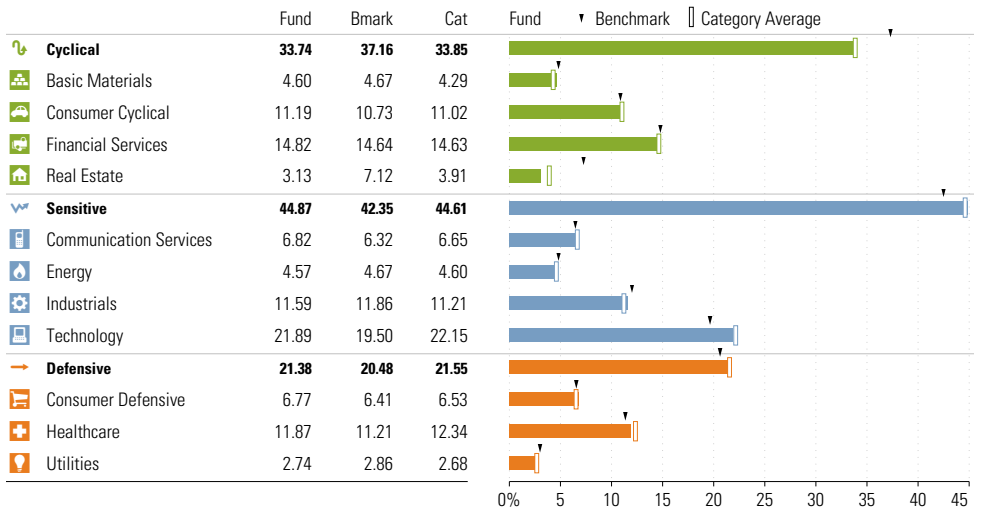


## Asset Allocation as of 09-30-2023



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



## 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.

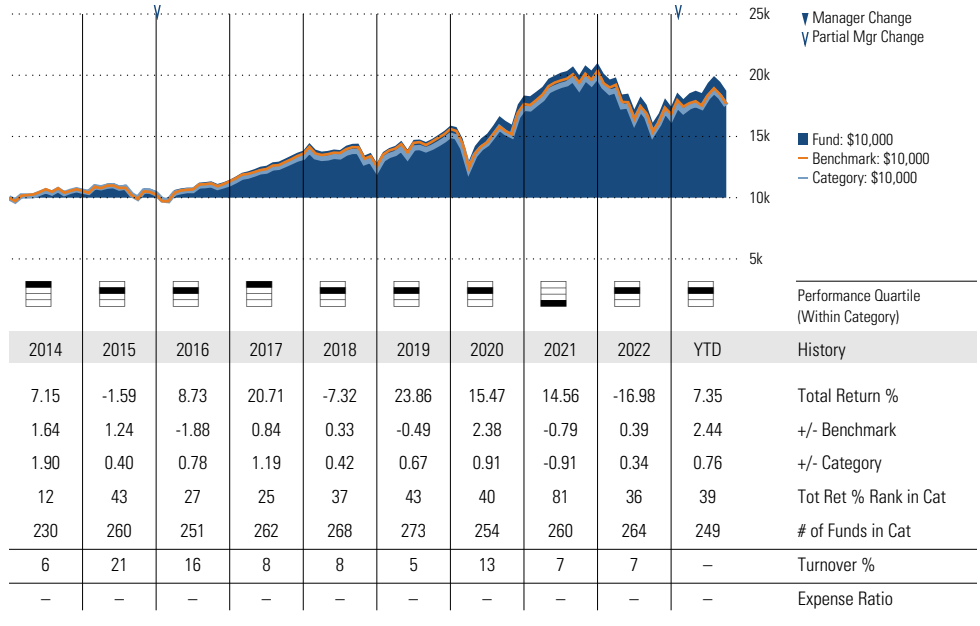
## Morningstar Investment Management LLC Analysis

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.

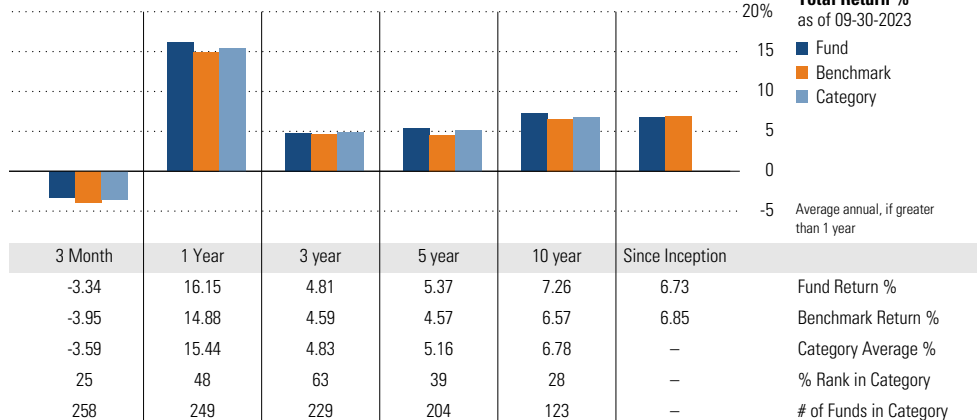
## ESG Metrics

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

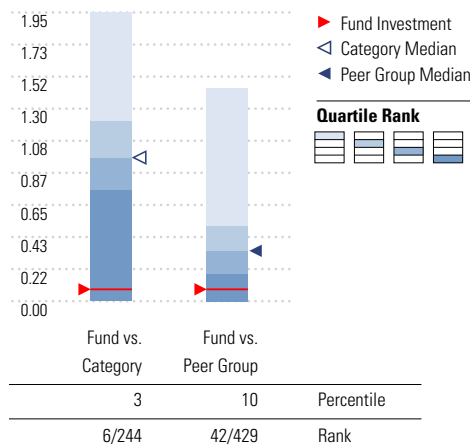
## Growth of \$10,000



## 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

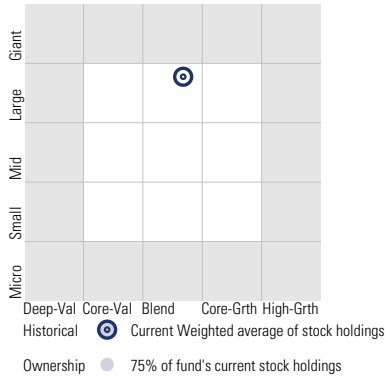
	Fund	Bmark	Cat
Price/Earnings Ratio	17.75	16.90	18.51
Price/Book Ratio	2.51	2.31	2.74
Avg Eff Duration	6.72	-	6.11

# Vanguard Target Retirement 2040 Fund VFORX

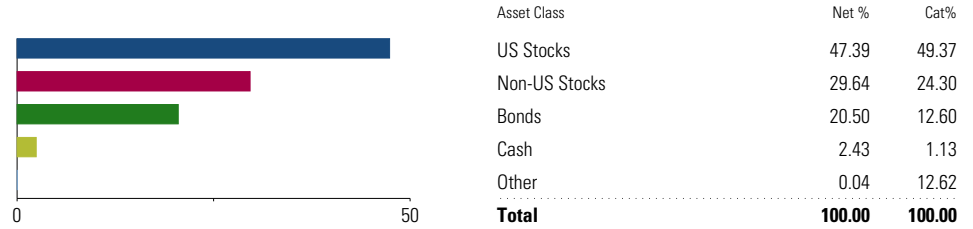
**Morningstar Category**  
Target-Date 2040

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

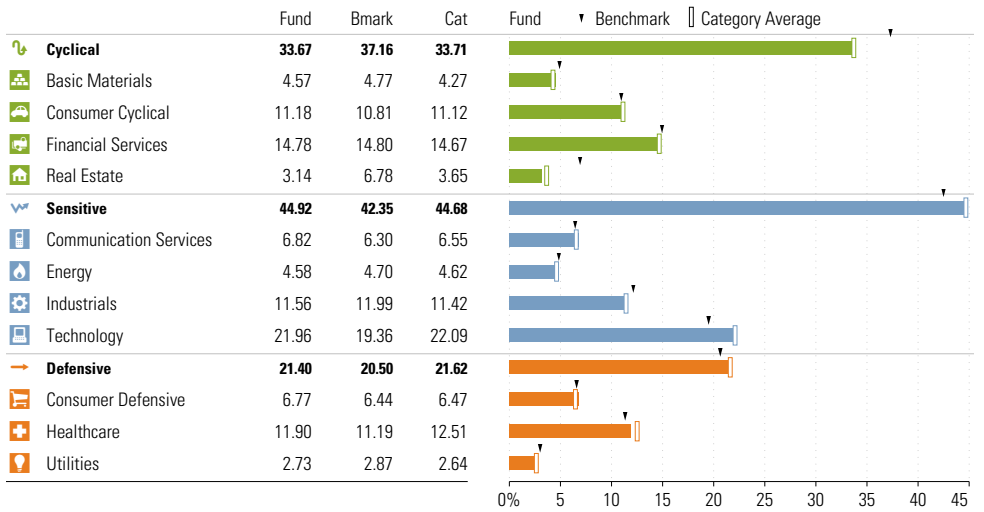
**Style Analysis** as of 09-30-2023  
Morningstar Style Box™



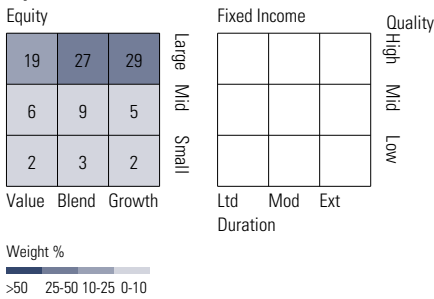
**Asset Allocation** as of 09-30-2023



**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.

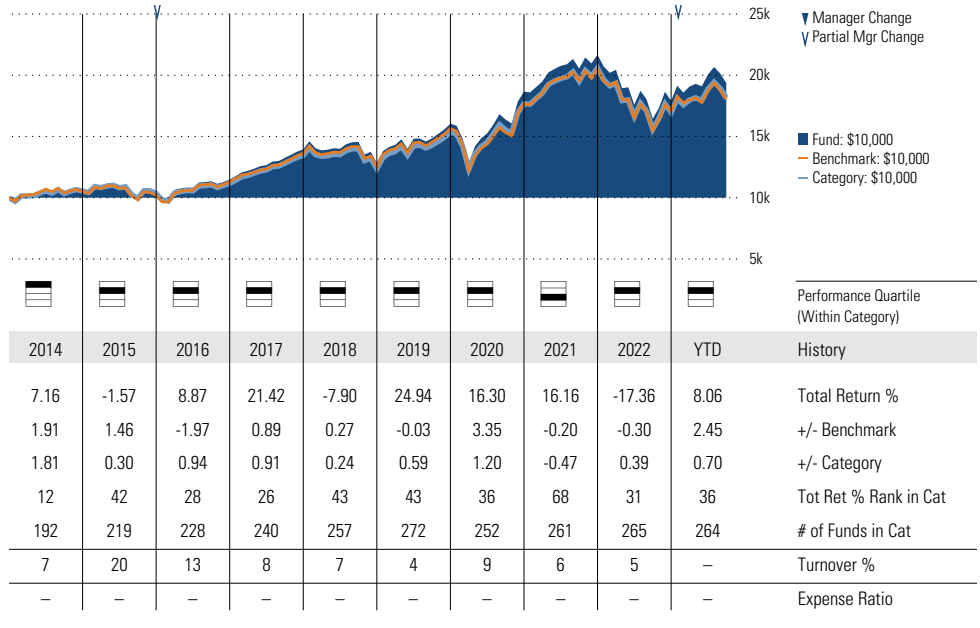
## Morningstar Investment Management LLC Analysis

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.

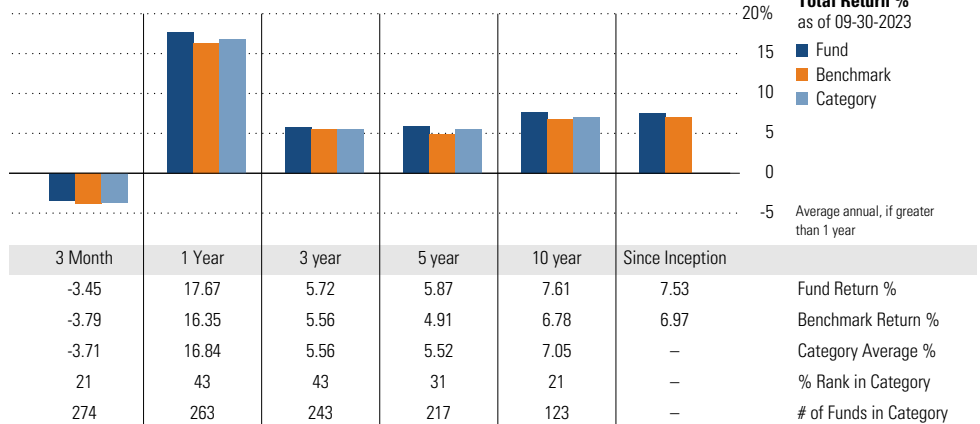
## ESG Metrics

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

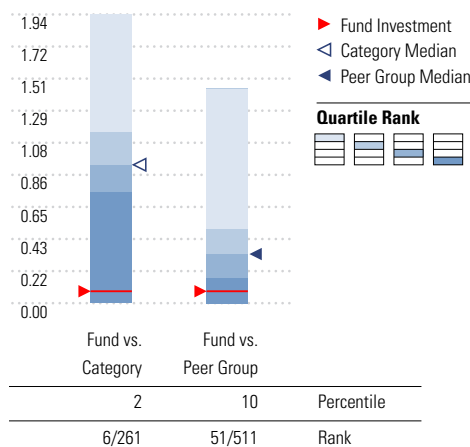
## Growth of \$10,000



## 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

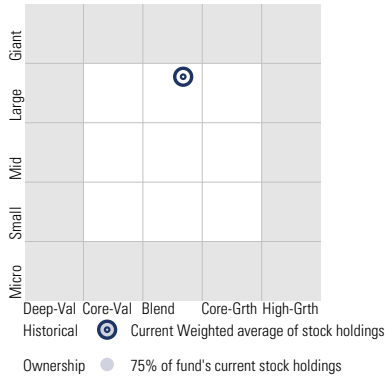
	Fund	Bmark	Cat
Price/Earnings Ratio	17.75	16.76	18.33
Price/Book Ratio	2.51	2.28	2.67
Avg Eff Duration	6.72	-	6.74

# Vanguard Target Retirement 2045 Fund VTIVX

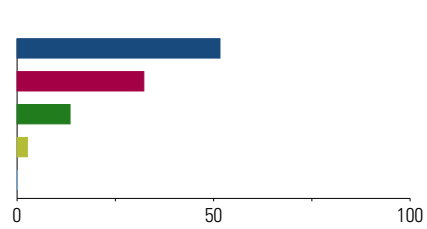
**Morningstar Category**  
Target-Date 2045

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

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

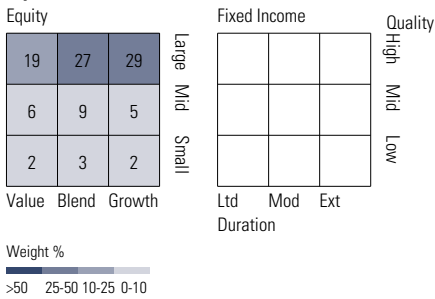


**Asset Allocation** as of 09-30-2023

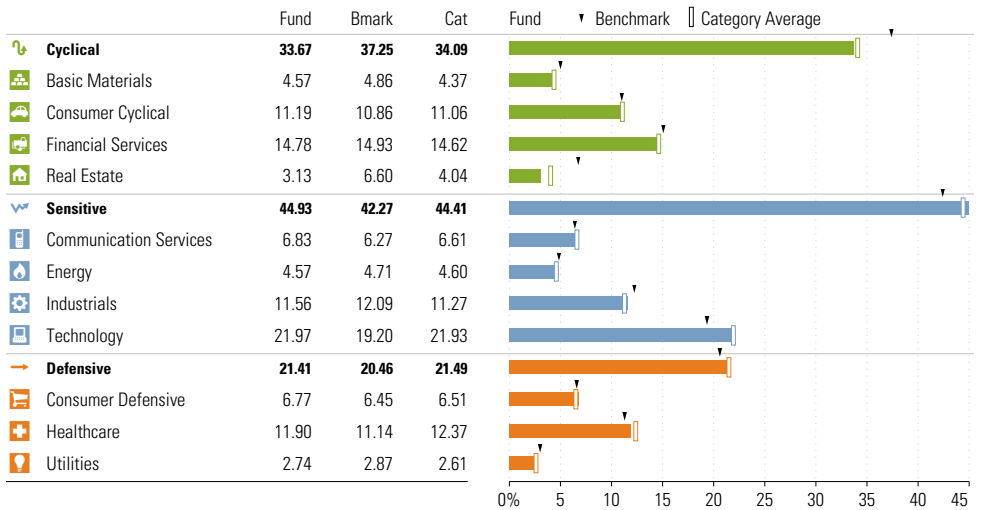


Asset Class	Net %	Cat%
US Stocks	51.62	52.76
Non-US Stocks	32.25	27.21
Bonds	13.47	7.95
Cash	2.61	1.22
Other	0.05	10.87
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Style Breakdown**



**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.

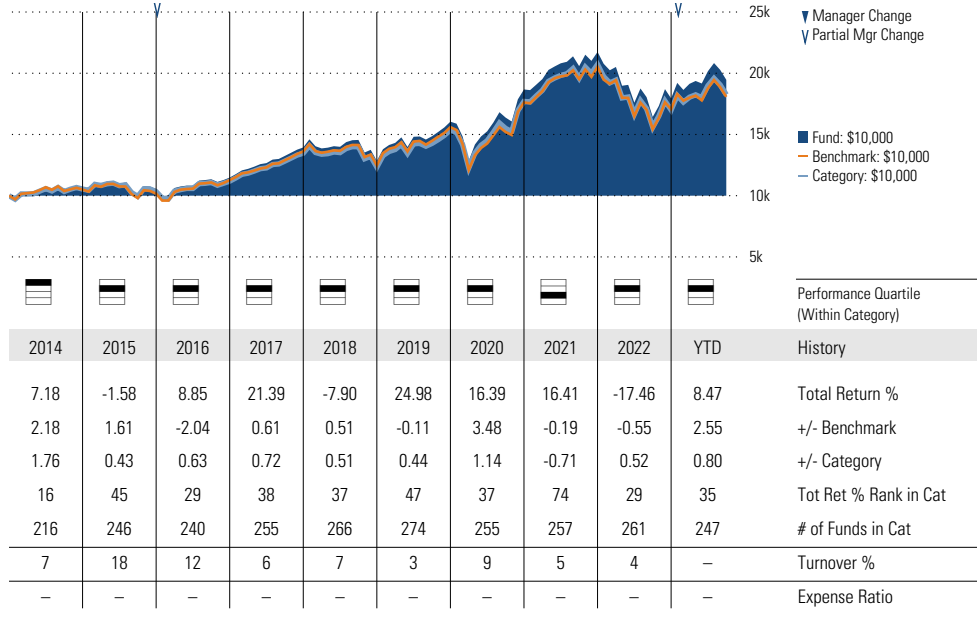
## Morningstar Investment Management LLC Analysis

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.

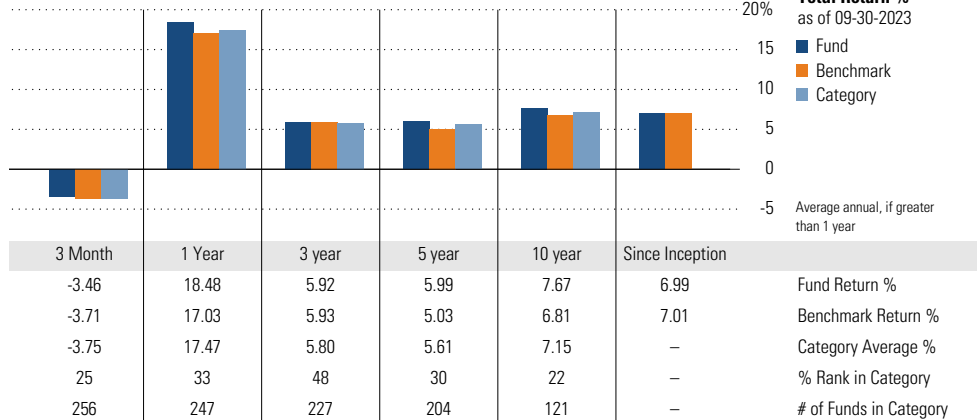
## ESG Metrics

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

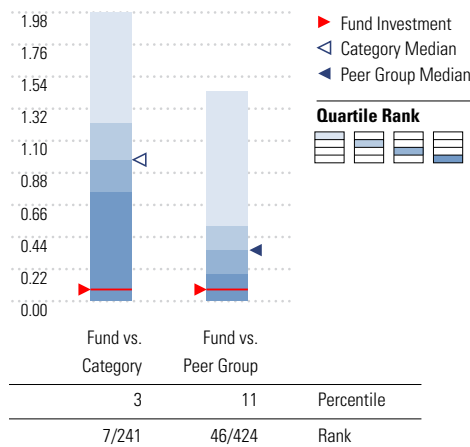
## Growth of \$10,000



## 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

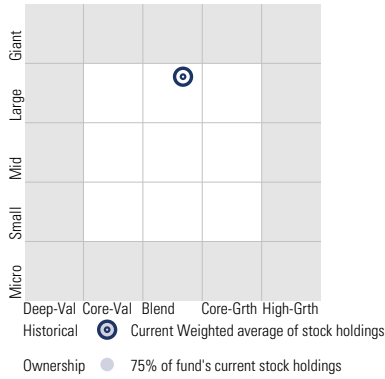
	Fund	Bmark	Cat
Price/Earnings Ratio	17.70	16.63	18.33
Price/Book Ratio	2.49	2.25	2.67
Avg Eff Duration	6.71	-	6.59

# Vanguard Target Retirement 2050 Fund VFIFX

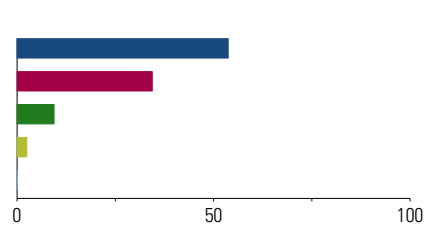
**Morningstar Category**  
Target-Date 2050

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

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

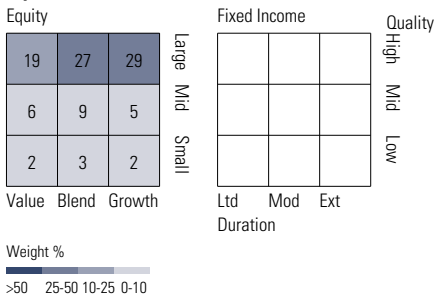


**Asset Allocation** as of 09-30-2023

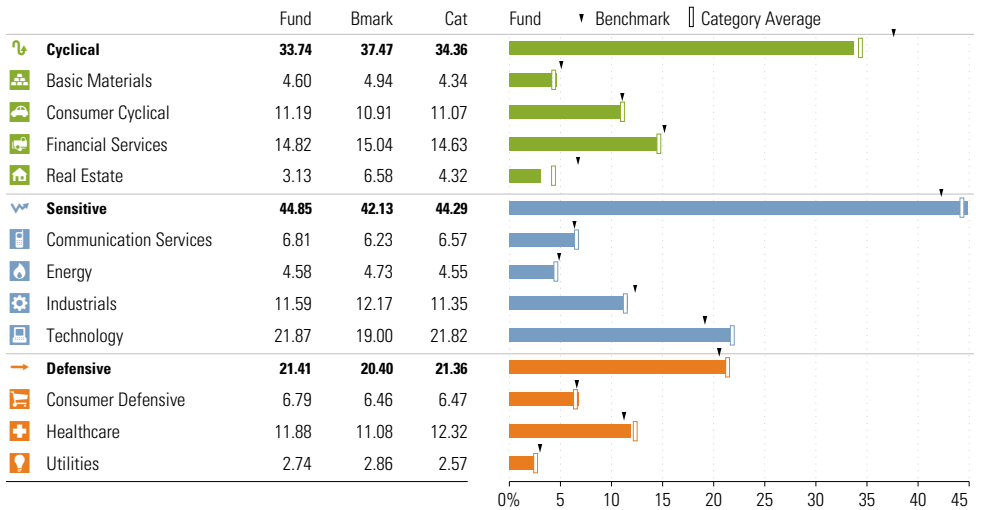


Asset Class	Net %	Cat%
US Stocks	53.71	55.24
Non-US Stocks	34.38	28.24
Bonds	9.40	5.60
Cash	2.47	1.16
Other	0.05	9.76
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Style Breakdown**



**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	-	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  
Aur lie 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.

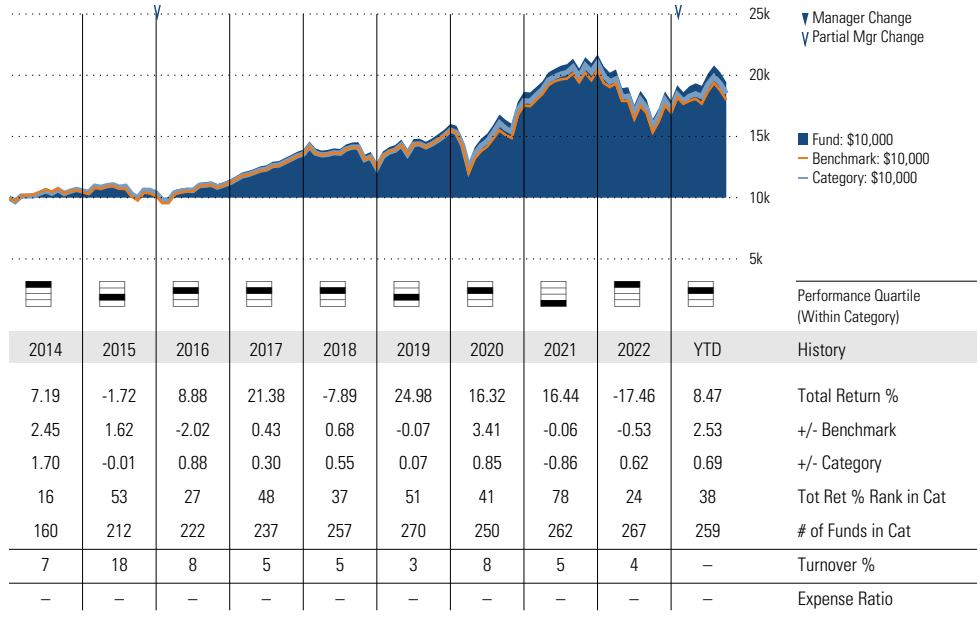
## Morningstar Investment Management LLC Analysis

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.

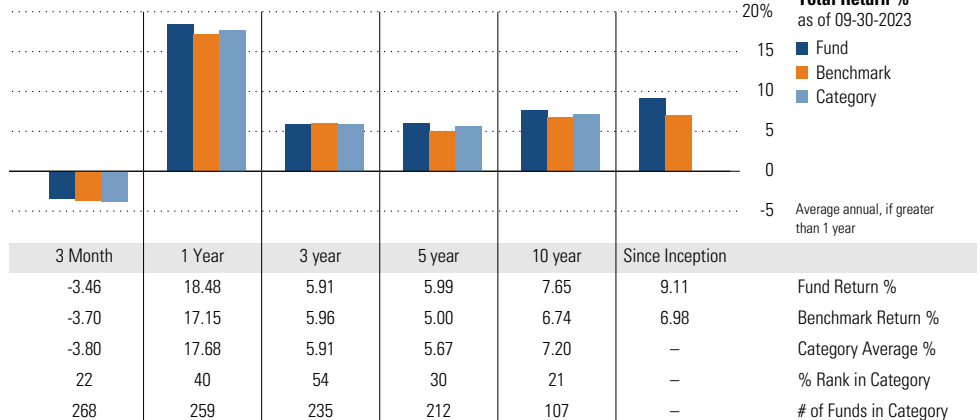
## ESG Metrics

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

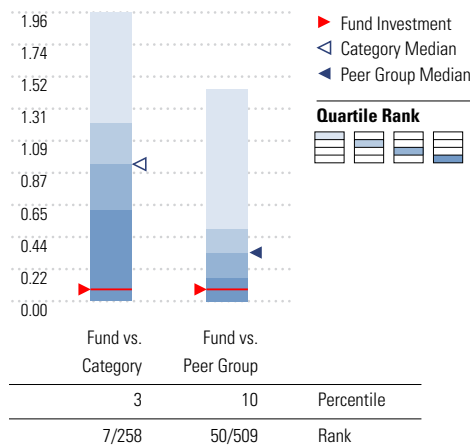
## Growth of \$10,000



## 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

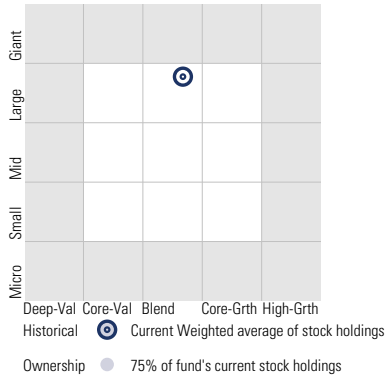
	Fund	Bmark	Cat
Price/Earnings Ratio	17.65	16.51	18.11
Price/Book Ratio	2.48	2.22	2.65
Avg Eff Duration	6.71	-	7.49

# Vanguard Target Retirement 2055 Fund VFFVX

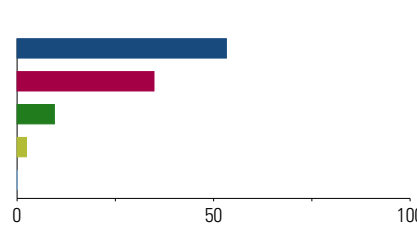
**Morningstar Category**  
Target-Date 2055

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

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

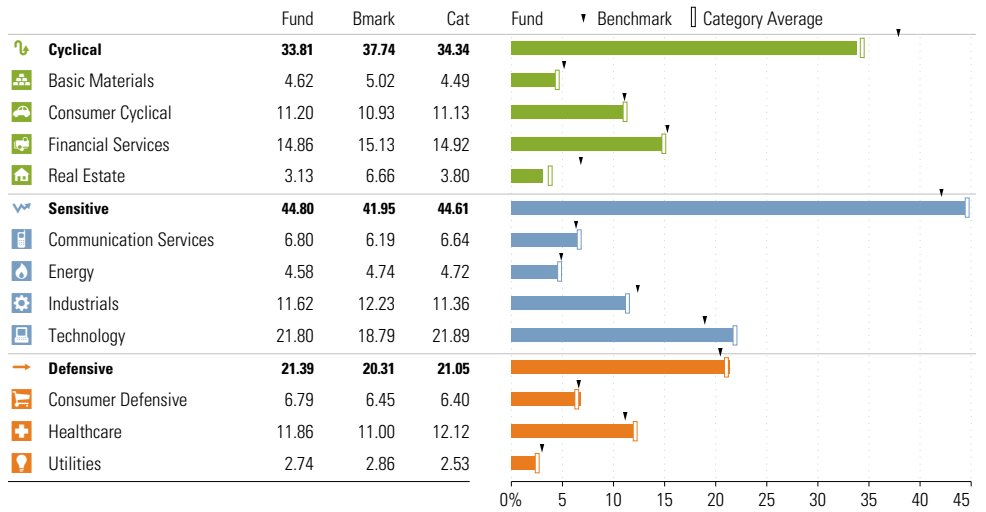


**Asset Allocation** as of 09-30-2023

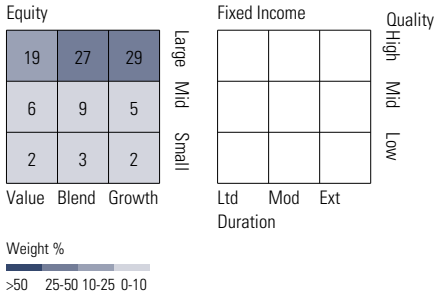


Asset Class	Net %	Cat%
US Stocks	53.25	54.00
Non-US Stocks	34.83	28.85
Bonds	9.48	5.90
Cash	2.39	1.06
Other	0.05	10.20
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**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.

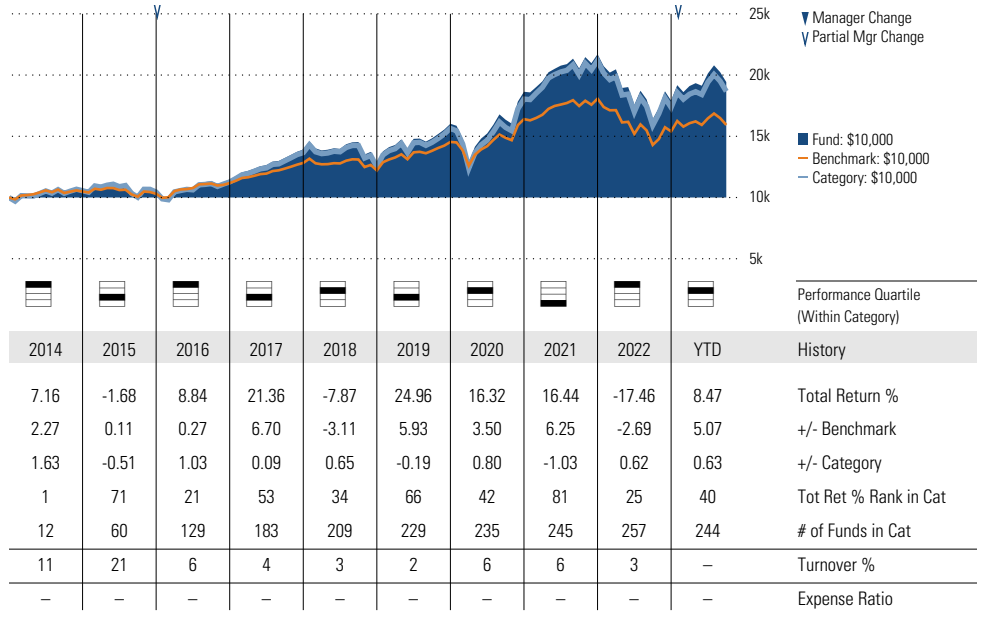
## Morningstar Investment Management LLC Analysis

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.

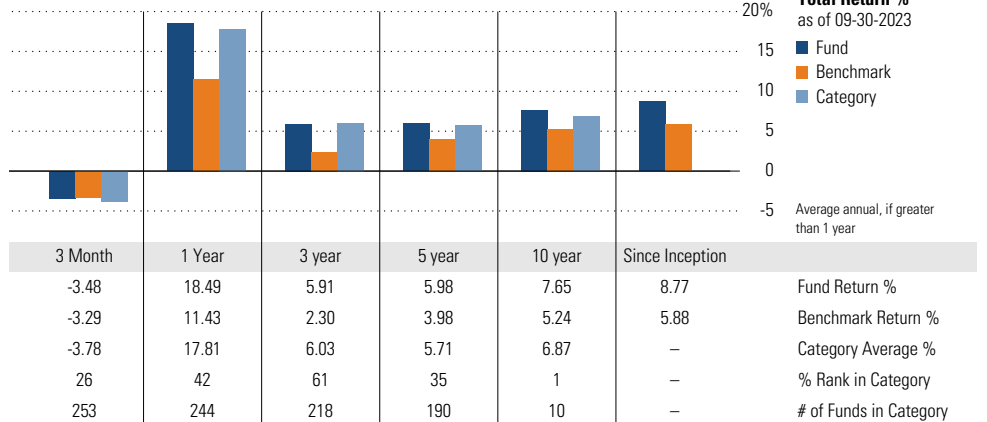
## ESG Metrics

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

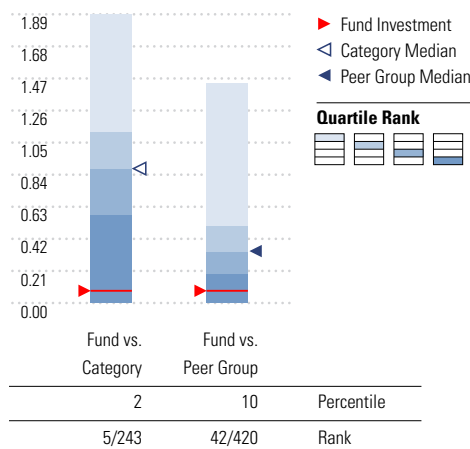
## Growth of \$10,000



## 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

Metric	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

Metric	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

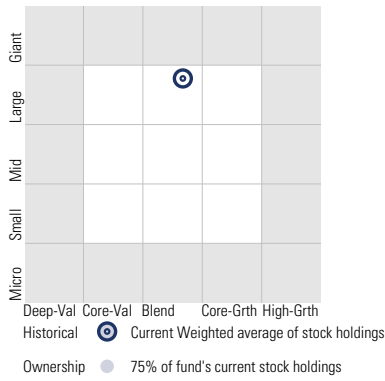
# Vanguard Target Retirement 2060 Fund VTTSX

**Morningstar Category**  
Target-Date 2060

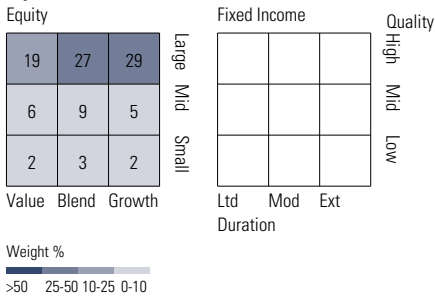
**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Style Analysis as of 09-30-2023

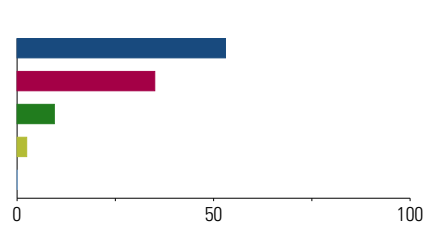
Morningstar Style Box™



## Style Breakdown

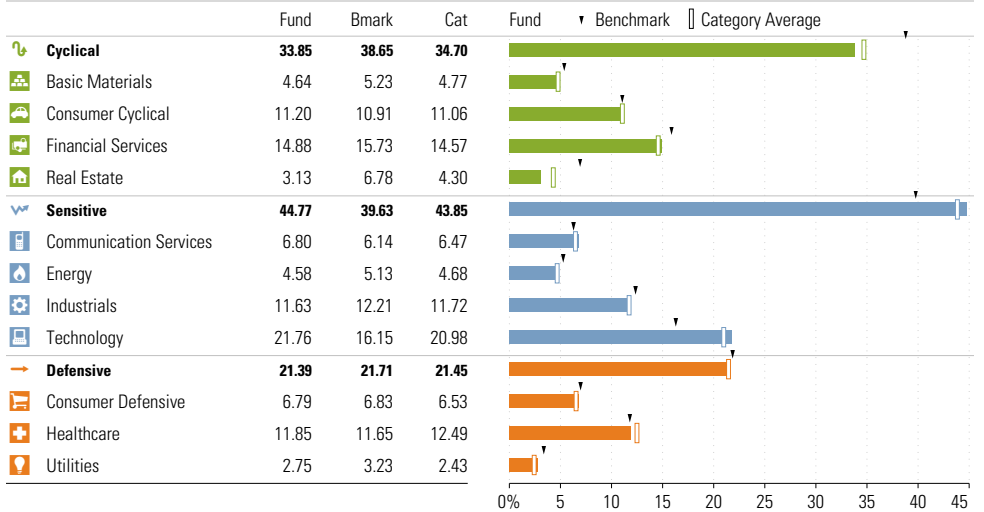


## Asset Allocation as of 09-30-2023



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.

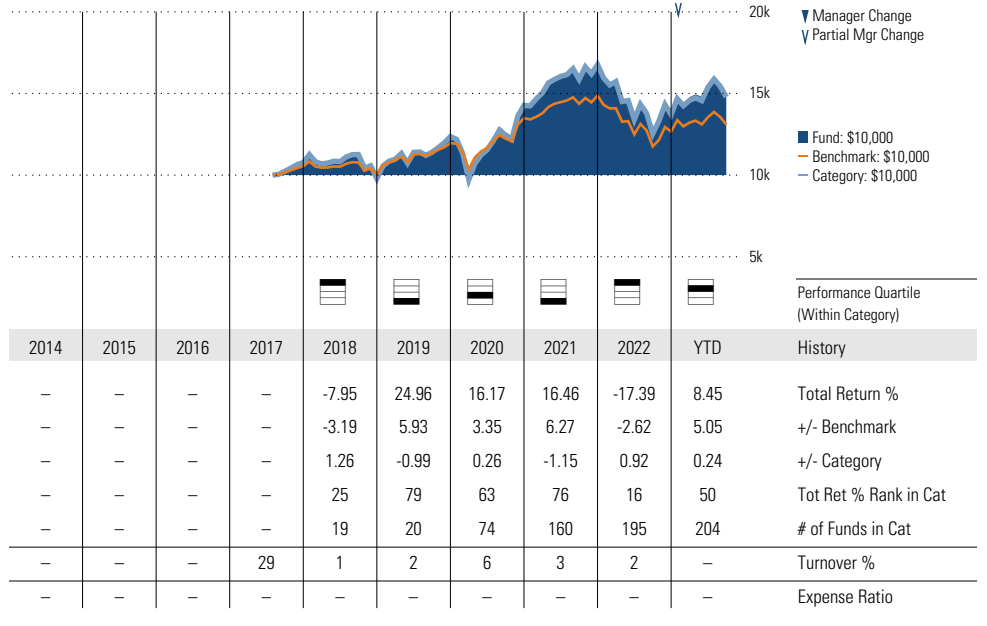
## Morningstar Investment Management LLC Analysis

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.

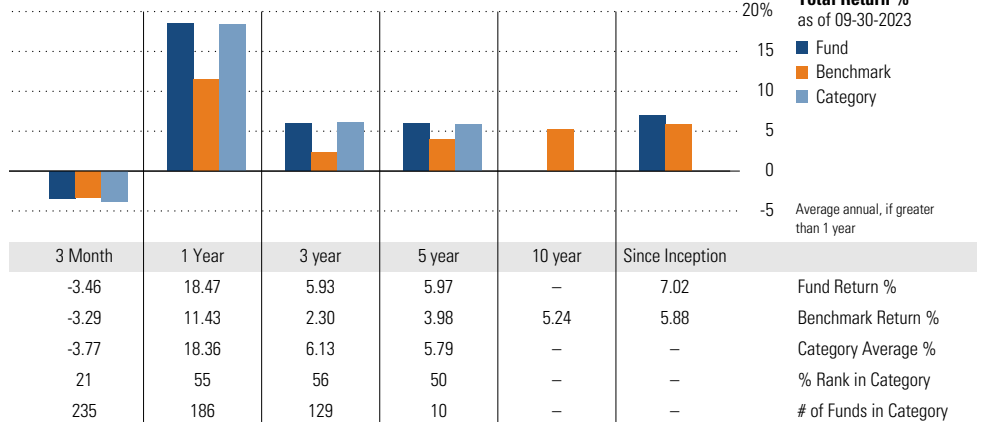
## ESG Metrics

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

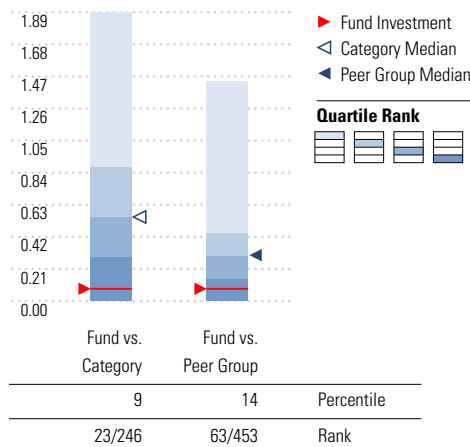
## Growth of \$10,000



## 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	3.14	-	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

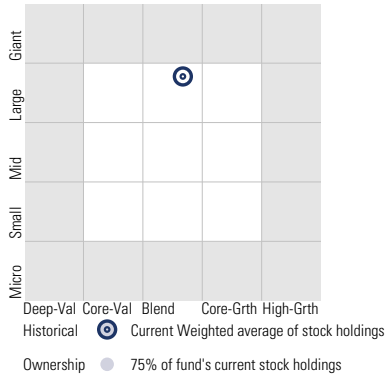
# Vanguard Target Retirement 2065 Fund VLXVX

**Morningstar Category**  
Target-Date 2065+

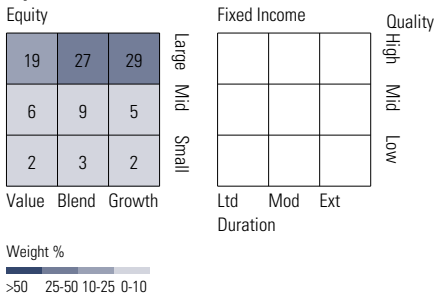
**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Style Analysis as of 09-30-2023

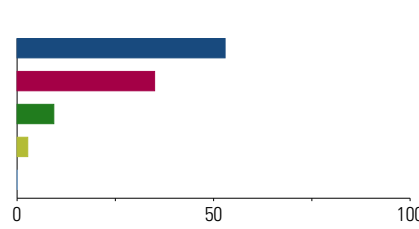
Morningstar Style Box™



## Style Breakdown

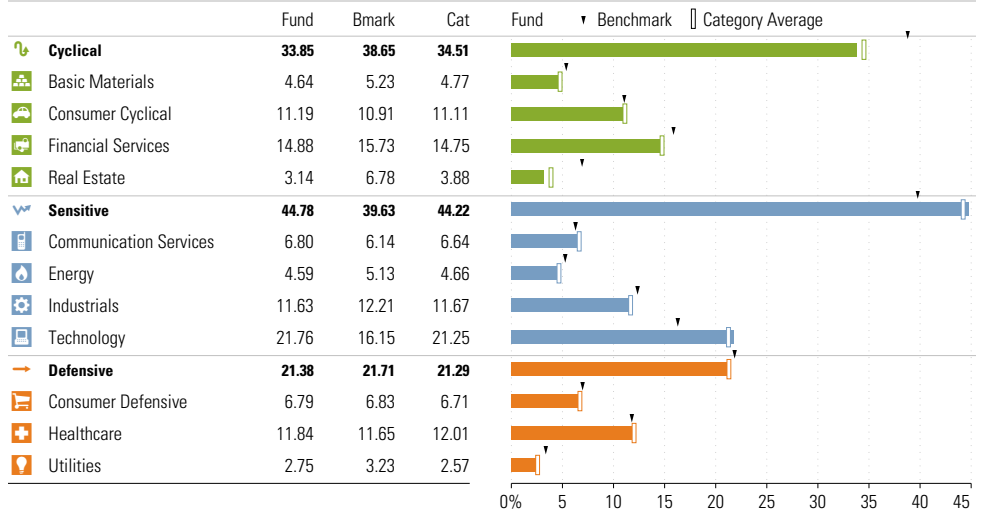


## Asset Allocation as of 09-30-2023



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.

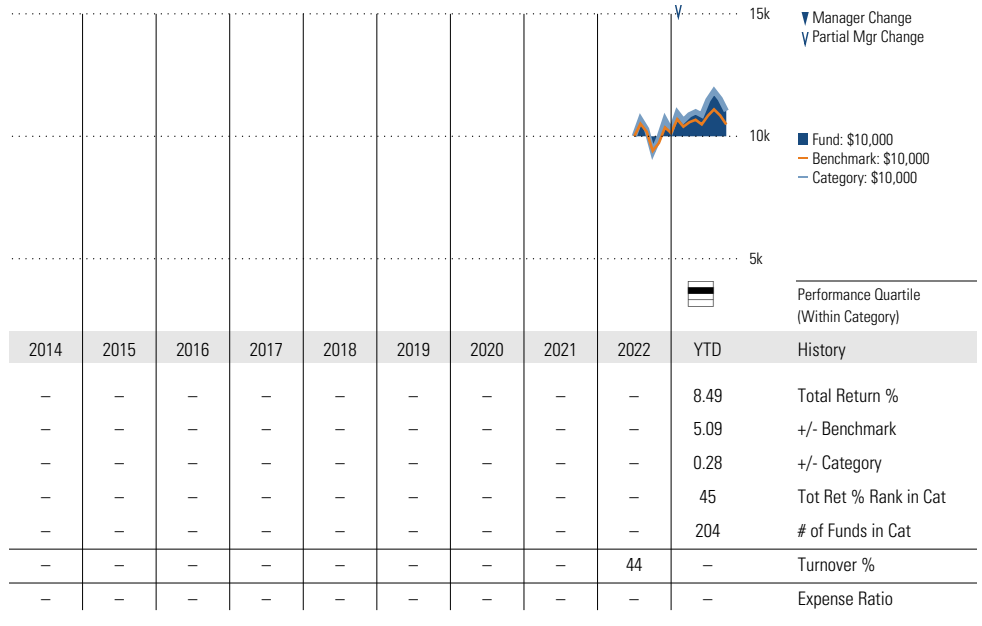
## Morningstar Investment Management LLC Analysis

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

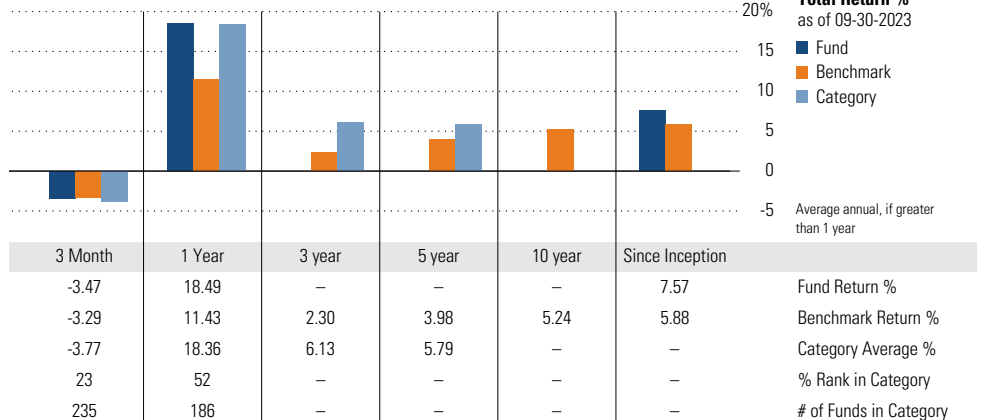
## ESG Metrics

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

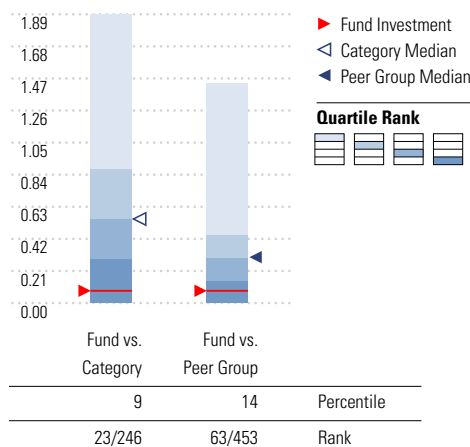
## Growth of \$10,000



## 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

Metric	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

Metric	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

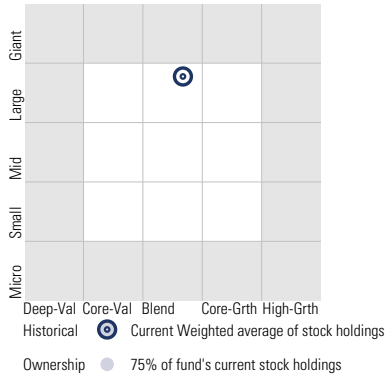
# Vanguard Target Retirement 2070 Fund VSVNX

**Morningstar Category**  
Target-Date 2065+

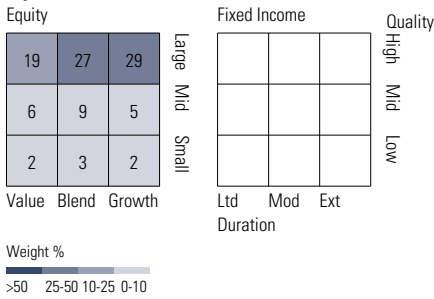
**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Style Analysis as of 09-30-2023

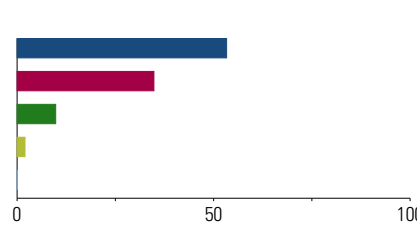
Morningstar Style Box™



## Style Breakdown

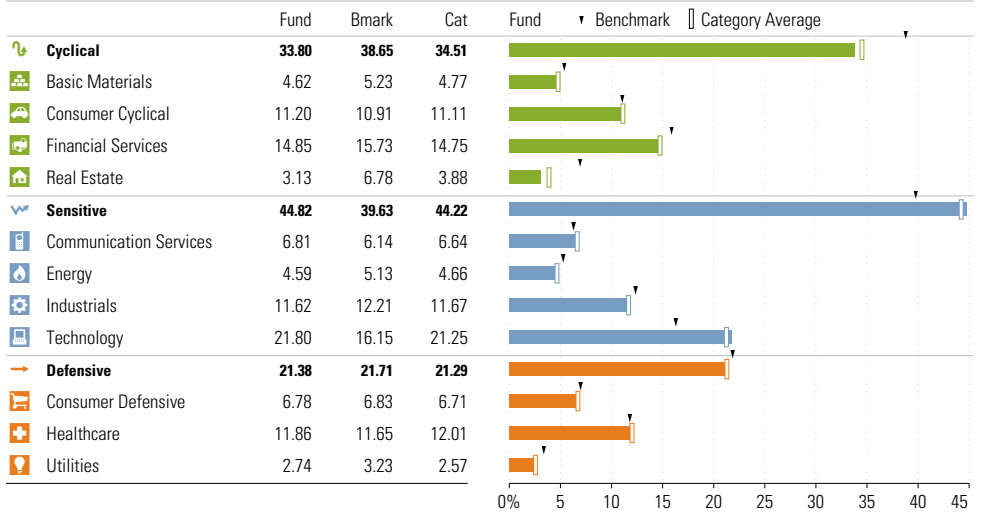


## Asset Allocation as of 09-30-2023



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

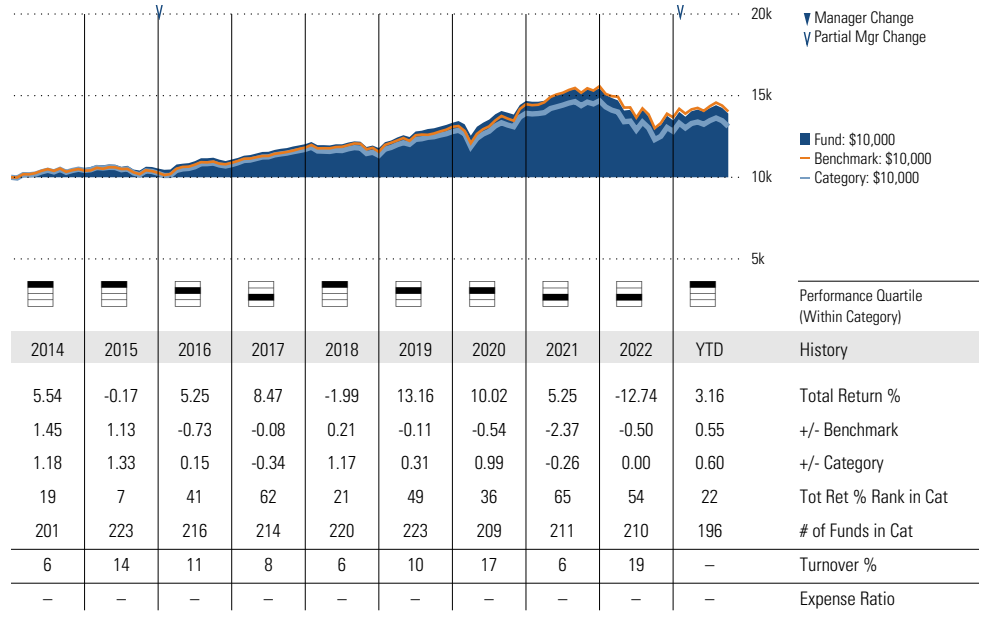
✔ **Performance:** The fund has finished in the Target-Date Retirement category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **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



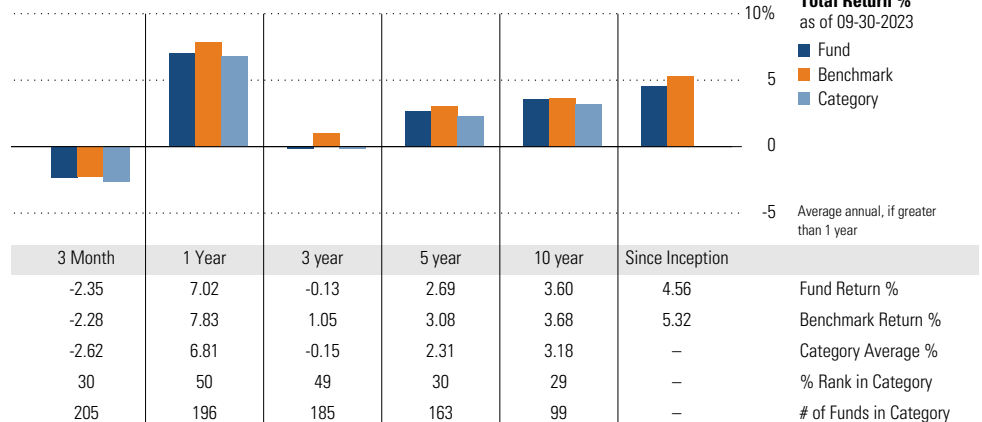
## Morningstar Investment Management LLC Analysis

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.

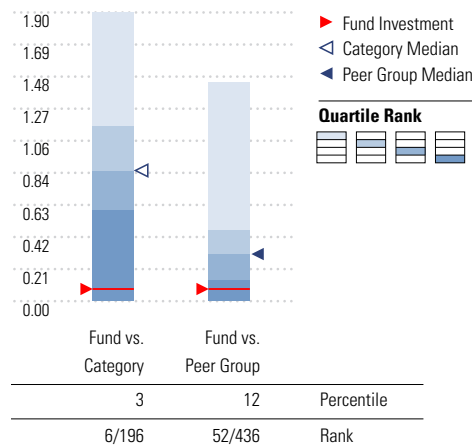
## ESG Metrics

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

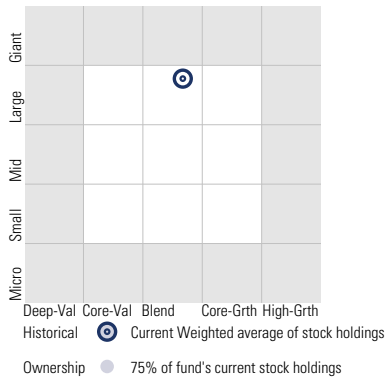
	Fund	Bmark	Cat
Price/Earnings Ratio	17.60	18.00	18.29
Price/Book Ratio	2.47	2.51	2.52
Avg Eff Duration	5.76	-	5.57

# Vanguard Target Retirement Income Fund VTINX

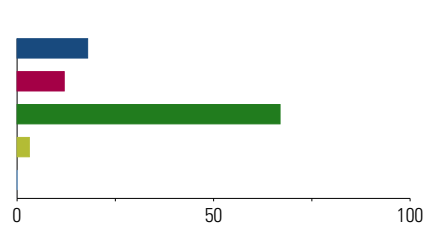
**Morningstar Category**  
Target-Date Retirement

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

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

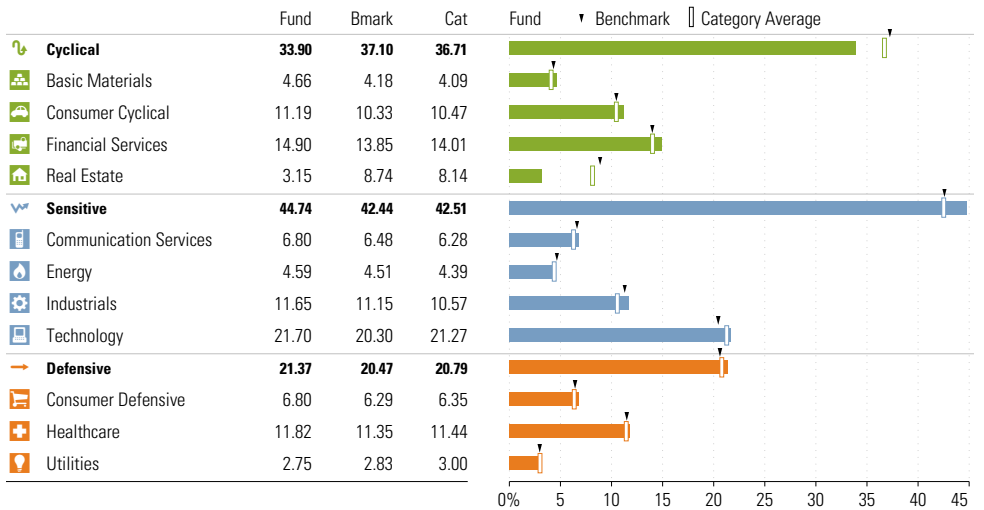


**Asset Allocation** as of 09-30-2023

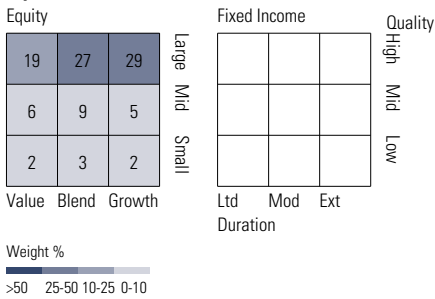


Asset Class	Net %	Cat%
US Stocks	17.95	19.96
Non-US Stocks	11.99	9.84
Bonds	66.91	52.99
Cash	3.11	3.88
Other	0.02	13.34
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**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