# American Funds American Balanced R6 RLBGX

#### Morningstar Category Allocation--50% to 70%

Morningstar Index

Morningstar US Mod Tgt Alloc NR USD

**Total Return %** 

as of 12-31-2021

Benchmark
 Category

Average annual, if greater than 1 year

Benchmark Return %

Category Average %

% Rank in Category

Fund

0.74

0.95

96 69

10.34

1.37

1.96

-0.01

98.32

95.81

Fund

20.89

3.86

6.32

# of Funds in Category

Bmark

\_

10.74

1.33

Bmark

21.51

3.35

6.36

Cat

-1.41

1.06

93 55

11.83

1.19

3 15

-0.19

101.24

110.25

Cat

22.00

3.43

5.11

Fund Return %

Fund

20%

15

10

5

0

#### Portfolio Manager(s)

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

#### Quantitative Screens

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

Management: The fund's management has been in place for 23.01 years.

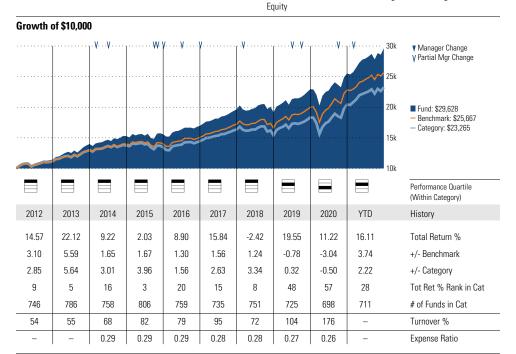
Style: The fund has landed in its primary style box — Large Blend — 100 % of the time over the past three years.

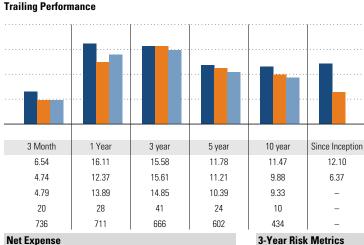
#### Morningstar Investment Management LLC Analysis

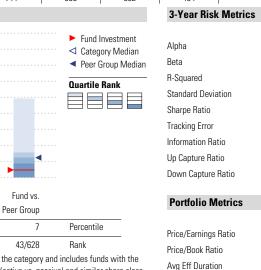
This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

#### **ESG Metrics**

Metric	Rating	Updated
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021







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

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Fund vs.

Category

14/749

2

4.92

4 37

3.83

3.28

2.73

2.19

1 64

1.09

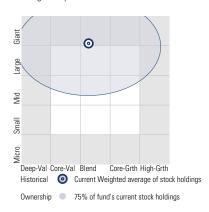
0.55

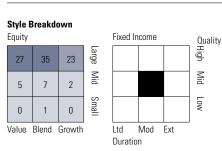
0.00



# American Funds American Balanced R6 RLBGX

#### Style Analysis as of 12-31-2021 Morningstar Style Box™





Weight %

>50 25-50 10-25 0-10

#### Top 10 Holdings as of 12-31-2021

0	50	100

#### Sector Weighting as of 12-31-2021

Asset Allocation as of 12-31-2021

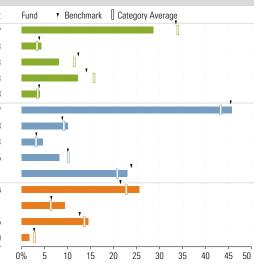
		Fund	Bmark	Cat
Դ	Cyclical	28.62	33.38	33.97
æ.	Basic Materials	4.25	3.66	3.33
A	Consumer Cyclical	8.09	12.16	11.43
ц <b>р</b>	Financial Services	12.27	13.92	15.73
ŵ	Real Estate	4.01	3.64	3.48
$\sim$	Sensitive	45.78	45.30	43.27
	Communication Services	10.02	8.69	9.18
0	Energy	4.59	3.03	3.13
٥	Industrials	8.16	9.90	10.15
	Technology	23.01	23.68	20.81
-	Defensive	25.60	21.32	22.76
	Consumer Defensive	9.41	6.29	6.31
٠	Healthcare	14.49	12.46	13.65
9	Utilities	1.70	2.57	2.80

#### Equity Asset Class Net % Cat% US Stocks 54.12 48.87 Non-US Stocks 9.44 11.39 26.22 Bonds 31.64 Cash 4.44 5.03 Other 5.79 3.06 Total 100.00 100.00

**Morningstar Index** 

Morningstar US Mod Tgt Alloc NR USD

Morningstar Category Allocation--50% to 70%



Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Capital Group Central Cash Fund	-	6.46	6.46	_	_
$\oplus$ Cap Grp Cent Fd Ser li	-	5.18	11.64	-	-
⊖ Microsoft Corp	-	4.42	16.05	52.24	Technology
$\ominus$ Broadcom Inc	-	3.18	19.23	55.38	Technology
$\oplus$ UnitedHealth Group Inc	-	2.31	21.54	44.79	Healthcare
娄 Cash And Other Assets Less Liablities	_	2.21	23.75	-	-
$\oplus$ Philip Morris International Inc	-	1.68	25.43	20.67	Consumer Defensive
$\ominus$ Taiwan Semiconductor Manufacturing Co Ltd ADR	-	1.52	26.95	11.70	Technology
$\ominus$ The Home Depot Inc	-	1.51	28.47	58.73	Consumer Cyclical
$\oplus$ United States Treasury Notes 0.127%	10-2026	1.42	29.88	_	-

#### Total Holdings 1869

 $\oplus$  Increase  $\oplus$  Decrease arrow New to Portfolio



# American Funds Intl Gr and Inc R6 RIGGX

Portfolio Manager(s) Andrew Suzman since 10-2008 Steven Watson 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 13.26 years.

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

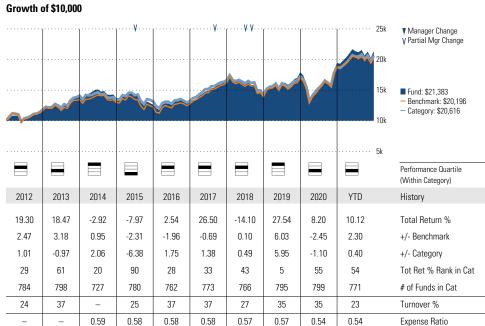
Net Expense: The fund's expense ratio of 0.54 is 42.55% lower than the Foreign Large Blend category average.

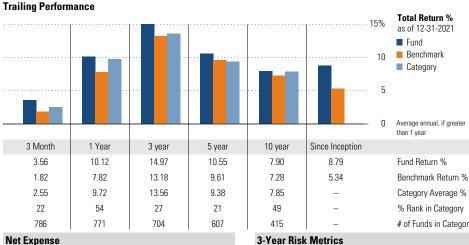
#### **Morningstar Investment Management LLC Analysis**

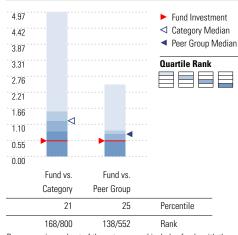
This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

#### **ESG Metrics**

Metric	Rating	Updated
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	2	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021







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

# of Funds in Category **3-Year Risk Metrics** Fund Bmark Cat Alpha 0.60 0.94 1 00 Beta 1 10 97.98 **R-Squared** 94.25 Standard Deviation 18 84 17 03 17 48 Sharpe Ratio 0.79 0 76 0.80 Tracking Error 3.13 4 25 Information Ratio 0.57 0.25 Up Capture Ratio 109.94 101.95 Down Capture Ratio 107.43 98.67

#### **Portfolio Metrics** Fund Bmark Cat Price/Earnings Ratio 16 40 15.08 16.26 Price/Book Ratio 2.15 1.88 1.95 Geom Avg Mkt Cap \$B 55.02 47 47 56.01 ROE 19.45 17.76 18.41

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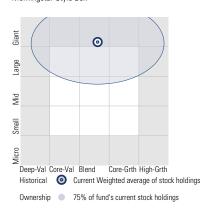
**Morningstar Category** Morningstar Index Foreign Large Blend

MSCI ACWI Ex USA NR USD

**Total Return %** as of 12-31-2021

# American Funds Intl Gr and Inc R6 RIGGX

Style Analysis as of 12-31-2021 Morningstar Style Box™





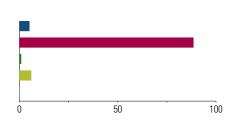


Weight %

<25

>50 25-50 10-25 0-10

#### World Regions % Equity 12-31-2021



#### Sector Weighting as of 12-31-2021

Asset Allocation as of 12-31-2021

		Fund	Bmark	Cat
Դ	Cyclical	38.21	40.77	38.54
<b>.</b> #.	Basic Materials	5.23	8.11	7.56
	Consumer Cyclical	11.21	11.11	11.22
ц.	Financial Services	19.80	19.16	17.67
ŵ	Real Estate	1.97	2.39	2.09
V <sup>ar</sup>	Sensitive	38.99	38.11	37.88
đ	Communication Services	5.39	6.80	5.96
0	Energy	4.30	5.01	4.10
¢	Industrials	12.02	12.27	15.11
	Technology	17.28	14.03	12.71
-	Defensive	22.80	21.12	23.58
F	Consumer Defensive	11.40	8.39	9.12
٠	Healthcare	8.32	9.70	11.68
9	Utilities	3.08	3.03	2.78

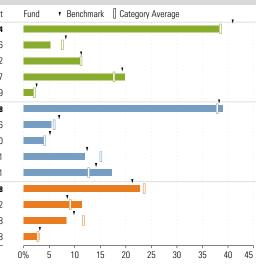
Total	100.00	100.00
Other	0.02	0.66
Cash	5.86	0.99
Bonds	0.74	0.37
Non-US Stocks	88.43	95.06
US Stocks	4.95	2.90
Asset Class	Net %	Cat%

**Morningstar Index** 

MSCI ACWI Ex USA NR USD

**Morningstar Category** 

Foreign Large Blend



		Greater Asia	Fund % 30.07	Cat % 35.68	Americas	Fund % 12.73	Cat % 8.02	Greater Europe	Fund % 57.20	Cat % 56.30	Market Maturity	Fund %
		Japan	6.16	19.04	North America	9.33	7.05	United Kingdom	13.02	12.54	Developed Markets	83.84
		Australasia	0.62	4.55	Central/Latin	3.40	0.97	W euro-ex UK	41.00	42.20	Emerging Markets	16.16
		Asia-4 Tigers	13.65	6.95				Emrana Europe	2.79	0.63	Not Available	0.00
		Asia-ex 4 Tigers	9.64	5.14				Africa	0.39	0.93		
		Not Classified	0.00	0.00								
50-75	>75											

Top 10 Holdings as of 12-31-2021

25-50

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
€ Capital Group Central Cash M	6.27	6.27	_	_
$oldsymbol{\oplus}$ Taiwan Semiconductor Manufacturing Co Ltd	3.88	10.16	18.02	Technology
$\ominus$ ASML Holding NV	2.41	12.56	78.48	Technology
$\ominus$ AstraZeneca PLC	2.17	14.73	21.25	Healthcare
$\ominus$ British American Tobacco PLC	2.00	16.74	8.90	Consumer Defensive
$ earrow  ext{Tokyo Electron Ltd} $	1.89	18.62	74.76	Technology
➔ Airbus SE	1.65	20.27	25.15	Industrials
$\ominus$ Evolution AB	1.60	21.87	54.65	Consumer Cyclical
$\ni$ Philip Morris International Inc	1.38	23.25	20.67	Consumer Defensive
igodot axa sa	1.30	24.56	41.53	Financial Services

#### Total Holdings 265

 $\oplus$  Increase  $\oplus$  Decrease otin New to Portfolio

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**ESG Metrics** 

ESG Commitment

Sustainability Rating

Metric

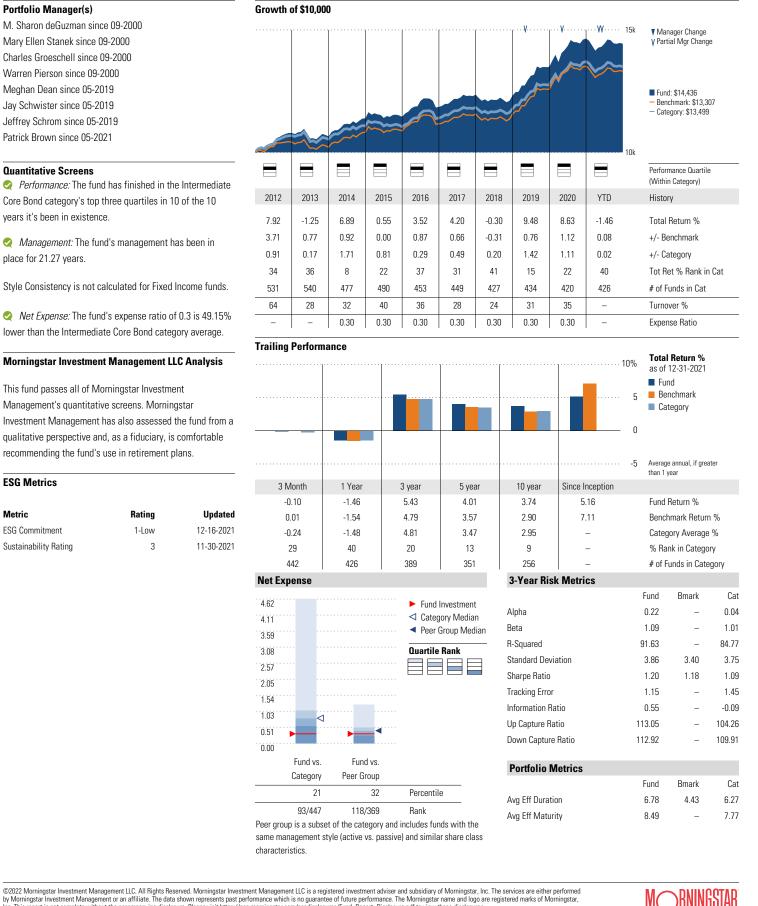
## Baird Aggregate Bond Inst BAGIX

Morningstar Category

Intermediate Core Bond

Morningstar Index

BBgBarc US Agg Bond TR USD



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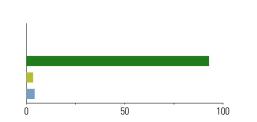


# Baird Aggregate Bond Inst BAGIX

#### Style Analysis as of 12-31-2021 Style Breakdown Fixed Income Quality High Mid Low Ltd Mod Ext

Duration

Credit Rating Breakdown	Fund	Bmark	Cat
AAA	59.10	3.53	46.66
AA	3.40	74.59	11.82
A	13.60	10.82	22.68
BBB	23.20	8.32	15.84
BB	0.70	0.28	1.55
В	0.00	0.00	0.51
Below B	0.00	0.00	0.23
Not Rated	0.00	2.46	0.72



#### Sector Weighting as of 12-31-2021

Asset Allocation as of 12-31-2021

	Fund	Bmark	Cat	Fund	۷B	enchma	ark 🛛 C	ategory A	Average			
Government	30.09	-	30.55				-	-				
Treasury	30.04	-	24.84				-		]			
Inflation – Protected	0.00	-	1.50									
Agency/Quasi Agency	0.03	-	1.23	10								
Other Government Related	0.02	-	2.98	[								
Corporate	38.96	-	26.86						]			
Corporate Bond	35.00	-	25.66						]			
Bank Loan	0.00	-	0.06	0								
Convertible	3.96	-	1.11									
Preferred	0.00	-	0.03	(								
Securitized	26.64	-	32.19									
Agency MBS Pass-Through	14.75	-	21.27					0				
Agency MBS ARM	0.00	-	0.05	0								
Agency MBS CMO	3.61	-	3.75									
Non-Agency Residential MBS	0.41	-	0.24	0								
Commercial MBS	4.64	-	1.28									
Asset-Backed	3.23	-	5.60									
Covered Bond	0.00	-	0.00	0								
Municipal	1.09	-	0.84									
Cash & Equivalents	3.22	-	7.18		0							
Other	0.00	-	2.41									
				0%	5	10	15	20	25	30	35	4

#### Top 10 Holdings as of 12-31-2021

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
United States Treasury Bonds 2.5%	02-2045	4.24	4.24	_
⊕ United States Treasury Notes 0.38%	07-2024	3.69	7.92	-
$\odot$ United States Treasury Bonds 2.88%	05-2043	3.60	11.52	-
⊕ United States Treasury Notes 2.25%	11-2025	3.13	14.66	-
$\ominus$ First American Government Obligs U	02-2030	3.01	17.66	-
⊖ United States Treasury Notes 2%	11-2026	2.98	20.65	-
$\odot$ United States Treasury Notes 2.25%	11-2027	2.74	23.38	-
⊕ United States Treasury Bonds 1.38%	11-2040	2.12	25.50	-
⊖ United States Treasury Notes 2.5%	05-2024	2.09	27.59	_
⊕ United States Treasury Notes 1.13%	08-2028	1.66	29.26	_

#### Total Holdings 1520

🕀 Increase  $\ominus$  Decrease 🕸 New to Portfolio

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Morningstar Index **Morningstar Category** Intermediate Core Bond

BBgBarc US Agg Bond TR USD

Asset Class         Net %         Cat%           US Stocks         0.00         0.05           Non-US Stocks         0.00         0.00           Bonds         92.76         95.78           Cash         3.22         1.97           Other         4.03         2.20	Total	100.00	100.00
US Stocks         0.00         0.05           Non-US Stocks         0.00         0.00           Bonds         92.76         95.78	Other	4.03	2.20
US Stocks         0.00         0.05           Non-US Stocks         0.00         0.00	Cash	3.22	1.97
US Stocks 0.00 0.05	Bonds	92.76	95.78
	Non-US Stocks	0.00	0.00
Asset Class Net % Cat%	US Stocks	0.00	0.05
	Asset Class	Net %	Cat%

# DFA US Small Cap I DFSTX

#### Portfolio Manager(s)

Jed Fogdall since 02-2012 Joel Schneider since 02-2017 Marc Leblond since 02-2020

#### Quantitative Screens

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

Management: The fund's management has been in place for 9.85 years.

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

Net Expense: The fund's expense ratio of 0.33 is 67.65% lower than the Small 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	11-30-2021

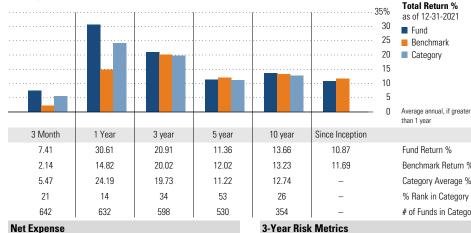


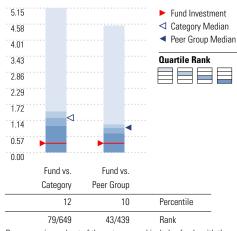


**Morningstar Category** 

Small Blend







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

Benchmark Return % Category Average % % Rank in Category # of Funds in Category **3-Year Risk Metrics** Fund **Bmark** Cat Alpha 1.26 0.21 0.98 0.97 Beta R-Squared 95.22 94.06 Standard Deviation 23 75 23.68 23.80 Sharpe Ratio 0.89 0.86 0.84 Tracking Error 5.21 5.65 Information Ratio 0.17 -0.24 Up Capture Ratio 103.77 98.47 Down Capture Ratio 103.26 99.14 Deutfelie Metuiee

Morningstar Index

Russell 2000 TR USD

Formono metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	15.54	16.51	18.35
Price/Book Ratio	2.32	2.42	2.71
Geom Avg Mkt Cap \$B	3.03	2.72	5.01
ROE	15.99	8.22	17.72

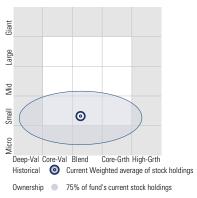
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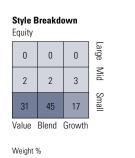


# DFA US Small Cap I DFSTX

#### Style Analysis as of 12-31-2021

Morningstar Style Box™





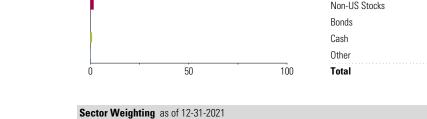
>50 25-50 10-25 0-10

#### Top 15 Holdings as of 12-31-2021

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
€ S+p500 Emini Fut Mar22 Xcme 20220318	0.83	0.83	-	_
∋ Ssc Government Mm Gvmxx	0.64	1.47	_	-
Synaptics Inc	0.47	1.94	200.32	Technology
Tenet Healthcare Corp	0.43	2.37	104.58	Healthcare
Saia Inc	0.42	2.79	86.41	Industrials
Regal Rexnord Corp	0.41	3.20	45.31	Industrials
∋ Omnicell Inc	0.39	3.60	50.34	Healthcare
$\supset$ WESCO International Inc	0.36	3.96	67.63	Industrials
Lattice Semiconductor Corp	0.35	4.31	68.18	Technology
Olin Corp	0.34	4.65	137.46	Basic Materials
Crocs Inc	0.33	4.98	104.63	Consumer Cyclical
igodolog Louisiana-Pacific Corp	0.31	5.29	112.62	Industrials
Medpace Holdings Inc	0.31	5.60	56.35	Healthcare
∋ ASGN Inc	0.31	5.91	47.73	Technology
TopBuild Corp	0.31	6.22	49.89	Industrials

#### Total Holdings 2040

🕀 Increase 👄 Decrease 🕸 New to Portfolio



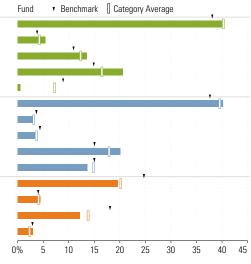
Asset Allocation as of 12-31-2021

		Fund	Bmark	Cat	
Դ	Cyclical	40.13	37.94	40.26	
æ	Basic Materials	5.48	3.66	4.25	
	Consumer Cyclical	13.52	10.79	12.31	
цф.	Financial Services	20.56	14.74	16.48	
ŵ	Real Estate	0.57	8.75	7.22	
٧vr	Sensitive	40.21	37.49	39.55	
đ	Communication Services	3.09	3.52	3.15	
0	Energy	3.33	4.22	3.68	
¢	Industrials	20.10	14.89	17.89	
	Technology	13.69	14.86	14.83	
-	Defensive	19.66	24.57	20.19	
F	Consumer Defensive	4.45	3.88	4.08	
•	Healthcare	12.19	17.94	13.79	
<b>?</b>	Utilities	3.02	2.75	2.32	



Morningstar Index

**Morningstar Category** 





### Federated Hermes Govt Ultrashort R6 FGULX

Growth of \$10,000

#### 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 4 of the 5 years it's been in existence.

Management: The fund's management has been in place for 24.49 years.

Style Consistency is not calculated for Fixed Income funds.

Net Expense: The fund's expense ratio of 0.24 is 45.45% lower than the Ultrashort Bond category average.

#### Morningstar Investment Management LLC Analysis

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

									15k	▼ Manager Change γ Partial Mgr Change
									10k	<ul> <li>Fund: \$10,741</li> <li>Benchmark: \$11,872</li> <li>Category: \$10,928</li> </ul>
									5k	
										Performance Quartile (Within Category)
2012	2013	2014	2015	2016	2017	2018	2019	2020	YTD	History
-	-	-	-	-	1.08	1.90	2.16	1.39	0.06	Total Return %
-	-	-	-	-	-2.46	1.89	-6.56	-6.12	1.60	+/- Benchmark
-	-	-	-	-	-0.36	0.29	-0.92	0.05	-0.14	+/- Category
-	-	-	-	-	73	23	93	53	53	Tot Ret % Rank in Cat
-	-	-	-	-	198	212	226	235	239	# of Funds in Cat
	-	-	-	8	19	18	31	26	30	Turnover %
_	-	-	-	0.23	0.24	0.24	0.24	0.24	0.24	Expense Ratio

Ultrashort Bond



# 47/24835/185RankPeer group is a subset of the category and includes funds with the<br/>same management style (active vs. passive) and similar share class<br/>characteristics.

19

Percentile

Fund vs

Peer Group

Up Capture Ratio 13.76 – Down Capture Ratio -8.46 – Portfolio Metrics Fund Bmark Avg Eff Duration 0.40 4.43 Avg Eff Maturity 3.08 –

Standard Deviation

Sharpe Ratio

Tracking Error

Information Ratio

characteristics.

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Fund vs

Category

19

0.89

0.72

0.54

0.36

0.18

0.00



Cat

0.69

0 18

15.42

1.81

0.41

3.44

-0.99

26.44

16.05

Cat

0.59

2.49

0.53

0.72

3.18

-1.13

3 40

1.18

Morningstar Category Morningstar Index

BBgBarc US Agg Bond TR USD

# Federated Hermes Govt Ultrashort R6 FGULX

#### Style Analysis as of 12-31-2021





0 50 100

0.00 55.19 44.81 0.00	0.00 0.00 71.19 24.31 4.50
0.00 55.19	0.00 71.19
0.00	0.00
0.00	0.00
0.00	0.00
Net %	Cat%

#### Sector Weighting as of 12-31-2021

Asset Allocation as of 12-31-2021

Fund	Bmark	Cat
100.00	3.53	42.54
0.00	74.59	5.49
0.00	10.82	15.78
0.00	8.32	21.73
0.00	0.28	1.74
0.00	0.00	1.81
0.00	0.00	0.46
0.00	2.46	10.45
	100.00 0.00 0.00 0.00 0.00 0.00 0.00	100.00         3.53           0.00         74.59           0.00         10.82           0.00         8.32           0.00         0.28           0.00         0.00           0.00         0.00

	Fund	Bmark	Cat	Fund • Benchmark    Category Average
Government	13.74	-	11.14	
Treasury	3.92	-	6.21	
Inflation – Protected	0.00	-	0.04	0
Agency/Quasi Agency	9.82	-	1.36	
Other Government Related	0.00	-	3.53	
Corporate	0.00	-	36.19	
Corporate Bond	0.00	-	31.49	0
Bank Loan	0.00	-	0.66	
Convertible	0.00	-	4.04	
Preferred	0.00	-	0.00	D
Securitized	41.44	-	25.82	
Agency MBS Pass-Through	1.67	-	1.21	
Agency MBS ARM	0.14	-	0.77	10
Agency MBS CMO	39.63	-	3.33	
Non-Agency Residential MBS	0.00	-	0.55	
Commercial MBS	0.00	-	2.43	
Asset-Backed	0.00	-	17.53	
Covered Bond	0.00	-	0.00	0
Municipal	0.00	-	1.11	10
Cash & Equivalents	44.81	-	25.04	
Other	0.00	-	0.57	10
				0% 5 10 15 20 25 30 35 40 45

#### Top 10 Holdings as of 12-31-2021

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ Hsbc Repo 2 Repo	01-2022	22.91	22.91	_
① Novasc Repo 1 Repo	01-2022	21.25	44.15	-
Federal Home Loan Banks 0.4%	06-2024	4.19	48.35	-
$\ominus$ Federal National Mortgage Association 0.60188%	08-2059	2.48	50.83	-
$\odot$ Federal Home Loan Mortgage Corporation 0.55188%	09-2049	2.10	52.93	-
⊖ Federal National Mortgage Association 0.55188%	06-2050	2.00	54.92	_
$\odot$ Federal Home Loan Mortgage Corporation 0.55188%	01-2050	1.73	56.65	_
⊖ Government National Mortgage Association 2.26188%	03-2067	1.66	58.32	_
igodot Government National Mortgage Association 0.82%	02-2065	1.64	59.96	-
$\ominus$ Federal Home Loan Mortgage Corporation 0.444%	08-2030	1.57	61.53	-

#### Total Holdings 221

🕀 Increase  $\ominus$  Decrease 🕸 New to Portfolio

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Morningstar Category Ultrashort Bond

Morningstar Index BBgBarc US Agg Bond TR USD

### Vanguard 500 Index Admiral VFIAX

#### 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 5.68 years.

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

Net Expense: The fund's expense ratio of 0.04 is 95.06% lower than the Large Blend category average.

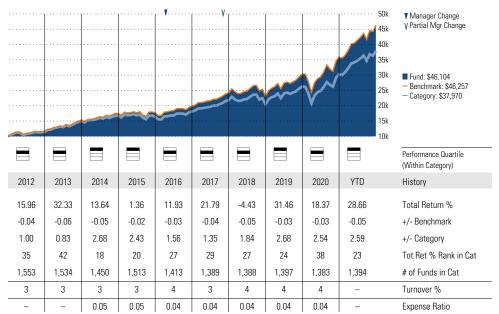
#### **Morningstar Investment Management LLC Analysis**

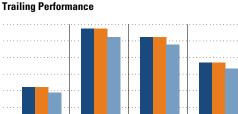
This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

#### ESG Metrics

Metric	Rating	Updated
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021







1 Year

28.66

28.71

26 07

23

1.394



Fund Investment Category Median

Quartile Rank

Percentile

Rank

Peer Group Median

#### **3-Year Risk Metrics**

Fund	Bmark	Cat
-0.03	-	-1.70
1.00	-	0.97
100.00	-	95.10
17.42	17.41	17.41
1.38	1.38	1.25
0.01	-	3.76
-3.26	-	-1.29
99.96	-	93.94
100.07	-	100.53
	-0.03 1.00 100.00 17.42 1.38 0.01 -3.26 99.96	-0.03 - 1.00 - 100.00 - 17.42 17.41 1.38 1.38 0.01 - -3.26 - 99.96 -

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	25.16	25.15	25.73
Price/Book Ratio	4.60	4.59	5.74
Geom Avg Mkt Cap \$B	230.90	230.65	305.14
ROE	32.76	32.75	38.00

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

22

Fund vs

103/472

Peer Group

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Fund vs Category

46/1490

3

3 Month

11.02

11.03

947

25

1.462

Net Expense

4.87

4.33

3.79 3.25

2.71 2.16 1.62 1.08 0.54 



Morningstar Index

S&P 500 TR USD

**Total Return %** 

as of 12-31-2021

Average annual, if greater than 1 year

Benchmark Return %

Category Average %

% Rank in Category

# of Funds in Category

Fund Return %

Fund Benchmark

Category

30%

5

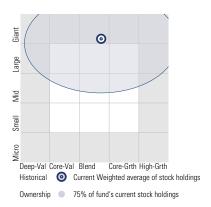
Λ

Large Blend

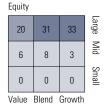
Morningstar Category

# Vanguard 500 Index Admiral VFIAX

Style Analysis as of 12-31-2021 Morningstar Style Box™







#### Weight %

>50 25-50 10-25 0-10

#### Top 15 Holdings as of 12-31-2021

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
$\ominus$ Apple Inc	6.83	6.83	34.48	Technology
∋ Microsoft Corp	6.23	13.06	52.24	Technology
$\ni$ Amazon.com Inc	3.59	16.65	2.38	Consumer Cyclical
$\ni$ Alphabet Inc Class A	2.15	18.80	65.30	Communication Svc
∋ Tesla Inc	2.12	20.92	49.76	Consumer Cyclical
⊖ Alphabet Inc Class C	2.00	22.92	65.17	Communication Svc
$\ni$ Meta Platforms Inc Class A	1.96	24.88	23.13	Communication Svc
$\ni$ NVIDIA Corp	1.81	26.70	125.41	Technology
$\ni$ Berkshire Hathaway Inc Class B	1.35	28.05	28.95	Financial Services
$\ominus$ UnitedHealth Group Inc	1.17	29.22	44.79	Healthcare
∋ JPMorgan Chase & Co	1.15	30.37	27.53	Financial Services
∋ Johnson & Johnson	1.11	31.48	11.36	Healthcare
$\ni$ The Home Depot Inc	1.08	32.57	58.73	Consumer Cyclical
igodolog Procter & Gamble Co	0.98	33.54	20.01	Consumer Defensive
$\ominus$ Visa Inc Class A	0.89	34.43	-0.31	Financial Services

Asset Allocation as of 12-31-2021

Sector Weighting as of 12-31-2021

0

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Energy

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F

Utilities

Cyclical

Basic Materials

Consumer Cyclical

Financial Services

**Communication Services** 

Real Estate

Sensitive

Industrials

Technology

Defensive

Healthcare

Consumer Defensive

50

Fund

30.22

2.27

12.30

12.88

2.77

47.62

10.16

2.67

8.14

26.65

22.16

6.30

13.38

2.48

Bmark

30.24

2.27

12.29

12 91

2.77

47.59

10.16

2.67

8.13

26.63

22.18

6.30

13.38

2.50

100

Cat

30.60

2.74

11.31

14 10

2.45

46.81

9.79

2.39

9.86

24.77

22.60

6.60

13.78

2.22

#### Total Holdings 510

🕀 Increase 👄 Decrease 🕸 New to Portfolio

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

📕 Large Blend

Asset Class	Net %	Cat%
US Stocks	98.51	94.69
Non-US Stocks	1.02	2.90
Bonds	0.00	0.81
Cash	0.47	0.14
Other	0.00	1.47
Total	100.00	100.00

#### Benchmark [] Category Average Fund 0% 5 10 15 20 25 30 35 40 45 50

### Vanguard Inflation-Protected Secs Adm VAIPX

#### Portfolio Manager(s)

Gemma Wright-Casparius since 08-2011 John Madziyire since 11-2021

#### Quantitative Screens

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

*Management:* The fund's management has been in place for 10.38 years.

Style Consistency is not calculated for Fixed Income funds.

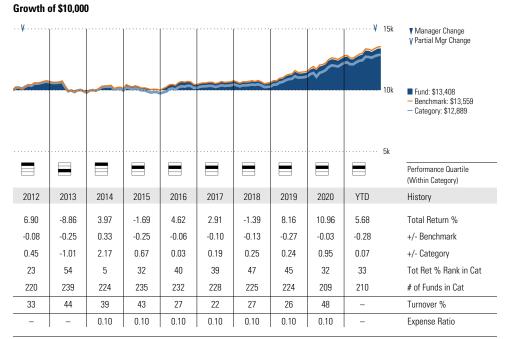
Net Expense: The fund's expense ratio of 0.1 is 83.61% lower than the Inflation-Protected Bond category average.

#### **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	11-30-2021

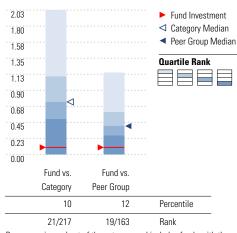


Morningstar Category

Inflation-Protected Bond

#### **Trailing Performance**





**3-Year Risk Metrics** Fund Bmark Cat Alpha 0.31 -0.07 0.90 Beta 0.94 \_ 98.32 **R-Squared** 76.48 Standard Deviation 3 69 3 90 4 22 Sharpe Ratio 1.95 1 90 1.65 Tracking Error 0.53 2.21 Information Ratio -0.37 -0.60 Up Capture Ratio 96.00 90.34 Down Capture Ratio 89.87 95.16 Dentielle Medule

Portfolio Wetrics			
	Fund	Bmark	Cat
Avg Eff Duration	7.50	4.52	6.06
Avg Eff Maturity	7.90	-	7.06

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

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Morningstar Index

BBgBarc US Treasury US TIPS TR USD

# Vanguard Inflation-Protected Secs Adm VAIPX

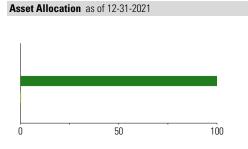
#### Style Analysis as of 12-31-2021





Duration

Credit Rating Breakdown	Fund	Bmark	Cat
AAA	99.85	0.00	89.25
AA	0.00	99.60	6.41
А	0.00	0.00	1.27
BBB	0.00	0.00	1.83
BB	0.00	0.00	0.28
В	0.00	0.00	0.10
Below B	0.00	0.00	0.06
Not Rated	0.15	0.40	0.80



Total	100.00	100.00
Other	0.00	0.67
Cash	0.16	0.24
Bonds	99.84	99.03
Non-US Stocks	0.00	0.00
US Stocks	0.00	0.05
Asset Class	Net %	Cat%

#### Sector Weighting as of 12-31-2021

	Fund	Bmark	Cat	Fund 🔹 Benchmark 🛛 Category Average
Government	99.84	-	89.35	
Treasury	0.00	-	1.05	0
Inflation – Protected	99.84	-	84.05	
Agency/Quasi Agency	0.00	-	0.06	
Other Government Related	0.00	-	4.19	
Corporate	0.00	_	3.01	i D
Corporate Bond	0.00	-	2.75	10
Bank Loan	0.00	-	0.17	
Convertible	0.00	-	0.09	Ū
Preferred	0.00	-	0.00	Ú
Securitized	0.00	-	4.41	
Agency MBS Pass-Through	0.00	-	0.72	0
Agency MBS ARM	0.00	-	0.00	0
Agency MBS CMO	0.00	-	0.36	
Non-Agency Residential MBS	0.00	-	0.20	
Commercial MBS	0.00	-	0.81	0
Asset-Backed	0.00	-	2.24	I D D D D D D D D D D D D D D D D D D D
Covered Bond	0.00	-	0.08	
Municipal	0.00	_	0.02	
Cash & Equivalents	0.16	_	2.90	
Other	0.00	_	0.29	

#### $0\% \ 5 \ 10 \ 15 \ 20 \ 25 \ 30 \ 35 \ 40 \ 45 \ 50 \ 55 \ 60 \ 65 \ 70 \ 75 \ 80 \ 85 \ 90 \ 9500$

Top 10 Holdings as of 12-31-2021				
Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ United States Treasury Notes	_	6.07	6.07	_
$\oplus$ United States Treasury Notes	-	3.92	9.98	-
$\oplus$ United States Treasury Notes	-	3.89	13.88	-
$\oplus$ United States Treasury Notes	-	3.55	17.43	-
United States Treasury Notes	-	3.48	20.92	_
$\oplus$ United States Treasury Notes	_	3.32	24.24	-
$\oplus$ United States Treasury Notes	-	3.17	27.41	-
United States Treasury Notes	-	3.15	30.57	-
United States Treasury Notes	-	3.08	33.64	-
$\oplus$ United States Treasury Notes	-	2.87	36.51	-

#### Total Holdings 47

🕀 Increase  $\ominus$  Decrease 🕸 New to Portfolio

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**Morningstar Category** Inflation-Protected Bond

BBgBarc US Treasury US TIPS TR USD

**Morningstar Index** 

### Vanguard Mid Cap Index Admiral VIMAX

#### Portfolio Manager(s)

Donald Butler since 05-1998 Awais Khan since 07-2021

#### Quantitative Screens

Performance: The fund has finished in the Mid-Cap 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 23.63 years.

Style: The fund has landed in its primary style box — Mid-Cap Blend — 94.29 % of the time over the past three years.

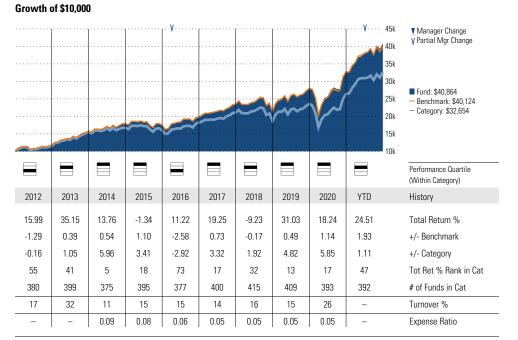
Net Expense: The fund's expense ratio of 0.05 is 94.62% lower than the Mid-Cap Blend category average.

#### **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
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	4	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021



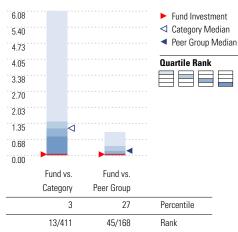
Morningstar Category

Mid-Cap Blend

#### **Trailing Performance** 25% 20 15 10 3 Month 1 Year 10 veai Since Inception 3 yea 5 year 7.97 24.51 24.48 15.86 15.12 11.19 6.44 22.58 23.29 15.10 14.91 13.51 7 39 23 40 20 74 12 67 13 13 \_ 42 47 11 9 6 409 392 361 314 207 Net Expense **3-Year Risk Metrics**

Alpha

Beta



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

Λ Average annual, if greater than 1 year Fund Return % Benchmark Return % Category Average % % Rank in Category # of Funds in Category Fund Bmark Cat 1.52 -1.58 0.97 0.99 99.60 **R-Squared** 94.00 Standard Deviation 20.29 20.84 21.38 Sharpe Ratio 1.15 1.08 0.98

5

**Total Return %** 

as of 12-31-2021

Benchmark

Category

Fund

Tracking Error 1.41 5.33 Information Ratio 0.85 -0.53 Up Capture Ratio 99.92 96.62 Down Capture Ratio 94.26 103.34 **Portfolio Metrics** Fund Bmark Cat

Price/Earnings Ratio	23.14	20.76	18.71
Price/Book Ratio	3.56	3.34	3.07
Geom Avg Mkt Cap \$B	27.29	20.82	12.32
ROE	15.90	16.99	19.23

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Morningstar Index

Russell Mid Cap TR USD

# Vanguard Mid Cap Index Admiral VIMAX

Asset Allocation as of 12-31-2021

Sector Weighting as of 12-31-2021

0

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Energy

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F

Utilities

Cyclical

Basic Materials

Consumer Cyclical

Financial Services

**Communication Services** 

Real Estate

Sensitive

Industrials

Technology

Defensive

Healthcare

Consumer Defensive

50

100

Bmark

38.25

4.20

13.10

12.16

8.79

42.27

3.81

3.88

14.68

19.90

19.46

3.80

11.03

4.63

Fund

35.40

3.93

10.92

11.06

9.49

43.74

4.42

3.84

12.37

23.11

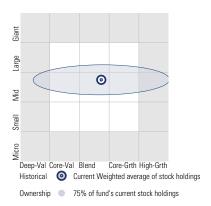
20.87

3.38

12.25

5.24

Style Analysis as of 12-31-2021 Morningstar Style Box™







Weight %

>50 25-50 10-25 0-10

#### Top 15 Holdings as of 12-31-2021

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Synopsys Inc	0.75	0.75	42.15	Technology
$\ni$ IQVIA Holdings Inc	0.72	1.47	57.47	Healthcare
$\ni$ Xilinx Inc	0.70	2.17	49.82	Technology
$\ni$ Amphenol Corp Class A	0.70	2.86	34.95	Technology
ightarrow DexCom Inc	0.69	3.55	45.23	Healthcare
$\ominus$ Cadence Design Systems Inc	0.69	4.24	36.59	Technology
	0.68	4.93	56.66	Technology
ightarrow Digital Realty Trust Inc	0.67	5.59	30.11	Real Estate
$\ni$ Fortinet Inc	0.66	6.26	141.97	Technology
$\oplus$ Microchip Technology Inc	0.64	6.90	27.31	Technology
ightarrow Centene Corp	0.64	7.54	37.26	Healthcare
$\supset$ MSCI Inc	0.64	8.18	38.03	Financial Services
ightarrow IHS Markit Ltd	0.64	8.82	48.86	Industrials
igodolog Carrier Global Corp Ordinary Shares	0.63	9.44	45.15	Industrials
igodolog Motorola Solutions Inc	0.61	10.05	61.48	Technology

#### Total Holdings 377

⊕ Increase ⊖ Decrease 🕸 New to Portfolio

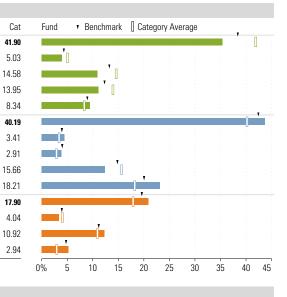
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**Morningstar Category** Mid-Cap Blend Russell Mid Cap TR USD

Asset Class	Net %	Cat%
US Stocks	97.64	96.07
Non-US Stocks	1.46	2.06
Bonds	0.00	-0.16
Cash	0.90	1.64
Other	0.00	0.38
Total	100.00	100.00

Morningstar Index



# Vanguard Target Retirement 2015 Fund VTXVX

#### Portfolio Manager(s)

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

#### Quantitative Screens

*Performance:* The fund has finished in the Target-Date 2015 category's top three quartiles in 9 of the 10 years it's been in existence.

Management: The fund's management has been in place for 8.86 years.

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

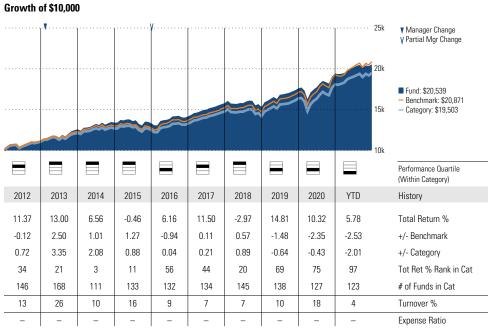
Net Expense: The fund's expense ratio of 0.12 is 79.66% lower than the Target-Date 2015 category average.

#### **Morningstar Investment Management LLC Analysis**

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

#### ESG Metrics

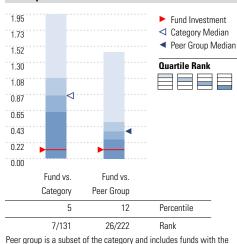
Metric	Rating	Updated
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021



**Morningstar Category** 

Target-Date 2015





//131	20/222	ndiik
Peer group is a subset of the	category and ind	cludes funds with the
same management style (acti	ve vs. passive) a	and similar share class
characteristics.		

# of Funds in Category **3-Year Risk Metrics** Fund Bmark Cat Alpha 0.25 -0.79 0.81 0.97 Beta \_ 98.43 **R-Squared** 96.08 Standard Deviation 6 82 8 35 8 30 Sharpe Ratio 1.35 1.34 1.22 Tracking Error 1.80 1.79 Information Ratio -1.18 -0.66 Up Capture Ratio 81.39 92.30 Down Capture Ratio 77.84 95.84 Deutlelle Metal

Portiolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	19.09	19.62	19.64
Price/Book Ratio	2.71	2.77	2.83
Avg Eff Duration	6.25	7.78	5.27

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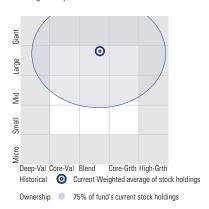


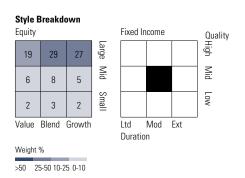
Morningstar Index Morningstar Lifetime Mod 2015 TR

USD

# Vanguard Target Retirement 2015 Fund VTXVX

**Style Analysis** as of 12-31-2021 Morningstar Style Box™





# -

50

100

0.00 100.0	100.00	Total
).50 4.4	0.50	Other
8.36 6.3	3.36	Cash
5.78 50.1	65.78	Bonds
2.25 14.7	12.25	Non-US Stocks
3.11 24.3	18.11	US Stocks
et % Cat	Net %	Asset Class
E	Ne	Asset Class

Morningstar Index Morningstar Lifetime Mod 2015 TR USD

Morningstar Category

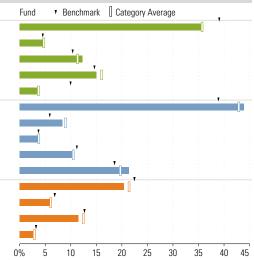
Target-Date 2015

#### Sector Weighting as of 12-31-2021

0

Asset Allocation as of 12-31-2021

		Fund	Bmark	Cat	
Դ	Cyclical	35.67	38.92	35.70	
æ.	Basic Materials	4.69	4.38	4.71	
<b>~</b>	Consumer Cyclical	12.32	10.23	11.33	
цф.	Financial Services	15.03	14.49	16.00	
ŵ	Real Estate	3.63	9.82	3.66	
$\sim$	Sensitive	43.92	38.76	42.89	
đ	Communication Services	8.32	5.75	8.96	
•	Energy	3.53	3.54	3.74	
¢	Industrials	10.67	11.05	10.48	
	Technology	21.40	18.42	19.71	
	Defensive	20.42	22.32	21.41	
1	Consumer Defensive	6.31	6.72	6.08	
٠	Healthcare	11.53	12.54	12.44	
2	Utilities	2.58	3.06	2.89	



#### Top 8 Holdings as of 12-31-2021

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
∋ Vanguard Total Bond Market II Idx Inv	_	36.03	36.03	_	_
$\ominus$ Vanguard Total Stock Mkt ldx Inv	-	18.29	54.32	_	-
$\oplus$ Vanguard Shrt-Term Infl-Prot Sec Idx Inv	-	16.17	70.49	_	-
$\oplus$ Vanguard Total Intl Bd Idx Investor	-	15.77	86.25	_	-
$\ominus$ Vanguard Total Intl Stock Index Inv	-	12.56	98.81	-	-
€ Mktliq 12/31/2049	_	0.91	99.72	-	-
$\oplus$ Vanguard Total Intl Bd II Idx Investor	-	0.28	99.99	_	-
$\oplus$ Us Dollar	-	0.01	100.00	_	-

🕀 Increase 👄 Decrease 🕸 New to Portfolio

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### Vanguard Target Retirement 2020 Fund VTWNX

#### Portfolio Manager(s)

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

#### Quantitative Screens

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

Management: The fund's management has been in place for 8.86 years.

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

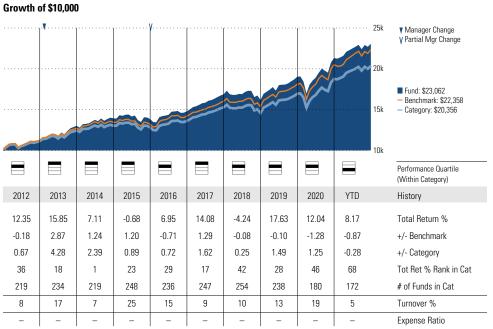
Net Expense: The fund's expense ratio of 0.13 is 79.37% lower than the Target-Date 2020 category average.

#### **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**

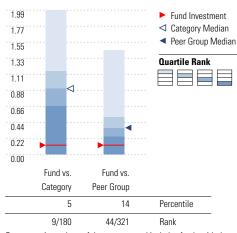
Metric	Rating	Updated
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021



Morningstar Category

Target-Date 2020





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

# of Funds in Category **3-Year Risk Metrics** Fund Bmark Cat Alpha -0.28 -0.60 0.97 0.95 Beta \_ 98.28 **R-Squared** 96.07 Standard Deviation 9.04 9 27 8 94 Sharpe Ratio 1.26 1 31 1.21 Tracking Error 1.22 2.00 Information Ratio -0.62 -0.72 Up Capture Ratio 95.00 91.08 Down Capture Ratio 95.93 93.59

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	19.16	19.42	20.30
Price/Book Ratio	2.72	2.74	2.89
Avg Eff Duration	6.51	8.67	4.93

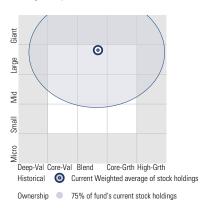
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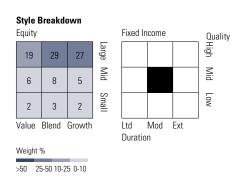


Morningstar Index Morningstar Lifetime Mod 2020 TR USD

# Vanguard Target Retirement 2020 Fund VTWNX

**Style Analysis** as of 12-31-2021 Morningstar Style Box™





# 

Cash Other	2.95 0.42	3.99 8.18
Cash	2.95	3.99
Bonds	51.87	46.34
Non-US Stocks	17.78	15.01
US Stocks	26.98	26.50
Asset Class	Net %	Cat%

Morningstar Category

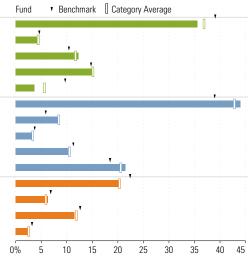
Target-Date 2020

Morningstar Index Morningstar Lifetime Mod 2020 TR USD

#### Sector Weighting as of 12-31-2021

Asset Allocation as of 12-31-2021

		Fund	Bmark	Cat	Fur
Դ	Cyclical	35.59	38.92	36.87	
æ.	Basic Materials	4.64	4.48	4.40	
A	Consumer Cyclical	12.33	10.28	11.71	
цф.	Financial Services	14.99	14.61	15.12	
ŵ	Real Estate	3.63	9.55	5.64	
<b>V</b> *	Sensitive	44.01	38.81	42.82	
đ	Communication Services	8.34	5.75	8.43	
•	Energy	3.50	3.58	3.33	
Ф	Industrials	10.65	11.14	10.50	
	Technology	21.52	18.34	20.56	
-	Defensive	20.42	22.26	20.32	
Ħ	Consumer Defensive	6.30	6.72	5.91	
٠	Healthcare	11.54	12.48	11.88	
9	Utilities	2.58	3.06	2.53	
					~~~



#### Top 8 Holdings as of 12-31-2021

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
∋ Vanguard Total Bond Market II Idx Inv	_	30.41	30.41	_	_
$\ni$ Vanguard Total Stock Mkt ldx Inv	-	27.24	57.65	_	-
$\ni$ Vanguard Total Intl Stock Index Inv	-	18.22	75.87	_	-
$\oplus$ Vanguard Total Intl Bd Idx Investor	-	13.28	89.14	_	-
$\oplus$ Vanguard Shrt-Term Infl-Prot Sec ldx Inv	-	9.81	98.95	-	_
€ Mktliq 12/31/2049	_	0.80	99.75	-	_
$\oplus$ Vanguard Total Intl Bd II Idx Investor	-	0.24	99.99	_	-
$\oplus$ Us Dollar	_	0.01	100.00	-	-

🕀 Increase 👄 Decrease 🕸 New to Portfolio

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# Vanguard Target Retirement 2025 Fund VTTVX

Portfolio Manager(s)

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

#### Quantitative Screens

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

Management: The fund's management has been in place for 8.86 years.

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

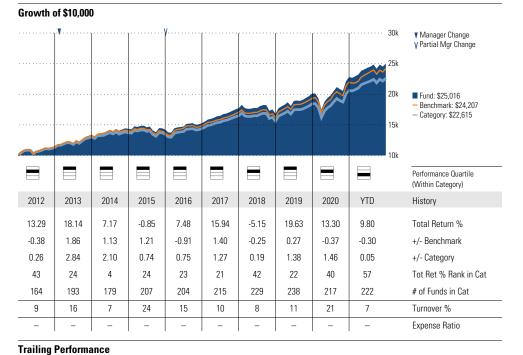
Net Expense: The fund's expense ratio of 0.13 is 80.6% lower than the Target-Date 2025 category average.

#### **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**

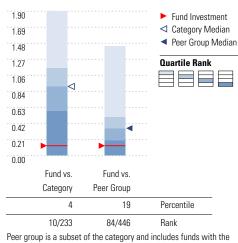
Metric	Rating	Updated
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021



Morningstar Category

Target-Date 2025





				FIICE/Editii
	10/233	84/446	Rank	Price/Book
Peer gro same m	Avg Eff Du			
characte	eristics.			

**Total Return %** as of 12-31-2021 Fund Benchmark Category Average annual, if greater than 1 year

l	
	Fund Return %
	Benchmark Return %
	Category Average %
	% Rank in Category
	# of Funds in Category

	Fund	Bmark	Cat
Alpha	-0.33	-	-0.47
Beta	1.02	-	0.96
R-Squared	98.68	-	97.00
Standard Deviation	10.69	10.45	10.15
Sharpe Ratio	1.22	1.26	1.19
Tracking Error	1.24	-	2.02
Information Ratio	-0.11	-	-0.52
Up Capture Ratio	101.50	-	94.83
Down Capture Ratio	105.52	-	99.16

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	19.17	19.21	20.36
Price/Book Ratio	2.72	2.70	2.91
Avg Eff Duration	7.21	9.42	6.67

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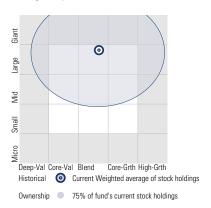


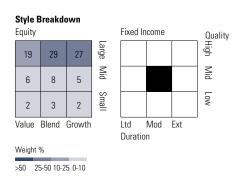
Morningstar Index Morningstar Lifetime Mod 2025 TR

USD

# Vanguard Target Retirement 2025 Fund VTTVX

Style Analysis as of 12-31-2021 Morningstar Style Box™





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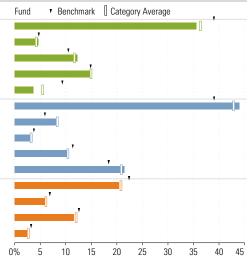
Other	0.00	
	0.39	10.93
Cash	2.67	3.69
Bonds	40.74	38.05
Non-US Stocks	22.25	16.49
US Stocks	33.94	30.83
Asset Class	Net %	Cat%

Morningstar Category Target-Date 2025 Morningstar Index Morningstar Lifetime Mod 2025 TR USD

#### Sector Weighting as of 12-31-2021

Asset Allocation as of 12-31-2021

		Fund	Bmark	Cat	
Դ	Cyclical	35.58	38.86	36.35	
<i>.</i>	Basic Materials	4.64	4.58	4.23	
<b>~</b>	Consumer Cyclical	12.31	10.36	11.70	
ц.	Financial Services	14.99	14.73	14.93	
ŵ	Real Estate	3.64	9.19	5.49	
$\sim$	Sensitive	43.99	38.89	42.85	
	Communication Services	8.33	5.78	8.33	
0	Energy	3.50	3.62	3.22	
Ф	Industrials	10.64	11.23	10.42	
	Technology	21.52	18.26	20.88	
	Defensive	20.44	22.25	20.80	
F	Consumer Defensive	6.30	6.74	6.11	
٠	Healthcare	11.55	12.44	12.02	
<b>?</b>	Utilities	2.59	3.07	2.67	



#### Top 8 Holdings as of 12-31-2021

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Inv	_	34.28	34.28	_	_
$\ominus$ Vanguard Total Bond Market II Idx Inv	-	28.12	62.40	_	-
$\ominus$ Vanguard Total Intl Stock Index Inv	-	22.80	85.20	_	-
$\oplus$ Vanguard Total Intl Bd Idx Investor	-	12.02	97.22	_	-
$\oplus$ Vanguard Shrt-Term Infl-Prot Sec ldx Inv	-	1.42	98.63	-	_
⊕ Mktliq 12/31/2049	-	0.83	99.46	-	-
$\oplus$ Vanguard Total Intl Bd II Idx Investor	-	0.49	99.95	_	-
🕀 Us Dollar	_	0.05	100.00	-	-

🕀 Increase 👄 Decrease 🕸 New to Portfolio

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# Vanguard Target Retirement 2030 Fund VTHRX

Portfolio Manager(s)

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

#### Quantitative Screens

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

Management: The fund's management has been in place for 8.86 years.

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

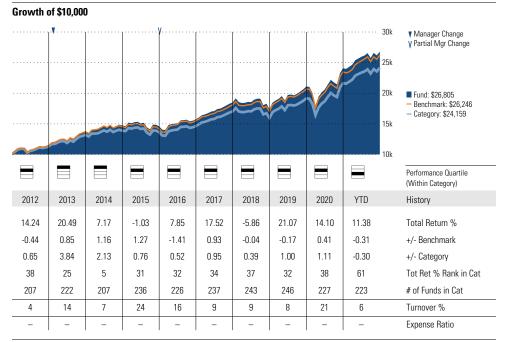
Net Expense: The fund's expense ratio of 0.14 is 79.71% lower than the Target-Date 2030 category average.

#### **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
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021

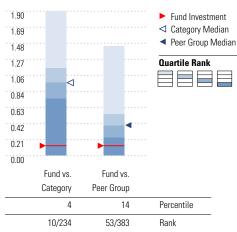


Morningstar Category

Target-Date 2030







L	21		/01		9017
	94	-	# of	Funds in Ca	ategory
	3-Year Risk	Metrics			
			Fund	Bmark	Cat
	Alpha		0.14	-	-0.09
	Beta		0.99	-	0.97
	R-Squared		99.18	-	98.04
	Standard Devia	ition	11.97	12.05	11.82
	Sharpe Ratio		1.19	1.19	1.17
	Tracking Error		1.09	-	1.88
	Information Ra	tio	-0.02	-	-0.24
	Up Capture Rat	io	100.36	-	97.95
	Down Capture	Ratio	101.08	-	100.08

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	19.17	19.00	20.41
Price/Book Ratio	2.72	2.66	2.97
Avg Eff Duration	7.37	10.06	6.72

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

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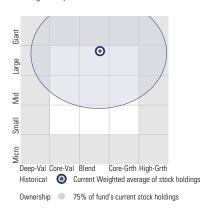


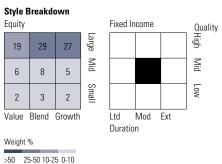
Morningstar Index Morningstar Lifetime Mod 2030 TR

USD

# Vanguard Target Retirement 2030 Fund VTHRX

Style Analysis as of 12-31-2021 Morningstar Style Box™





Top 7 Holdings as of 12-31-2021					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Oranguard Total Stock Mkt Idx Inv	_	39.32	39.32	_	_
$\oplus$ Vanguard Total Intl Stock Index Inv	-	26.17	65.49	_	-
igodoldoldoldoldoldoldoldoldoldoldoldoldol	-	23.21	88.70	_	-
$\oplus$ Vanguard Total Intl Bd Idx Investor	-	10.02	98.72	_	-
⊕ Mktliq 12/31/2049	-	0.82	99.54	-	-
$\oplus$ Vanguard Total Intl Bd II Idx Investor	-	0.43	99.97	-	-
$\oplus$ Us Dollar	-	0.03	100.00	_	-

#### Total Holdings 7

 $\oplus$  Increase  $\oplus$  Decrease R New to Portfolio



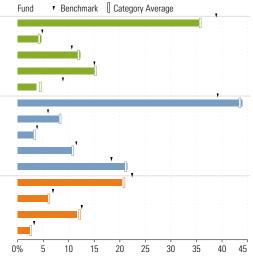
<b>Morningstar Category</b> Target-Date 2030	<b>Morningstar Index</b> Morningstar Lifetime Mod 2030 TR USD		
Asset Class	Net %	Cat%	
US Stocks	38.93	37.02	
Non-US Stocks	25.54	19.27	
Bonds	32.65	29.51	
Cash	2.54	2.41	
Other	0.33	11.79	
Total	100.00	100.00	

50

#### Sector Weighting as of 12-31-2021 Fund Bmark Cat Դ Cyclical 35.58 38.72 35.72 ÷. Basic Materials 4.64 4.68 4.20 A Consumer Cyclical 12.32 10.45 11.90 **n Financial Services** 14.87 14.98 15.21 ŵ Real Estate 3.64 8.72 4.41 Sensitive ~ 43.99 39.01 43.49 đ **Communication Services** 8.34 5.80 8.30 Energy 3.50 3.66 3.28 ¢ Industrials 10.63 11.34 10.77 Technology 21.52 18.21 21.14 20.43 22.26 Defensive 20.80 **Consumer Defensive** 6.30 6.77 6.10 Healthcare 11.55 12.41 12.14 Utilities 2.58 3.08 2.56

Asset Allocation as of 12-31-2021

0



# Vanguard Target Retirement 2035 Fund VTTHX

Portfolio Manager(s)

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

#### Quantitative Screens

Performance: The fund has finished in the Target-Date 2035 category's top three quartiles in 9 of the 10 years it's been in existence.

*Management:* The fund's management has been in place for 8.86 years.

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

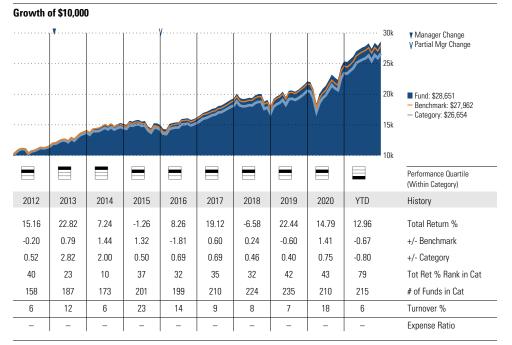
Net Expense: The fund's expense ratio of 0.14 is 80% lower than the Target-Date 2035 category average.

#### 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
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021

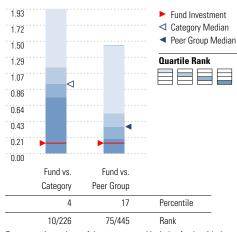


Morningstar Category

Target-Date 2035







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

% Rank in Category # of Funds in Category **3-Year Risk Metrics** Fund Bmark Cat Alpha 0.78 0.56 0.95 0.97 Beta 99.40 **R-Squared** 98.46 Standard Deviation 13 24 13.88 13 52 Sharpe Ratio 1.17 1.12 1.15 Tracking Error 1.23 1.91 Information Ratio 0.05 0.14 Up Capture Ratio 97.75 98.92 Down Capture Ratio 94.47 97.06

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	19.16	18.79	20.13
Price/Book Ratio	2.72	2.63	2.89
Avg Eff Duration	7.37	10.62	6.71

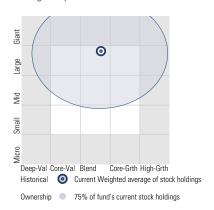
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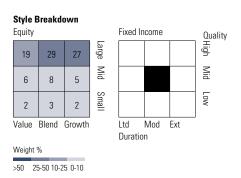


Morningstar Index Morningstar Lifetime Mod 2035 TR USD

# Vanguard Target Retirement 2035 Fund VTTHX

**Style Analysis** as of 12-31-2021 Morningstar Style Box™





			U%	5 10 15	20 25 30	35	40	45
Top 7 Holdings as of 12-31-2021								
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector			
⊖ Vanguard Total Stock Mkt Idx Inv	_	43.75	43.75	_	_			
$\oplus$ Vanguard Total Intl Stock Index Inv	-	29.19	72.94	-	-			
$\oplus$ Vanguard Total Bond Market II ldx Inv	-	18.08	91.02	-	-			
$\oplus$ Vanguard Total Intl Bd Idx Investor	-	7.76	98.78	-	_			
① Mktliq 12/31/2049	-	0.94	99.72	-	-			
⊕ Vanguard Total Intl Bd II Idx Investor	-	0.26	99.98	-	-			
$\oplus$ Us Dollar	-	0.02	100.00	-	_			

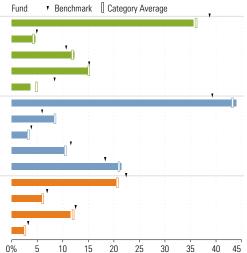
#### Total Holdings 7

 $\oplus$  Increase  $\oplus$  Decrease R New to Portfolio



50	Total		100.00	100.00
_	Other		0.26	10.60
	Cash		2.62	2.35
	Bonds		25.31	19.06
	Non-US Stocks		28.48	24.21
	US Stocks		43.33	43.76
	Asset Class		Net %	Cat%
	Ū.	030		

#### Sector Weighting as of 12-31-2021 Cat Fund Bmark Դ Cyclical 35.58 38.60 36.09 ÷. **Basic Materials** 4.64 4.78 4.26 A Consumer Cyclical 12.32 10.53 11.90 **n Financial Services** 14.99 15.03 15.09 ŵ Real Estate 3.63 8.26 4.84 Sensitive 43.99 ~ 39.13 43.23 đ **Communication Services** 8.34 5.82 8.47 Energy 3.51 3.70 3.26 ¢ Industrials 10.63 11.44 10.50 Technology 21.51 18.17 21.00 20.43 22.27 Defensive 20.68 **Consumer Defensive** 6.31 6.80 6.08 Healthcare 11.54 12.38 12.02 Utilities 2.58 3.09 2.58



# Asset Allocation as of 12-31-2021

Morningstar Category Target-Date 2035

Morningstar Index Morningstar Lifetime Mod 2035 TR USD

# Vanguard Target Retirement 2040 Fund VFORX

#### Portfolio Manager(s)

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

#### Quantitative Screens

*Performance:* The fund has finished in the Target-Date 2040 category's top three quartiles in 9 of the 10 years it's been in existence.

Management: The fund's management has been in place for 8.86 years.

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

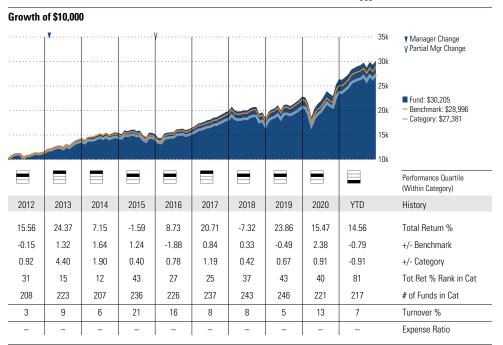
Net Expense: The fund's expense ratio of 0.14 is 80.28% lower than the Target-Date 2040 category average.

#### **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.

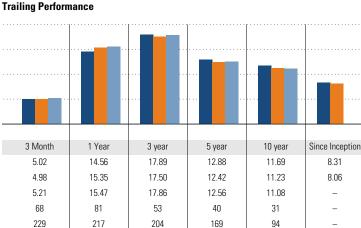
#### ESG Metrics

Metric	Rating	Updated
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021

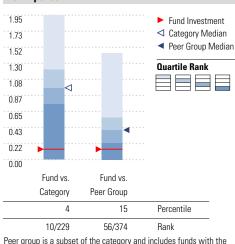


Morningstar Category

Target-Date 2040



Net Expense



	10/229	56/3/4	напк	Р
Peer grou	p is a subset of	the category an	d includes funds with the	
same mar	nagement style	active vs. passi	ve) and similar share class	, P
character	istics.			

15 Benchmark Category 10 5 Λ Average annual, if greater than 1 year Fund Return % Benchmark Return % Category Average % % Rank in Category

20%

**Total Return %** 

as of 12-31-2021 Fund

# of Funds in Category

#### **3-Year Risk Metrics** Fund Bmark Cat Alpha 1.30 1.11 0.94 0.95 Beta \_ 99.36 98.53 **R-Squared** Standard Deviation 14 51 15 45 14 78 Sharpe Ratio 1.15 1.07 1.14 Tracking Error 1.52 2.03 Information Ratio 0.26 0.33 Up Capture Ratio 97.40 98.47 Down Capture Ratio 92.00 94.22

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	19.15	18.59	20.08
Price/Book Ratio	2.72	2.59	2.88
Avg Eff Duration	7.38	11.10	6.67

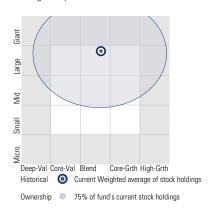
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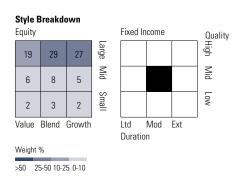


Morningstar Index Morningstar Lifetime Mod 2040 TR USD

# Vanguard Target Retirement 2040 Fund VFORX

**Style Analysis** as of 12-31-2021 Morningstar Style Box™





0.19	9.17
2.51	1.91
18.29	12.05
31.41	27.65
47.60	49.22
Net %	Cat%
	47.60 31.41 18.29 2.51

Morningstar Category Target-Date 2040

50

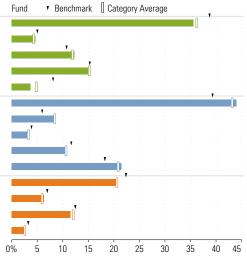
Morningstar Index Morningstar Lifetime Mod 2040 TR USD

#### Sector Weighting as of 12-31-2021

0

Asset Allocation as of 12-31-2021

		Fund	Bmark	Cat	Fund
Դ	Cyclical	35.61	38.59	36.24	
æ.	Basic Materials	4.65	4.88	4.30	
	Consumer Cyclical	12.33	10.60	11.91	
ц.	Financial Services	14.99	15.14	15.20	
ŵ	Real Estate	3.64	7.97	4.83	
₩.	Sensitive	43.97	39.18	43.16	
đ	Communication Services	8.33	5.82	8.43	
0	Energy	3.50	3.74	3.26	
Ф	Industrials	10.64	11.52	10.63	
	Technology	21.50	18.10	20.84	
	Defensive	20.43	22.23	20.59	
	Consumer Defensive	6.31	6.82	5.97	
٠	Healthcare	11.54	12.31	12.04	
2	Utilities	2.58	3.10	2.58	



#### Top 7 Holdings as of 12-31-2021

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Inv	_	48.07	48.07	_	-
$\oplus$ Vanguard Total Intl Stock Index Inv	-	32.19	80.25	-	-
$\oplus$ Vanguard Total Bond Market II Idx Inv	-	12.95	93.20	-	-
$\oplus$ Vanguard Total Intl Bd Idx Investor	-	5.87	99.07	-	-
⊖ Mktliq 12/31/2049	-	0.89	99.96	-	-
⊕ Vanguard Total Intl Bd II Idx Investor	-	0.04	100.00	-	-
🕀 Us Dollar	_	0.00	100.00	_	-

#### Total Holdings 7

 $\oplus$  Increase  $\ominus$  Decrease R New to Portfolio



# Vanguard Target Retirement 2045 Fund VTIVX

Portfolio Manager(s)

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

#### Quantitative Screens

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

Management: The fund's management has been in place for 8.86 years.

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

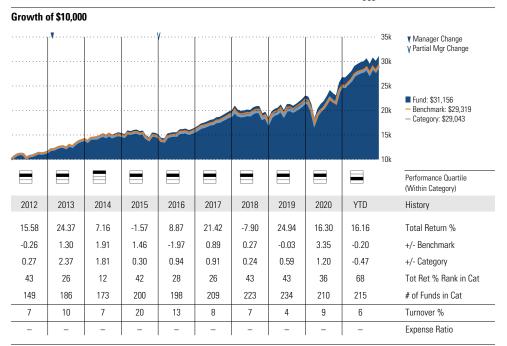
Net Expense: The fund's expense ratio of 0.15 is 78.87% lower than the Target-Date 2045 category average.

#### **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
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021



Morningstar Category

Target-Date 2045



#### 1.94 Fund Investment Category Median 1.72 Peer Group Median 1.51 1.29 Quartile Rank 1.08 0.86 0.65 0.43 0.22 Fund vs Fund vs Peer Group Category 5 17 Percentile 12/226 74/441 Rank Pe

				-
25	-	% Rank in Category		
85	-	# of Funds in Category		
3-Year Risk	Metrics			
		Fund	Bmark	Cat
Alpha		1.57	-	1.42
Beta		0.96	-	0.95
R-Squared		99.26	-	98.55
Standard Devia	tion	15.74	16.36	15.62
Sharpe Ratio		1.14	1.05	1.13
Tracking Error		1.52	-	2.06
Information Rat	io	0.71	-	0.46
Up Capture Rat	io	100.21	-	98.96
Down Capture I	Ratio	94.21	-	93.70
Portfolio M	etrics			
		Fund	Bmark	Cat

	12/220	/4/441	Hallk
Peer group	is a subset of the	category and ir	cludes funds with the
same mana	agement style (act	tive vs. passive)	and similar share class
characteris	stics.		

Cat Price/Earnings Ratio 19.16 18.43 20.08 Price/Book Ratio 2.72 2.56 2.85 Avg Eff Duration 7 35 11 53 6 60

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Morningstar Index Morningstar Lifetime Mod 2045 TR USD

**Total Return %** 

as of 12-31-2021 Fund

Benchmark

Average annual, if greater than 1 year

Benchmark Return %

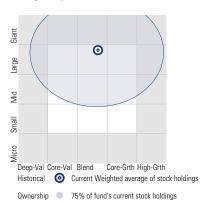
Category Average %

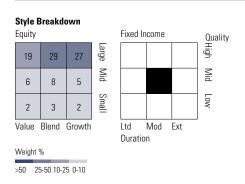
Fund Return %

Category

# Vanguard Target Retirement 2045 Fund VTIVX

**Style Analysis** as of 12-31-2021 Morningstar Style Box™





# 

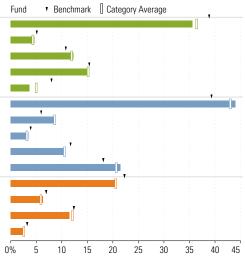
Other	0.13	5.40
	0.13	9.43
Cash	2.70	1.74
Bonds	10.88	6.68
Non-US Stocks	34.23	29.89
US Stocks	52.07	52.24
Asset Class	Net %	Cat%

Morningstar Category Target-Date 2045 Morningstar Index Morningstar Lifetime Mod 2045 TR USD

#### Sector Weighting as of 12-31-2021

Asset Allocation as of 12-31-2021

		Fund	Bmark	Cat	Fund
Դ	Cyclical	35.58	38.71	36.42	
æ.	Basic Materials	4.64	4.97	4.34	
A	Consumer Cyclical	12.32	10.65	11.93	
<b>L</b>	Financial Services	14.98	15.24	15.16	
ŵ	Real Estate	3.64	7.85	4.99	
w,	Sensitive	43.98	39.17	43.00	_
đ	Communication Services	8.33	5.83	8.61	
	Energy	3.51	3.77	3.18	
¢	Industrials	10.63	11.58	10.54	
	Technology	21.51	17.99	20.67	
-	Defensive	20.43	22.13	20.57	
F	Consumer Defensive	6.31	6.81	5.92	)
٠	Healthcare	11.54	12.23	12.08	_
2	Utilities	2.58	3.09	2.57	



#### Top 7 Holdings as of 12-31-2021

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Or Stand Stock Mkt Idx Inv     Stock Mkt Idx     Stock Mkt     Stoc	-	52.58	52.58	_	-
$\oplus$ Vanguard Total Intl Stock Index Inv	-	35.07	87.65	-	-
$\oplus$ Vanguard Total Bond Market II Idx Inv	-	7.86	95.51	-	-
$\oplus$ Vanguard Total Intl Bd Idx Investor	-	3.31	98.83	-	-
① Mktliq 12/31/2049	-	1.12	99.94	-	-
$\oplus$ Vanguard Total Intl Bd II Idx Investor	-	0.05	100.00	-	-
🕀 Us Dollar	_	0.00	100.00	_	_

#### Total Holdings 7

 $\oplus$  Increase  $\ominus$  Decrease R New to Portfolio



# Vanguard Target Retirement 2050 Fund VFIFX

#### Portfolio Manager(s)

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

#### Quantitative Screens

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

Management: The fund's management has been in place for 8.86 years.

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

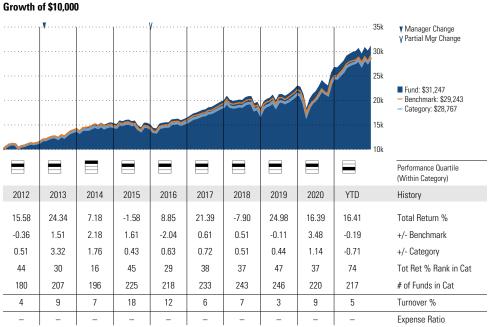
Net Expense: The fund's expense ratio of 0.15 is 79.17% lower than the Target-Date 2050 category average.

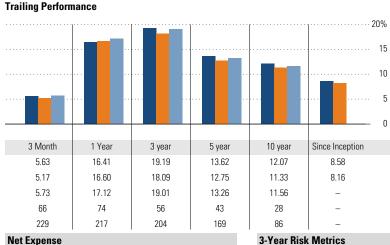
#### **Morningstar Investment Management LLC Analysis**

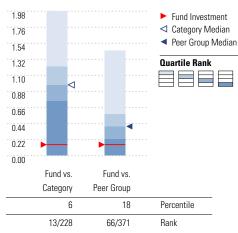
This fund passes all of Morningstar Investment Management's quantitative screens. Morningstar Investment Management has also assessed the fund from a qualitative perspective and, as a fiduciary, is comfortable recommending the fund's use in retirement plans.

#### ESG Metrics

Metric	Rating	Updated
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021







11.33	8.16	Benc	hmark Returr	n %
11.56	-	Cate	gory Average	%
28	-	% Ra	nk in Catego	ry
86	-	# of F	unds in Cate	gory
3-Year Risk	Metrics			
		Fund	Bmark	Cat
Alpha		1.85	-	1.56
Beta		0.94	-	0.95
R-Squared		99.20	-	98.48
Standard Devia	tion	15.77	16.69	15.93
Sharpe Ratio		1.14	1.03	1.12
Tracking Error		1.72	-	2.08
Information Rat	tio	0.64	_	0.48

Down Capture Ratio	92.29	-	93.61
Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	19.16	18.28	19.97
Price/Book Ratio	2.72	2.53	2.83
Avg Eff Duration	7.40	-	6.55

99.28

Up Capture Ratio

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

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Morningstar Index Morningstar Lifetime Mod 2050 TR

**Total Return %** 

as of 12-31-2021 Fund

Benchmark

Average annual, if greater than 1 year

99.27

Fund Return %

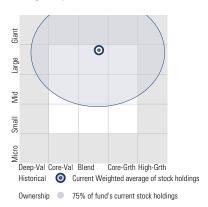
Category

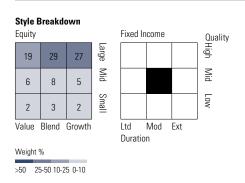
Target-Date 2050 USD

Morningstar Category

# Vanguard Target Retirement 2050 Fund VFIFX

Style Analysis as of 12-31-2021 Morningstar Style Box™





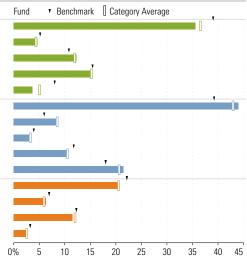
# Top 7 Holdings as of 12-31-2021

50	100
	50

#### Sector Weighting as of 12-31-2021

Asset Allocation as of 12-31-2021

		Fund	Bmark	Cat	Fund • Bend
Դ	Cyclical	35.57	38.90	36.55	
æ.	Basic Materials	4.63	5.04	4.36	<b></b> )
A	Consumer Cyclical	12.32	10.67	11.93	
цф	Financial Services	14.99	15.30	15.21	
ŵ	Real Estate	3.63	7.89	5.05	
w	Sensitive	43.99	39.09	42.93	
	Communication Services	8.34	5.83	8.51	
0	Energy	3.51	3.79	3.24	
٥	Industrials	10.63	11.61	10.53	]
	Technology	21.51	17.86	20.65	
<b>→</b>	Defensive	20.42	22.01	20.52	
E	Consumer Defensive	6.30	6.80	5.94	)
٠	Healthcare	11.54	12.12	12.01	-
9	Utilities	2.58	3.09	2.57	<b>—</b>
					00/ 5 10



Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Vanguard Total Stock Mkt Idx Inv	_	53.82	53.82	_	_
$\oplus$ Vanguard Total Intl Stock Index Inv	-	35.89	89.71	-	_
$\oplus$ Vanguard Total Bond Market II Idx Inv	-	6.25	95.95	-	_
$\oplus$ Vanguard Total Intl Bd Idx Investor	-	2.92	98.87	-	_
• Mktliq 12/31/2049	-	1.00	99.87	-	-
<ul> <li>Wanguard Total Intl Bd II Idx Investor</li> </ul>	_	0.08	99.95	_	_
$\oplus$ Us Dollar	-	0.05	100.00	-	-

#### Total Holdings 7

 $\oplus$  Increase  $\oplus$  Decrease R New to Portfolio



Morningstar Index Morningstar Lifetime Mod 2050 TR USD Morningstar Category Target-Date 2050

8.97 2.61 0.11	5.50 1.41 7.55
8.97	5.50
35.02	31.39
53.29	54.14
Net %	Cat%
	53.29

# Vanguard Target Retirement 2055 Fund VFFVX

#### Portfolio Manager(s)

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

#### 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 8.86 years.

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

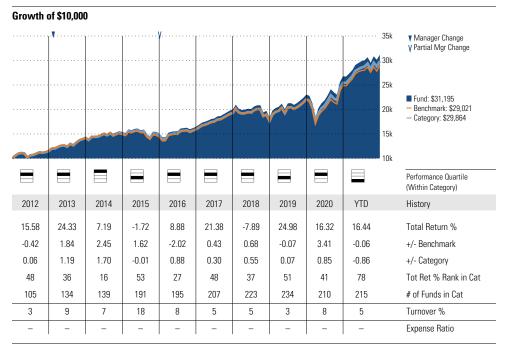
Net Expense: The fund's expense ratio of 0.15 is 78.87% lower than the Target-Date 2055 category average.

#### **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
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021

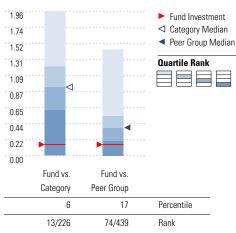


Morningstar Category

Target-Date 2055

# **Trailing Performance**





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 1.96 1.68 0.94 0.95 Beta \_ **R-Squared** 99.14 98.43 Standard Deviation 15 77 16 78 16 07 Sharpe Ratio 1.14 1.03 1.12 Tracking Error 1.81 2.10 Information Ratio 0.62 0.56 Up Capture Ratio 99.04 99.94 Down Capture Ratio 91.67 93.93

#### **Portfolio Metrics** Fund Bmark Cat Price/Earnings Ratio 19 18 18 14 19.70 Price/Book Ratio 2.73 2.50 2.77 Avg Eff Duration 7 37 6 64

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Morningstar Index Morningstar Lifetime Mod 2055 TR

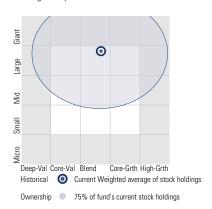
USD

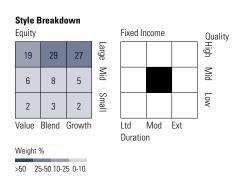
**Total Return %** 

20%

# Vanguard Target Retirement 2055 Fund VFFVX

**Style Analysis** as of 12-31-2021 Morningstar Style Box<sup>™</sup>





# 

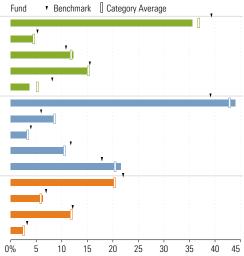
Other	0.11	5.27
Cash	2.70	1.52
Bonds	9.05	4.53
Non-US Stocks	34.80	34.51
US Stocks	53.35	54.17
Asset Class	Net %	Cat%

Morningstar Category Target-Date 2055 Morningstar Index Morningstar Lifetime Mod 2055 TR USD

#### Sector Weighting as of 12-31-2021

Asset Allocation as of 12-31-2021

		Fund	Bmark	Cat	Fund	<ul> <li>Benchm</li> </ul>
Դ	Cyclical	35.56	39.15	36.81		
ŵ.	Basic Materials	4.63	5.11	4.51		_
A	Consumer Cyclical	12.32	10.69	11.83		)
цů,	Financial Services	14.97	15.35	15.24		-
ŵ	Real Estate	3.64	8.00	5.23		•
w,	Sensitive	44.01	38.97	42.85		_
d	Communication Services	8.34	5.82	8.56	_	
0	Energy	3.50	3.81	3.32		_
٥	Industrials	10.63	11.62	10.53		]
	Technology	21.54	17.72	20.44		
<b>→</b>	Defensive	20.43	21.87	20.34		-
F	Consumer Defensive	6.30	6.79	5.89		0
٠	Healthcare	11.55	12.00	11.90	_	
2	Utilities	2.58	3.08	2.55		
						10



#### Top 7 Holdings as of 12-31-2021

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Or Stand Stock Mkt Idx Inv     Stand Stock Mkt Idx Inv     Stand Stan	-	53.88	53.88	_	_
$\oplus$ Vanguard Total Intl Stock Index Inv	-	35.65	89.53	-	-
$\oplus$ Vanguard Total Bond Market II Idx Inv	-	6.47	96.00	-	-
$\oplus$ Vanguard Total Intl Bd Idx Investor	-	2.67	98.66	-	-
① Mktliq 12/31/2049	-	1.09	99.76	-	_
$\oplus$ Vanguard Total Intl Bd II Idx Investor	_	0.19	99.95	-	-
🛨 Us Dollar	-	0.05	100.00	_	-

#### Total Holdings 7

 $\oplus$  Increase  $\oplus$  Decrease R New to Portfolio



# Vanguard Target Retirement 2060 Fund VTTSX

#### Portfolio Manager(s)

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

#### Quantitative Screens

*Performance:* The fund has finished in the Target-Date 2060 category's top three quartiles in 8 of the 9 years it's been in existence.

Management: The fund's management has been in place for 8.86 years.

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

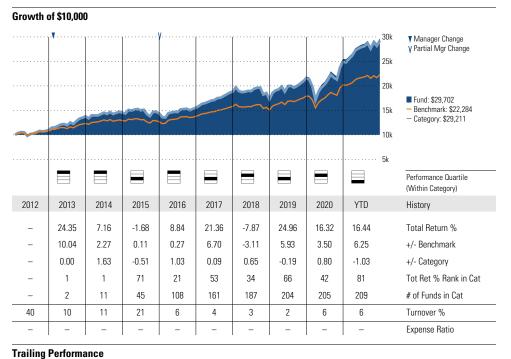
Net Expense: The fund's expense ratio of 0.15 is 79.17% lower than the Target-Date 2060 category average.

#### **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
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021



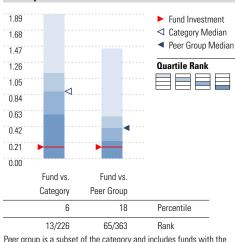
Alpha

Morningstar Category

Target-Date 2060

#### 3 Month 1 Year 3 year 5 year 10 year 5.66 16.44 19.17 13.61 3.43 10.19 13.95 10.07 8.75 5.83 17 47 13 45 19.28 66 81 67 57 226 209 189 140

Net Expense



13/220 03/303 HdHk	
er group is a subset of the category and includes	s funds with the
ne management style (active vs. passive) and si	milar share class
aracteristics.	

as of 12-31-2021 Fund 15 Benchmark Category 10 5 Λ Average annual, if greater than 1 year Since Inception Fund Return % 11.62 6.93 Benchmark Return % Category Average % \_ % Rank in Category # of Funds in Category **3-Year Risk Metrics** Fund Bmark Cat -0.81 -1.18

20%

**Total Return %** 

Beta	1.44	-	1.47
R-Squared	98.94	-	97.94
Standard Deviation	15.75	10.91	16.20
Sharpe Ratio	1.14	1.18	1.12
Tracking Error	5.03	-	5.64
Information Ratio	1.04	-	0.94
Up Capture Ratio	142.33	-	144.58
Down Capture Ratio	151.31	-	156.44

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	19.21	17.96	19.81
Price/Book Ratio	2.74	2.46	2.84
Avg Eff Duration	7.32	6.79	6.51

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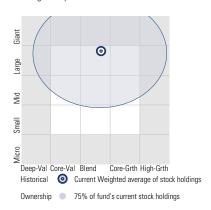


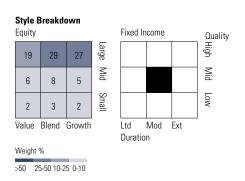
Morningstar Index

Morningstar Mod Tgt Risk TR USD

# Vanguard Target Retirement 2060 Fund VTTSX

**Style Analysis** as of 12-31-2021 Morningstar Style Box™





#### Top 7 Holdings as of 12-31-2021

F		
ļ	50	

Asset Allocation as of 12-31-2021

Total	100.00	100.00
Other	0.11	3.68
Cash	2.78	2.14
Bonds	9.09	5.31
Non-US Stocks	34.46	33.94
US Stocks	53.55	54.92
Asset Class	Net %	Cat%

**Morningstar Index** 

Morningstar Mod Tgt Risk TR USD

Morningstar Category

Target-Date 2060

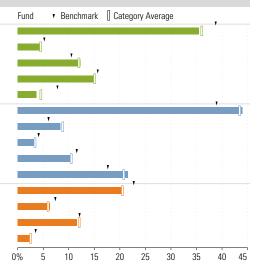
Cat

36.04

# Fund Bmark Cyclical 35.52 38.62 Basic Materials 4.60 5.07

Sector Weighting as of 12-31-2021

<i>.</i>	Basic Materials	4.60	5.07	4.48
A	Consumer Cyclical	12.33	10.38	11.98
ц.	Financial Services	14.96	15.53	15.04
ŵ	Real Estate	3.63	7.64	4.54
₩.	Sensitive	44.04	38.79	43.45
đ	Communication Services	8.35	5.90	8.82
0	Energy	3.50	3.96	3.39
Ф	Industrials	10.61	11.42	10.48
	Technology	21.58	17.51	20.76
-	Defensive	20.43	22.58	20.50
E	Consumer Defensive	6.30	7.23	5.95
٠	Healthcare	11.55	11.97	12.04
2	Utilities	2.58	3.38	2.51



Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
-	54.09	54.09	_	_
-	35.30	89.39	-	-
-	6.73	96.12	-	-
-	2.27	98.39	-	-
-	1.14	99.53	-	-
_	0.38	99.91	-	_
-	0.09	100.00	-	_
	, _ _ _ _ _ _	- 54.09 - 35.30 - 6.73 - 2.27 - 1.14 - 0.38	- 54.09 54.09 - 35.30 89.39 - 6.73 96.12 - 2.27 98.39 - 1.14 99.53 - 0.38 99.91	- 54.09 54.09 - - 35.30 89.39 - - 6.73 96.12 - - 2.27 98.39 - - 1.14 99.53 - - 0.38 99.91 -

#### Total Holdings 7

 $\oplus$  Increase  $\oplus$  Decrease R New to Portfolio



## Vanguard Target Retirement 2065 Fund VLXVX

#### Portfolio Manager(s)

Walter Nejman since 07-2017 William Coleman since 07-2017

#### Quantitative Screens

× *Performance:* The fund has finished in the Target-Date 2065+ category's top three quartiles in 2 of the 4 years it's been in existence.

Management: The fund's management has been in place for 4.47 years.

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

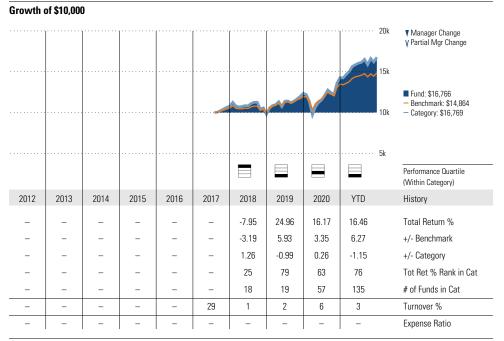
Net Expense: The fund's expense ratio of 0.15 is 78.87% lower than the Target-Date 2065+ category average.

#### 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
ESG Commitment	1-Low	12-16-2021
Sustainability Rating	3	11-30-2021
Carbon Risk Score	Low Risk	09-30-2021

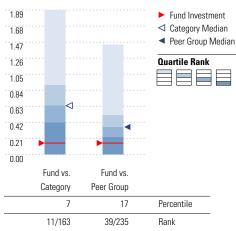


**Morningstar Category** 

Target-Date 2065+







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

5 Λ Average annual, if greater than 1 year Since Inception Fund Return % Benchmark Return % Category Average % % Rank in Category # of Funds in Category **3-Year Risk Metrics** Fund Bmark Cat Alpha -0.89 -1.51 1.53 Beta 1 4 4 \_ R-Squared 98.95 98.02 Standard Deviation 15 79 10.91 16.83 Sharpe Ratio 1.14 1.18 1.10 Tracking Error 5.06 6.23 Information Ratio 1.02 0.92

20%

15

10

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	19.13	17.96	18.85
Price/Book Ratio	2.71	2.46	2.63
Avg Eff Duration	7.31	6.79	6.56

142.38

151.85

Up Capture Ratio

Down Capture Ratio

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148.16

160.92

Morningstar Index

Morningstar Mod Tgt Risk TR USD

**Total Return %** 

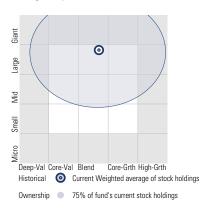
as of 12-31-2021 Fund

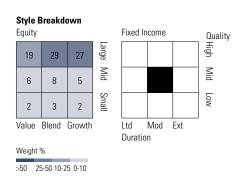
Benchmark

Category

# Vanguard Target Retirement 2065 Fund VLXVX

**Style Analysis** as of 12-31-2021 Morningstar Style Box™





# 

Asset Class	Net %	Cat%
US Stocks	52.71	46.42
Non-US Stocks	35.19	38.57
Bonds	9.12	7.50
Cash	2.87	2.10
Other	0.11	5.42
Total	100.00	100.00

**Morningstar Index** 

Morningstar Mod Tgt Risk TR USD

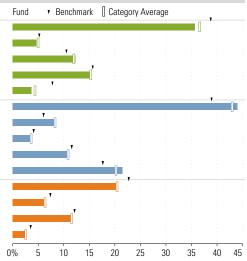
Morningstar Category

Target-Date 2065+

#### Sector Weighting as of 12-31-2021

Asset Allocation as of 12-31-2021

		Fund	Bmark	Cat	
Դ	Cyclical	35.64	38.62	36.60	
æ.	Basic Materials	4.66	5.07	4.97	
	Consumer Cyclical	12.33	10.38	11.97	
ц.	Financial Services	15.01	15.53	15.29	
ŵ	Real Estate	3.64	7.64	4.37	
w	Sensitive	43.96	38.79	42.97	
	Communication Services	8.32	5.90	8.29	
0	Energy	3.52	3.96	3.61	
¢	Industrials	10.65	11.42	10.84	
	Technology	21.47	17.51	20.23	
-	Defensive	20.42	22.58	20.43	
F	Consumer Defensive	6.31	7.23	6.34	
٠	Healthcare	11.53	11.97	11.53	
<b>9</b>	Utilities	2.58	3.38	2.56	



#### Top 7 Holdings as of 12-31-2021

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
$\oplus$ Vanguard Total Stock Mkt Idx Inv	-	53.23	53.23	_	_
$\oplus$ Vanguard Total Intl Stock Index Inv	-	36.06	89.29	_	-
$\oplus$ Vanguard Total Bond Market II Idx Inv	-	6.80	96.09	_	-
$\oplus$ Vanguard Total Intl Bd Idx Investor	-	1.71	97.81	_	-
⊖ Mktliq 12/31/2049	-	1.27	99.08	-	_
$\oplus$ Vanguard Total Intl Bd II Idx Investor	_	0.89	99.97	_	-
🕀 Us Dollar	_	0.03	100.00	_	-

#### Total Holdings 7

 $\oplus$  Increase  $\ominus$  Decrease R New to Portfolio

