

# American Funds Intl Gr and Inc R6 RIGGX

**Morningstar Category**  
Foreign Large Blend

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

## Portfolio Manager(s)

Steven Watson since 10-2008  
 Andrew Suzman since 10-2008  
 Patrice Collette since 09-2010  
 Leo Hee since 07-2015  
 Paul Flynn since 09-2017  
 Michael Cohen since 07-2018  
 Lisa Thompson since 09-2018

## Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 14.75 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 0.54 is 37.93% lower than the Foreign Large Blend 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	2	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

## Trailing Performance



## Net Expense



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

## 3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	1.34	-	0.56
Beta	1.07	-	1.04
R-Squared	96.01	-	93.50
Standard Deviation	18.64	17.05	18.28
Sharpe Ratio	0.47	0.40	0.42
Tracking Error	3.92	-	4.68
Information Ratio	0.46	-	0.18
Up Capture Ratio	110.45	-	106.88
Down Capture Ratio	105.11	-	105.69

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	13.60	13.32	13.48
Price/Book Ratio	1.74	1.69	1.77
Geom Avg Mkt Cap \$B	49.84	43.39	51.74
ROE	20.60	17.67	19.85

# American Funds Intl Gr and Inc R6 RIGGX

**Morningstar Category**  
Foreign Large Blend

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

## Style Analysis as of 06-30-2023

Morningstar Style Box™



## Style Breakdown

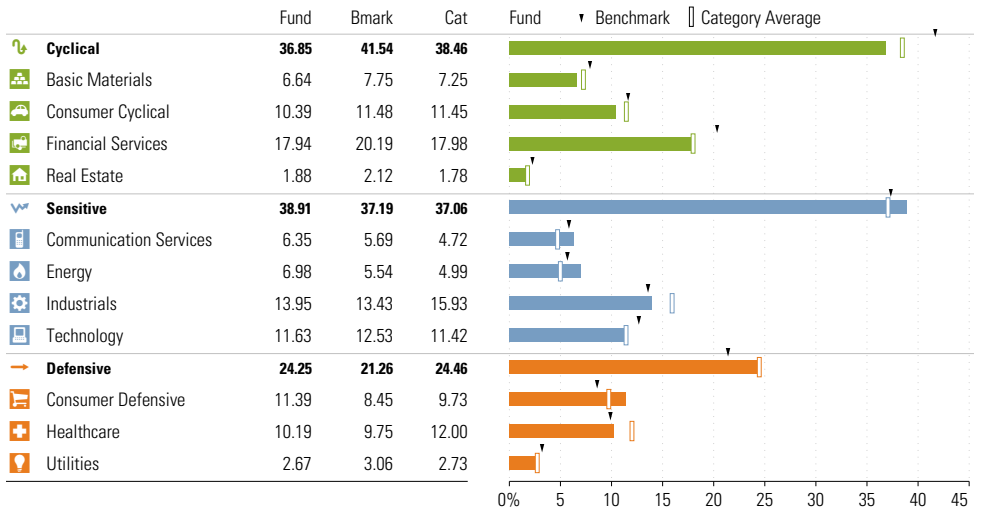


## Asset Allocation as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	5.91	3.13
Non-US Stocks	88.60	94.02
Bonds	0.49	0.19
Cash	4.92	1.26
Other	0.08	1.40
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 06-30-2023



## World Regions % Equity 06-30-2023



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	28.86	35.44	Americas	15.11	8.59	Greater Europe	56.03	55.97	Developed Markets	85.24
Japan	8.35	18.32	North America	10.62	7.30	United Kingdom	13.11	13.49	Emerging Markets	14.76
Australasia	0.49	5.01	Central/Latin	4.49	1.29	W euro-ex UK	41.30	41.42	Not Available	0.00
Asia-4 Tigers	10.67	6.74				Emrgng Europe	0.40	0.07		
Asia-ex 4 Tigers	9.35	5.37				Africa	1.22	0.99		
Not Classified	0.00	0.00								

## Top 10 Holdings as of 06-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Capital Group Central Cash M	4.56	4.56	-	-
AstraZeneca PLC	3.16	7.72	1.97	Healthcare
Taiwan Semiconductor Manufacturing Co Ltd	2.42	10.14	29.65	Technology
ASML Holding NV	2.38	12.52	32.21	Technology
Novo Nordisk A/S Class B	2.29	14.81	18.08	Healthcare
Airbus SE	2.23	17.04	20.84	Industrials
Philip Morris International Inc	2.21	19.24	-1.04	Consumer Defensive
TotalEnergies SE	1.77	21.01	-6.79	Energy
LVMH Moet Hennessy Louis Vuitton SE	1.60	22.61	27.96	Consumer Cyclical
British American Tobacco PLC	1.50	24.10	-18.77	Consumer Defensive

**Total Holdings 273**

⊕ 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  
 Christopher Thomsen since 01-2009  
 Winnie Kwan since 01-2009  
 Tomonori Tani since 10-2013  
 Jonathan Knowles since 01-2016  
 Bradford Freer since 01-2017  
 Akira Shiraishi 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 24.05 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.

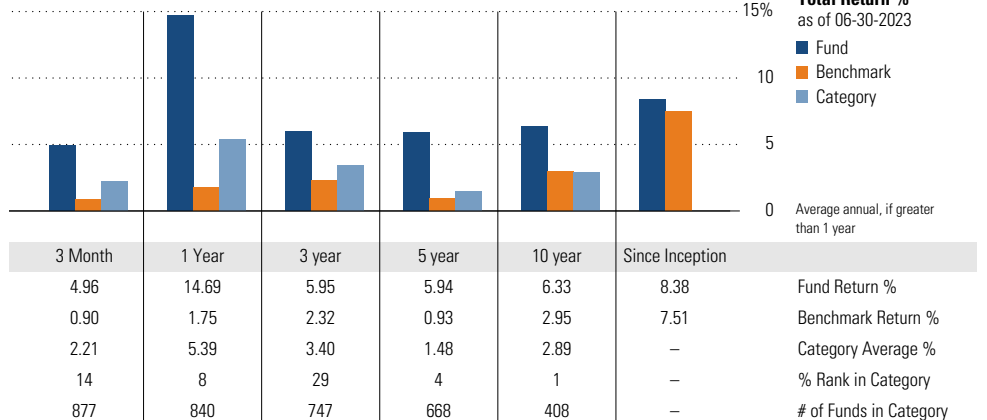
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
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

Metric	Fund	Bmark	Cat
Alpha	3.96	-	0.46
Beta	0.85	-	0.97
R-Squared	78.63	-	87.17
Standard Deviation	17.16	17.90	18.62
Sharpe Ratio	0.33	0.13	0.15
Tracking Error	8.38	-	6.47
Information Ratio	0.43	-	0.01
Up Capture Ratio	96.76	-	100.12
Down Capture Ratio	80.67	-	99.16

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	18.17	11.97	13.15
Price/Book Ratio	2.98	1.58	1.85
Geom Avg Mkt Cap \$B	59.03	35.41	43.06
ROE	22.42	16.67	18.25

# American Funds New World R6 RNWGX

**Morningstar Category**  
Diversified Emerging Mkts

**Morningstar Index**  
MSCI EM NR USD

## Style Analysis as of 06-30-2023

Morningstar Style Box™



## Style Breakdown

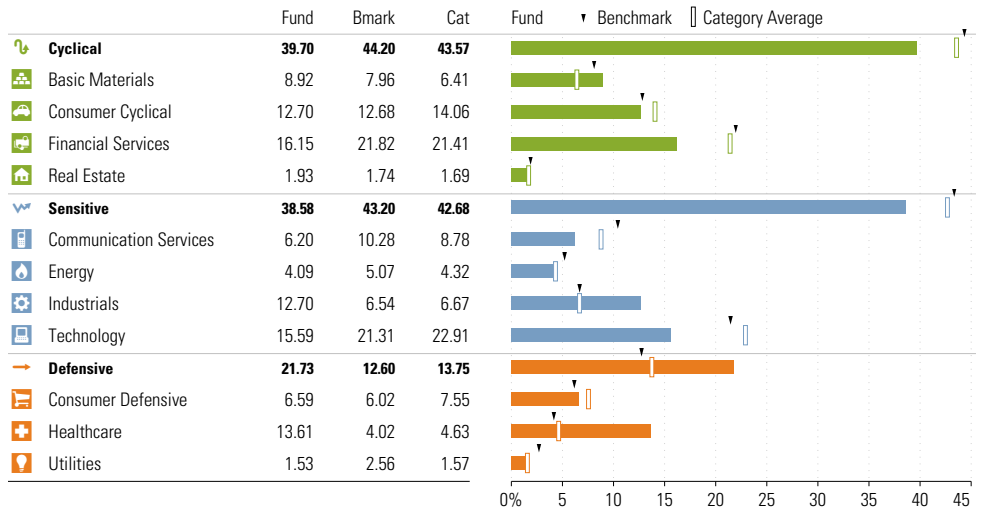


## Asset Allocation as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	22.73	3.10
Non-US Stocks	68.10	94.98
Bonds	3.75	0.01
Cash	4.99	1.75
Other	0.43	0.16
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 06-30-2023



## World Regions % Equity 06-30-2023



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	38.48	75.24	Americas	36.40	14.67	Greater Europe	25.12	10.08	Developed Markets	59.04
Japan	2.51	0.10	North America	26.68	2.91	United Kingdom	2.38	0.63	Emerging Markets	40.96
Australasia	0.46	0.00	Central/Latin	9.72	11.76	W euro-ex UK	20.00	1.89	Not Available	0.00
Asia-4 Tigers	6.81	27.46				Emrgng Europe	0.59	1.41		
Asia-ex 4 Tigers	28.70	47.68				Africa	2.15	6.15		
Not Classified	0.00	0.00								

## Top 10 Holdings as of 06-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Capital Group Central Cash Fund	4.81	4.81	-	-
Microsoft Corp	2.91	7.72	42.57	Technology
Novo Nordisk A/S Class B	2.17	9.89	18.08	Healthcare
Taiwan Semiconductor Manufacturing Co Ltd	2.02	11.91	29.65	Technology
LVMH Moet Hennessy Louis Vuitton SE	1.82	13.72	27.96	Consumer Cyclical
Kotak Mahindra Bank Ltd	1.61	15.33	1.06	Financial Services
Airbus SE	1.55	16.88	20.84	Industrials
Eli Lilly and Co	1.26	18.13	28.81	Healthcare
Reliance Industries Ltd	1.16	19.30	0.12	Energy
AIA Group Ltd	1.12	20.42	-7.56	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
- Mark Casey since 07-2016
- Emme Kozloff since 07-2016

## Quantitative Screens

- Performance:** The fund has finished in the Large Blend 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 26.01 years.
- Style:** The fund has landed in its primary style box — Large Blend — 40 % of the time over the past three years.
- Net Expense:** The fund's expense ratio of 0.27 is 64.47% lower than the Large Blend category average.

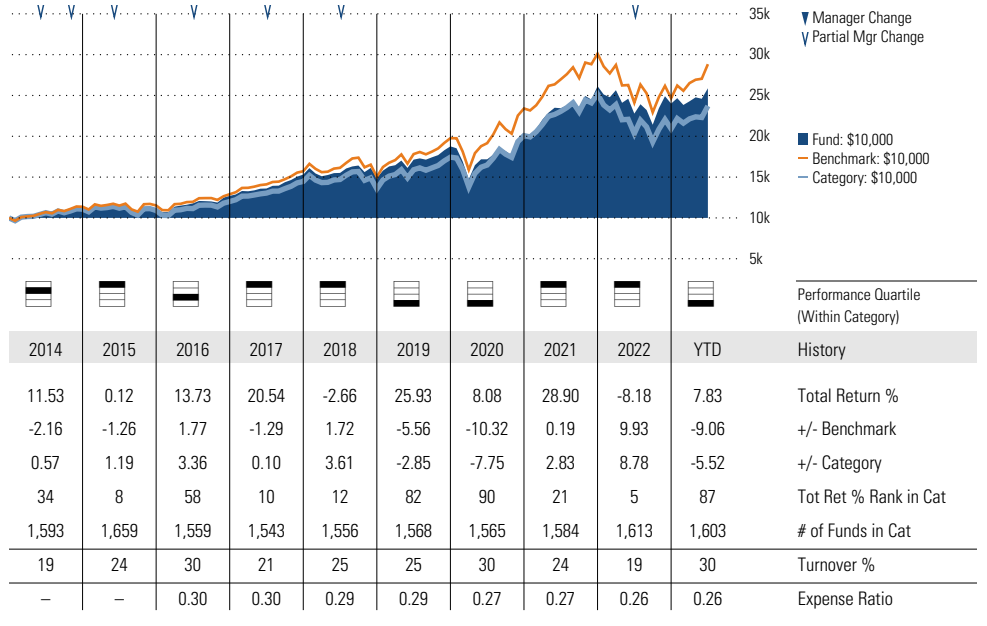
## Morningstar Investment Management LLC Analysis

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.

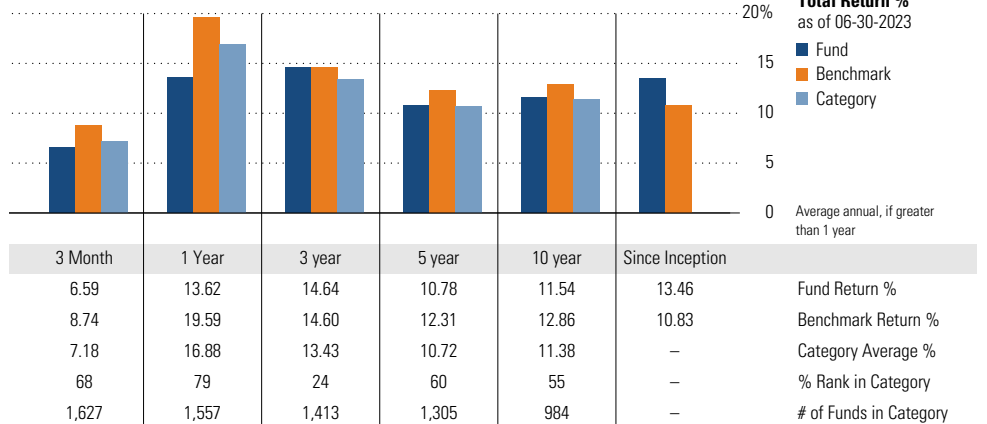
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

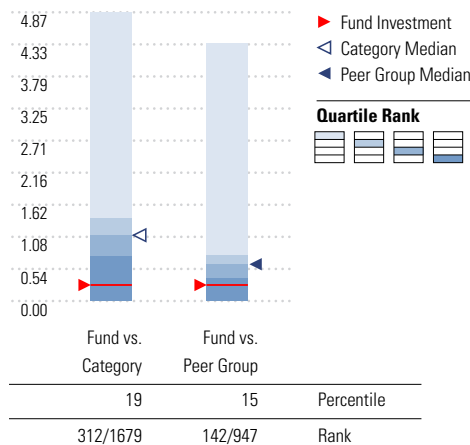
## Growth of \$10,000



## 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	2.34	-	-0.66
Beta	0.82	-	0.94
R-Squared	89.99	-	94.49
Standard Deviation	15.77	18.19	17.67
Sharpe Ratio	0.84	0.75	0.68
Tracking Error	5.94	-	3.87
Information Ratio	0.01	-	-1.22
Up Capture Ratio	87.90	-	92.67
Down Capture Ratio	80.42	-	95.01

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	19.42	22.84	21.76
Price/Book Ratio	3.61	4.02	4.30
Geom Avg Mkt Cap \$B	152.24	223.20	261.92
ROE	29.65	29.42	28.63

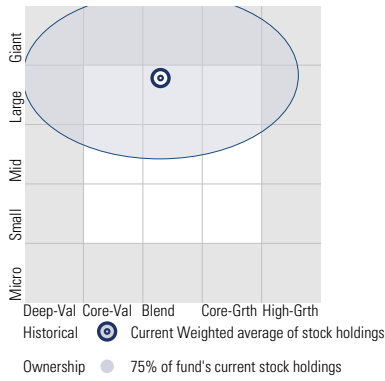
# American Funds Washington Mutual R6 RWMGX

**Morningstar Category**  
Large Blend

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

## Style Analysis as of 06-30-2023

Morningstar Style Box™



## Style Breakdown

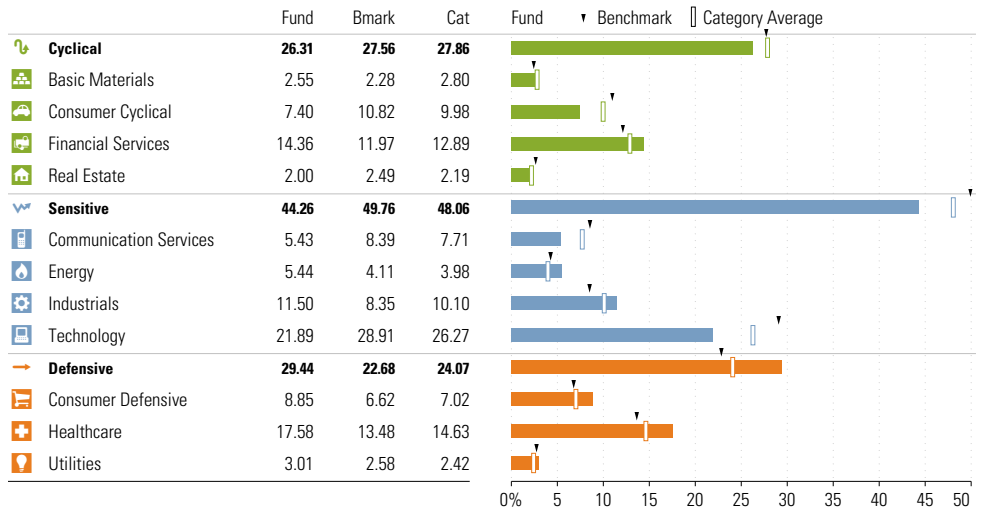


## Asset Allocation as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	88.86	94.95
Non-US Stocks	7.01	2.96
Bonds	0.00	0.16
Cash	4.07	0.86
Other	0.07	1.05
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 06-30-2023



## Top 15 Holdings as of 06-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Broadcom Inc	6.43	6.43	56.78	Technology
⊖ Microsoft Corp	6.19	12.62	42.57	Technology
⊕ Capital Group Central Cash Fund	4.02	16.64	-	-
⊖ UnitedHealth Group Inc	3.24	19.88	-8.68	Healthcare
⊖ Comcast Corp Class A	2.68	22.55	20.42	Communication Svc
Marsh & McLennan Companies Inc	2.51	25.06	14.37	Financial Services
⊖ Eli Lilly and Co	1.98	27.04	28.81	Healthcare
⊕ Northrop Grumman Corp	1.80	28.84	-15.80	Industrials
⊖ The Home Depot Inc	1.75	30.59	-0.33	Consumer Cyclical
⊕ Philip Morris International Inc	1.70	32.29	-1.04	Consumer Defensive
Apple Inc	1.60	33.89	49.65	Technology
⊕ Johnson & Johnson	1.56	35.45	-4.99	Healthcare
⊕ JPMorgan Chase & Co	1.40	36.86	9.95	Financial Services
⊕ ASML Holding NV ADR	1.23	38.09	33.25	Technology
⊖ AstraZeneca PLC ADR	1.20	39.29	7.01	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 22.76 years.

Style Consistency is not calculated for Fixed Income funds.

**Net Expense:** The fund's expense ratio of 0.3 is 45.45% 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	05-31-2023
ESG Commitment	1-Low	02-15-2022

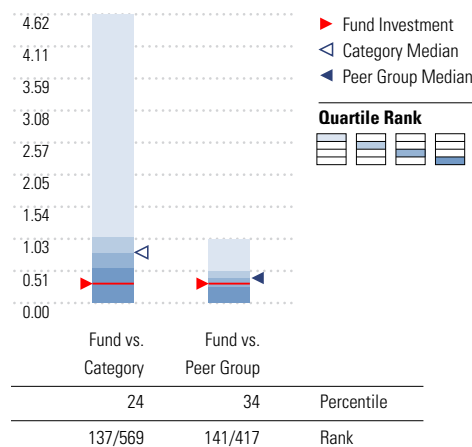
## Growth of \$10,000



## 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	0.34	-	0.13
Beta	1.01	-	0.98
R-Squared	99.42	-	96.63
Standard Deviation	6.27	6.17	6.16
Sharpe Ratio	-0.83	-0.89	-0.86
Tracking Error	0.49	-	1.01
Information Ratio	0.56	-	-0.01
Up Capture Ratio	103.64	-	98.61
Down Capture Ratio	99.44	-	97.19

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	6.31	4.43	6.10
Avg Eff Maturity	8.44	-	8.59

# Baird Aggregate Bond Inst BAGIX

**Morningstar Category**  
Intermediate Core Bond

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

**Style Analysis** as of 06-30-2023

**Style Breakdown**



**Asset Allocation** as of 06-30-2023

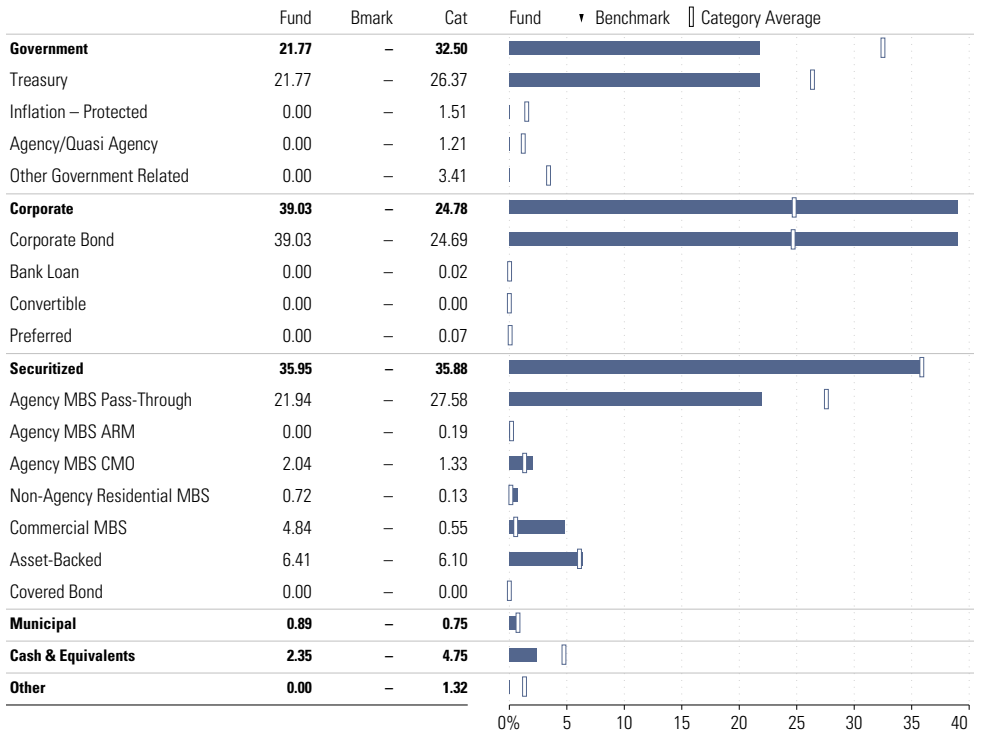


Asset Class	Net %	Cat%
US Stocks	0.00	0.18
Non-US Stocks	0.00	0.01
Bonds	97.56	96.37
Cash	2.35	2.44
Other	0.09	0.99
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Credit Rating Breakdown**

	Fund	Bmark	Cat
AAA	59.70	3.53	51.91
AA	3.80	74.59	10.82
A	13.10	10.82	23.19
BBB	23.20	8.32	12.64
BB	0.20	0.28	0.44
B	0.00	0.00	0.25
Below B	0.00	0.00	0.08
Not Rated	0.00	2.46	0.67

**Sector Weighting** as of 06-30-2023



**Top 10 Holdings** as of 06-30-2023

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

**Total Holdings 1710**

⊕ Increase ⊖ Decrease ✱ New to Portfolio



# 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 6.5 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.

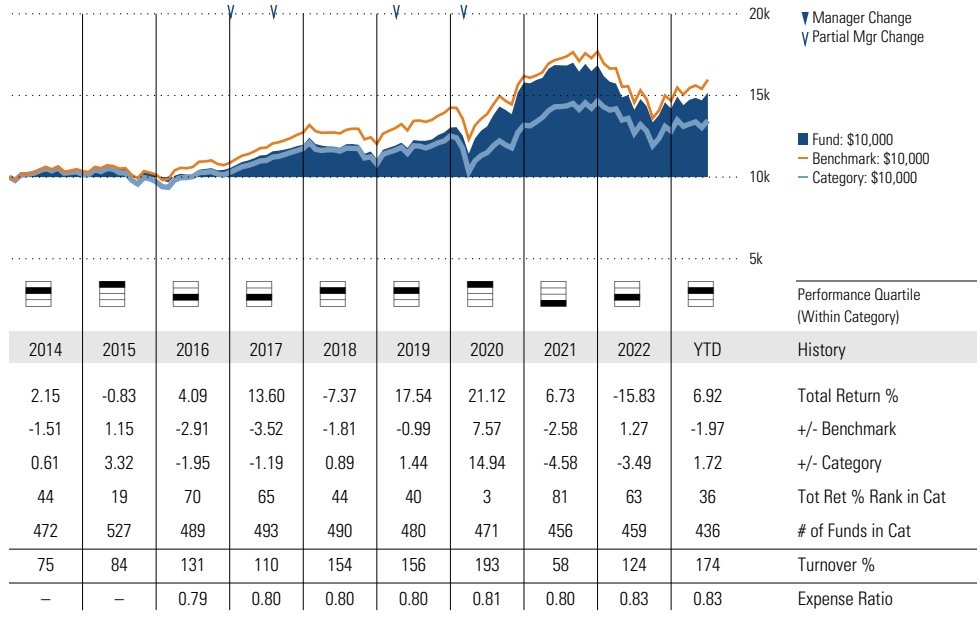
## Morningstar Investment Management LLC Analysis

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.

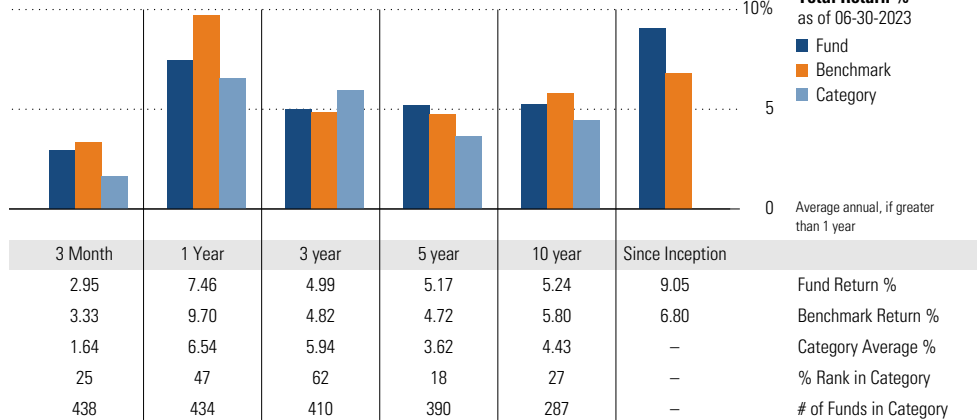
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
Carbon Risk Score	Low Risk	09-30-2022

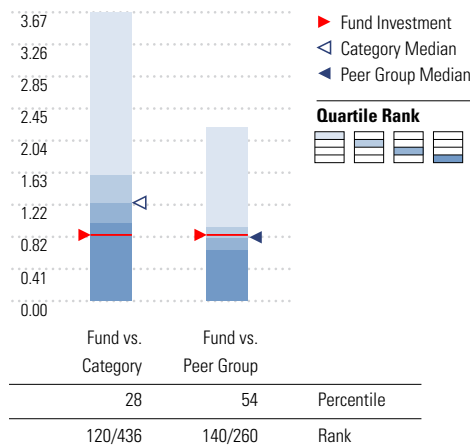
## Growth of \$10,000



## 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

	Fund	Bmark	Cat
Alpha	0.29	-	1.40
Beta	0.97	-	0.93
R-Squared	97.22	-	87.46
Standard Deviation	12.70	12.89	12.86
Sharpe Ratio	0.32	0.31	0.38
Tracking Error	2.15	-	4.44
Information Ratio	0.08	-	0.15
Up Capture Ratio	97.77	-	99.51
Down Capture Ratio	96.17	-	92.91

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	17.55	17.25	14.90
Price/Book Ratio	2.87	2.45	2.02
Avg Eff Duration	3.90	-	3.42

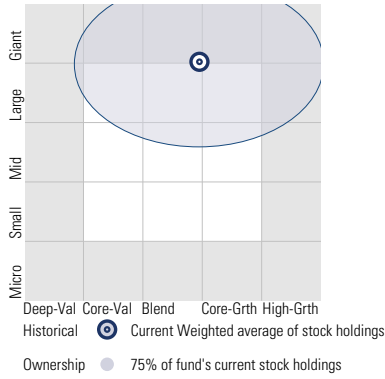
# BlackRock Global Allocation Instl MALOX

**Morningstar Category**  
Global Allocation

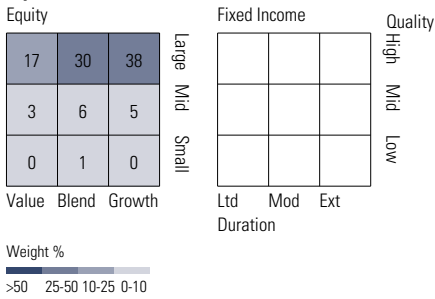
**Morningstar Index**  
Morningstar Gbl Allocation TR USD

## Style Analysis as of 06-30-2023

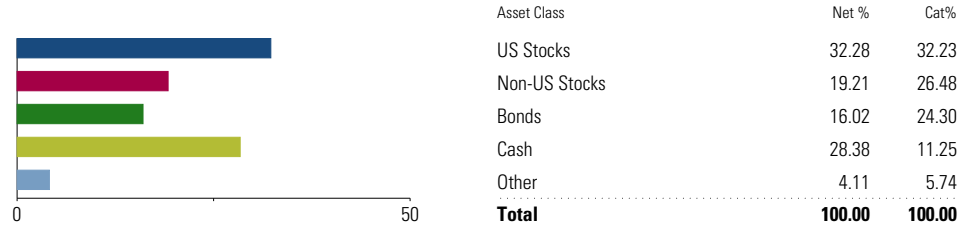
Morningstar Style Box™



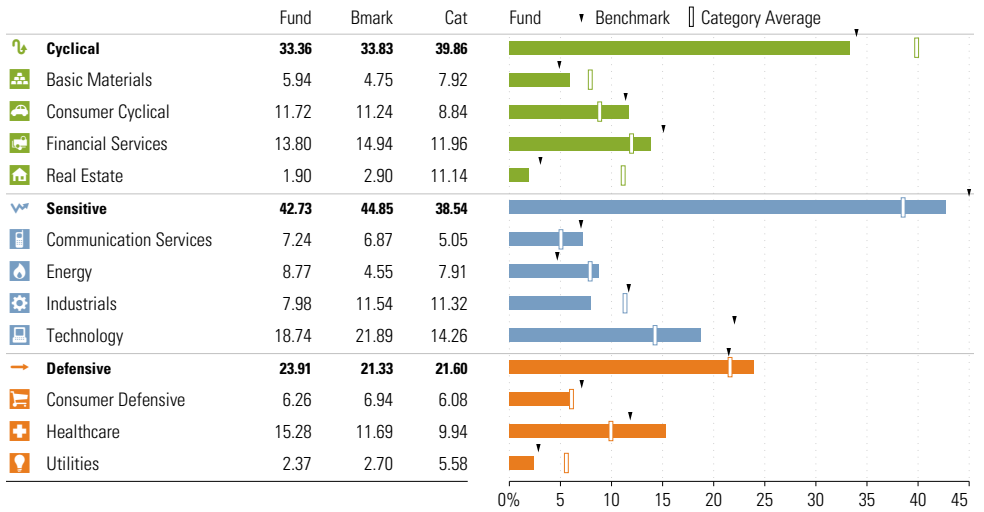
## Style Breakdown



## Asset Allocation as of 06-30-2023



## Sector Weighting as of 06-30-2023



## Top 10 Holdings as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Ois 02-May-2025 Pay	05-2025	9.52	9.52	--	--
⊕ 2.720000 02-May-2025 Receive	05-2025	9.25	18.77	--	--
⊕ Ois 02-May-2024 Pay	05-2024	8.01	26.78	--	--
⊕ 2.650000 02-May-2024 Receive	05-2024	7.82	34.60	--	--
⊕ 4.457500 12-Jul-2024 Receive	07-2024	4.68	39.27	--	--
⊕ Ois 12-Jul-2024 Pay	07-2024	4.67	43.95	--	--
⊕ Ois 02-May-2032 Pay	05-2032	4.34	48.29	--	--
⊕ Japan (Government Of)	03-2023	4.31	52.60	--	--
⊕ 2.650000 02-May-2032 Receive	05-2032	4.15	56.75	--	--
⊕ Ois 02-May-2052 Pay	05-2052	2.98	59.74	--	--

## Total Holdings 2292

⊕ 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 6.38 years.

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.56 is 5.08% lower than the Inflation-Protected Bond category average.

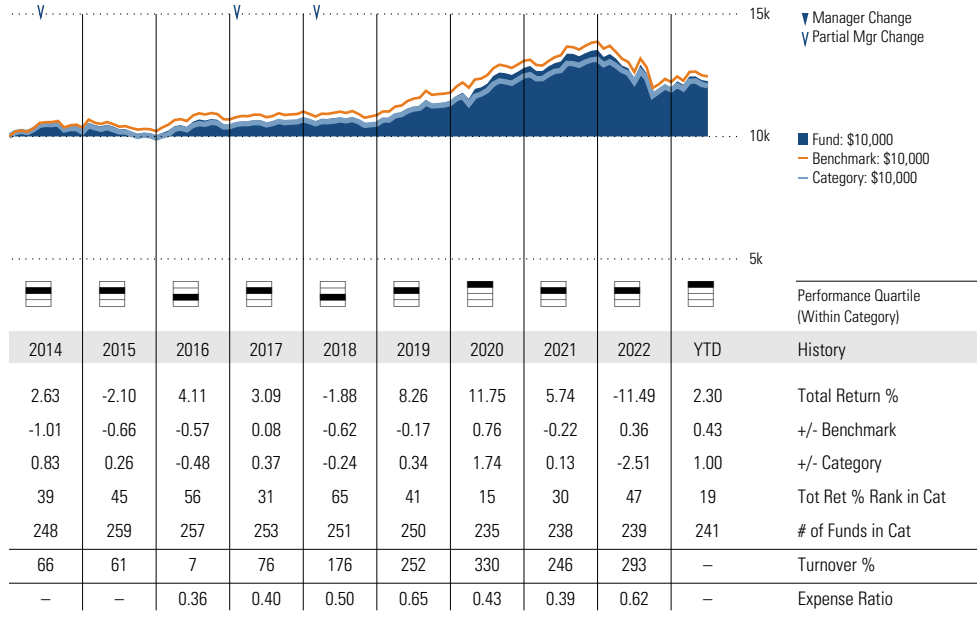
## Morningstar Investment Management LLC Analysis

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.

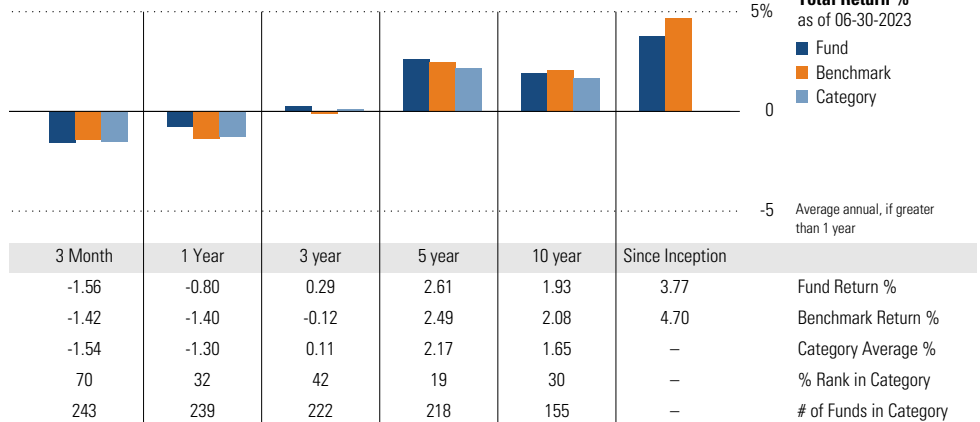
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	09-30-2022

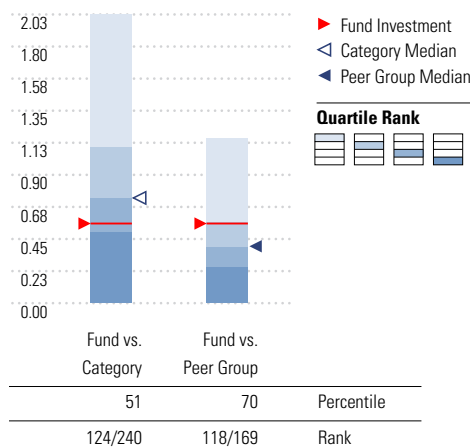
## Growth of \$10,000



## 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

	Fund	Bmark	Cat
Alpha	0.42	-	0.39
Beta	1.02	-	0.90
R-Squared	99.23	-	93.20
Standard Deviation	7.13	6.94	6.45
Sharpe Ratio	-0.15	-0.21	-0.12
Tracking Error	0.65	-	1.94
Information Ratio	0.63	-	-0.10
Up Capture Ratio	102.61	-	90.88
Down Capture Ratio	98.09	-	86.78

## Portfolio Metrics

	Fund	Bmark	Cat
Avg Eff Duration	6.39	4.52	5.61
Avg Eff Maturity	8.56	-	6.56

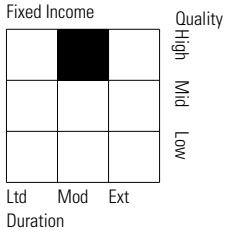
# BlackRock Inflation Protected Bond Instl BPRIX

**Morningstar Category**  
Inflation-Protected Bond

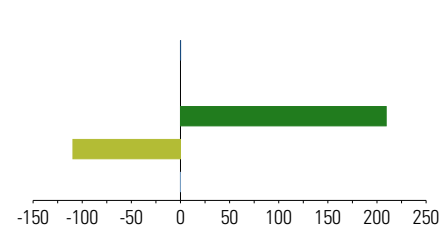
**Morningstar Index**  
Bloomberg US Treasury US TIPS TR USD

## Style Analysis as of 06-30-2023

### Style Breakdown



## Asset Allocation as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	0.13	0.02
Non-US Stocks	0.00	-0.02
Bonds	209.37	99.25
Cash	-109.45	0.58
Other	-0.03	0.17
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	96.97	0.00	93.28
AA	0.09	99.60	0.25
A	0.17	0.00	0.78
BBB	0.38	0.00	1.38
BB	0.02	0.00	1.75
B	0.04	0.00	1.27
Below B	0.02	0.00	0.40
Not Rated	2.31	0.40	0.89

## Sector Weighting as of 06-30-2023



## Top 10 Holdings as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊖ Barclays Capital Us Tips Index (Se	-	100.38	100.38	-
⊕ Barclays Capital Us Tips Index (Se	-	100.38	200.77	-
✱ Cash Offset	-	97.91	298.68	-
⊕ Three-Month Sofr Future Mar 24	-	69.67	368.34	-
⊖ Three-Month Sofr Future Jun 24	-	24.85	393.19	-
⊕ Oct23 Sfrz3 P @ 95.625	-	21.71	414.90	-
⊖ Oct23 Sfrz3 P @ 95.375	-	20.54	435.45	-
⊖ Oct23 Sfrz3 P @ 95.25	-	11.89	447.33	-
⊕ Oct23 Sfrz3 P @ 95	-	10.63	457.96	-
⊖ Three Month SONIA Index Future June 24	09-2024	8.46	466.42	-

**Total Holdings 328**

⊕ Increase ⊖ Decrease ✱ New to Portfolio

# Delaware Small Cap Value Instl DEVIX

**Morningstar Category**  
Small Value

**Morningstar Index**  
Russell 2000 Value TR USD

## Portfolio Manager(s)

Steven Catricks since 07-2012  
Kelley Carabasi since 07-2012  
Kent Madden since 07-2012  
Michael Foley since 07-2019

## Quantitative Screens

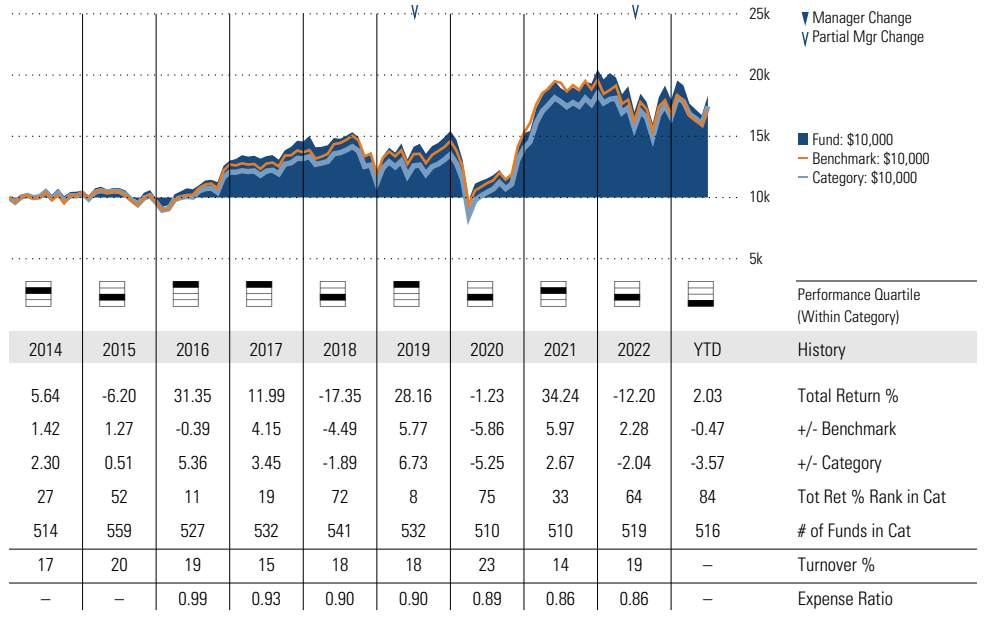
✔ **Performance:** The fund has finished in the Small Value category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 11 years.

✔ **Style:** The fund has landed in its primary style box — Small Value — 96.77 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.86 is 23.21% lower than the Small Value category average.

## Growth of \$10,000



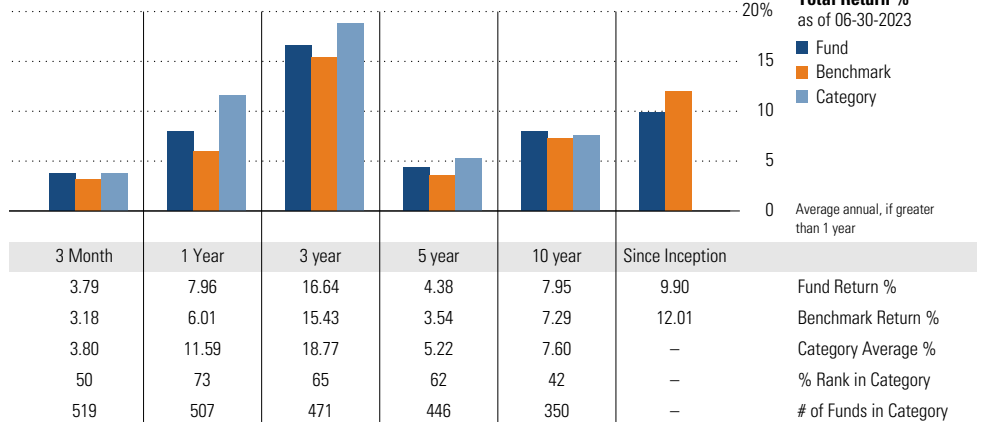
## Morningstar Investment Management LLC Analysis

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.

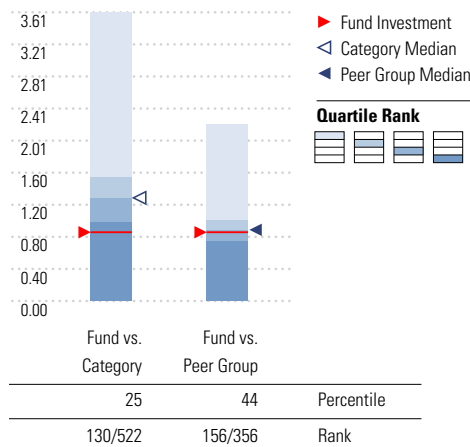
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

## 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	1.51	-	3.22
Beta	0.98	-	0.95
R-Squared	93.95	-	93.19
Standard Deviation	22.82	22.66	22.34
Sharpe Ratio	0.72	0.67	0.79
Tracking Error	5.64	-	5.93
Information Ratio	0.22	-	0.50
Up Capture Ratio	101.14	-	100.18
Down Capture Ratio	97.58	-	90.57

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	10.99	8.49	10.20
Price/Book Ratio	1.54	1.20	1.45
Geom Avg Mkt Cap \$B	4.20	1.80	4.13
ROE	17.24	7.82	16.17

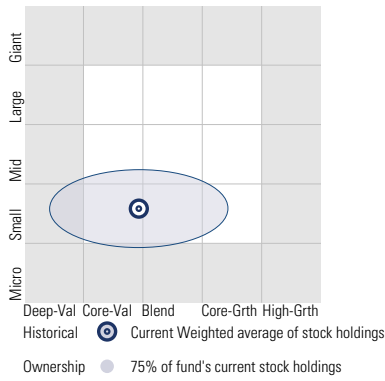
# Delaware Small Cap Value Instl DEVIX

**Morningstar Category**  
Small Value

**Morningstar Index**  
Russell 2000 Value TR USD

## Style Analysis as of 06-30-2023

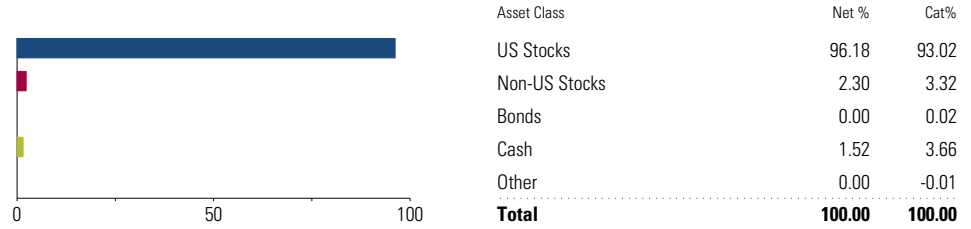
Morningstar Style Box™



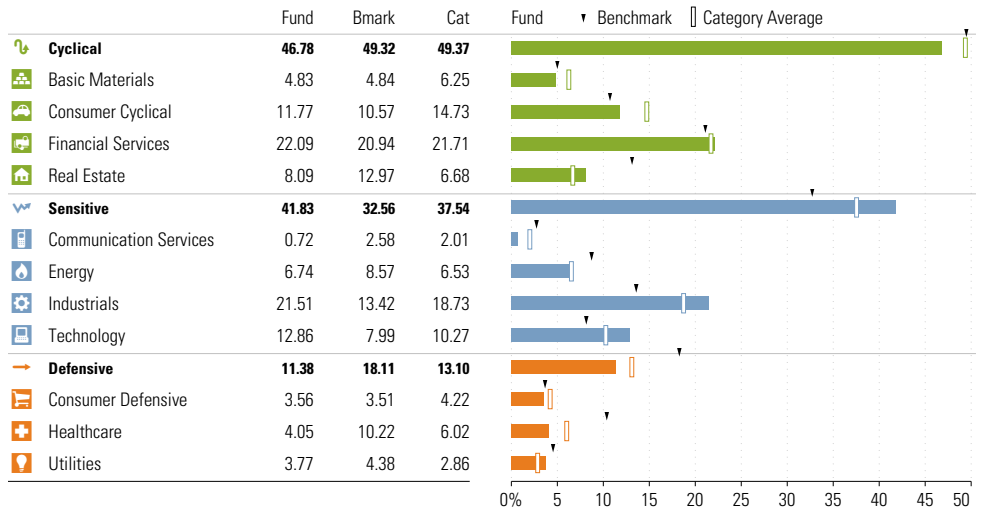
## Style Breakdown



## Asset Allocation as of 06-30-2023



## Sector Weighting as of 06-30-2023



## Top 15 Holdings as of 06-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Atkore Inc	2.26	2.26	37.49	Industrials
MasTec Inc	2.11	4.37	38.25	Industrials
ITT Inc	1.78	6.15	15.65	Industrials
Stifel Financial Corp	1.60	7.75	3.46	Financial Services
Hancock Whitney Corp	1.53	9.28	-19.45	Financial Services
Flex Ltd	1.51	10.79	28.80	Technology
Webster Financial Corp	1.47	12.25	-18.57	Financial Services
Meritage Homes Corp	1.43	13.69	54.89	Consumer Cyclical
Louisiana-Pacific Corp	1.41	15.10	27.47	Industrials
F N B Corp	1.40	16.51	-10.50	Financial Services
Power Integrations Inc	1.37	17.88	32.53	Technology
Berry Global Group Inc	1.35	19.23	7.30	Consumer Cyclical
KBR Inc	1.35	20.58	23.73	Industrials
Valley National Bancorp	1.32	21.90	-29.53	Financial Services
H.B. Fuller Co	1.29	23.19	0.40	Basic Materials

**Total Holdings 107**

⊕ 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 25.99 years.

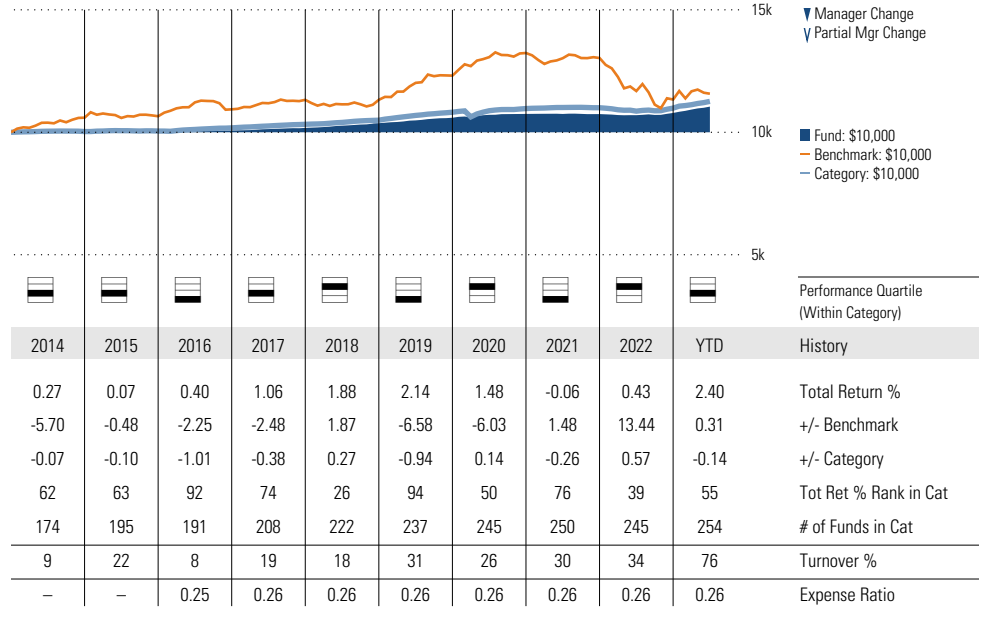
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.26 is 42.22% lower than the Ultrashort Bond category average.

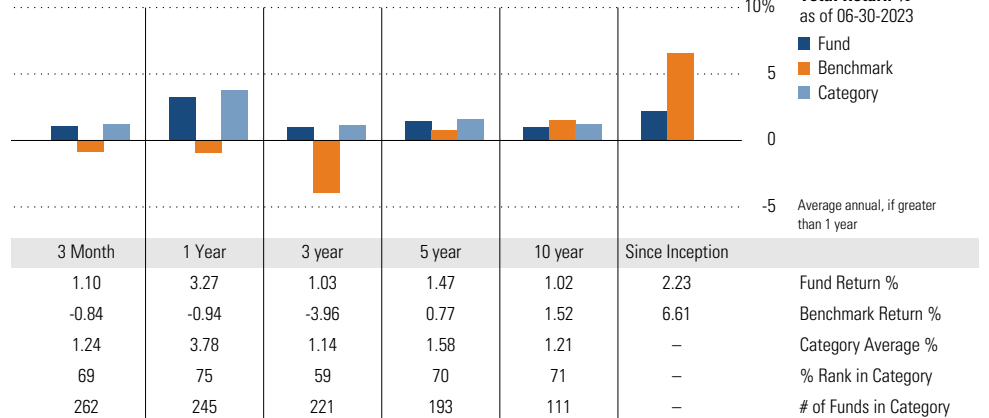
## Morningstar Investment Management LLC Analysis

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.

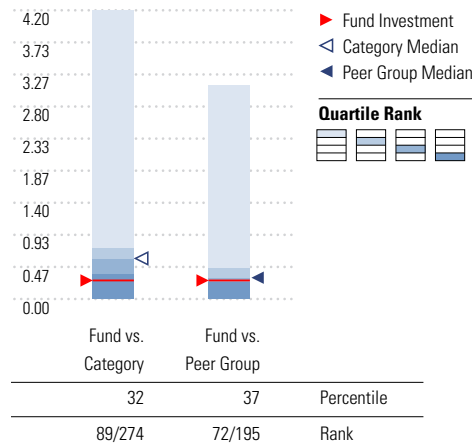
## Growth of \$10,000



## Trailing Performance



## Net Expense



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	1.23	-	1.42
Beta	0.05	-	0.09
R-Squared	23.58	-	28.83
Standard Deviation	0.65	6.17	1.02
Sharpe Ratio	-1.31	-0.89	-0.85
Tracking Error	5.89	-	5.72
Information Ratio	0.85	-	0.88
Up Capture Ratio	10.91	-	15.48
Down Capture Ratio	-3.42	-	-1.16

## Portfolio Metrics

	Fund	Bmark	Cat
Avg Eff Duration	0.48	4.43	0.80
Avg Eff Maturity	5.22	-	3.20

# Federated Hermes Govt Ultrashort IS FGUSX

**Morningstar Category**  
Ultrashort Bond

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

**Style Analysis** as of 06-30-2023

**Style Breakdown**



**Asset Allocation** as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	0.00	0.09
Non-US Stocks	0.00	0.00
Bonds	72.31	70.27
Cash	27.69	29.53
Other	0.00	0.11
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Credit Rating Breakdown**

	Fund	Bmark	Cat
AAA	100.00	3.53	40.12
AA	0.00	74.59	6.26
A	0.00	10.82	20.69
BBB	0.00	8.32	19.45
BB	0.00	0.28	1.49
B	0.00	0.00	1.35
Below B	0.00	0.00	0.31
Not Rated	0.00	2.46	10.33

**Sector Weighting** as of 06-30-2023



**Top 10 Holdings** as of 06-30-2023

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

**Total Holdings 193**

⊕ Increase ⊖ Decrease ✱ New to Portfolio



# Fidelity® Contrafund® FCNTX

**Morningstar Category**  
Large Growth

**Morningstar Index**  
Russell 1000 Growth TR USD

## Portfolio Manager(s)

William Danoff since 09-1990

## Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 32.81 years.

✔ **Style:** The fund has landed in its primary style box — Large Growth — 93.55 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.55 is 41.49% lower than the Large Growth category average.

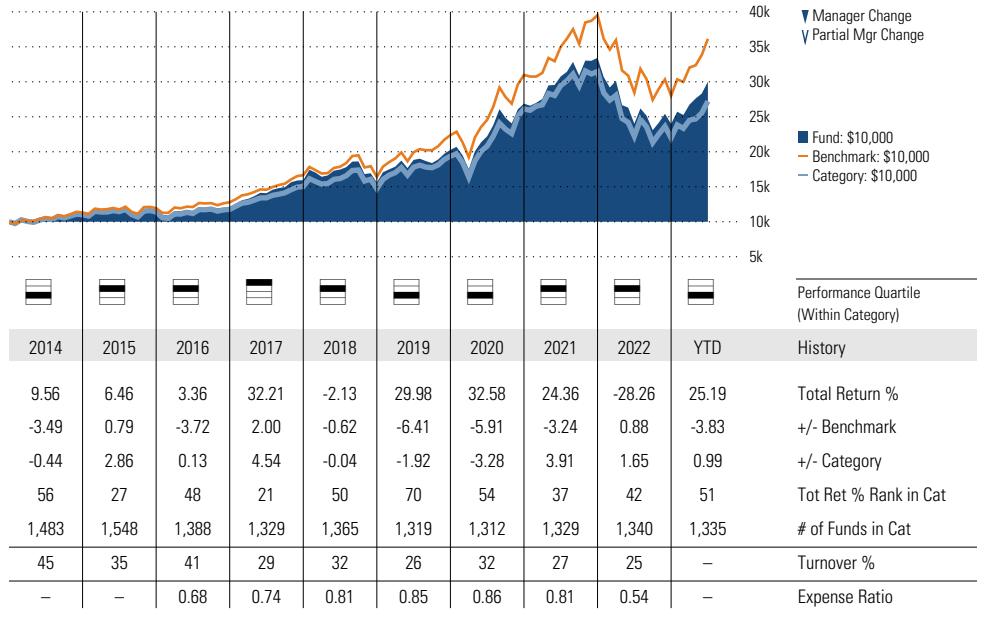
## Morningstar Investment Management LLC Analysis

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

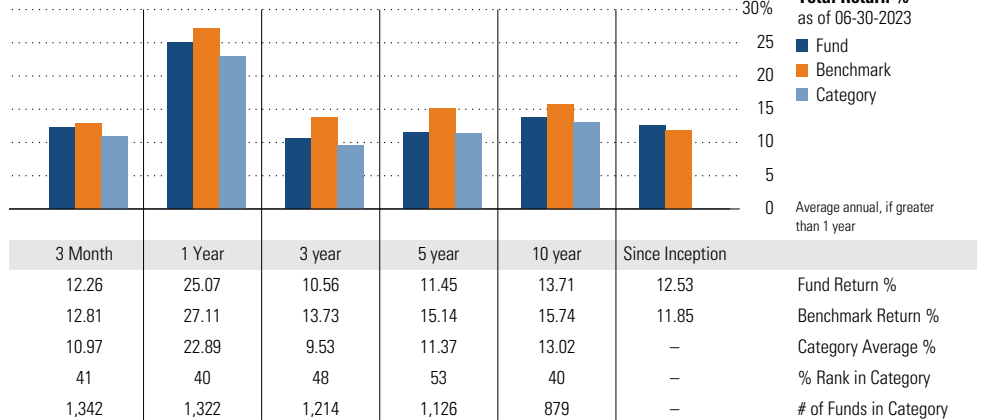
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

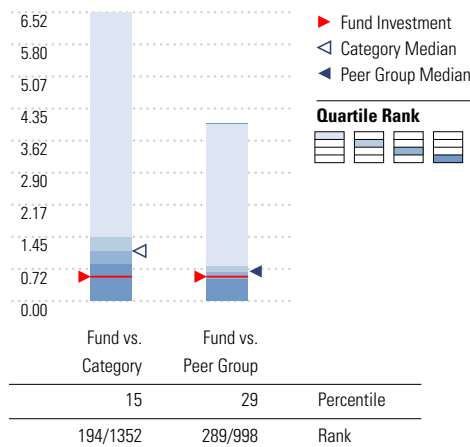
## Growth of \$10,000



## 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	-1.54	-	-3.58
Beta	0.89	-	0.96
R-Squared	96.93	-	91.90
Standard Deviation	19.54	21.72	21.83
Sharpe Ratio	0.53	0.63	0.45
Tracking Error	4.22	-	6.22
Information Ratio	-0.75	-	-0.83
Up Capture Ratio	86.55	-	87.53
Down Capture Ratio	91.50	-	98.14

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	25.39	32.61	30.03
Price/Book Ratio	4.21	10.75	7.61
Geom Avg Mkt Cap \$B	348.64	388.64	383.45
ROE	25.40	37.07	35.10

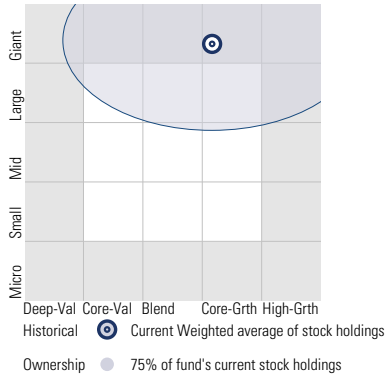
# Fidelity® Contrafund® FCNTX

**Morningstar Category**  
Large Growth

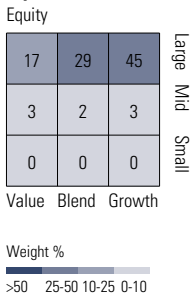
**Morningstar Index**  
Russell 1000 Growth TR USD

## Style Analysis as of 06-30-2023

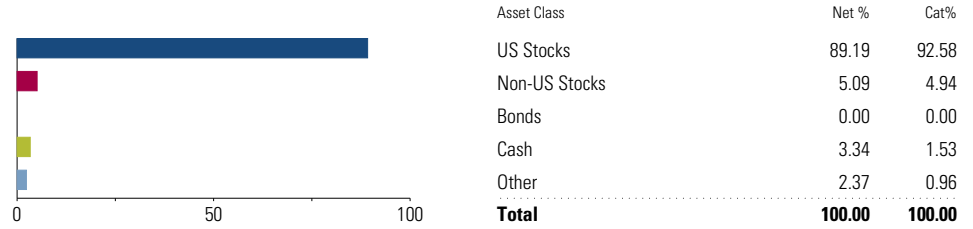
Morningstar Style Box™



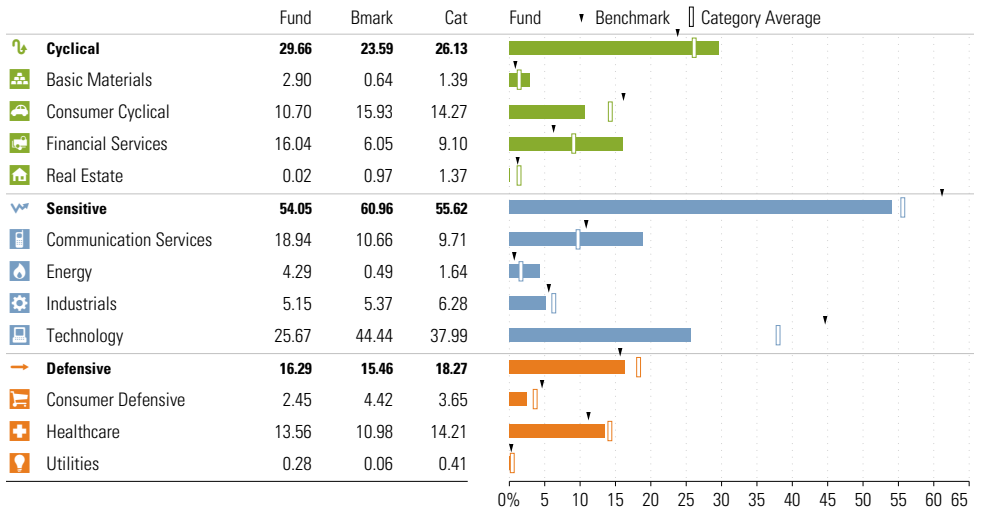
## Style Breakdown



## Asset Allocation as of 06-30-2023



## Sector Weighting as of 06-30-2023



## Top 15 Holdings as of 06-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Meta Platforms Inc Class A	11.00	11.00	138.47	Communication Svc
Berkshire Hathaway Inc Class A	9.01	20.01	10.48	Financial Services
Microsoft Corp	6.84	26.85	42.57	Technology
Amazon.com Inc	5.85	32.70	55.19	Consumer Cyclical
Apple Inc	4.93	37.63	49.65	Technology
UnitedHealth Group Inc	3.97	41.60	-8.68	Healthcare
NVIDIA Corp	3.85	45.45	189.52	Technology
Fidelity Revere Str Tr	3.43	48.88	-	-
Alphabet Inc Class A	2.43	51.31	35.67	Communication Svc
Eli Lilly and Co	2.37	53.68	28.81	Healthcare
Alphabet Inc Class C	2.09	55.77	36.33	Communication Svc
Regeneron Pharmaceuticals Inc	1.76	57.53	-0.41	Healthcare
Amphenol Corp Class A	1.67	59.20	12.12	Technology
Netflix Inc	1.66	60.86	49.38	Communication Svc
Visa Inc Class A	1.46	62.31	14.74	Financial Services

**Total Holdings 359**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# MFS New Discovery R4 MNDJX

**Morningstar Category**  
Small Growth

**Morningstar Index**  
Russell 2000 Growth TR USD

## Portfolio Manager(s)

Michael Grossman since 12-2013

## Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 9.5 years.

✔ **Style:** The fund has landed in its primary style box — Small Growth — 96.77 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.99 is 14.66% lower than the Small Growth category average.

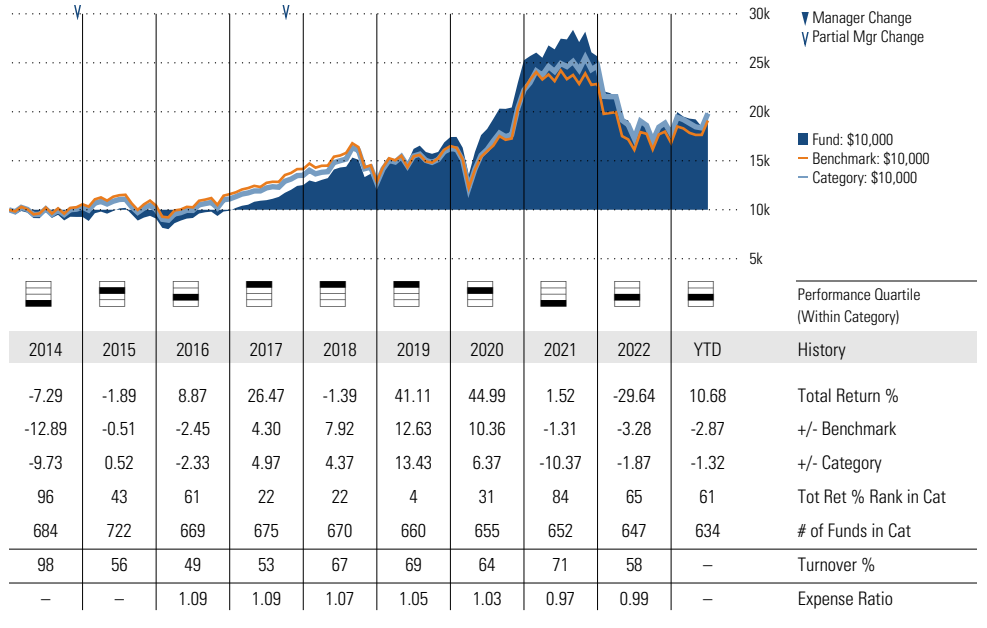
## Morningstar Investment Management LLC Analysis

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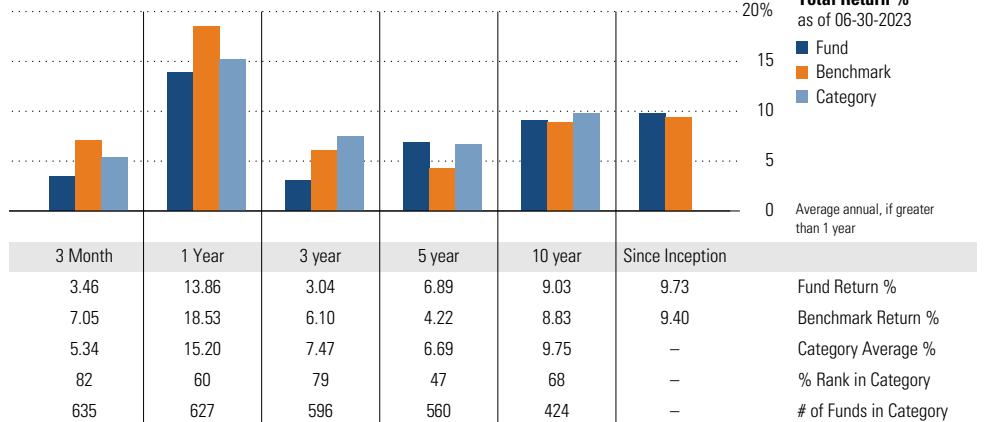
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	05-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

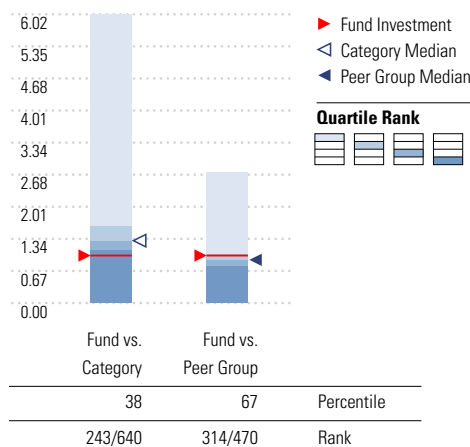
## Growth of \$10,000



## Trailing Performance



## Net Expense



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

## 3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-2.35	-	0.92
Beta	0.91	-	0.93
R-Squared	90.83	-	89.28
Standard Deviation	21.41	22.51	22.20
Sharpe Ratio	0.17	0.30	0.33
Tracking Error	6.82	-	7.54
Information Ratio	-0.45	-	0.05
Up Capture Ratio	85.56	-	97.66
Down Capture Ratio	93.98	-	95.95

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	21.33	19.60	23.17
Price/Book Ratio	2.96	3.99	3.97
Geom Avg Mkt Cap \$B	4.42	2.69	5.20
ROE	7.70	7.12	16.08

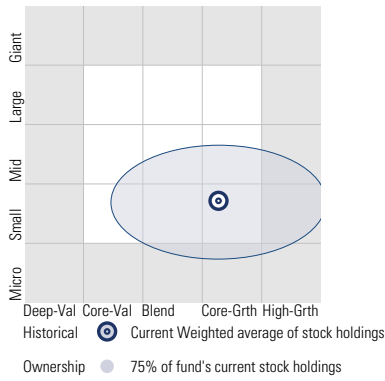
# MFS New Discovery R4 MNDJX

**Morningstar Category**  
Small Growth

**Morningstar Index**  
Russell 2000 Growth TR USD

## Style Analysis as of 06-30-2023

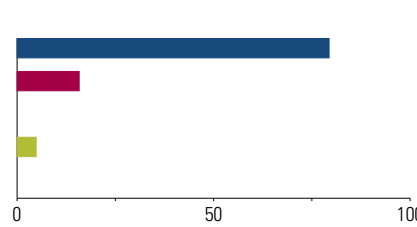
Morningstar Style Box™



## Style Breakdown

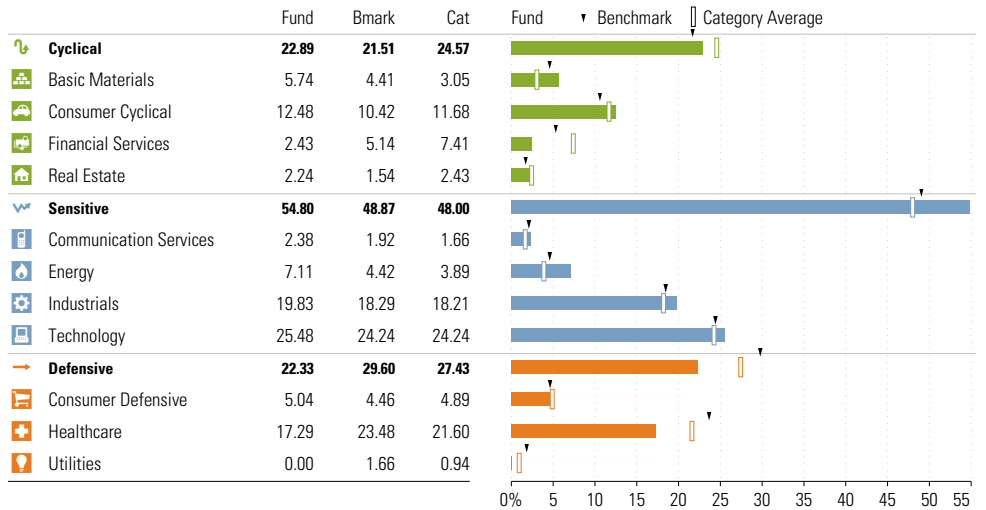


## Asset Allocation as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	79.38	91.33
Non-US Stocks	15.79	4.70
Bonds	0.00	0.02
Cash	4.84	2.39
Other	0.00	1.55
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 06-30-2023



## Top 15 Holdings as of 06-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Currency Cash CASH_USD	4.86	4.86	—	—
⊕ GFL Environmental Inc	2.55	7.41	32.83	Industrials
Sensata Technologies Holding PLC	2.21	9.62	11.99	Technology
⊖ ChampionX Corp	1.94	11.56	7.62	Energy
RB Global Inc	1.93	13.50	4.48	Industrials
⊖ ExlService Holdings Inc	1.87	15.37	-10.84	Technology
Jacobs Solutions Inc	1.75	17.12	-0.55	Industrials
⊖ Axalta Coating Systems Ltd	1.74	18.86	28.82	Basic Materials
KBR Inc	1.69	20.55	23.73	Industrials
Advanced Energy Industries Inc	1.67	22.22	30.16	Industrials
Stag Industrial Inc	1.65	23.87	13.32	Real Estate
⊖ Matador Resources Co	1.62	25.49	-8.07	Energy
PENN Entertainment Inc	1.53	27.02	-19.09	Consumer Cyclical
⊖ WNS (Holdings) Ltd ADR	1.52	28.55	-7.84	Technology
⊖ DoubleVerify Holdings Inc	1.49	30.03	77.23	Technology

**Total Holdings 110**

⊕ 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 16.26 years.

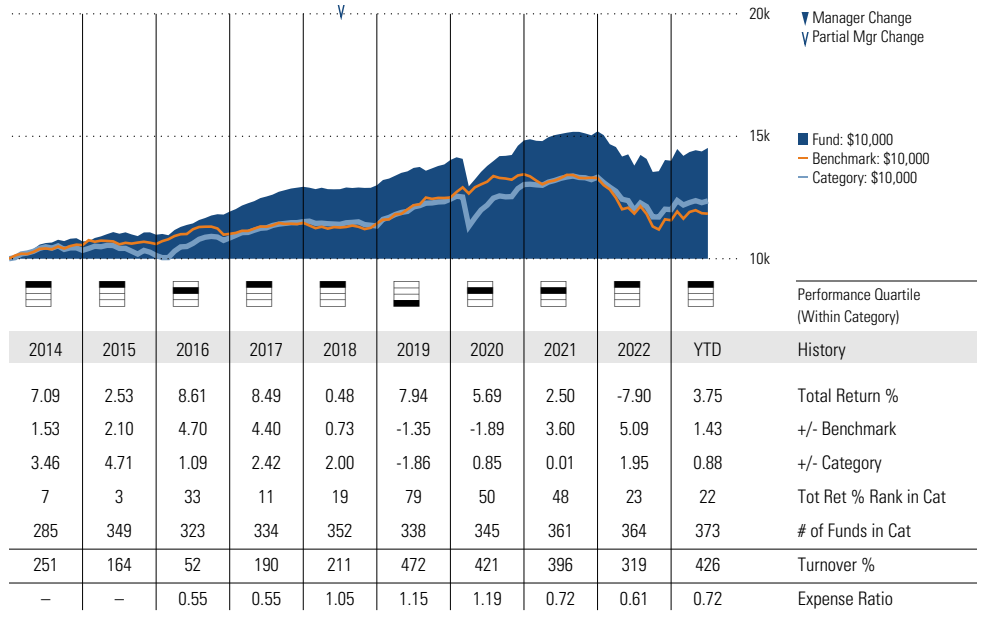
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.61 is 36.46% lower than the Multisector Bond category average.

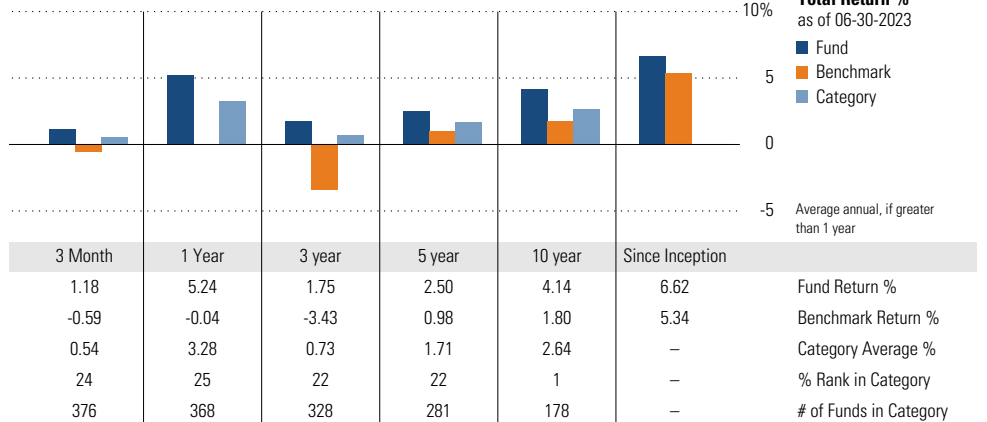
## Morningstar Investment Management LLC Analysis

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.

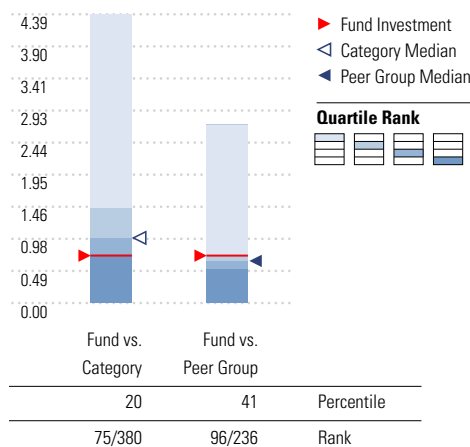
## Growth of \$10,000



## Trailing Performance



## Net Expense



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

## 3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	4.62	-	3.51
Beta	0.83	-	0.81
R-Squared	78.10	-	68.58
Standard Deviation	5.76	6.16	6.01
Sharpe Ratio	0.05	-0.80	-0.11
Tracking Error	2.90	-	3.72
Information Ratio	1.78	-	1.13
Up Capture Ratio	100.95	-	94.09
Down Capture Ratio	47.83	-	54.19

## Portfolio Metrics

	Fund	Bmark	Cat
Avg Eff Duration	3.83	4.55	4.68
Avg Eff Maturity	5.90	7.69	7.26

# PIMCO Income I2 PONPX

**Morningstar Category**  
Multisector Bond

**Morningstar Index**  
Bloomberg US Universal TR USD

## Style Analysis as of 06-30-2023

### Style Breakdown



## Asset Allocation as of 06-30-2023

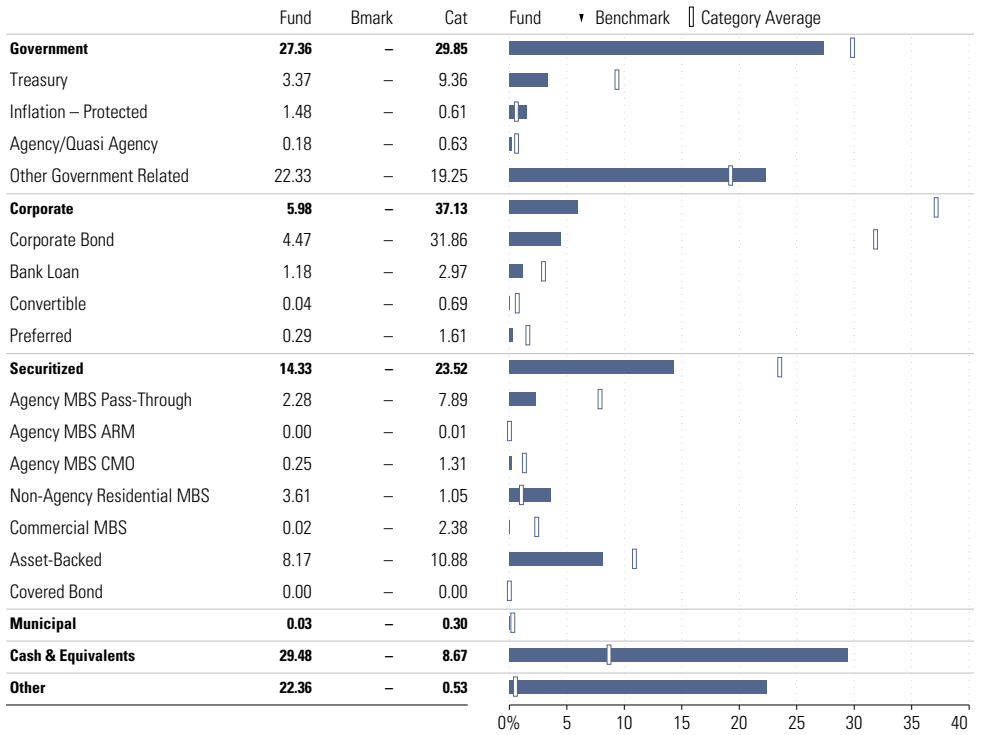


Asset Class	Net %	Cat%
US Stocks	1.15	1.07
Non-US Stocks	0.36	0.12
Bonds	129.67	95.94
Cash	-31.68	0.73
Other	0.52	2.16
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	48.99	67.64	23.08
AA	4.79	3.23	4.30
A	4.16	10.03	8.85
BBB	14.85	10.89	23.74
BB	14.13	3.19	17.69
B	4.43	3.64	12.71
Below B	8.66	1.38	4.11
Not Rated	0.00	0.00	5.51

## Sector Weighting as of 06-30-2023



## Top 10 Holdings as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
✳ Offset: Unsettled Trades	-	29.18	29.18	-
✳ Cash Offset	-	15.55	44.73	-
⊕ IRS USD 1.27000 11/04/22-1Y (WHT) LCH Pay	11-2023	14.02	58.75	-
⊕ IRS USD 1.27000 11/04/22-1Y (WHT) LCH Receive	11-2023	13.58	72.32	-
⊖ 10 Year Treasury Note Future Mar 23	03-2023	9.32	81.64	-
⊕ IRS EUR 2.95000 10/27/22-6Y* LCH Pay	03-2029	9.16	90.80	-
⊖ IRS USD 0.70000 12/14/21-3Y LCH Pay	12-2024	9.14	99.94	-
⊖ IRS USD 0.80000 12/14/21-3Y LCH Pay	12-2024	9.12	109.07	-
⊕ IRS EUR 2.95000 10/27/22-6Y* LCH Receive	03-2029	9.04	118.10	-
⊖ IRS USD 0.80000 12/14/21-3Y LCH Receive	12-2024	8.45	126.55	-

**Total Holdings 7956**

⊕ Increase ⊖ Decrease ✳ New to Portfolio

# Vanguard 500 Index Admiral VFIAX

**Morningstar Category**  
Large Blend

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

## Portfolio Manager(s)

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

## Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 7.18 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 94.74% lower than the Large Blend category average.

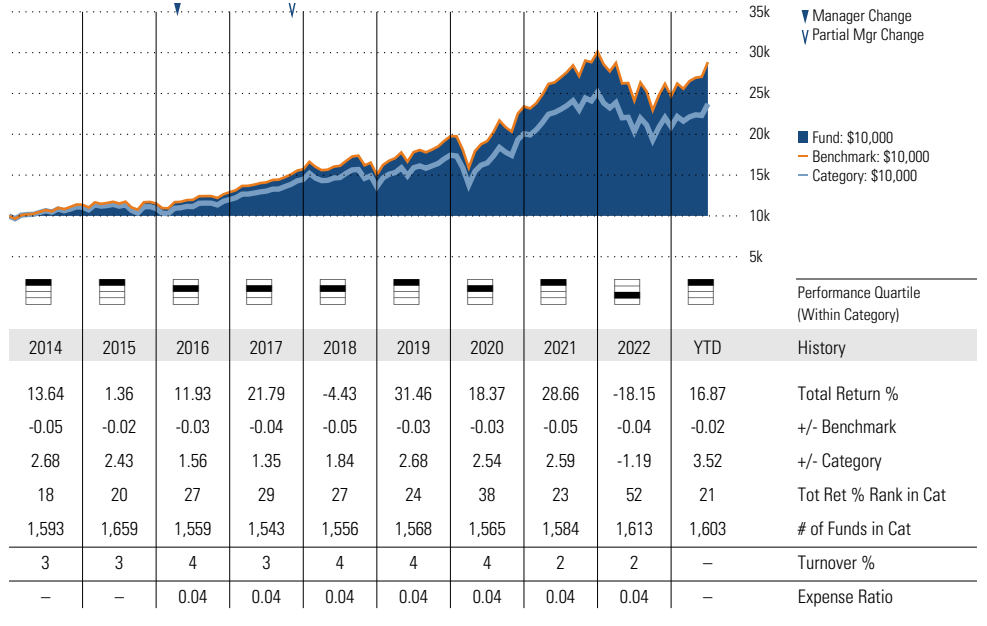
## Morningstar Investment Management LLC Analysis

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	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

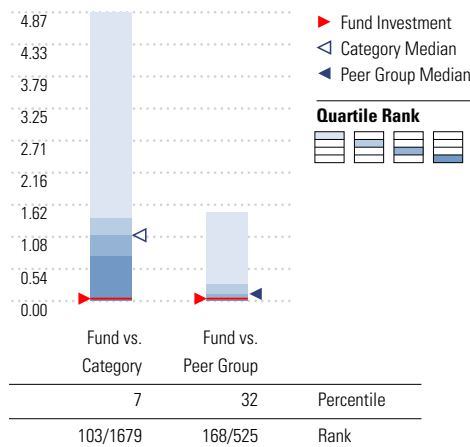
## Growth of \$10,000



## 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	-0.04	-	-0.66
Beta	1.00	-	0.94
R-Squared	100.00	-	94.49
Standard Deviation	18.19	18.19	17.67
Sharpe Ratio	0.75	0.75	0.68
Tracking Error	0.01	-	3.87
Information Ratio	-4.97	-	-1.22
Up Capture Ratio	99.93	-	92.67
Down Capture Ratio	100.07	-	95.01

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	22.85	22.84	21.76
Price/Book Ratio	4.02	4.02	4.30
Geom Avg Mkt Cap \$B	223.38	223.20	261.92
ROE	29.43	29.42	28.63

# Vanguard 500 Index Admiral VFIAX

**Morningstar Category**  
Large Blend

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

## Style Analysis as of 06-30-2023

Morningstar Style Box™



## Style Breakdown



## Asset Allocation as of 06-30-2023



## Sector Weighting as of 06-30-2023



## Top 15 Holdings as of 06-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Apple Inc	7.69	7.69	49.65	Technology
⊕ Microsoft Corp	6.79	14.48	42.57	Technology
⊕ Amazon.com Inc	3.12	17.61	55.19	Consumer Cyclical
⊕ NVIDIA Corp	2.81	20.41	189.52	Technology
⊕ Alphabet Inc Class A	1.91	22.32	35.67	Communication Svc
⊕ Tesla Inc	1.89	24.21	112.51	Consumer Cyclical
⊕ Meta Platforms Inc Class A	1.70	25.91	138.47	Communication Svc
⊖ Alphabet Inc Class C	1.66	27.57	36.33	Communication Svc
⊕ Berkshire Hathaway Inc Class B	1.63	29.20	10.39	Financial Services
⊕ UnitedHealth Group Inc	1.20	30.40	-8.68	Healthcare
⊖ Exxon Mobil Corp	1.16	31.57	-1.12	Energy
⊕ Johnson & Johnson	1.15	32.72	-4.99	Healthcare
⊕ JPMorgan Chase & Co	1.14	33.86	9.95	Financial Services
⊕ Visa Inc Class A	1.02	34.88	14.74	Financial Services
⊕ Eli Lilly and Co	0.99	35.88	28.81	Healthcare

**Total Holdings 508**

⊕ 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 10.36 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.

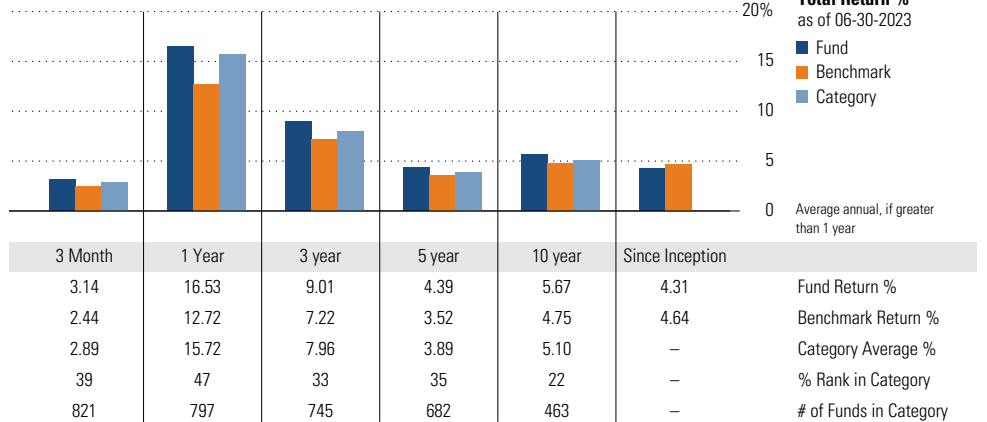
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

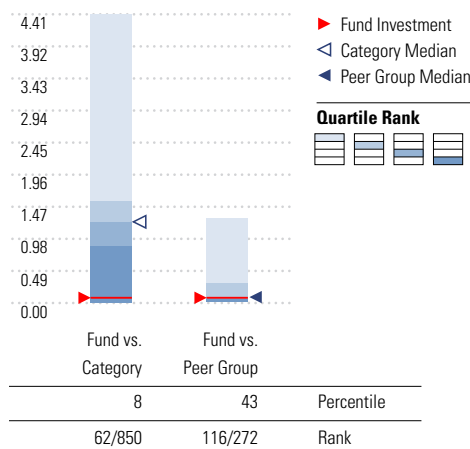
## Growth of \$10,000



## Trailing Performance



## Net Expense



## 3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	1.22	-	0.56
Beta	1.09	-	1.04
R-Squared	96.59	-	93.50
Standard Deviation	18.92	17.05	18.28
Sharpe Ratio	0.47	0.40	0.42
Tracking Error	3.82	-	4.68
Information Ratio	0.47	-	0.18
Up Capture Ratio	113.99	-	106.88
Down Capture Ratio	109.86	-	105.69

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	13.43	13.32	13.48
Price/Book Ratio	1.58	1.69	1.77
Geom Avg Mkt Cap \$B	30.17	43.39	51.74
ROE	16.76	17.67	19.85

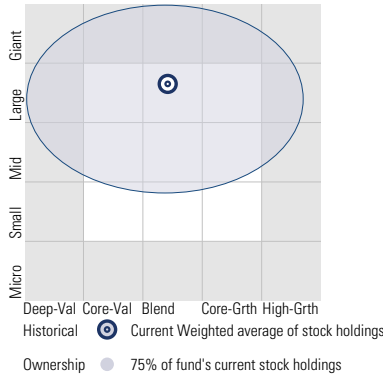
# Vanguard Developed Markets Index Admiral VTMGX

**Morningstar Category**  
Foreign Large Blend

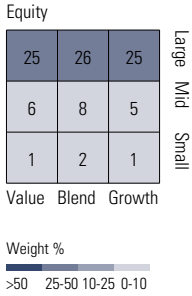
**Morningstar Index**  
MSCI ACWI Ex USA NR USD

## Style Analysis as of 06-30-2023

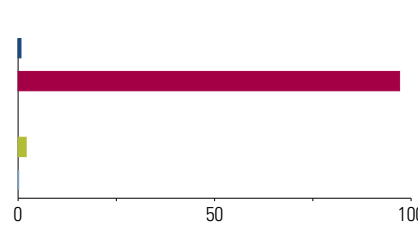
Morningstar Style Box™



## Style Breakdown

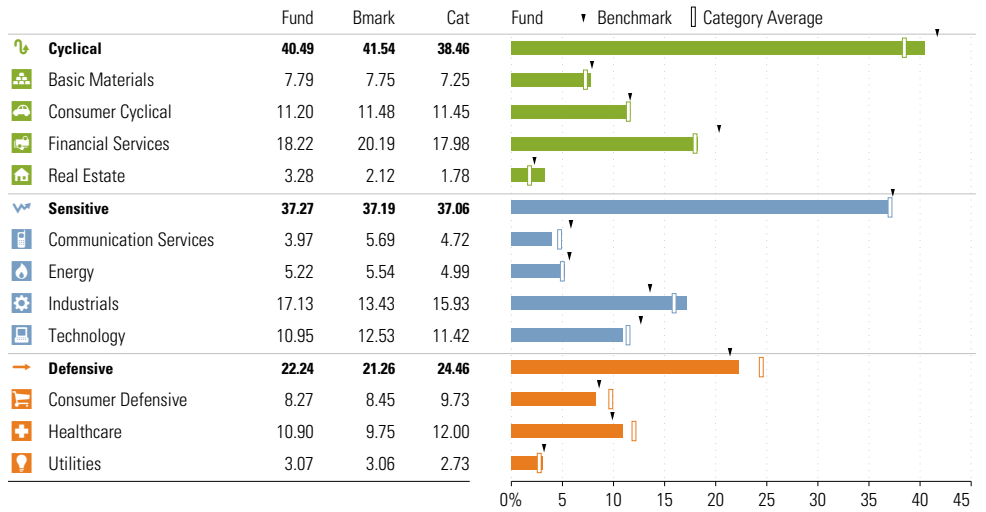


## Asset Allocation as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	97.07	94.02
Non-US Stocks	2.05	1.26
Bonds	0.00	0.19
Cash	0.15	1.40
Other	0.15	1.40
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 06-30-2023



## World Regions % Equity 06-30-2023



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	36.07	35.44	Americas	10.29	8.59	Greater Europe	53.63	55.97	Developed Markets	99.45
Japan	21.11	18.32	North America	10.26	7.30	United Kingdom	12.23	13.49	Emerging Markets	0.55
Australasia	6.91	5.01	Central/Latin	0.03	1.29	W euro-ex UK	40.51	41.42	Not Available	0.00
Asia-4 Tigers	7.86	6.74				Emrgng Europe	0.32	0.07		
Asia-ex 4 Tigers	0.19	5.37				Africa	0.57	0.99		
Not Classified	0.00	0.00								

## Top 10 Holdings as of 06-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Nestle SA	1.50	1.50	3.18	Consumer Defensive
⊖ Slcmt1142	1.36	2.86	-	-
⊖ ASML Holding NV	1.34	4.20	32.21	Technology
Samsung Electronics Co Ltd	1.22	5.42	-	Technology
⊕ Novo Nordisk A/S Class B	1.18	6.60	18.08	Healthcare
⊕ LVMH Moet Hennessy Louis Vuitton SE	1.09	7.69	27.96	Consumer Cyclical
⊕ AstraZeneca PLC	0.99	8.68	1.97	Healthcare
⊕ Roche Holding AG	0.99	9.67	-2.58	Healthcare
⊖ Shell PLC	0.95	10.62	2.73	Energy
⊕ Novartis AG Registered Shares	0.95	11.57	11.50	Healthcare

**Total Holdings 4054**

⊕ Increase ⊖ Decrease ✱ New to Portfolio

# Vanguard Mid Cap Index Admiral VIMAX

**Morningstar Category**  
Mid-Cap Blend

**Morningstar Index**  
Russell Mid Cap TR USD

## Portfolio Manager(s)

Donald Butler since 05-1998  
Awais Khan since 07-2021  
Aur lie Denis since 02-2023

## Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 25.13 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.05 is 94.12% lower than the Mid-Cap Blend category average.

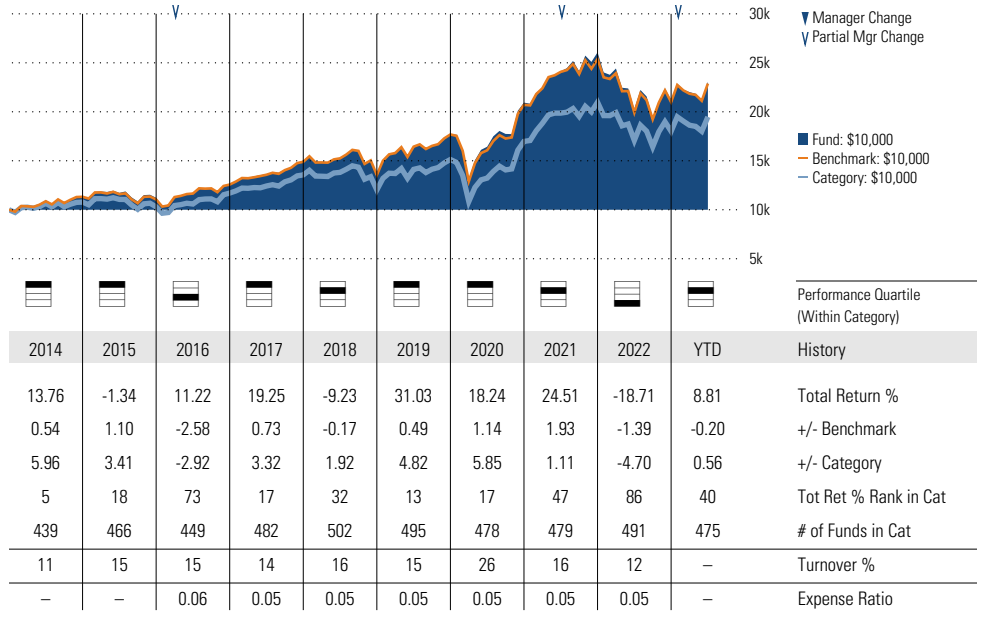
## Morningstar Investment Management LLC Analysis

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	05-31-2023
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

Metric	Fund	Bmark	Cat
Alpha	-0.40	-	0.81
Beta	0.99	-	0.97
R-Squared	99.46	-	92.83
Standard Deviation	19.19	19.29	19.55
Sharpe Ratio	0.60	0.62	0.64
Tracking Error	1.42	-	5.22
Information Ratio	-0.39	-	0.07
Up Capture Ratio	98.44	-	98.14
Down Capture Ratio	99.96	-	95.34

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	19.26	16.94	15.59
Price/Book Ratio	2.90	2.69	2.60
Geom Avg Mkt Cap \$B	24.88	18.19	11.07
ROE	17.69	16.85	20.82

# Vanguard Mid Cap Index Admiral VIMAX

Morningstar Category

Mid-Cap Blend

Morningstar Index

Russell Mid Cap TR USD

## Style Analysis as of 06-30-2023

Morningstar Style Box™



## Asset Allocation as of 06-30-2023

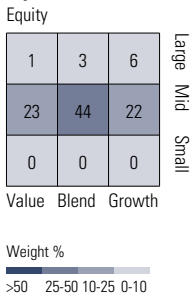


Asset Class	Net %	Cat%
US Stocks	97.89	95.53
Non-US Stocks	1.41	2.68
Bonds	0.00	0.06
Cash	0.70	1.33
Other	0.00	0.39
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 06-30-2023



## Style Breakdown



## Top 15 Holdings as of 06-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Amphenol Corp Class A	0.79	0.79	12.12	Technology
DexCom Inc	0.78	1.58	13.48	Healthcare
Motorola Solutions Inc	0.77	2.35	14.49	Technology
Microchip Technology Inc	0.77	3.12	28.59	Technology
Arthur J. Gallagher & Co	0.74	3.86	17.04	Financial Services
TransDigm Group Inc	0.73	4.59	42.01	Industrials
PACCAR Inc	0.69	5.28	27.54	Industrials
Cintas Corp	0.67	5.95	10.58	Industrials
IQVIA Holdings Inc	0.65	6.61	9.70	Healthcare
Carrier Global Corp Ordinary Shares	0.65	7.26	21.41	Industrials
Nucor Corp	0.65	7.91	25.18	Basic Materials
ON Semiconductor Corp	0.64	8.55	51.64	Technology
PG&E Corp	0.64	9.19	6.27	Utilities
Realty Income Corp	0.63	9.82	-3.34	Real Estate
Welltower Inc	0.63	10.45	25.26	Real Estate

**Total Holdings 345**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Real Estate Index Admiral VGSLX

**Morningstar Category**  
Real Estate

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

## Portfolio Manager(s)

Gerard O'Reilly since 05-1996

Walter Nejman since 05-2016

## Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 27.15 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 88.46% 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.

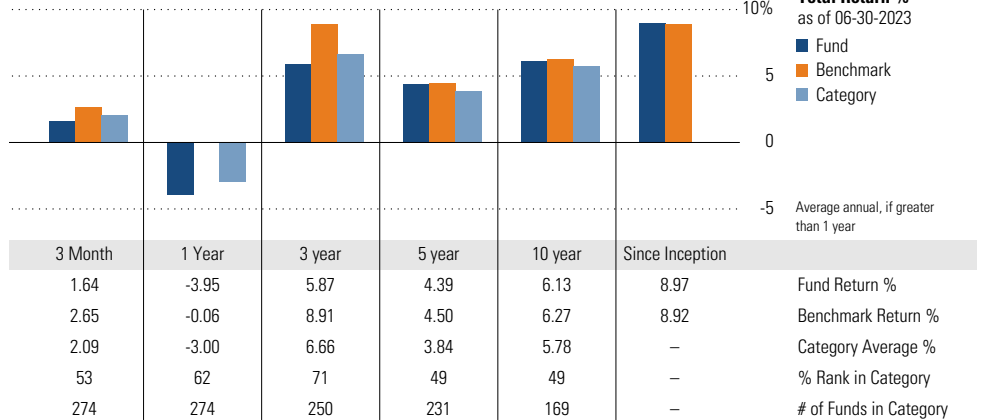
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

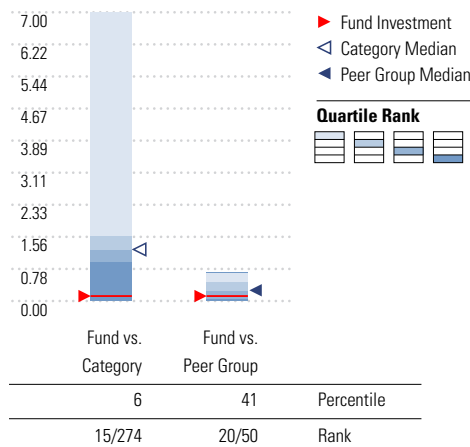
## Growth of \$10,000



## 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	-2.83	-	-1.69
Beta	1.00	-	0.96
R-Squared	98.74	-	93.81
Standard Deviation	20.22	20.05	19.81
Sharpe Ratio	0.30	0.44	0.35
Tracking Error	2.27	-	4.50
Information Ratio	-1.34	-	-0.58
Up Capture Ratio	95.85	-	93.21
Down Capture Ratio	105.61	-	99.34

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	28.85	38.46	29.90
Price/Book Ratio	2.25	2.42	2.19
Geom Avg Mkt Cap \$B	21.51	9.35	31.26
ROE	14.13	9.56	15.54

# Vanguard Real Estate Index Admiral VGSLX

**Morningstar Category**  
Real Estate

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

## Style Analysis as of 06-30-2023

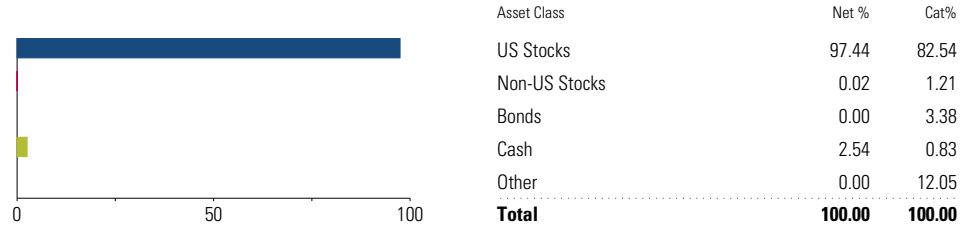
Morningstar Style Box™



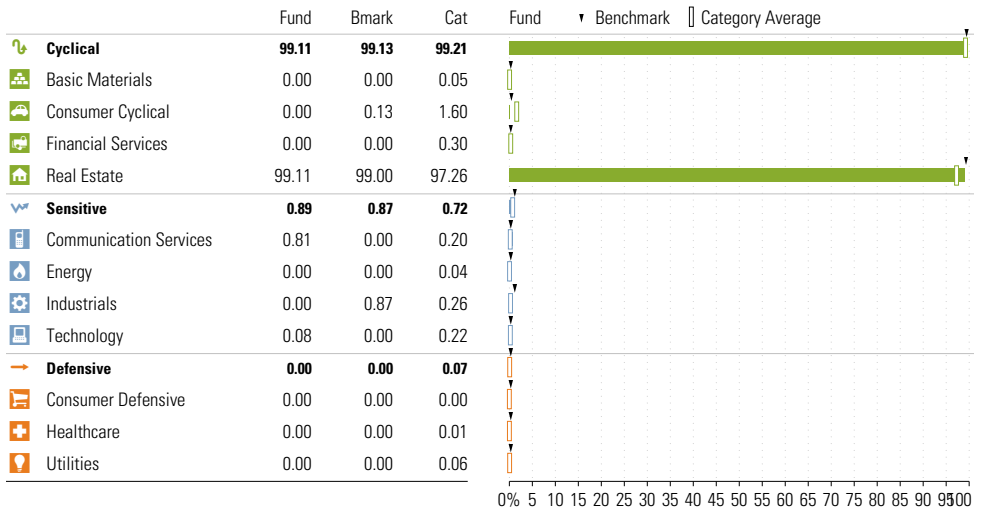
## Style Breakdown



## Asset Allocation as of 06-30-2023



## Sector Weighting as of 06-30-2023



## Top 15 Holdings as of 06-30-2023

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Real Estate II Index	12.52	12.52	-	-
⊖ Prologis Inc	7.44	19.96	10.33	Real Estate
⊖ American Tower Corp	5.93	25.89	-6.98	Real Estate
⊖ Equinix Inc	4.81	30.71	20.72	Real Estate
⊖ Crown Castle Inc	3.24	33.95	-13.69	Real Estate
⊖ Public Storage	3.03	36.98	6.31	Real Estate
⊖ Realty Income Corp	2.59	39.58	-3.34	Real Estate
⊖ Welltower Inc	2.54	42.12	25.26	Real Estate
⊖ Simon Property Group Inc	2.40	44.52	1.40	Real Estate
⊕ CoStar Group Inc	2.38	46.90	15.17	Real Estate
⊖ Digital Realty Trust Inc	2.07	48.96	16.00	Real Estate
⊖ VICI Properties Inc Ordinary Shares	1.80	50.77	-0.59	Real Estate
⊖ AvalonBay Communities Inc	1.74	52.51	19.22	Real Estate
⊖ SBA Communications Corp Class A	1.65	54.15	-16.71	Real Estate
⊖ CBRE Group Inc Class A	1.65	55.80	4.87	Real Estate

**Total Holdings 169**

⊕ 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-Díaz 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 10.36 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.

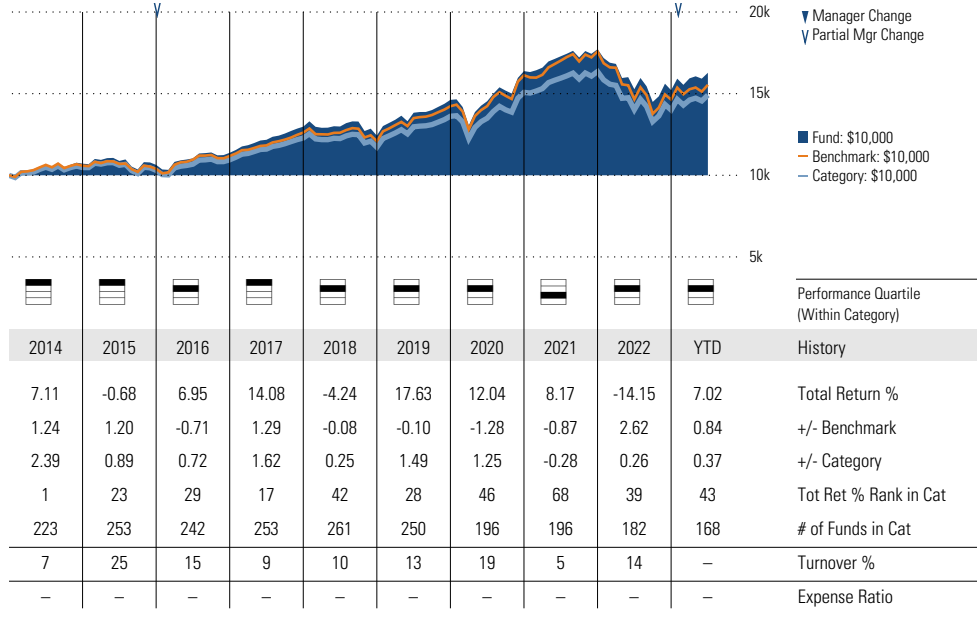
## Morningstar Investment Management LLC Analysis

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.

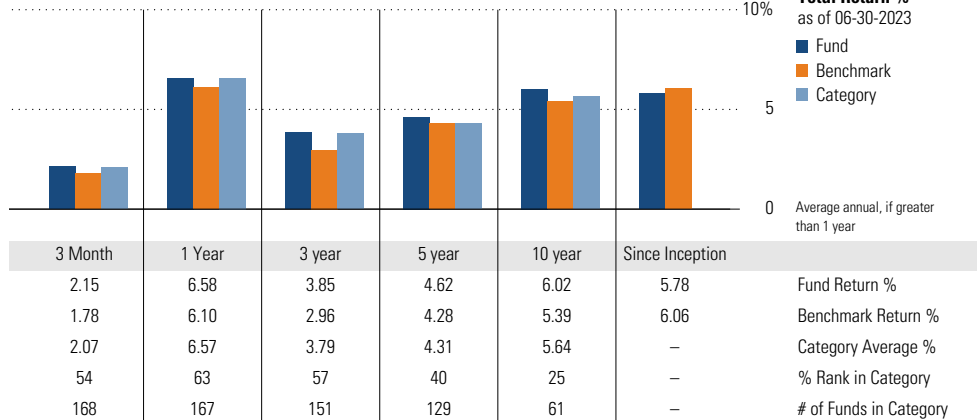
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
ESG Commitment	1-Low	02-15-2022

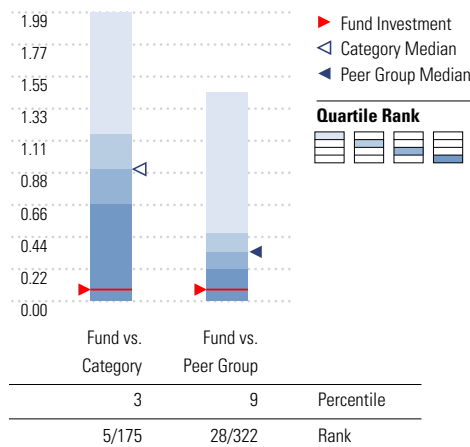
## Growth of \$10,000



## 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	1.17	-	1.08
Beta	0.87	-	0.88
R-Squared	98.44	-	97.30
Standard Deviation	10.06	11.49	10.23
Sharpe Ratio	0.27	0.17	0.25
Tracking Error	1.96	-	2.28
Information Ratio	0.45	-	0.42
Up Capture Ratio	90.86	-	91.21
Down Capture Ratio	83.36	-	84.32

## Portfolio Metrics

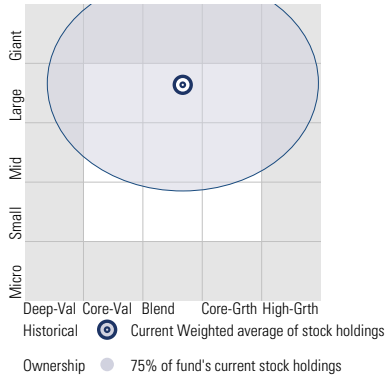
	Fund	Bmark	Cat
Price/Earnings Ratio	17.10	17.42	17.71
Price/Book Ratio	2.40	2.45	2.54
Avg Eff Duration	6.05	-	5.71

# Vanguard Target Retirement 2020 Fund VTWNX

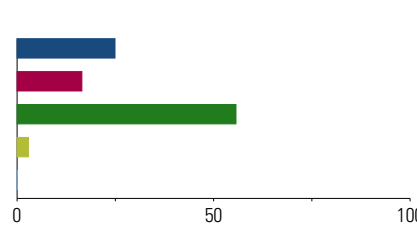
**Morningstar Category**  
Target-Date 2020

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

**Style Analysis** as of 06-30-2023  
Morningstar Style Box™

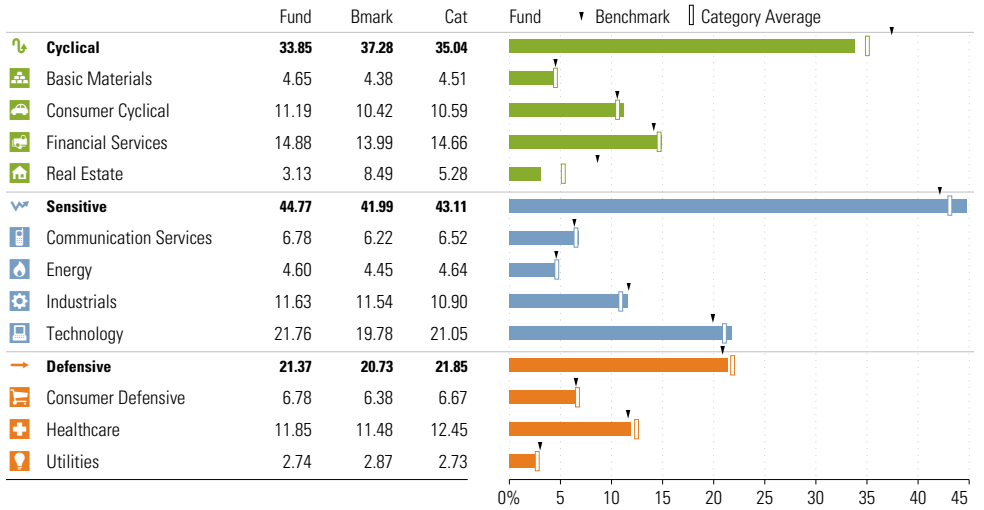


**Asset Allocation** as of 06-30-2023

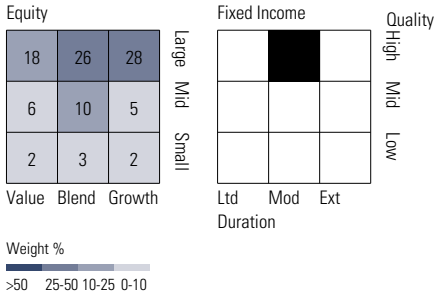


Asset Class	Net %	Cat%
US Stocks	24.91	25.00
Non-US Stocks	16.48	14.11
Bonds	55.69	50.06
Cash	2.88	2.65
Other	0.03	8.18
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 06-30-2023



**Style Breakdown**



**Top 7 Holdings** as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Bond Market II Idx Inv	-	31.87	31.87	-	-
⊖ Vanguard Total Stock Mkt Idx Instl Pls	-	25.08	56.94	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	16.94	73.88	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	14.28	88.15	-	-
⊕ Vanguard Shrt-Term Infl-Prot Sec Idx Adm	-	10.96	99.11	-	-
⊖ Mktliq 12/31/2049	-	0.91	100.02	-	-
⊕ Us Dollar	-	0.02	100.04	-	-

**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  
Aurélien Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Díaz 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 10.36 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 2025 category average.

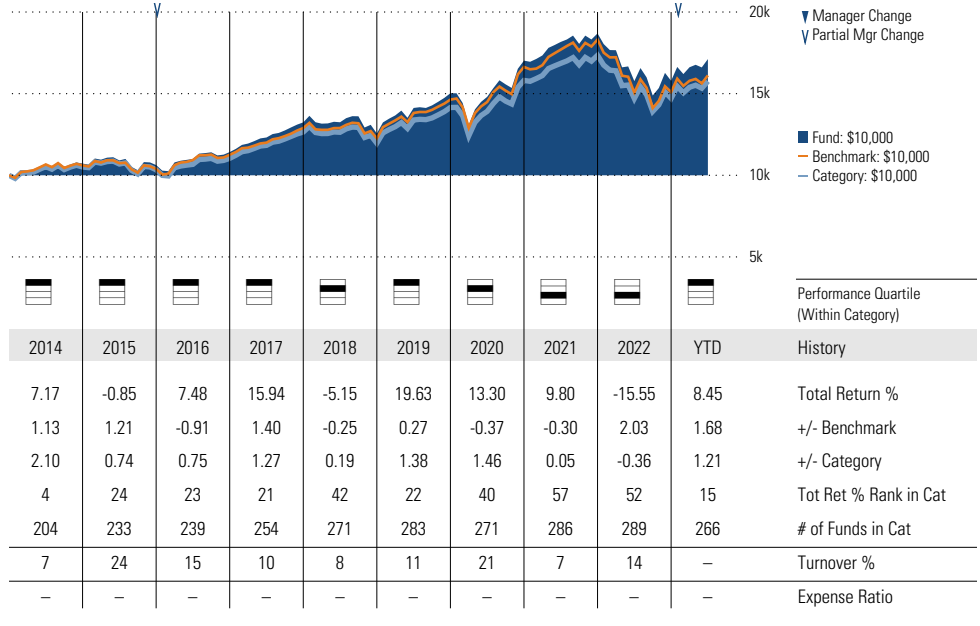
## Morningstar Investment Management LLC Analysis

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.

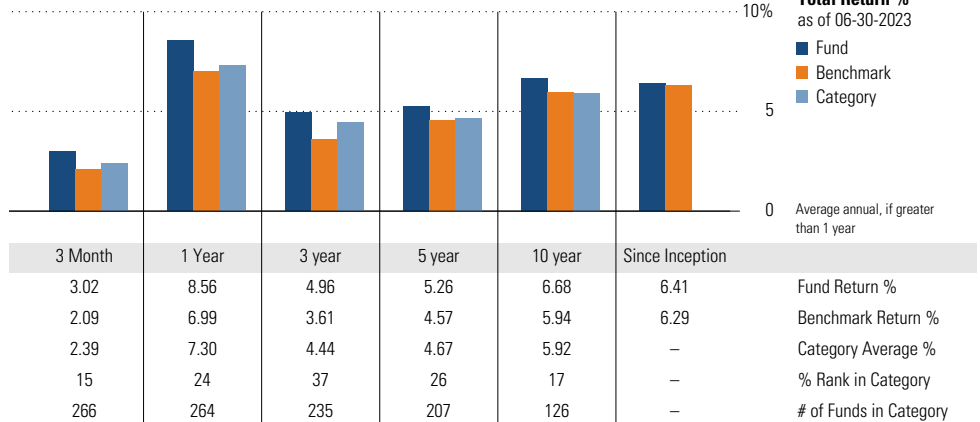
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

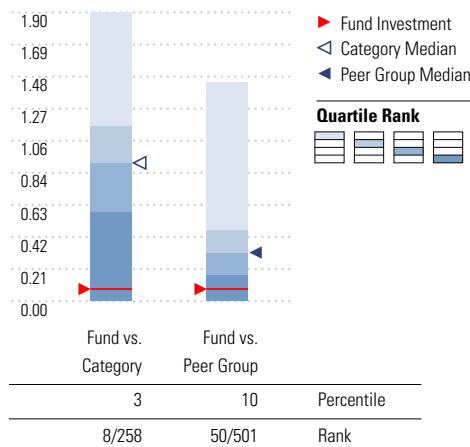
## Growth of \$10,000



## 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	1.49	-	1.10
Beta	0.93	-	0.88
R-Squared	98.61	-	97.72
Standard Deviation	11.69	12.43	11.02
Sharpe Ratio	0.34	0.22	0.29
Tracking Error	1.61	-	2.40
Information Ratio	0.84	-	0.44
Up Capture Ratio	99.10	-	92.16
Down Capture Ratio	90.66	-	85.92

## Portfolio Metrics

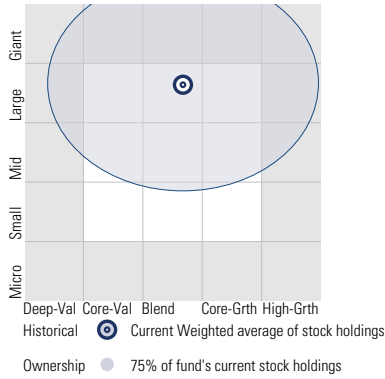
	Fund	Bmark	Cat
Price/Earnings Ratio	17.16	17.22	17.76
Price/Book Ratio	2.42	2.41	2.54
Avg Eff Duration	6.45	-	6.76

# Vanguard Target Retirement 2025 Fund VTTVX

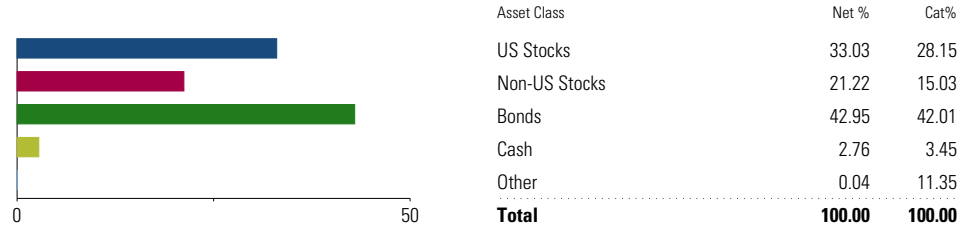
**Morningstar Category**  
Target-Date 2025

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

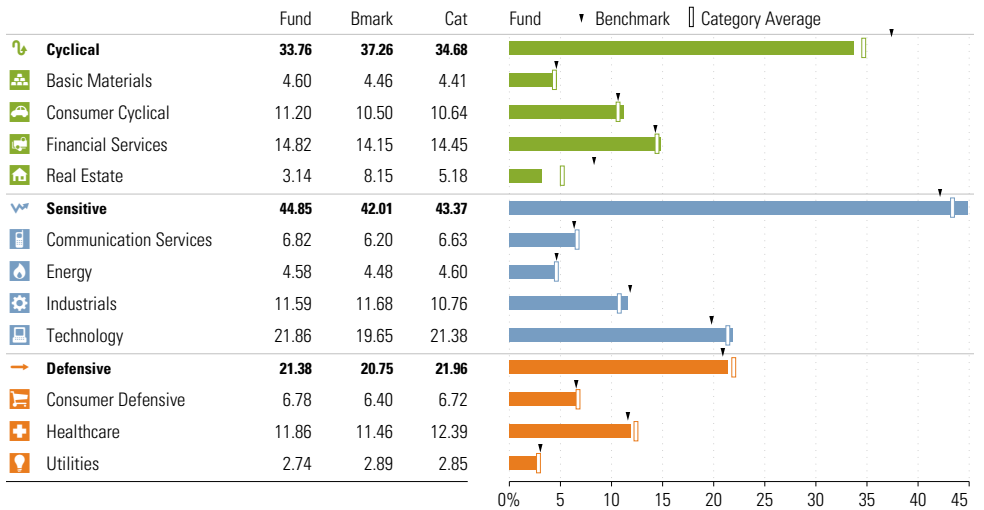
**Style Analysis** as of 06-30-2023  
Morningstar Style Box™



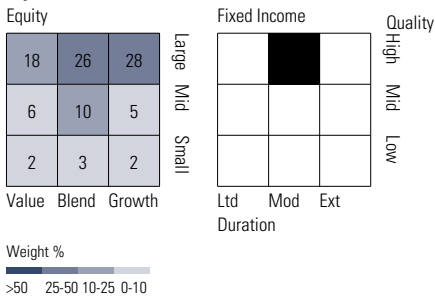
**Asset Allocation** as of 06-30-2023



**Sector Weighting** as of 06-30-2023



**Style Breakdown**



**Top 7 Holdings** as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Instl Pls	-	33.25	33.25	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	27.75	61.01	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	21.80	82.81	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	11.91	94.72	-	-
⊕ Vanguard Shrt-Term Infl-Prot Sec Idx Adm	-	4.09	98.81	-	-
⊖ Mktliq 12/31/2049	-	1.19	100.00	-	-
⊕ Us Dollar	-	0.00	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-Díaz 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 10.36 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 2030 category average.

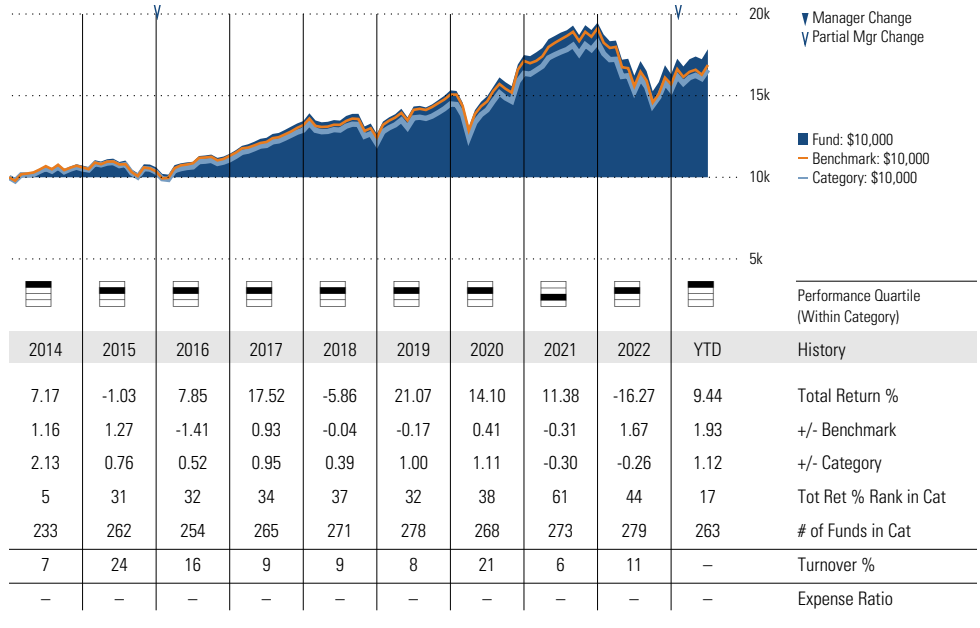
## Morningstar Investment Management LLC Analysis

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	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

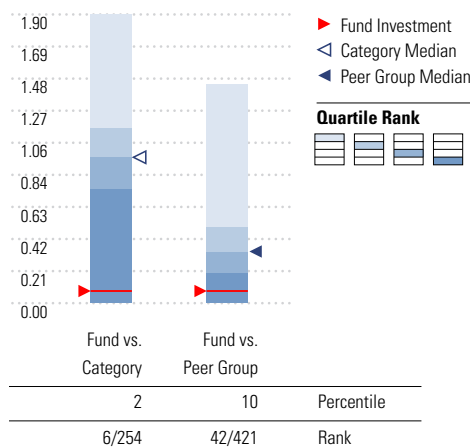
## Growth of \$10,000



## 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	1.37	-	1.21
Beta	0.94	-	0.92
R-Squared	98.78	-	98.19
Standard Deviation	12.80	13.47	12.47
Sharpe Ratio	0.40	0.30	0.38
Tracking Error	1.60	-	2.14
Information Ratio	0.75	-	0.54
Up Capture Ratio	99.17	-	96.23
Down Capture Ratio	92.11	-	90.07

## Portfolio Metrics

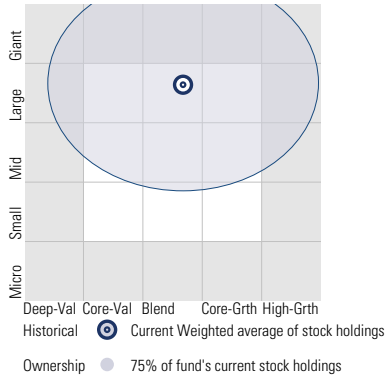
	Fund	Bmark	Cat
Price/Earnings Ratio	17.18	17.03	17.93
Price/Book Ratio	2.42	2.38	2.64
Avg Eff Duration	6.84	-	7.19

# Vanguard Target Retirement 2030 Fund VTHRX

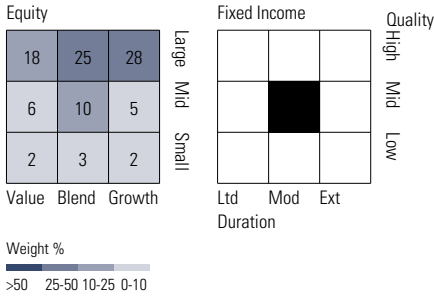
**Morningstar Category**  
Target-Date 2030

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

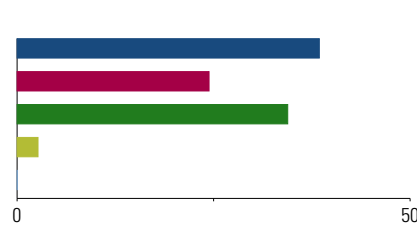
**Style Analysis** as of 06-30-2023  
Morningstar Style Box™



**Style Breakdown**

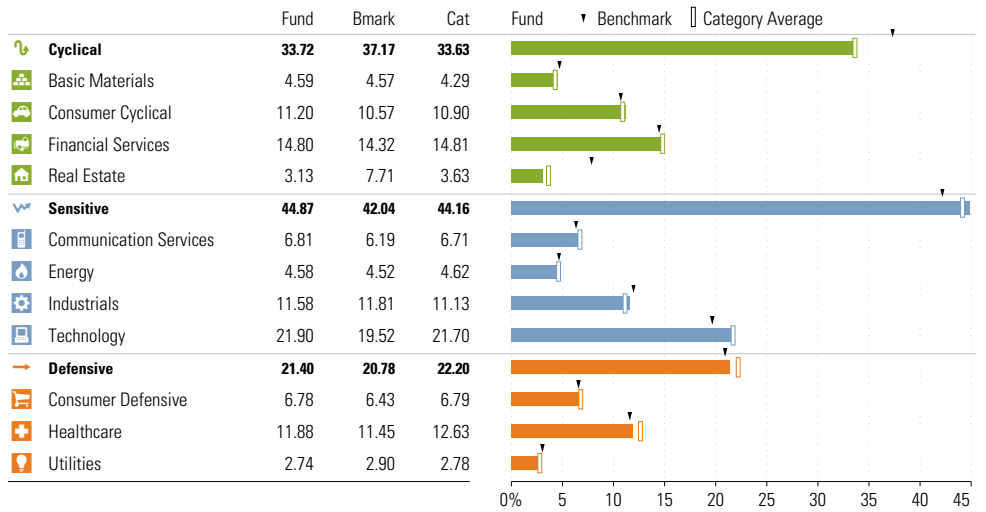


**Asset Allocation** as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	38.45	35.05
Non-US Stocks	24.42	18.46
Bonds	34.43	33.00
Cash	2.66	1.61
Other	0.03	11.89
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 06-30-2023



**Top 6 Holdings** as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	-	38.71	38.71	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	25.09	63.80	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	24.41	88.21	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	10.46	98.67	-	-
⊖ Mktliq 12/31/2049	-	1.34	100.01	-	-
⊕ Us Dollar	-	0.01	100.03	-	-

**Total Holdings 6**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2035 Fund VTTHX

**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-Díaz 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 10.36 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 2035 category average.

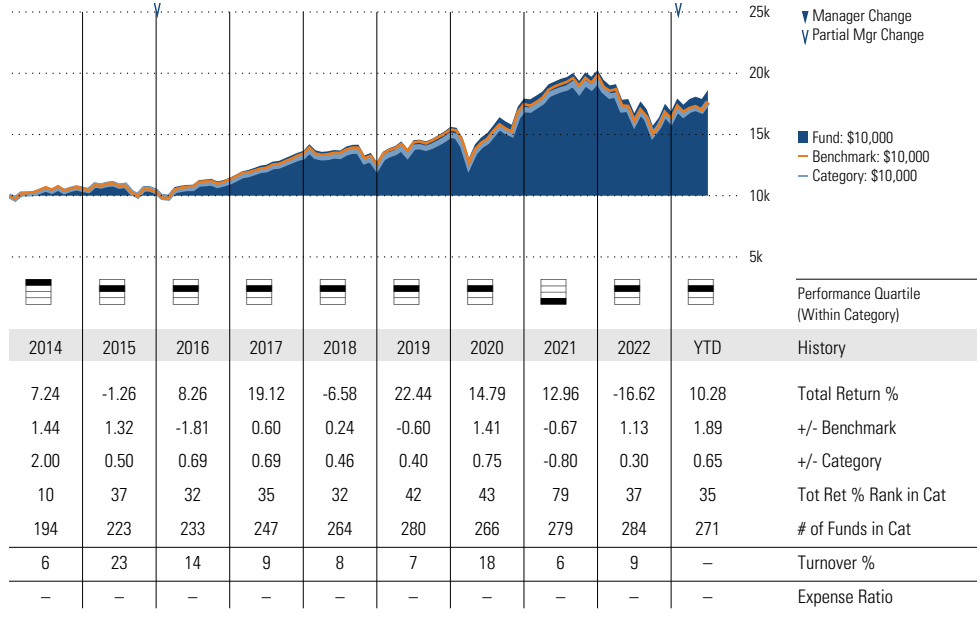
## Morningstar Investment Management LLC Analysis

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.

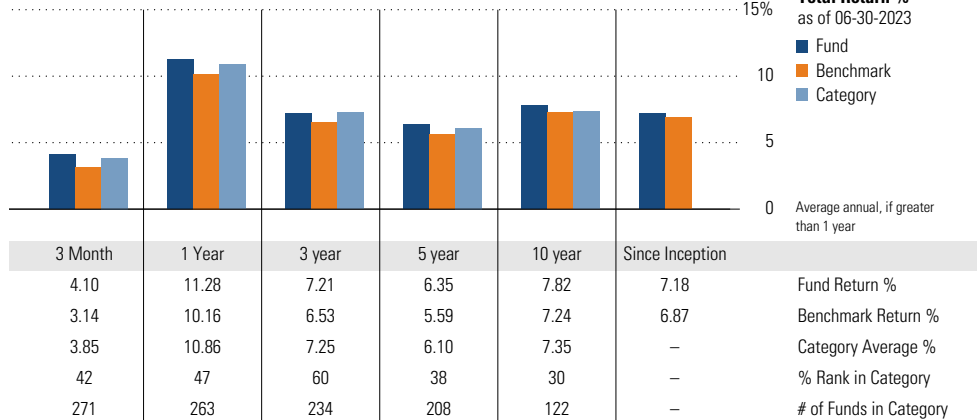
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

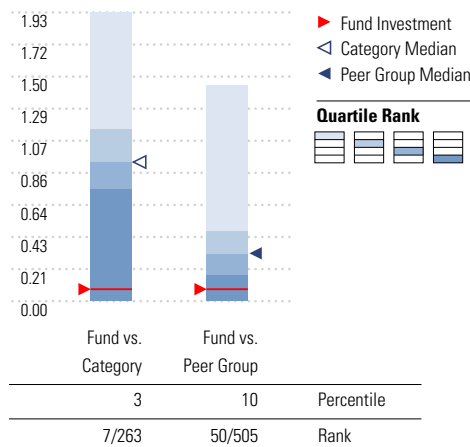
## Growth of \$10,000



## 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	0.97	-	0.98
Beta	0.94	-	0.95
R-Squared	98.92	-	98.41
Standard Deviation	13.78	14.58	13.97
Sharpe Ratio	0.46	0.40	0.46
Tracking Error	1.68	-	2.04
Information Ratio	0.40	-	0.47
Up Capture Ratio	97.46	-	98.75
Down Capture Ratio	93.03	-	94.39

## Portfolio Metrics

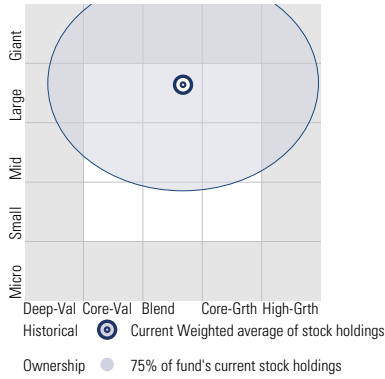
	Fund	Bmark	Cat
Price/Earnings Ratio	17.18	16.84	17.69
Price/Book Ratio	2.42	2.35	2.57
Avg Eff Duration	6.84	-	7.46

# Vanguard Target Retirement 2035 Fund VTTHX

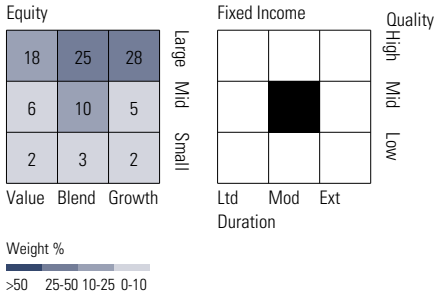
**Morningstar Category**  
Target-Date 2035

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

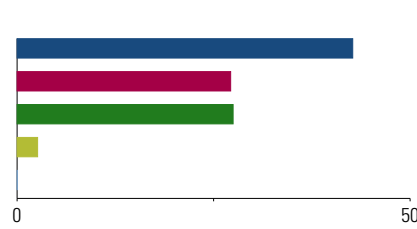
**Style Analysis** as of 06-30-2023  
Morningstar Style Box™



**Style Breakdown**

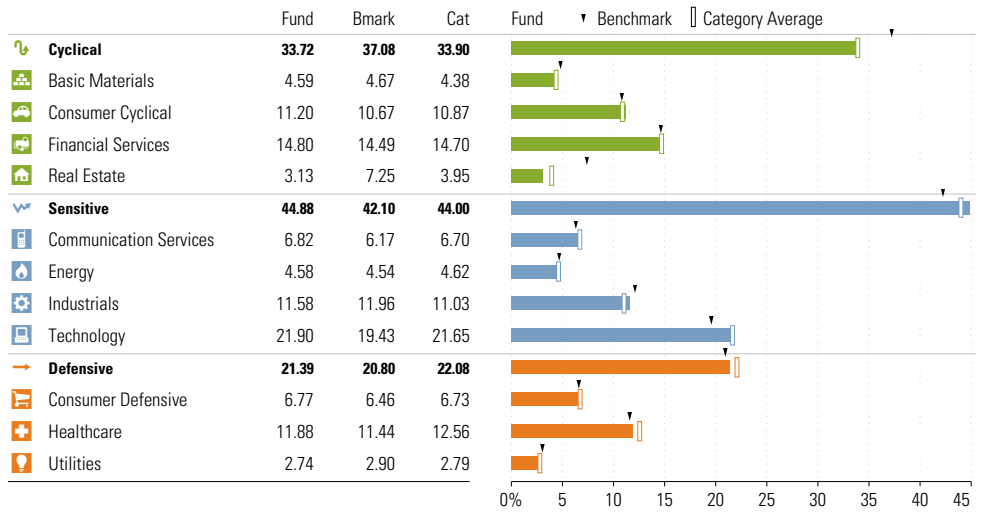


**Asset Allocation** as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	42.70	41.24
Non-US Stocks	27.17	22.19
Bonds	27.48	22.31
Cash	2.61	2.13
Other	0.03	12.14
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 06-30-2023



**Top 6 Holdings** as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	-	42.99	42.99	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	27.91	70.90	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	19.55	90.45	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	8.28	98.73	-	-
⊖ Mktliq 12/31/2049	-	1.27	99.99	-	-
⊖ Us Dollar	-	0.01	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-Díaz 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 10.36 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.

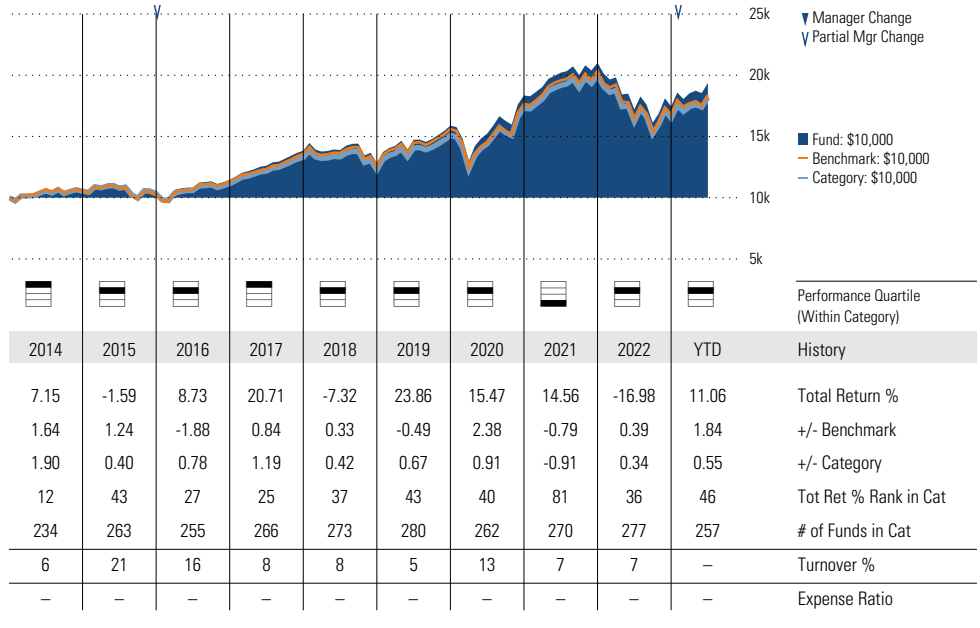
## Morningstar Investment Management LLC Analysis

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.

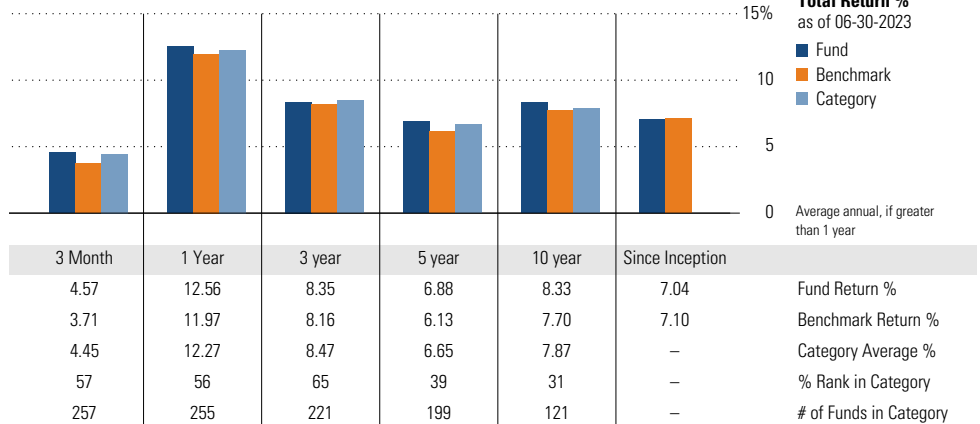
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

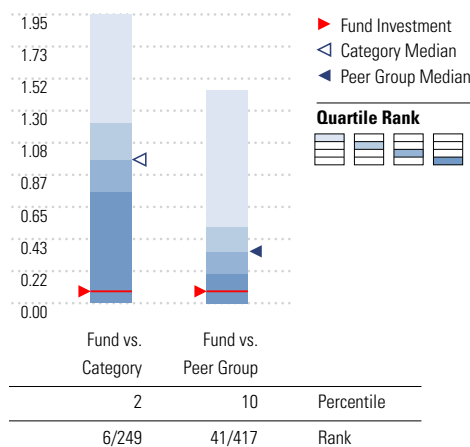
## Growth of \$10,000



## 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	0.58	-	0.57
Beta	0.94	-	0.97
R-Squared	98.88	-	98.41
Standard Deviation	14.76	15.58	15.20
Sharpe Ratio	0.51	0.48	0.51
Tracking Error	1.80	-	2.10
Information Ratio	0.11	-	0.25
Up Capture Ratio	96.75	-	99.54
Down Capture Ratio	94.52	-	97.55

## Portfolio Metrics

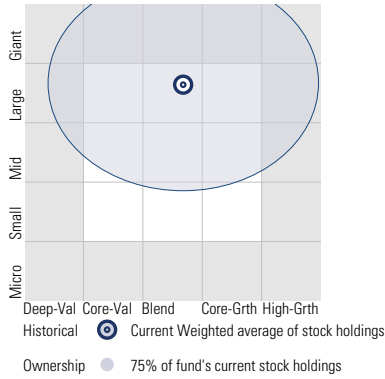
	Fund	Bmark	Cat
Price/Earnings Ratio	17.22	16.66	17.66
Price/Book Ratio	2.43	2.32	2.57
Avg Eff Duration	6.83	-	8.04

# Vanguard Target Retirement 2040 Fund VFORX

**Morningstar Category**  
Target-Date 2040

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

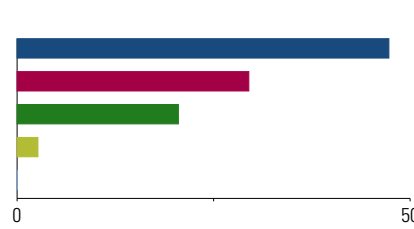
**Style Analysis** as of 06-30-2023  
Morningstar Style Box™



**Style Breakdown**

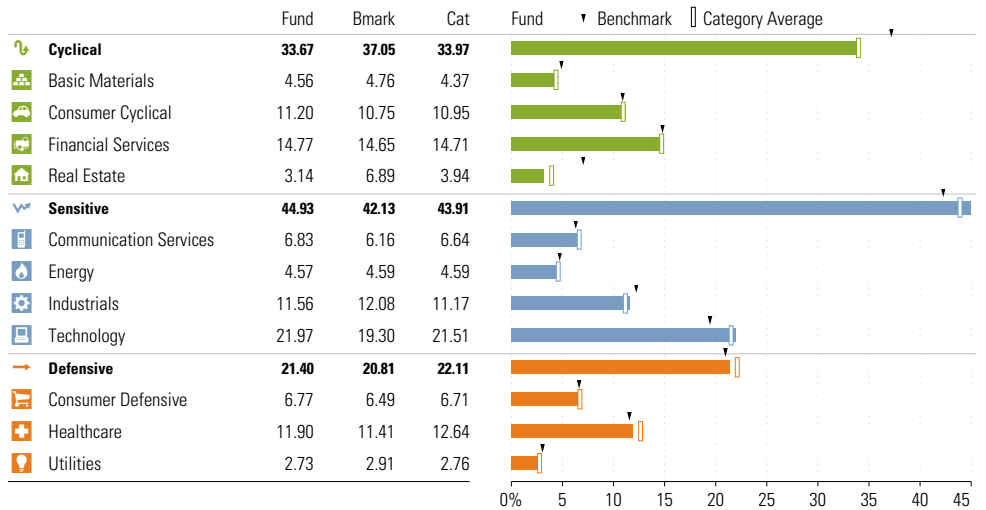


**Asset Allocation** as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	47.30	47.61
Non-US Stocks	29.48	25.98
Bonds	20.52	13.47
Cash	2.65	1.66
Other	0.04	11.27
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 06-30-2023



**Top 6 Holdings** as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	-	47.62	47.62	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	30.28	77.90	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	14.74	92.64	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	6.05	98.69	-	-
⊕ Mktliq 12/31/2049	-	1.31	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-Díaz 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 10.36 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 87.69% lower than the Target-Date 2045 category average.

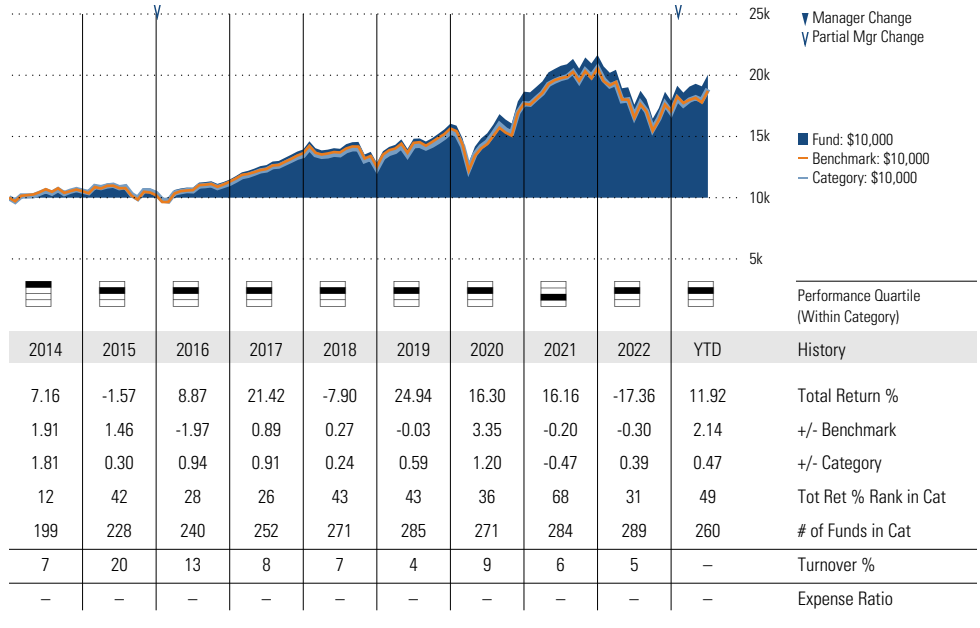
## Morningstar Investment Management LLC Analysis

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	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

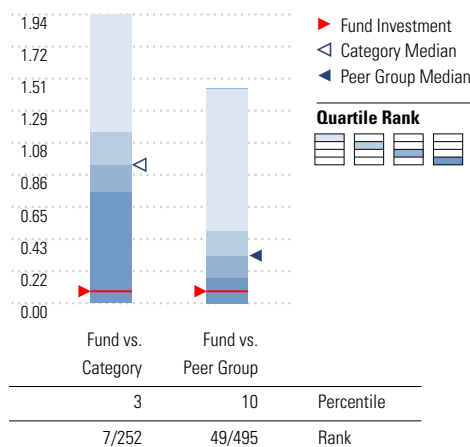
## Growth of \$10,000



## 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	0.57	-	0.32
Beta	0.97	-	0.98
R-Squared	98.82	-	98.38
Standard Deviation	15.79	16.24	15.96
Sharpe Ratio	0.55	0.52	0.54
Tracking Error	1.80	-	2.17
Information Ratio	0.18	-	0.12
Up Capture Ratio	99.46	-	99.96
Down Capture Ratio	97.63	-	99.40

## Portfolio Metrics

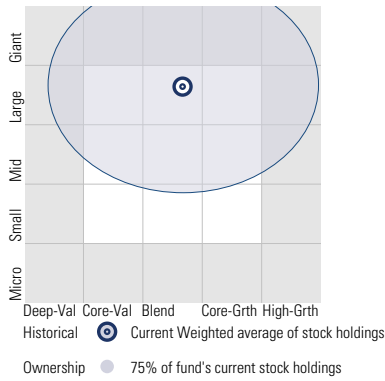
	Fund	Bmark	Cat
Price/Earnings Ratio	17.23	16.50	17.62
Price/Book Ratio	2.43	2.29	2.54
Avg Eff Duration	6.82	-	8.99

# Vanguard Target Retirement 2045 Fund VTIVX

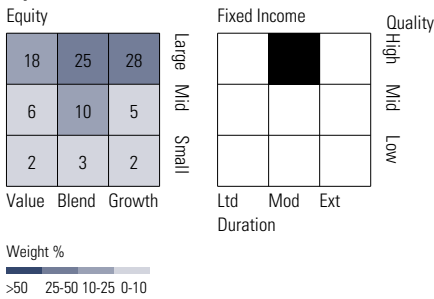
**Morningstar Category**  
Target-Date 2045

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

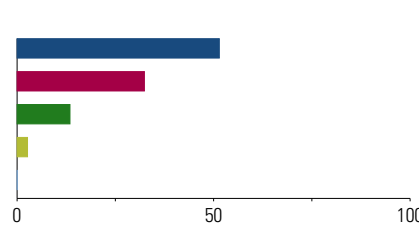
**Style Analysis** as of 06-30-2023  
Morningstar Style Box™



**Style Breakdown**

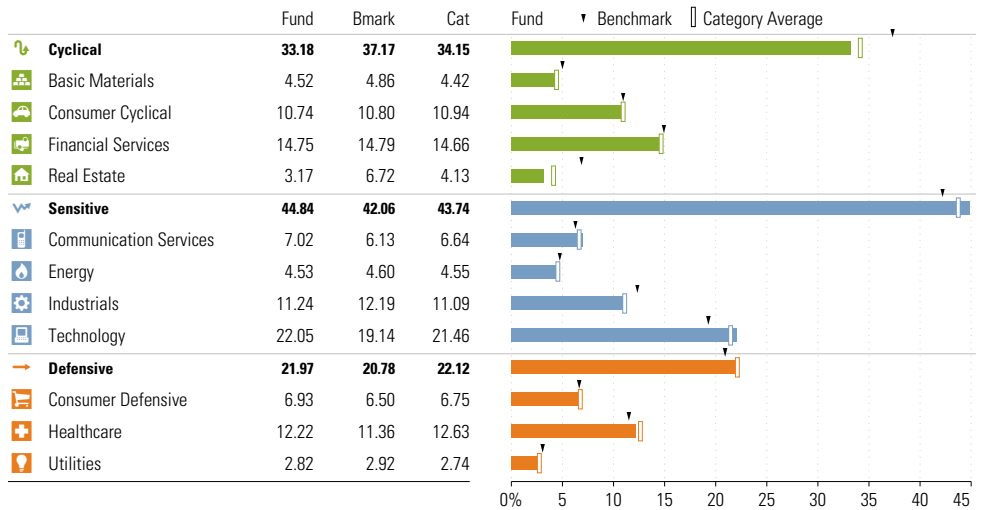


**Asset Allocation** as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	51.45	51.33
Non-US Stocks	32.39	28.19
Bonds	13.45	7.89
Cash	2.65	1.45
Other	0.04	11.14
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 06-30-2023



**Top 6 Holdings** as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	-	52.05	52.05	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	33.06	85.11	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	9.74	94.85	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	3.86	98.71	-	-
⊖ Mktliq 12/31/2049	-	1.29	100.00	-	-
⊖ Us Dollar	-	0.00	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-Díaz 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 10.36 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 2050 category average.

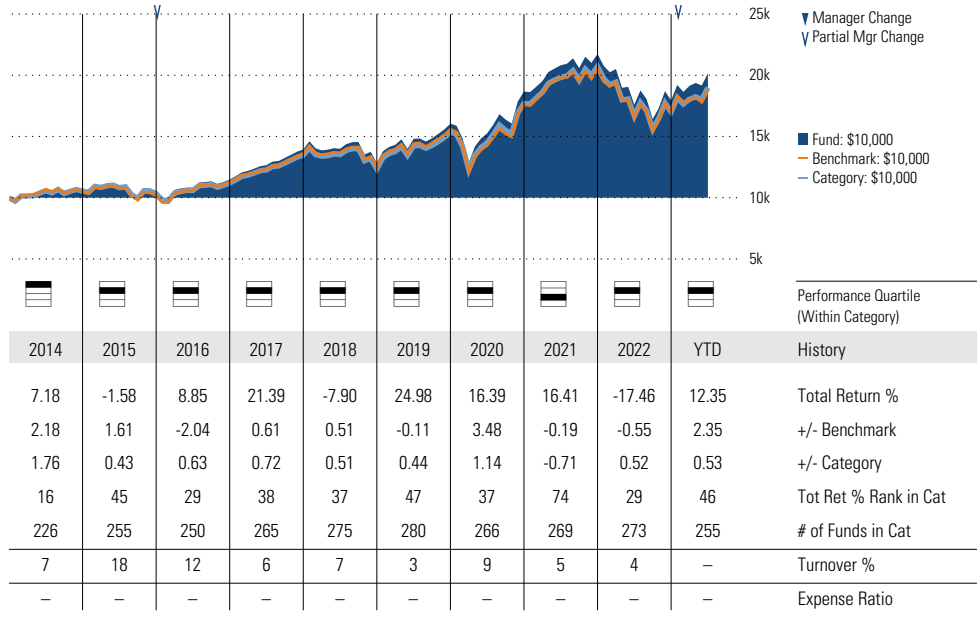
## Morningstar Investment Management LLC Analysis

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.

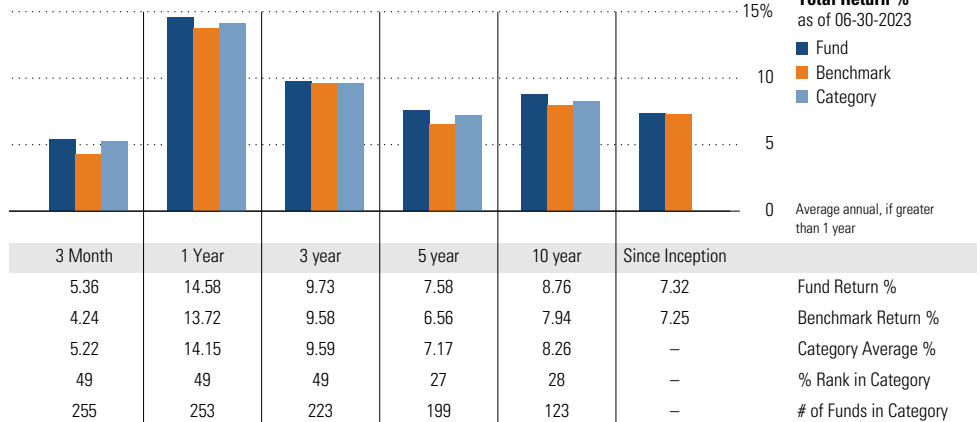
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

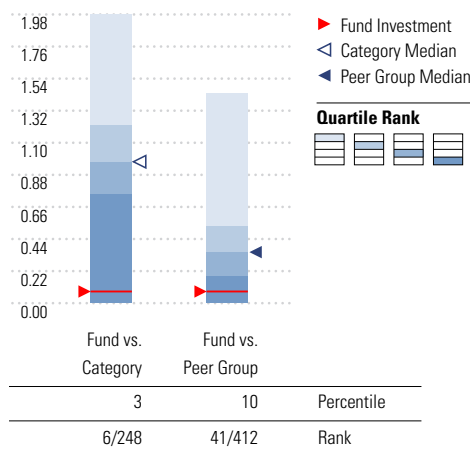
## Growth of \$10,000



## 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	0.42	-	0.18
Beta	0.97	-	0.98
R-Squared	98.73	-	98.25
Standard Deviation	16.06	16.51	16.35
Sharpe Ratio	0.56	0.54	0.54
Tracking Error	1.89	-	2.22
Information Ratio	0.08	-	0.04
Up Capture Ratio	99.39	-	100.57
Down Capture Ratio	98.40	-	100.75

## Portfolio Metrics

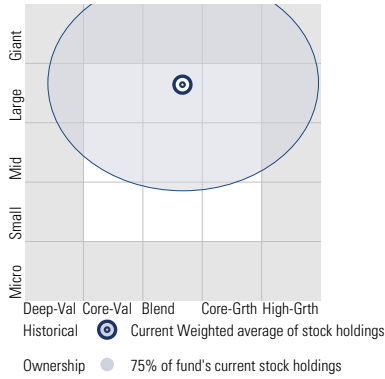
	Fund	Bmark	Cat
Price/Earnings Ratio	17.20	16.35	17.63
Price/Book Ratio	2.42	2.26	2.54
Avg Eff Duration	6.83	-	10.12

# Vanguard Target Retirement 2050 Fund VFIFX

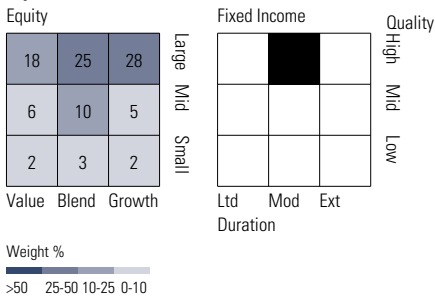
**Morningstar Category**  
Target-Date 2050

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

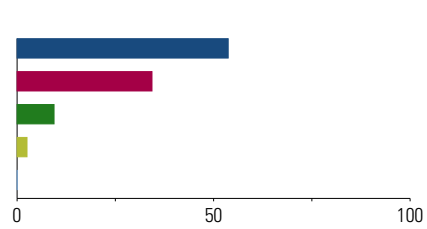
**Style Analysis** as of 06-30-2023  
Morningstar Style Box™



**Style Breakdown**

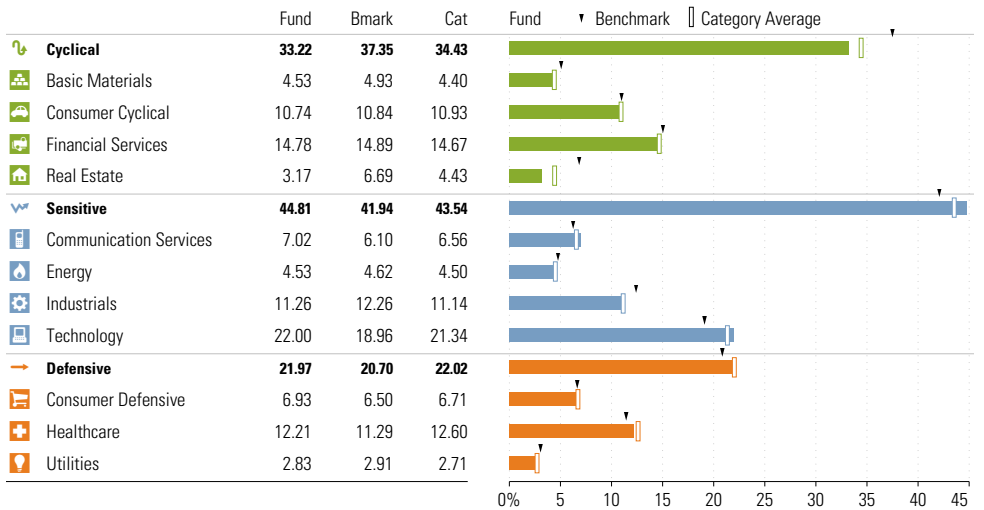


**Asset Allocation** as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	53.71	53.68
Non-US Stocks	34.32	29.22
Bonds	9.40	5.41
Cash	2.52	1.41
Other	0.04	10.27
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 06-30-2023



**Top 6 Holdings** as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	-	54.33	54.33	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	35.04	89.37	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	6.76	96.13	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	2.74	98.87	-	-
⊖ Mktliq 12/31/2049	-	1.12	99.99	-	-
⊖ Us Dollar	-	0.01	100.00	-	-

**Total Holdings 6**

⊕ Increase ⊖ Decrease ✨ New to Portfolio

# Vanguard Target Retirement 2055 Fund VFFVX

**Morningstar Category**  
Target-Date 2055

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

## Portfolio Manager(s)

Walter Nejman since 02-2013  
Aurélie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-Díaz 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 10.36 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 87.69% lower than the Target-Date 2055 category average.

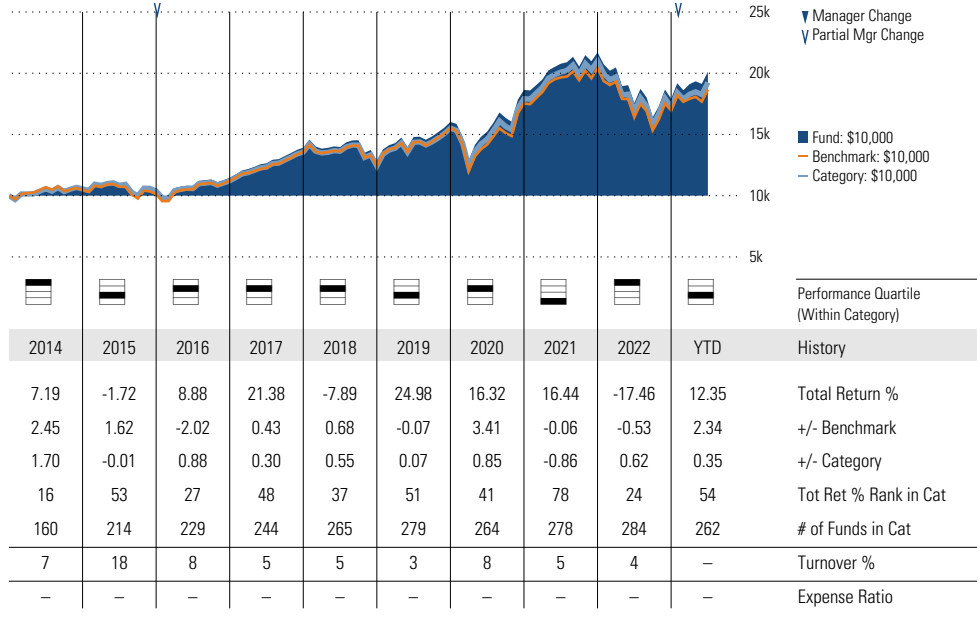
## Morningstar Investment Management LLC Analysis

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.

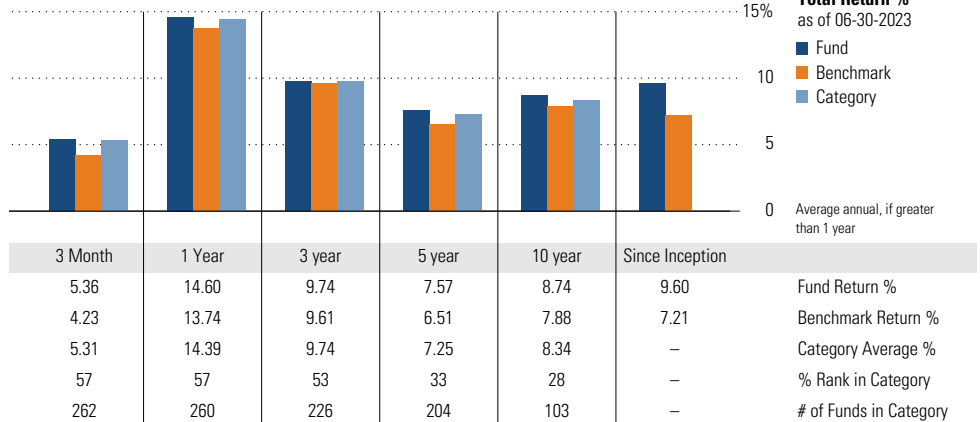
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

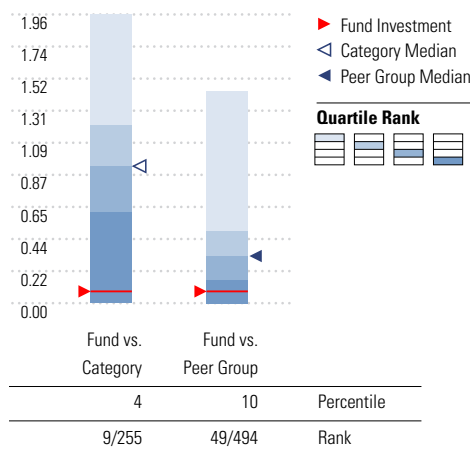
## Growth of \$10,000



## 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	0.43	-	0.25
Beta	0.96	-	0.99
R-Squared	98.68	-	98.16
Standard Deviation	16.07	16.58	16.50
Sharpe Ratio	0.56	0.54	0.55
Tracking Error	1.95	-	2.25
Information Ratio	0.07	-	0.08
Up Capture Ratio	99.17	-	101.37
Down Capture Ratio	98.20	-	101.40

## Portfolio Metrics

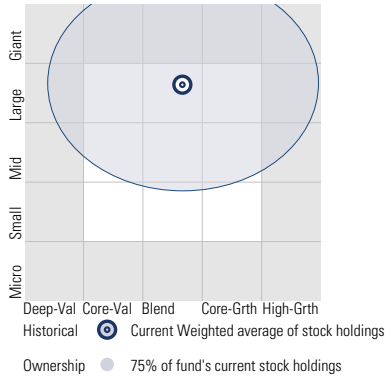
	Fund	Bmark	Cat
Price/Earnings Ratio	17.17	16.22	17.33
Price/Book Ratio	2.41	2.23	2.50
Avg Eff Duration	6.83	-	10.83

# Vanguard Target Retirement 2055 Fund VFFVX

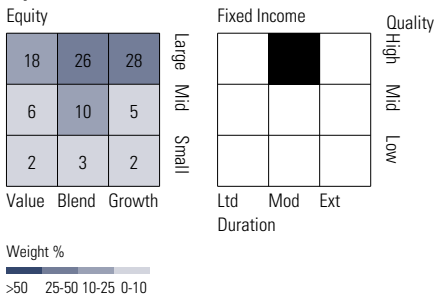
**Morningstar Category**  
Target-Date 2055

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

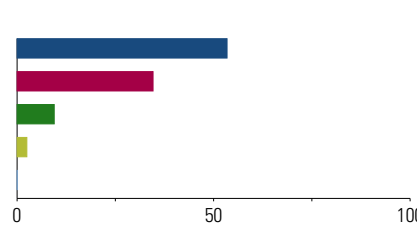
**Style Analysis** as of 06-30-2023  
Morningstar Style Box™



**Style Breakdown**

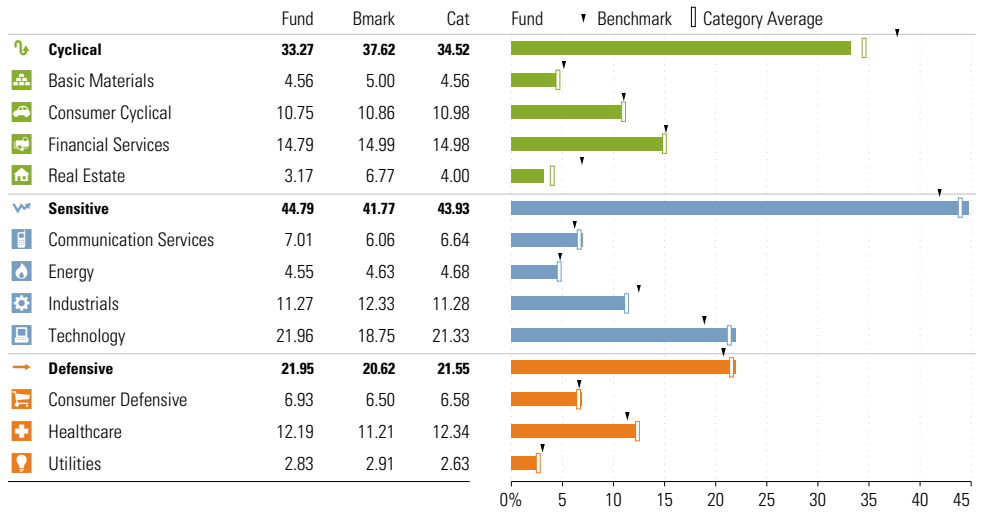


**Asset Allocation** as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	53.42	51.72
Non-US Stocks	34.59	30.27
Bonds	9.44	6.26
Cash	2.48	1.25
Other	0.04	10.51
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 06-30-2023



**Top 6 Holdings** as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	-	54.03	54.03	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	35.32	89.36	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	6.79	96.15	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	2.76	98.91	-	-
⊖ 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 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-Díaz 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 10.36 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.

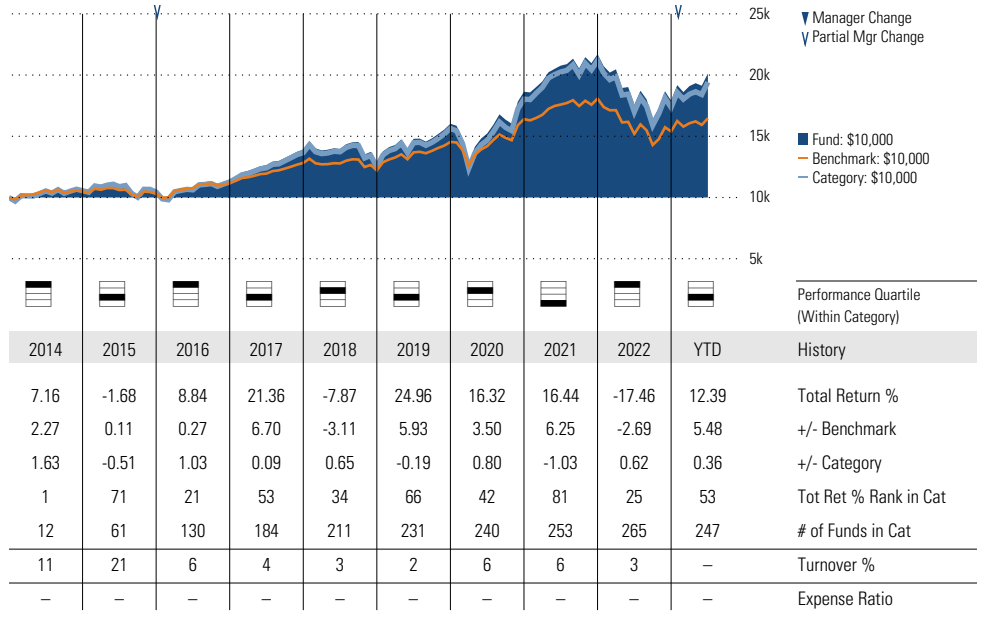
## Morningstar Investment Management LLC Analysis

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.

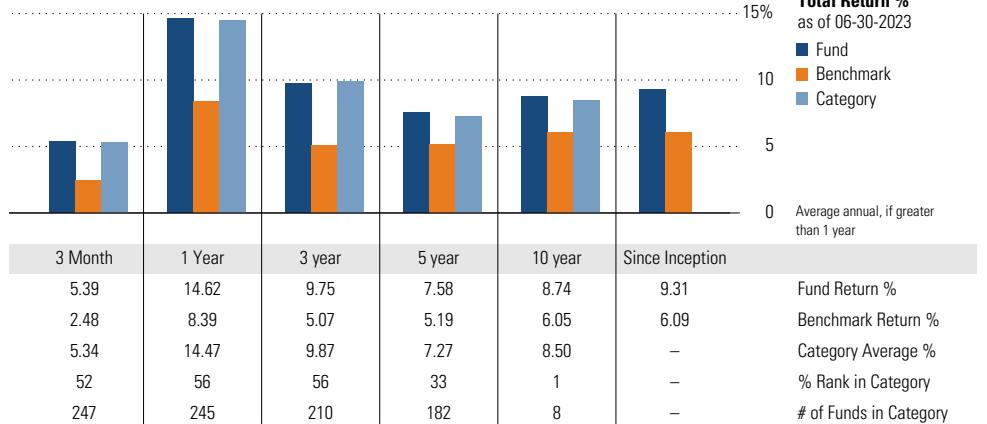
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

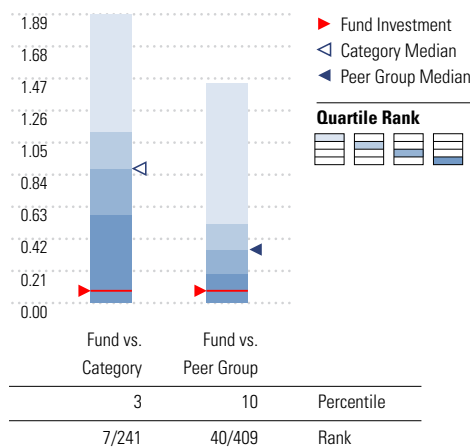
## Growth of \$10,000



## 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	3.20	-	3.15
Beta	1.30	-	1.33
R-Squared	98.27	-	97.19
Standard Deviation	16.05	12.25	16.54
Sharpe Ratio	0.56	0.33	0.55
Tracking Error	4.23	-	4.93
Information Ratio	1.11	-	0.96
Up Capture Ratio	142.76	-	146.36
Down Capture Ratio	125.83	-	130.07

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	17.13	16.12	17.31
Price/Book Ratio	2.40	2.19	2.46
Avg Eff Duration	6.83	-	10.07

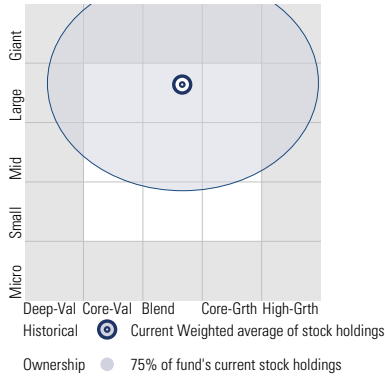
# Vanguard Target Retirement 2060 Fund VTTSX

**Morningstar Category**  
Target-Date 2060

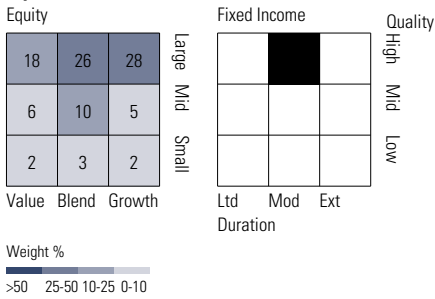
**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Style Analysis as of 06-30-2023

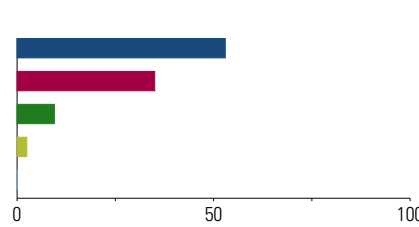
Morningstar Style Box™



## Style Breakdown

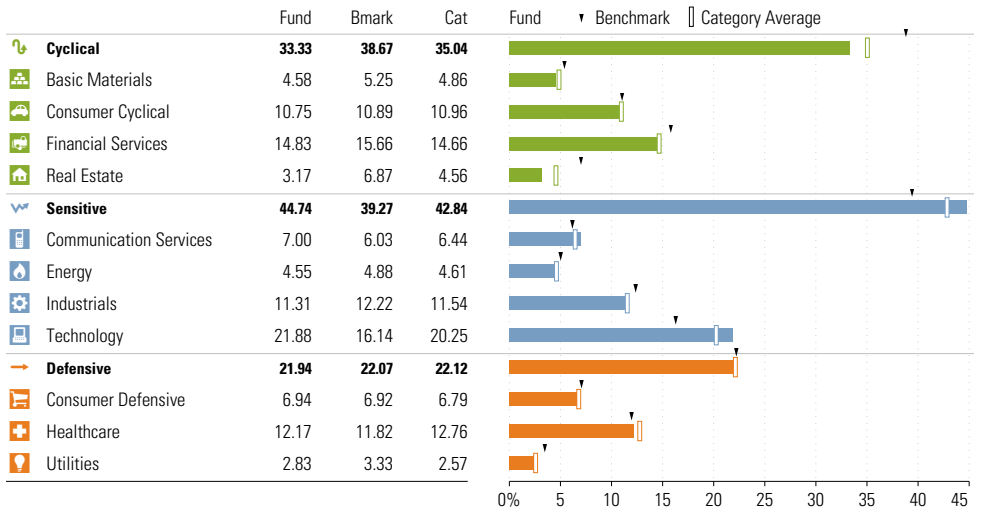


## Asset Allocation as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	52.97	46.07
Non-US Stocks	35.02	31.88
Bonds	9.48	5.06
Cash	2.47	1.50
Other	0.04	15.50
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 06-30-2023



## Top 6 Holdings as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	-	53.57	53.57	-	-
⊕ Vanguard Total Intl Stock Index Inv	-	35.77	89.35	-	-
⊕ Vanguard Total Bond Market II Idx Inv	-	6.81	96.16	-	-
⊕ Vanguard Total Intl Bd II Idx Instl	-	2.77	98.93	-	-
⊖ Mktliq 12/31/2049	-	1.06	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-Díaz since 02-2023

## Quantitative Screens

✗ **Performance:** The fund has finished in the Target-Date 2065+ category's top three quartiles in 3 of the 5 years it's been in existence.

✔ **Management:** The fund's management has been in place for 5.97 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 2065+ category average.

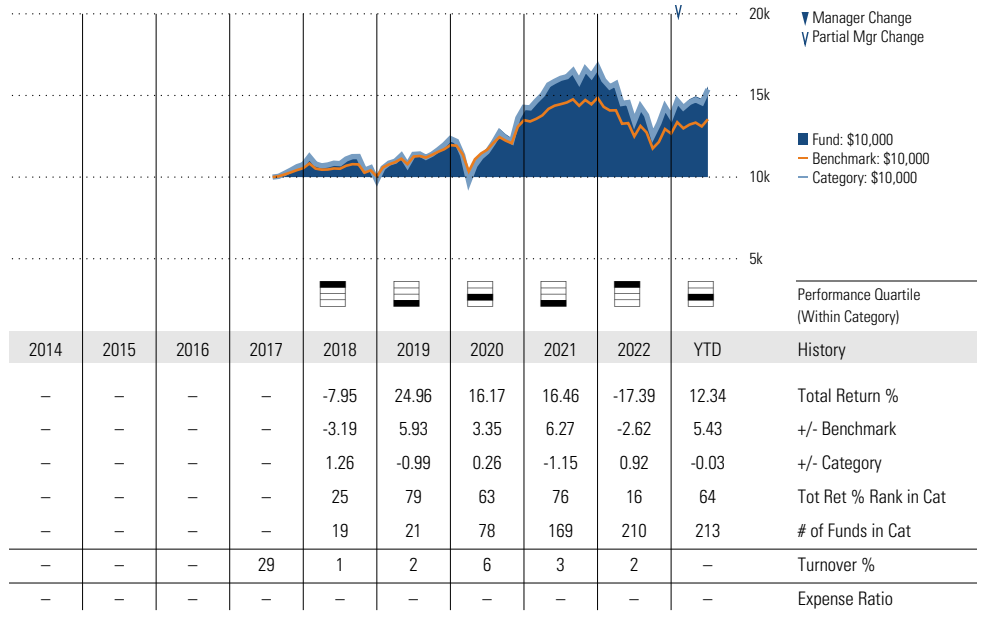
## Morningstar Investment Management LLC Analysis

This fund fails our performance consistency screen but we maintain our long-term conviction in this target-date series and continue to be comfortable recommending it for retirement plans.

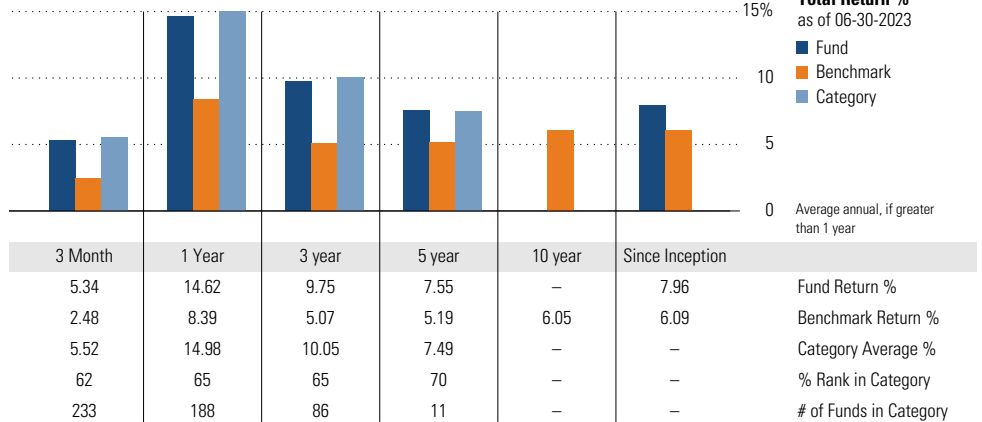
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

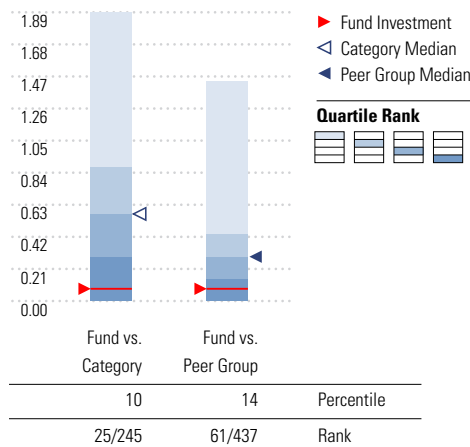
## Growth of \$10,000



## 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	3.21	-	3.21
Beta	1.30	-	1.36
R-Squared	98.26	-	97.52
Standard Deviation	16.05	12.25	16.87
Sharpe Ratio	0.56	0.33	0.55
Tracking Error	4.23	-	5.15
Information Ratio	1.11	-	0.95
Up Capture Ratio	142.77	-	149.16
Down Capture Ratio	125.82	-	132.53

## Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	17.12	16.12	17.16
Price/Book Ratio	2.40	2.19	2.42
Avg Eff Duration	6.84	-	10.51

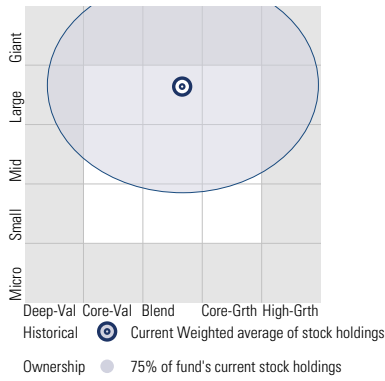
# Vanguard Target Retirement 2065 Fund VLXVX

**Morningstar Category**  
Target-Date 2065+

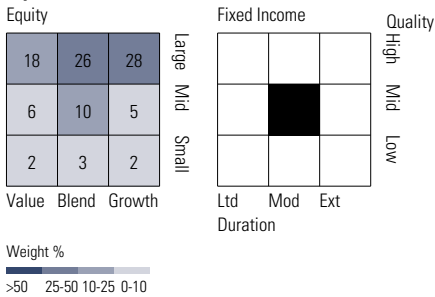
**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Style Analysis as of 06-30-2023

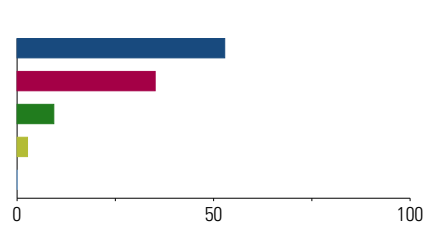
Morningstar Style Box™



## Style Breakdown

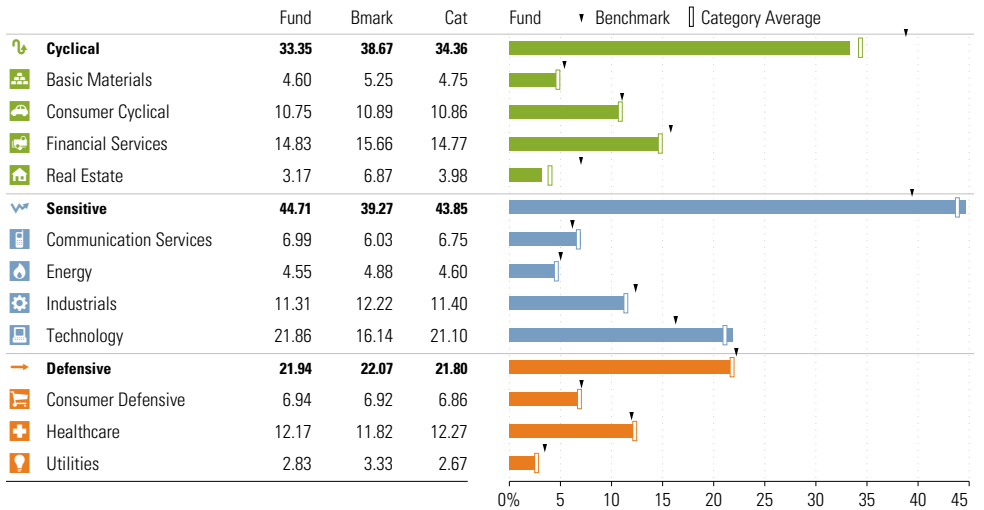


## Asset Allocation as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	52.83	47.54
Non-US Stocks	35.13	32.32
Bonds	9.34	6.74
Cash	2.65	1.97
Other	0.04	11.44
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 06-30-2023



## Top 6 Holdings as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	—	53.43	53.43	—	—
⊕ Vanguard Total Intl Stock Index Inv	—	35.89	89.32	—	—
⊕ Vanguard Total Bond Market II Idx Inv	—	6.64	95.95	—	—
⊕ Vanguard Total Intl Bd II Idx Instl	—	2.81	98.76	—	—
⊖ Mktliq 12/31/2049	—	1.22	99.98	—	—
⊕ Us Dollar	—	0.02	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-Díaz 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 86.89% lower than the Target-Date 2065+ category average.

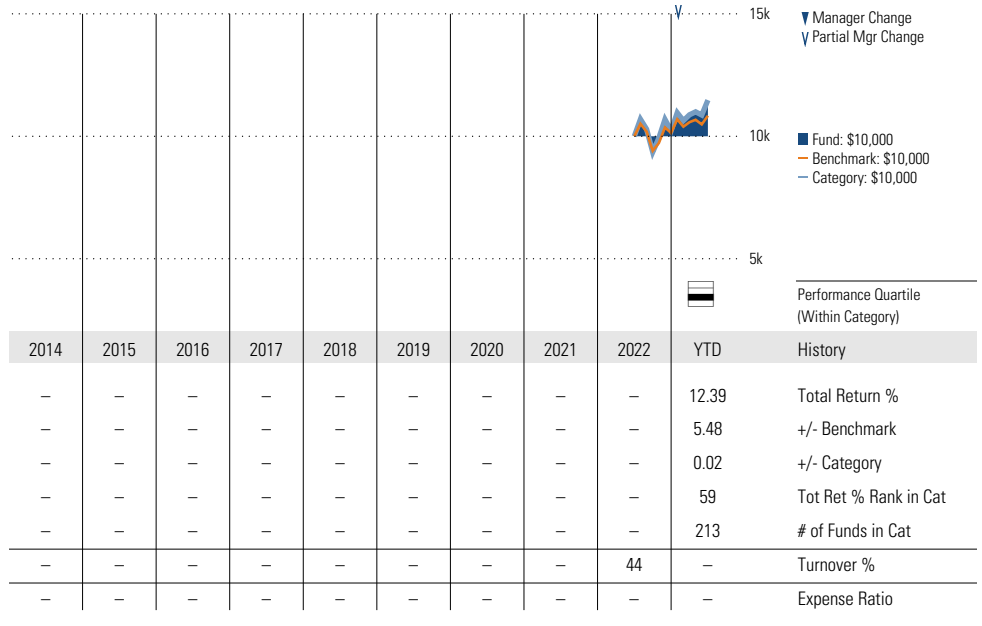
## Morningstar Investment Management LLC Analysis

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	05-31-2023
Carbon Risk Score	Low Risk	12-31-2022

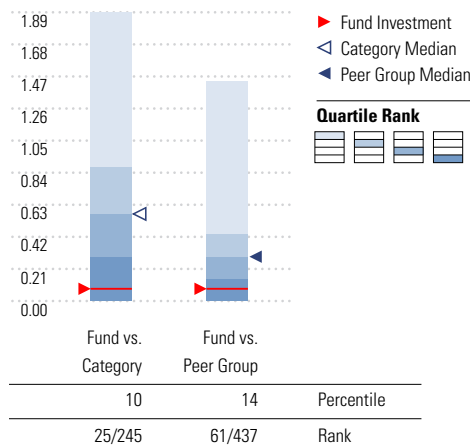
## Growth of \$10,000



## 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	-	-	3.21
Beta	-	-	1.36
R-Squared	-	-	97.52
Standard Deviation	-	12.25	16.87
Sharpe Ratio	-	0.33	0.55
Tracking Error	-	-	5.15
Information Ratio	-	-	0.95
Up Capture Ratio	-	-	149.16
Down Capture Ratio	-	-	132.53

## Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	17.14	16.12	17.16
Price/Book Ratio	2.40	2.19	2.42
Avg Eff Duration	6.84	-	10.51

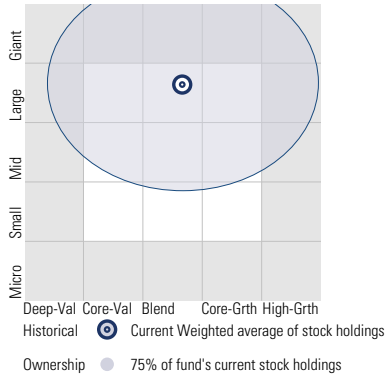
# Vanguard Target Retirement 2070 Fund VSVNX

**Morningstar Category**  
Target-Date 2065+

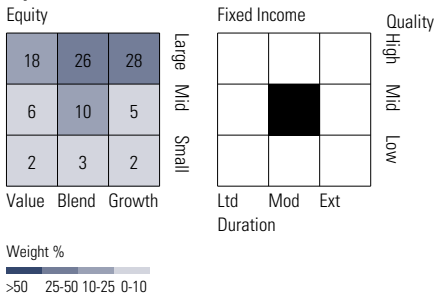
**Morningstar Index**  
Morningstar Mod Tgt Risk TR USD

## Style Analysis as of 06-30-2023

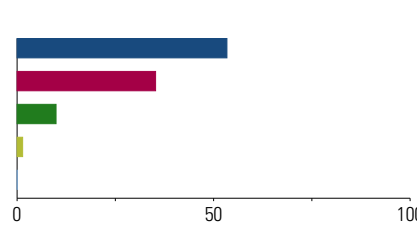
Morningstar Style Box™



## Style Breakdown

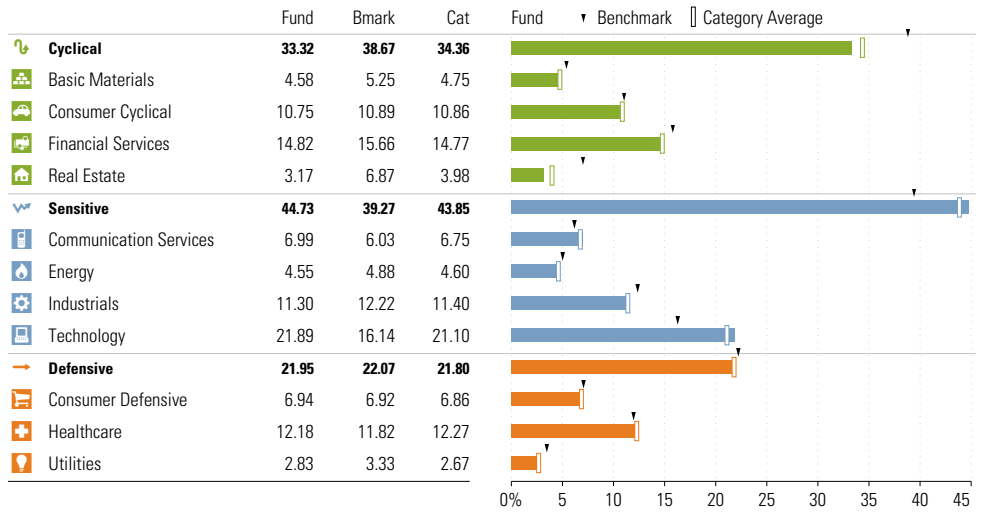


## Asset Allocation as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	53.39	47.54
Non-US Stocks	35.24	32.32
Bonds	9.91	6.74
Cash	1.41	1.97
Other	0.04	11.44
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

## Sector Weighting as of 06-30-2023



## Top 6 Holdings as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Instl Pls	—	54.00	54.00	—	—
⊕ Vanguard Total Intl Stock Index Inv	—	35.99	89.99	—	—
⊕ Vanguard Total Bond Market II Idx Inv	—	7.02	97.01	—	—
⊕ Vanguard Total Intl Bd II Idx Instl	—	3.00	100.01	—	—
⊕ Us Dollar	—	0.09	100.10	—	—
⊕ Mktliq 12/31/2049	—	0.09	100.19	—	—

## 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  
Aur lie Denis since 02-2023  
Michael Roach since 02-2023  
Roger Aliaga-D az since 02-2023

## Quantitative Screens

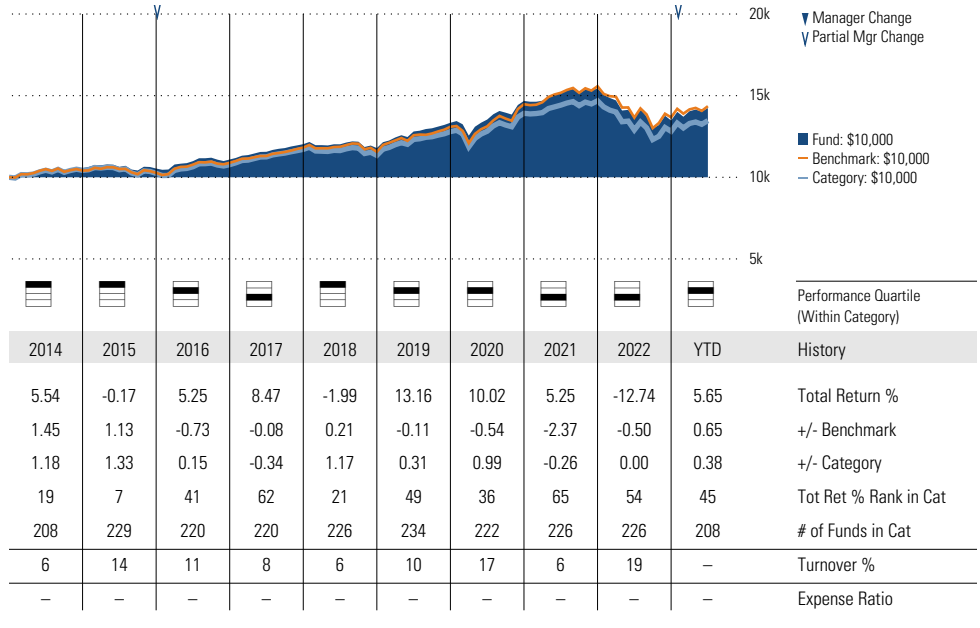
✔ **Performance:** The fund has finished in the Target-Date Retirement category's top three quartiles in 10 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 10.36 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 Retirement category average.

## Growth of \$10,000



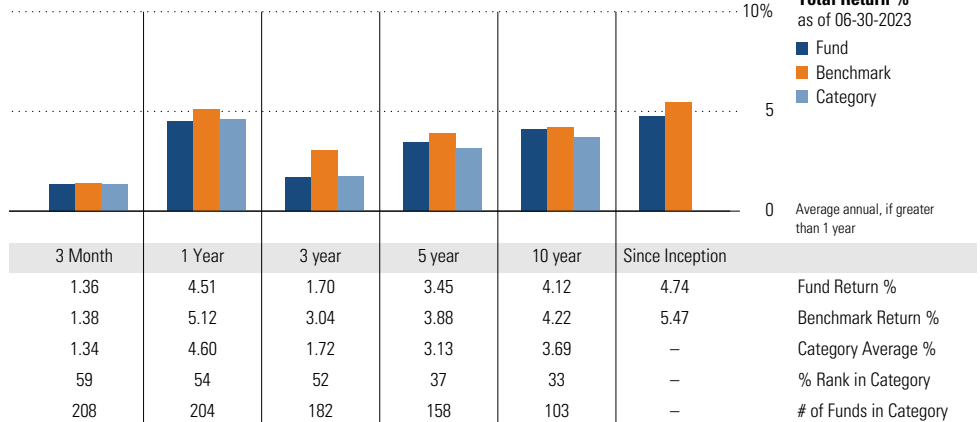
## Morningstar Investment Management LLC Analysis

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.

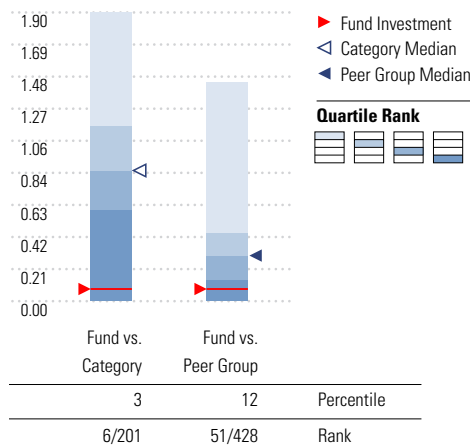
## ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	05-31-2023
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	-1.02	-	-0.99
Beta	0.89	-	0.94
R-Squared	97.28	-	96.06
Standard Deviation	8.05	8.87	8.52
Sharpe Ratio	0.05	0.20	0.06
Tracking Error	1.62	-	2.00
Information Ratio	-0.82	-	-0.58
Up Capture Ratio	85.92	-	90.05
Down Capture Ratio	94.29	-	98.19

## Portfolio Metrics

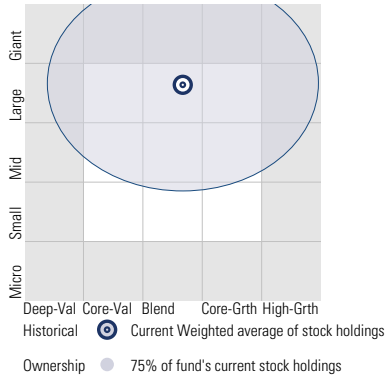
	Fund	Bmark	Cat
Price/Earnings Ratio	17.11	17.86	17.49
Price/Book Ratio	2.41	2.53	2.40
Avg Eff Duration	5.84	-	6.52

# Vanguard Target Retirement Income Fund VTINX

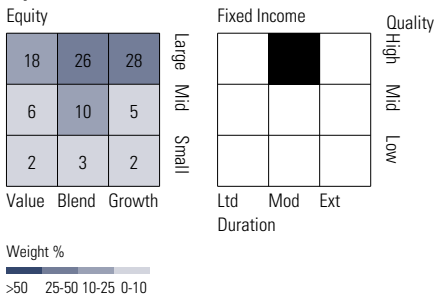
**Morningstar Category**  
Target-Date Retirement

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

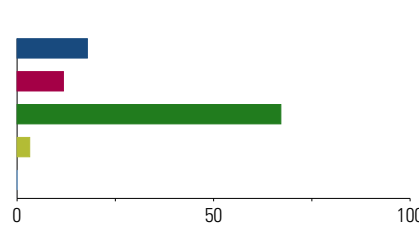
**Style Analysis** as of 06-30-2023  
Morningstar Style Box™



**Style Breakdown**

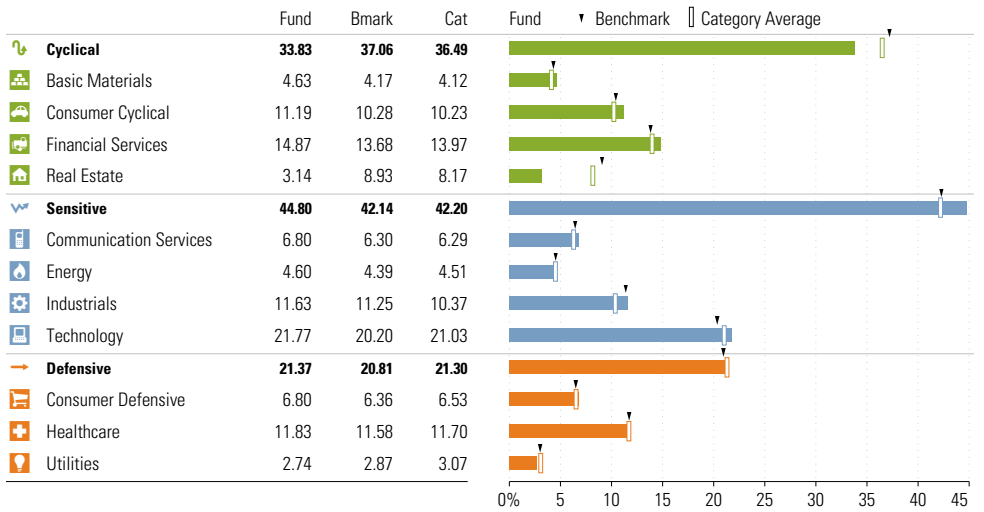


**Asset Allocation** as of 06-30-2023



Asset Class	Net %	Cat%
US Stocks	17.88	19.02
Non-US Stocks	11.78	9.86
Bonds	67.11	53.57
Cash	3.21	4.17
Other	0.02	13.39
<b>Total</b>	<b>100.00</b>	<b>100.00</b>

**Sector Weighting** as of 06-30-2023



**Top 7 Holdings** as of 06-30-2023

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Bond Market II Idx Inv	—	36.32	36.32	—	—
⊖ Vanguard Total Stock Mkt Idx Instl Pls	—	18.00	54.32	—	—
⊕ Vanguard Shrt-Term Infl-Prot Sec Idx Adm	—	16.60	70.92	—	—
⊕ Vanguard Total Intl Bd II Idx Instl	—	16.09	87.01	—	—
⊕ Vanguard Total Intl Stock Index Inv	—	12.11	99.11	—	—
⊖ Mktliq 12/31/2049	—	0.91	100.02	—	—
⊕ Us Dollar	—	0.02	100.05	—	—

**Total Holdings 7**

⊕ Increase ⊖ Decrease ✨ New to Portfolio