### American Funds American Balanced R6 RLBGX

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

Fauity

Morningstar Mod Tgt Risk TR USD

#### Portfolio Manager(s)

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

#### **Quantitative Screens**

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

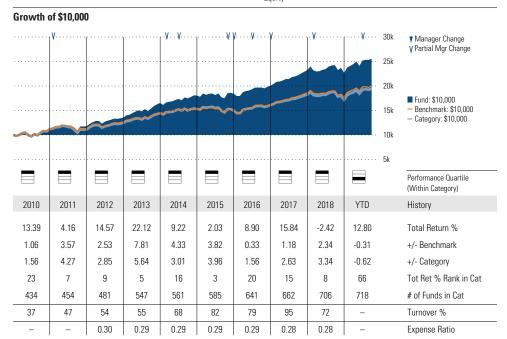
Management: The fund's management has been in place for 20.76 years.

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

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

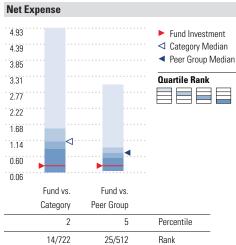
#### **Morningstar Investment Management LLC Analysis**

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





3-Year Risk Metrics



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

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





## American Funds American Balanced R6 RLBGX

Morningstar Category Allocation--50% to 70%

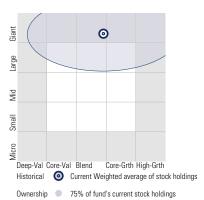
Equity

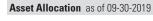
Morningstar Index

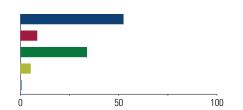
Morningstar Mod Tgt Risk TR USD

Style Analysis as of 09-30-2019

Morningstar Style  $Box^{TM}$ 







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

Style	Break	tdown

Equity





3	2	∕lid			
0	0	Small			
nd	Growth		Ltd	Mod	Ext
			Duratio	n	

### Weight %

>50 25-50 10-25 0-10

		Fund	Bmark	Cat	Fun	d '	Bench	mark	Cate	gory Ave	erage		
b	Cyclical	33.45	42.06	36.28									
÷.	Basic Materials	5.24	4.95	3.86									
-	Consumer Cyclical	9.94	11.14	11.19									
ê	Financial Services	13.62	17.57	16.90									
b	Real Estate	4.65	8.40	4.33			•					į	
M	Sensitive	43.65	34.58	38.84								'.	
	Communication Services	3.68	3.33	2.81		()							
•	Energy	5.69	5.23	5.09									
þ	Industrials	9.12	11.14	10.96				i					
2	Technology	25.16	14.88	19.98									
+	Defensive	22.91	23.36	24.88						<b>I</b>			
=	Consumer Defensive	7.55	8.77	7.84									
ř	Healthcare	14.30	10.28	13.53									
?	Utilities	1.06	4.31	3.51		[]							

<b>Top 10 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Capital Group Central Cash Fund	_	5.20	5.20	_	_
	-	4.40	9.60	38.24	Technology
	-	2.39	11.99	37.41	Consumer Cyclical
─ UnitedHealth Group Inc	_	2.36	14.35	-11.54	Healthcare
⊖ Berkshire Hathaway Inc A	_	1.72	16.07	1.91	Financial Services
⊕ Taiwan Semiconductor Manufacturing Co Ltd ADR	_	1.54	17.60	30.25	Technology
⊕ Boeing Co	_	1.51	19.11	19.89	Industrials
⊕ Broadcom Inc	_	1.39	20.50	11.70	Technology
⊕ Philip Morris International Inc	_	1.37	21.87	18.90	Consumer Defensive
⊕ Intel Corp	_	1.32	23.19	11.82	Technology

#### Total Holdings 1731



### American Funds Europacific Growth R6 RERGX

## **Morningstar Category**Foreign Large Growth

Morningstar Index MSCI EAFE NR USD

#### Portfolio Manager(s)

Carl Kawaja since 06-2001
Sung Lee since 06-2002
Nicholas Grace since 06-2002
Jesper Lyckeus since 06-2004
Jonathan Knowles since 06-2006
Andrew Suzman since 06-2007
Christopher Thomsen since 06-2008
Lawrence Kymisis since 06-2014
Lara Pellini since 10-2014

#### **Quantitative Screens**

❷ Performance: The fund has finished in the Foreign 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 18.34 years.

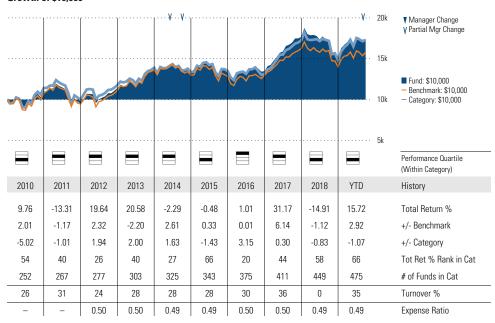
Style: The fund has landed in its primary style box — Large Growth — 100 % of the time over the past three vears.

Net Expense: The fund's expense ratio of 0.49 is 56.64% lower than the Foreign Large Growth category average.

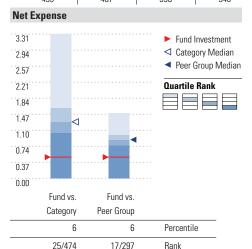
#### **Morningstar Investment Management LLC Analysis**

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

#### Growth of \$10,000







3-Year Risk Metrics			
	Fund	Bmark	Cat
Alpha	0.63	_	0.58
Beta	1.05	_	1.03
R-Squared	90.11	_	_
Standard Deviation	12.26	11.07	12.56
Sharpe Ratio	0.51	0.48	0.46
Tracking Error	3.90	_	5.20
Information Ratio	0.23	_	0.11
Up Capture Ratio	99.76	_	98.91
Down Capture Ratio	93.16	-	93.55

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	18.06	15.97	22.11
Price/Book Ratio	2.28	1.56	3.08
Geom Avg Mkt Cap \$B	44.15	35.74	39.99
ROE	17.63	16.29	20.08



## American Funds Europacific Growth R6 RERGX

#### Morningstar Category M Foreign Large Growth M

**Morningstar Index** MSCI EAFE NR USD

### Style Analysis as of 09-30-2019

Morningstar Style Box™



#### Style Breakdown

Equity

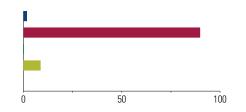
15	18		Large
2	3	6	Mid
0	0	0	Small

Value Blend Growth

#### Weight %

>50 25-50 10-25 0-10

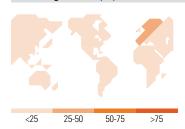
#### Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	1.59	8.20
Non-US Stocks	89.75	88.19
Bonds	0.11	0.04
Cash	8.55	3.31
Other	0.00	0.27
Total	100.00	100.00

Sec	ctor Weighting as of 09-	30-2019			
		Fund	Bmark	Cat	Fund • Benchmark [] Category Average
Դ	Cyclical	40.02	41.16	35.91	
A	Basic Materials	8.12	7.55	5.71	
A	Consumer Cyclical	12.79	11.47	13.00	
<del>,</del>	Financial Services	17.78	18.49	16.23	
侖	Real Estate	1.33	3.65	0.97	
W	Sensitive	39.74	31.34	36.38	
d	Communication Services	1.55	3.97	1.25	
•	Energy	6.20	5.38	2.50	
Ф	Industrials	11.81	13.77	13.97	Ĭ
	Technology	20.18	8.22	18.66	
<b>→</b>	Defensive	20.24	27.50	27.70	
Ħ	Consumer Defensive	6.12	12.02	13.45	
٠	Healthcare	10.85	11.82	13.10	
•	Utilities	3.27	3.66	1.15	
					0% 5 10 15 20 25 30 35 40 4

#### World Regions % Equity 09-30-2019



Greater Asia	Fund % 48.50	Cat % 30.83	
Japan	15.35	13.01	
Australasia	1.19	2.16	
Asia-4 Tigers	11.36	6.39	
Asia-ex 4 Tigers	20.60	9.27	
Not Classified	0.00	0.00	

Americas	Fund % 12.05	Cat % 15.21	Greater Europe	Fund % 39.44	Cat % 53.95	Market Maturity	Fund %
North America	5.32	13.02	United Kingdom	9.02	12.58	Developed Markets	71.33
Central/Latin	6.73	2.19	W euro-ex UK Emrgng Europe	28.66 0.78	40.14 0.38	Emerging Markets Not Available	28.67 0.00
			Africa	0.98	0.85		

<b>Top 10 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Capital Group Central Cash Fund	8.12	8.12	_	_
	2.61	10.73	43.94	Industrials
	2.56	13.29	15.89	Financial Services
⊕ Nintendo Co Ltd	2.41	15.71	38.84	Technology
Reliance Industries Ltd	2.38	18.09	19.40	Energy
	2.32	20.40	16.65	Financial Services
	2.12	22.53	22.00	Consumer Cyclical
⊕ ASML Holding NV	1.95	24.47	67.21	Technology
	1.61	26.09	_	Technology
Daiichi Sankyo Co Ltd	1.56	27.64	95.78	Healthcare

#### Total Holdings 322

 $\oplus$  Increase  $\ominus$  Decrease  $\ref{eq:property}$  New to Portfolio



## American Funds Growth Fund of Amer R6 RGAGX

Morningstar Category

Large Growth

Morningstar Index

Russell 1000 Growth TR USD

#### Portfolio Manager(s)

Donald O'Neal since 11-1993
Michael Kerr since 11-1998
J. Frank since 11-2001
Barry Crosthwaite since 11-2007
James Terrile since 11-2008
Lawrence Solomon since 05-2010
Martin Romo since 11-2010
Carl Kawaja since 11-2010
Mark Casey since 11-2012
Alan Wilson since 11-2012
Anne-Marie Peterson since 07-2013
Christopher Buchbinder since 11-2013
Jody Jonsson since 03-2016

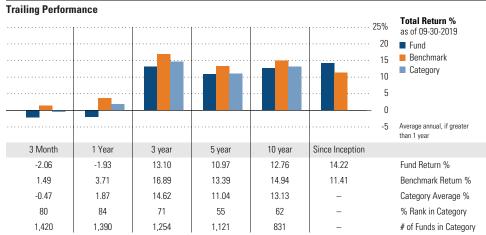
#### **Quantitative Screens**

- ❷ Performance: The fund has finished in the Large Growth category's top three quartiles in 9 of the 10 years it's been in existence.
- Management: The fund's management has been in place for 25.93 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 0.32 is
   69.23% lower than the Large Growth category average.

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

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

#### Growth of \$10,000 ▼ Manager Change V Partial Mgr Change 35k 30k 25k Fund: \$10,000 20k - Benchmark: \$10,000 Category: \$10,000 15k 10k Performance Quartile (Within Category) 2010 2011 2012 2013 2014 2015 2016 2017 2018 YTD History 12.67 -4.53 20.98 34 29 9 63 5.70 8 82 26 53 -2.60 15.46 Total Return % -7.17 -3.42 0.03 -1.09 -7.84 -4.04 5.72 0.81 1.74 -3.68 +/- Benchmark -2.07 0.37 -0.37 -0.51 -2.86 5.64 2.10 5.59 -1.14 -5.08 +/- Category 74 69 6 44 56 34 9 57 53 90 Tot Ret % Rank in Cat 844 884 1,074 1,129 1,396 # of Funds in Cat 939 1,018 1,215 1,265 1,355 33 34 18 27 26 29 31 25 28 36 Turnover %



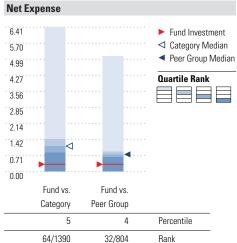
0.33

0.33

0.32

0.32

Expense Ratio



0.34

0.34

0.30

0.33

3-Year RISK Wetrics			
	Fund	Bmark	Cat
Alpha	-2.47	_	-1.63
Beta	0.95	_	0.99
R-Squared	93.11	_	91.12
Standard Deviation	13.03	13.30	13.80
Sharpe Ratio	0.89	1.12	0.96
Tracking Error	3.50	_	4.12
Information Ratio	-1.08	_	-0.65
Up Capture Ratio	87.91	_	92.49
Down Capture Ratio	100.80	_	99.37

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	23.32	25.98	26.42
Price/Book Ratio	3.81	7.55	6.09
Geom Avg Mkt Cap \$B	92.96	125.13	169.04
ROE	21.39	34.85	29.93





### American Funds Growth Fund of Amer R6 RGAGX

Morningstar Category

Large Growth

Morningstar Index

Russell 1000 Growth TR USD

### Style Analysis as of 09-30-2019

Morningstar Style Box™



### Style Breakdown

Equity

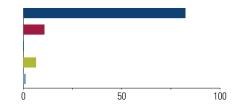
10	21		Luigo
2	4	7	IVIIG
0	0	0	O

Value Blend Growth

#### Weight %

>50 25-50 10-25 0-10





Total	100.00	100.00
Other	0.98	0.45
Cash	6.27	2.07
Bonds	0.04	0.04
Non-US Stocks	10.48	5.58
US Stocks	82.23	91.88
Asset Class	Net %	Cat%

		Fund	Bmark	Cat	Fund	d	▼ Be	nchma	rk [	Cated	ory Av	erage			
b	Cyclical	32.36	27.46	33.17							v '.				
à.	Basic Materials	2.08	1.23	1.79											
<b>-</b>	Consumer Cyclical	17.30	15.58	16.97											
ê	Financial Services	11.35	7.92	12.38			<b>'</b> :	]							
b	Real Estate	1.63	2.73	2.03											
M	Sensitive	47.81	53.22	46.63											
	Communication Services	2.68	1.22	1.53											
•	Energy	3.72	0.27	1.09											
<b>\$</b>	Industrials	10.55	11.56	9.30									į		
1	Technology	30.86	40.17	34.71											
<b>→</b>	Defensive	19.82	19.32	20.20											
Ę	Consumer Defensive	3.84	5.45	5.02		<b>■</b> [									
ŀ	Healthcare	15.94	13.87	14.58											
1	Utilities	0.04	0.00	0.60	in										

<b>Top 15 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Capital Group Central Cash Fund	6.30	6.30	_	_
Facebook Inc A	5.24	11.53	35.85	Technology
	5.04	16.58	38.24	Technology
Amazon.com Inc	3.90	20.48	15.58	Consumer Cyclical
⊕ Netflix Inc	3.71	24.19	-0.01	Consumer Cyclical
⊕ UnitedHealth Group Inc	2.29	26.48	-11.54	Healthcare
	2.29	28.77	17.71	Technology
→ Broadcom Inc	1.82	30.59	11.70	Technology
	1.58	32.17	44.48	Financial Services
	1.54	33.72	37.41	Consumer Cyclical
Abbott Laboratories	1.38	35.10	17.01	Healthcare
⊕ Charter Communications Inc A	1.38	36.48	44.62	Communication Svc
	1.36	37.84	16.86	Technology
Thermo Fisher Scientific Inc	1.15	38.99	30.41	Healthcare
Berkshire Hathaway Inc A	1.10	40.10	1.91	Financial Services

Total Holdings 335



## American Funds Invmt Co of Amer R6 RICGX

Morningstar Category

Large Blend

Morningstar Index S&P 500 TR USD

#### Portfolio Manager(s)

James Lovelace since 03-1992
Donald O'Neal since 03-1992
Joyce Gordon since 01-2001
Christopher Buchbinder since 03-2007
Eric Richter since 03-2008
Barry Crosthwaite since 01-2013
Grant Cambridge since 03-2014
Martin Romo since 07-2018

#### **Quantitative Screens**

❷ 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.

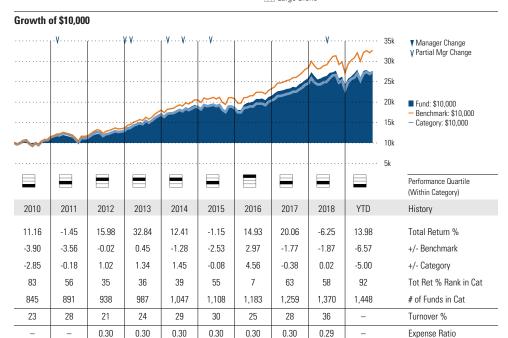
Management: The fund's management has been in place for 27.6 years.

Style: The fund has landed in its primary style box —
 Large Blend — 81.82 % of the time over the past three
 years.

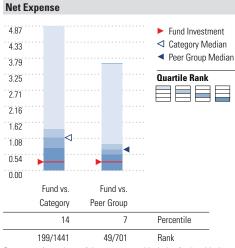
Net Expense: The fund's expense ratio of 0.29 is 68.13% lower than the Large Blend category average.

#### **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.







3-Year KISK Wietrics			
	Fund	Bmark	Cat
Alpha	-1.97	_	-1.24
Beta	0.90	_	0.96
R-Squared	94.39	_	93.99
Standard Deviation	11.23	12.18	12.01
Sharpe Ratio	0.75	0.96	0.84
Tracking Error	2.95	_	2.98
Information Ratio	-1.22	_	-1.29
Up Capture Ratio	86.22	_	91.29
Down Capture Ratio	100.18	_	97.85

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	20.52	20.32	20.89
Price/Book Ratio	3.03	3.18	3.47
Geom Avg Mkt Cap \$B	114.75	111.20	178.81
ROE	25.49	26.31	28.46





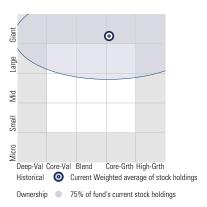
## American Funds Invmt Co of Amer R6 RICGX

# Morningstar Category Large Blend

Morningstar Index S&P 500 TR USD

Style Analysis as of 09-30-2019

Morningstar Style Box™



#### Style Breakdown

Equity

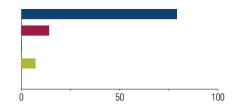
22	36	35	Large
3	3	1	Mid
0	0	0	Small

Value Blend Growth

Weight %

>50 25-50 10-25 0-10





Total	100.00	100.00
Other	0.06	1.18
Cash	7.00	0.92
Bonds	0.08	0.37
Non-US Stocks	13.95	2.95
US Stocks	78.91	94.56
Asset Class	Net %	Cat%

Sector Weighting as of 0	9-30-2019			
	Fund	Bmark	Cat	Fund • Benchmark [] Category Average
<b>ひ</b> Cyclical	25.40	33.06	34.49	
Basic Materials	5.05	2.40	2.73	
Consumer Cyclical	10.98	11.76	11.95	
Financial Services	7.84	15.68	16.57	<b>'</b> 0
♠ Real Estate	1.53	3.22	3.24	
✓ Sensitive	44.20	41.65	40.62	
Communication Services	0.94	3.41	2.85	
<b>Energy</b>	9.84	4.52	4.44	
Industrials	9.40	10.39	11.24	<u> </u>
Technology	24.02	23.33	22.09	
→ Defensive	30.40	25.28	24.88	
Consumer Defensive	9.81	8.12	8.21	
Healthcare	17.54	13.57	13.79	
Utilities	3.05	3.59	2.88	<u> </u>
				0% 5 10 15 20 25 30 35 40

<b>Top 15 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
○ Capital Group Central Cash Fund	7.18	7.18	_	_
	4.87	12.05	38.24	Technology
⊕ Facebook Inc A	4.68	16.73	35.85	Technology
Abbott Laboratories	3.15	19.88	17.01	Healthcare
⊕ Broadcom Inc	2.69	22.57	11.70	Technology
⊕ Amazon.com Inc	2.22	24.78	15.58	Consumer Cyclical
⊕ Exxon Mobil Corp	2.16	26.94	7.30	Energy
AbbVie Inc	2.15	29.10	-14.38	Healthcare
The Home Depot Inc	1.69	30.79	37.41	Consumer Cyclical
⊕ UnitedHealth Group Inc	1.68	32.47	-11.54	Healthcare
⊕ British American Tobacco PLC	1.62	34.09	24.36	Consumer Defensive
	1.54	35.63	1.64	Healthcare
Alphabet Inc A	1.54	37.17	16.86	Technology
€ EOG Resources Inc	1.51	38.68	-14.06	Energy
⊕ Linde PLC	1.45	40.14	25.83	Basic Materials

**Total Holdings** 186



### American Funds New Perspective R6 RNPGX

Morningstar Category World Large Stock Morningstar Index MSCI ACWI Ex USA NR USD

#### Portfolio Manager(s)

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

#### **Quantitative Screens**

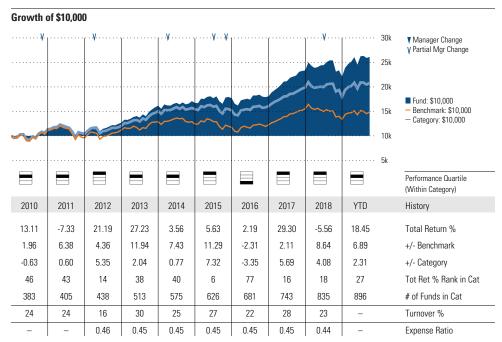
Q Performance: The fund has finished in the World Large Stock category's top three quartiles in 9 of the 10 years it's been in existence.

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

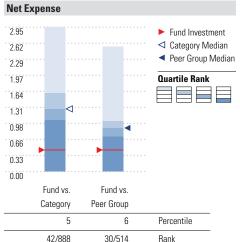
Q Net Expense: The fund's expense ratio of 0.44 is 60.71% lower than the World Large Stock category average.

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

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







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

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



# American Funds New Perspective R6 RNPGX

#### Morningstar Category World Large Stock

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

### Style Analysis as of 09-30-2019

Morningstar Style Box™



#### Style Breakdown

Equity

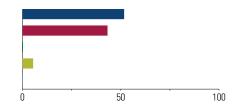
10	24	56	Large
1	3	6	Mid
0	0	1	Small

Value Blend Growth

Weight %

>50 25-50 10-25 0-10

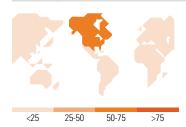
#### Asset Allocation as of 09-30-2019



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

Sec	ctor Weighting as of 09-	30-2019			
		Fund	Bmark	Cat	Fund • Benchmark   Category Average
<mark>Մ</mark>	Cyclical	37.63	43.59	36.55	
A	Basic Materials	5.76	7.74	4.22	
<b>A</b>	Consumer Cyclical	14.86	10.98	12.39	
÷	Financial Services	16.02	21.61	17.36	
fil.	Real Estate	0.99	3.26	2.58	
W	Sensitive	39.61	34.08	38.95	
	Communication Services	1.45	4.11	2.94	
ð	Energy	3.41	6.84	4.23	
Ф	Industrials	9.83	11.09	12.16	
	Technology	24.92	12.04	19.62	
<b>→</b>	Defensive	22.76	22.31	24.52	
	Consumer Defensive	8.22	10.32	8.83	
+	Healthcare	13.31	8.64	12.61	
•	Utilities	1.23	3.35	3.08	
-					0% 5 10 15 20 25 30 35 40 4

#### World Regions % Equity 09-30-2019



Greater Asia	Fund % 13.72	Cat % 15.65
Japan	5.75	5.80
Australasia	0.16	1.03
Asia-4 Tigers	5.92	3.59
Asia-ex 4 Tigers	1.89	5.23
Not Classified	0.00	0.00

Americas	Fund % 57.63	Cat % 59.15	Greater Europe	Fund % 28.67	Cat % 25.20	Market Maturity	Fund %
North America Central/Latin	55.81 1.82	58.18 0.97	United Kingdom W euro-ex UK Emrgng Europe Africa	5.42 21.83 0.42 1.00	6.77 17.64 0.29 0.50	Developed Markets Emerging Markets Not Available	94.98 5.02 0.00

<b>Top 10 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
○ Capital Group Central Cash Fund	5.31	5.31	-	_
⊕ Amazon.com Inc	3.45	8.76	15.58	Consumer Cyclical
⊕ Facebook Inc A	2.72	11.48	35.85	Technology
⊕ Microsoft Corp	2.64	14.12	38.24	Technology
Mastercard Inc A	2.04	16.17	44.48	Financial Services
□ Taiwan Semiconductor Manufacturing Co Ltd	2.01	18.18	25.06	Technology
⊕ JPMorgan Chase & Co	1.70	19.88	23.02	Financial Services
⊕ Broadcom Inc	1.63	21.51	11.70	Technology
Visa Inc Class A	1.53	23.03	30.94	Financial Services
CME Group Inc Class A	1.52	24.55	13.54	Financial Services

#### Total Holdings 298



### American Funds New World R6 RNWGX

## Morningstar CategoryMorningstar IndexDiversified Emerging MktsMSCI EM NR USD

#### Portfolio Manager(s)

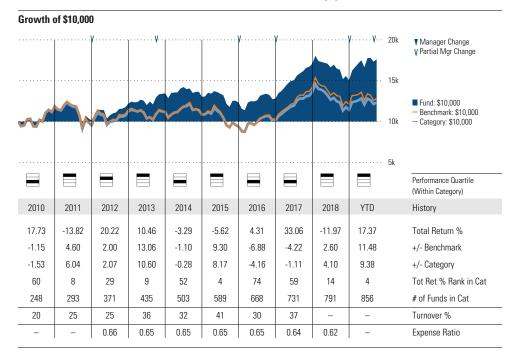
Robert Lovelace since 06-1999
Carl Kawaja since 06-1999
Wahid Butt since 01-2008
Nicholas Grace since 01-2008
Christopher Thomsen since 01-2009
Winnie Kwan since 01-2009
Tomonori Tani since 10-2013
Jonathan Knowles since 01-2016
Bradford Freer since 01-2017
Steven Backes since 01-2019
Lisa Thompson since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

#### Quantitative Screens

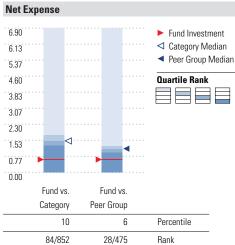
- Performance: The fund has finished in the Diversified Emerging Mkts category's top three quartiles in 10 of the 10 years it's been in existence.
- Management: The fund's management has been in place for 20.3 years.
- Style: The fund has landed in its primary style box —
   Large Growth 100 % of the time over the past three
   years.
- Net Expense: The fund's expense ratio of 0.62 is
   51.94% lower than the Diversified Emerging Mkts category average.

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

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

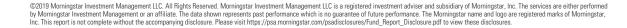






3-Year Risk Metrics			
	Fund	Bmark	Cat
Alpha	4.54	_	-0.25
Beta	0.78	_	0.92
R-Squared	90.71	_	87.64
Standard Deviation	11.47	14.04	13.77
Sharpe Ratio	0.71	0.37	0.31
Tracking Error	4.68	_	4.83
Information Ratio	0.77	_	-0.18
Up Capture Ratio	90.90	_	92.55
Down Capture Ratio	67.68	_	94.88

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



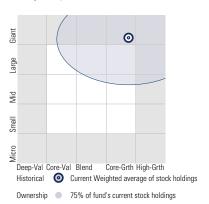


### American Funds New World R6 RNWGX

## Morningstar CategoryMorningstar IndexDiversified Emerging MktsMSCI EM NR USD

#### Style Analysis as of 09-30-2019

Morningstar Style Box™



#### Style Breakdown

Equity

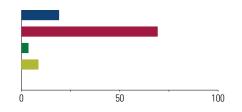
11	20		Large
3	3	6	Mid
0	0	1	Small

Value Blend Growth

#### Weight %

>50 25-50 10-25 0-10

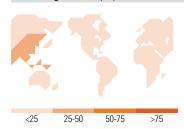
### Asset Allocation as of 09-30-2019



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

Sec	ctor Weighting as of 09-	30-2019													
		Fund	Bmark	Cat	Fun	d	▼ Ben	chmarl	[] Ca	ategory	Avera	ge			
ሁ	Cyclical	38.99	46.93	46.72											
Å.	Basic Materials	7.58	7.69	5.48			ľ								
A	Consumer Cyclical	11.94	11.59	12.95			: <b>V</b>								
æ	Financial Services	17.95	24.70	25.77						[					
<b>fi</b>	Real Estate	1.52	2.95	2.52	<u> </u>	'									
W	Sensitive	40.92	40.65	38.20											
d	Communication Services	1.07	4.74	3.57											
•	Energy	7.00	7.42	5.97			•								
Ф	Industrials	9.24	4.96	5.04											
	Technology	23.61	23.53	23.62											
<b>→</b>	Defensive	20.09	12.41	15.06											
Ħ	Consumer Defensive	6.68	7.27	10.21			[								
+	Healthcare	10.39	2.48	2.95											
•	Utilities	3.02	2.66	1.90											
					0%	5	10	15	20	25	30	35	40	45	5(

#### World Regions % Equity 09-30-2019



Greater Asia	Fund % 41.80	Cat % 68.54
Gledlei Asid		00.34
Japan	5.60	0.11
Australasia	1.02	0.01
Asia-4 Tigers	8.60	22.46
Asia-ex 4 Tigers	26.58	45.96
Not Classified	0.00	0.00

Americas	Fund % 34.62	Cat % 15.61	Greater Europe	Fund % 23.57	Cat % 15.84	Market Maturity	Fund %
North America	23.07	1.60	United Kingdom	4.13	0.91	Developed Markets	57.37
Central/Latin	11.55	14.01	W euro-ex UK	14.72	2.13	<b>Emerging Markets</b>	42.63
			Emrgng Europe	2.35	6.36	Not Available	0.00
			Africa	2.37	6.44		

<b>Top 10 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Capital Group Central Cash Fund	7.55	7.55	_	_
⊕ Kotak Mahindra Bank Ltd	1.91	9.46	30.94	Financial Services
⊕ Reliance Industries Ltd	1.88	11.34	19.40	Energy
Taiwan Semiconductor Manufacturing Co Ltd	1.77	13.11	25.06	Technology
	1.76	14.88	38.24	Technology
	1.60	16.48	22.00	Consumer Cyclical
⊕ AIA Group Ltd	1.54	18.03	15.89	Financial Services
→ HDFC Bank Ltd	1.44	19.47	16.65	Financial Services
∋ Tencent Holdings Ltd	1.32	20.78	5.48	Technology
	1.29	22.07	44.48	Financial Services

#### Total Holdings 522



### **Baird Aggregate Bond Inst** BAGIX

#### Morningstar Category Intermediate Core Bond

#### Morningstar Index

BBgBarc US Agg Bond TR USD

#### Portfolio Manager(s)

Mary Stanek since 09-2000 Gary Elfe since 09-2000 Charles Groeschell since 09-2000 Daniel Tranchita since 09-2000 Warren Pierson since 09-2000 M. deGuzman since 09-2000 Jay Schwister since 05-2019 Meghan Dean since 05-2019 Jeffrey Schrom since 05-2019

#### **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.

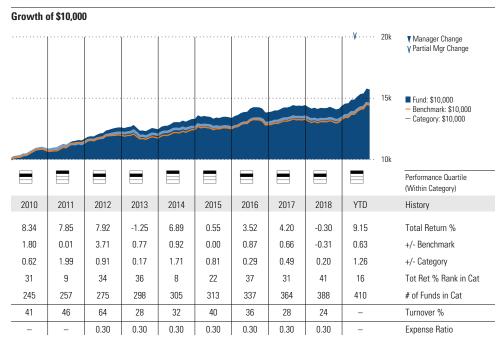
Management: The fund's management has been in place for 19.01 years.

Style Consistency is not calculated for Fixed Income funds.

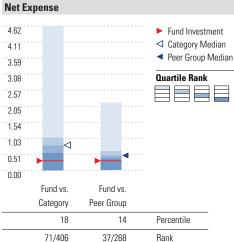
Net Expense: The fund's expense ratio of 0.3 is 54.55% lower than the Intermediate Core Bond category average.

#### **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.







3-1 car bisk intenies			
	Fund	Bmark	Cat
Alpha	0.42	_	-0.10
Beta	0.98	-	0.92
R-Squared	99.41	_	95.86
Standard Deviation	3.30	3.35	3.12
Sharpe Ratio	0.53	0.41	0.31
Tracking Error	0.26	_	0.66
Information Ratio	1.49	_	-0.69
Up Capture Ratio	103.18	_	90.62
Down Capture Ratio	93.73	_	93.22

Portfolio Metrics			
	Fund	Bmark	Cat
Avg Eff Duration	5.78	4.43	5.41
Avg Eff Maturity	7.68	_	7.00



# **Baird Aggregate Bond Inst** BAGIX

Style Analysis as of 09-30-2019
Style Breakdown
Fixed Income

Quality

G

Ltd Mod Ext

Duration

Credit Rating Breakdown	Fund	Bmark	Cat
AAA	58.20	3.53	41.28
AA	3.90	74.59	12.11
A	16.90	10.82	25.80
BBB	20.70	8.32	15.44
BB	0.30	0.28	3.70
В	0.00	0.00	0.74
Below B	0.00	0.00	0.35
Not Rated	0.00	2.46	0.58

#### Asset Allocation as of 09-30-2019 Asset Class Cat% Net % US Stocks 0.00 -0.15 Non-US Stocks 0.00 0.00 Bonds 93.97 100.71 Cash 3.75 -2.35 Other 2.28 1.79 50 100 Total 100.00 100.00

Morningstar Category Intermediate Core Bond Morningstar Index

BBgBarc US Agg Bond TR USD

0 0	30-2019		_	_			. п					
	Fund	Bmark	Cat	Fund		Benchma	ark    C	ategory	Average			
Government	23.56	-	32.50		:	:						
Treasury	23.36	-	21.91									
Inflation – Protected	0.00	-	1.75	! []								
Agency/Quasi Agency	0.17	_	1.79	į [								
Other Government Related	0.03	-	7.05	İ								
Corporate	39.09	_	26.21									
Corporate Bond	36.81	_	25.23									
Bank Loan	0.00	_	0.16									
Convertible	2.28	_	0.77									
Preferred	0.00	_	0.05									
Securitized	33.13	-	35.73									
Agency MBS Pass-Through	21.34	_	23.75			:						
Agency MBS ARM	0.00	_	0.20									
Agency MBS CMO	3.58	_	5.04		• [							
Non-Agency Residential MBS	1.00	_	0.44	0								
Commercial MBS	4.22	_	0.78									
Asset-Backed	2.99	_	5.47									
Covered Bond	0.00	_	0.05									
Municipal	0.46	-	0.77									
Cash & Equivalents	3.76	_	3.63		0							
Other	0.00	_	1.15	[ ]								
				0%	5	10	15	20	25	30	35	4

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
	,			
⊕ United States Treasury Notes 1.88%	03-2022	6.30	6.30	_
⊕ United States Treasury Bonds 2.88%	05-2043	4.09	10.39	_
⇒ First American Government Obligs U	02-2030	3.13	13.52	_
⊕ United States Treasury Bonds 2.5%	02-2045	2.99	16.51	_
─ United States Treasury Notes 2.25%	11-2025	2.21	18.71	_
	02-2039	2.04	20.76	_
⊕ United States Treasury Notes 3.13%	11-2028	1.71	22.47	_
⊕ United States Treasury Notes 1.75%	03-2022	1.28	23.74	_
⊕ United States Treasury Notes 2.5%	05-2024	1.27	25.02	_
United States Treasury Notes 2.25%	11-2027	1.21	26.22	_

Total Holdings 1208



### BlackRock High Yield Bond K BRHYX

Morningstar Category High Yield Bond Morningstar Index

ICE BofAML US High Yield TR USD

#### Portfolio Manager(s)

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

#### **Quantitative Screens**

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

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

Style Consistency is not calculated for Fixed Income funds.

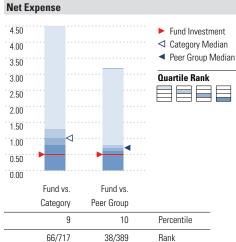
Net Expense: The fund's expense ratio of 0.5 is 49.49% lower than the High Yield Bond category average.

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

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







3-Year KISK Wetrics			
	Fund	Bmark	Cat
Alpha	0.42	-	-0.35
Beta	1.01	-	0.90
R-Squared	96.75	-	90.23
Standard Deviation	4.31	4.21	4.02
Sharpe Ratio	1.12	1.04	0.88
Tracking Error	0.78	-	1.37
Information Ratio	0.63	-	-0.89
Up Capture Ratio	102.71	-	86.99
Down Capture Ratio	91.94	_	93.08

Portfolio Metrics			
	Fund	Bmark	Cat
Avg Eff Duration	3.11	-	2.83
Avg Eff Maturity	6.93	_	4.65



Duration

### BlackRock High Yield Bond K BRHYX

Style Analysis as of 09-30-2019
Style Breakdown
Fixed Income
Quality
G

Ltd Mod Ext

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

#### Asset Allocation as of 09-30-2019 Asset Class Net % Cat% US Stocks 0.95 0.70 Non-US Stocks 0.05 0.13 Bonds 96.56 94.03 Cash 0.93 3.62 Other 1.42 1.60 50 100 Total 100.00 100.00

**Morningstar Category** 

High Yield Bond

Morningstar Index

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

ICE BofAML US High Yield TR USD

	E	D I	0-4	E d	- Developed	ПО-4	A		
	Fund	Bmark	Cat	Fund	▼ Benchmark	[] Categ	ory Averag	е	
Government	0.00	-	1.85	10					
Treasury	0.00	_	1.55	(0)					
nflation – Protected	0.00	_	0.00						
Agency/Quasi Agency	0.00	-	0.08						
Other Government Related	0.00	_	0.22						
Corporate	96.46	-	87.77						
Corporate Bond	87.01	_	82.35						
Bank Loan	8.45	_	4.27						
Convertible	0.65	_	0.98	0					
Preferred	0.35	_	0.17						
Securitized	1.09	_	1.43	10					
Agency MBS Pass-Through	0.00	_	0.09						
Agency MBS ARM	0.00	_	0.00	İ					
Agency MBS CMO	0.00	_	0.21						
Non-Agency Residential MBS	0.00	_	0.17						
Commercial MBS	0.00	_	0.11						
Asset-Backed	1.09	_	0.84	0					
Covered Bond	0.00	_	0.01	o i i					
Municipal	0.00	_	0.01						
Cash & Equivalents	2.46	_	5.34						
Other .	0.00	_	3.62						

**Top 10 Holdings** as of 09-30-2019 Name Maturity Date % Net Asset Cumulative % Fixed Income Sector ① BlackRock Liquidity T-Fund Instl 2.20 2.20 TransDigm, Inc. 6.25% 03-2026 1.92 4.12 Usd Cash(Committed) 1.50 5.62 ① Ally Financial Inc. 8% 11-2031 0.96 6.58 ⊖ iShares iBoxx \$ High Yield Corp Bd ETF 0.90 7.48 ① SPDR® Blmbg Barclays High Yield Bd ETF 0.81 8.29 ⊕ Infor (US), Inc. 6.5% 05-2022 0.69 8.98 Solera, LLC / Solera Finance, Inc. 10.5% 03-2024 0.66 9.64 Frontier Communications Corporation 8% 04-2027 0.57 10.21 Bombardier Inc. 7.88% 04-2027 0.56 10.77

Total Holdings 1287



## PIMCO Commodity Real Ret Strat Instl PCRIX

#### Morningstar Category Commodities Broad Basket

Morningstar Index

Bloomberg Commodity TR USD

#### Portfolio Manager(s)

Mihir Worah since 12-2007 Nicholas Johnson since 01-2015 Greg Sharenow since 11-2018 Stephen Rodosky since 01-2019

#### **Quantitative Screens**

Performance: The fund has finished in the Commodities Broad Basket category's top three quartiles in 8 of the 10 years it's been in existence.

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

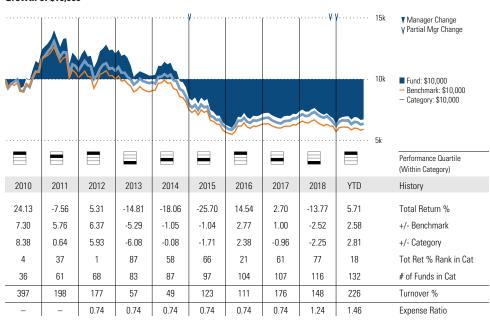
Style Consistency is not calculated for Fixed Income funds.

Net Expense: The fund's expense ratio of 1.46 is 24.79% higher than the Commodities Broad Basket category average.

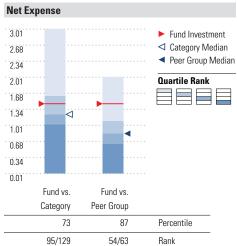
#### **Morningstar Investment Management LLC Analysis**

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

#### Growth of \$10,000







3-Year Risk Metrics			
	Fund	Bmark	Cat
Alpha	0.26	-	0.71
Beta	1.09	_	1.04
R-Squared	95.53	_	74.99
Standard Deviation	8.88	7.94	9.86
Sharpe Ratio	-0.30	-0.35	-0.27
Tracking Error	2.02	_	5.07
Information Ratio	0.03	_	-0.10
Up Capture Ratio	112.87	_	116.78
Down Capture Ratio	110.29	-	110.03

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	12.32	_	11.29
Price/Book Ratio	1.51	_	1.41
Geom Avg Mkt Cap \$B	20.09	_	23.90
ROE	16.78	-	20.51



## PIMCO Commodity Real Ret Strat Instl PCRIX

#### **Morningstar Category** Commodities Broad Basket

**Morningstar Index** 

Bloomberg Commodity TR USD

Cat%

3.15

1.88

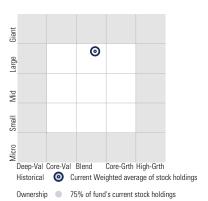
16.03

63.84

15.11

Style Analysis as of 09-30-2019

Morningstar Style Box™





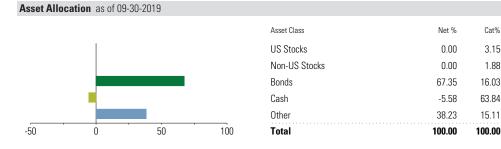
Equity

17	33	25	Large
8	8	8	Mid
0	0	0	Small

Value Blend Growth

Weight %

>50 25-50 10-25 0-10



Sec	ctor Weighting as of 09-	30-2019			
		Fund	Bmark	Cat	Fund • Benchmark [] Category Average
Դ	Cyclical	64.28	_	28.96	
A	Basic Materials	7.14	-	3.34	
A	Consumer Cyclical	7.14	_	12.66	
æ	Financial Services	14.29	_	12.96	
命	Real Estate	35.71	_	0.00	
W	Sensitive	28.57	-	40.16	
d	Communication Services	7.14	_	2.89	
•	Energy	0.00	_	6.65	
¢	Industrials	7.14	_	11.87	
	Technology	14.29	_	18.75	
<b>→</b>	Defensive	7.14	-	30.88	
Ħ	Consumer Defensive	7.14	_	4.47	
٠	Healthcare	0.00	_	19.01	
•	Utilities	0.00	_	7.40	
					0% 5 10 15 20 25 30 35 40 45 50 55 60 6

<b>Top 15 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Euro Schatz Sept19	28.32	28.32	_	_
☆ CashOffSet	24.76	53.08	_	_
Pimco Cayman Cmdty Fd Ltd Instl	23.48	76.57	_	_
⊕ Offset: Unsettled Trades	17.59	94.16	_	_
⊕ United States Treasury Notes 0.12%	17.53	111.69	-	_
⊕ Euro BUND Future Sept19	15.82	127.51	_	_
⊕ Federal National Mortgage Association 3.5%	11.84	139.35	_	_
⊕ Trs R 2.62/912828k33 Myc	7.83	147.19	_	_
⊕ Euro OAT Sept19	7.46	154.65	_	_
⊕ United States Treasury Bonds 2.38%	6.44	161.09	_	_
Irs Usd 2.25000 12/20/17-5y Cme	5.93	167.02	_	_
⊕ United States Treasury Notes 0.62%	5.89	172.92	_	_
Irs Usd 2.40000 03/16/21-5y Cme	5.88	178.79	_	_
⊕ Irs Usd 2.25000 12/20/17-5y Cme	5.83	184.62	-	_
⊕ Irs Usd 2.40000 03/16/21-5y Cme	5.72	190.34	_	_

**Total Holdings 949** 



### PIMCO Income Instl PIMIX

#### Portfolio Manager(s)

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

#### **Quantitative Screens**

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

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

Style Consistency is not calculated for Fixed Income funds.

Net Expense: The fund's expense ratio of 1.05 is 1.87% lower than the Multisector Bond category average.

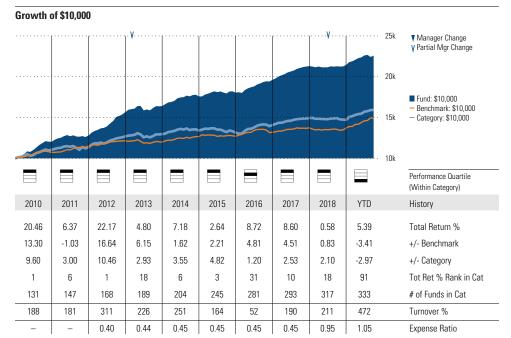
#### **Morningstar Investment Management LLC Analysis**

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.

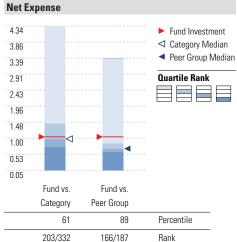
### Morningstar Category

Morningstar Index

Multisector Bond BBgBarc US Universal TR USD







3-Year KISK Welfics			
	Fund	Bmark	Cat
Alpha	4.52	_	2.50
Beta	0.21	_	0.50
R-Squared	11.12	_	32.11
Standard Deviation	1.90	3.09	3.00
Sharpe Ratio	1.84	0.54	0.93
Tracking Error	3.04	_	2.99
Information Ratio	0.67	_	0.31
Up Capture Ratio	76.06	_	82.75
Down Capture Ratio	-26.30	_	29.96

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



## PIMCO Income Insti PIMIX

Style Analysis as of 09-30-2019 Style Breakdown Fixed Income Quality High Mid Low Ltd Mod Ext Duration

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

#### **Morningstar Category** Multisector Bond BBgBarc US Universal TR USD Asset Allocation as of 09-30-2019 Asset Class Cat% Net % US Stocks 0.74 1.35 Non-US Stocks 0.11 0.40 Bonds 105.30 88.12 Cash -11.48 6.96 Other 5.33 3.17 -50 Ó 50 100 150 Total 100.00 100.00

Morningstar Index

Sector Weighting as of 09-	30-2019										
	Fund	Bmark	Cat	Fund	•	Benchmark	[] Cate	gory Averag	e		
Government	26.45	-	14.56								
Treasury	4.53	_	9.30								
Inflation - Protected	0.70	_	1.53								
Agency/Quasi Agency	0.16	_	0.89	1 []							
Other Government Related	21.06	_	2.84			•					
Corporate	8.05	-	29.04								
Corporate Bond	5.21	_	24.92						ĺ		
Bank Loan	1.32	_	2.09								
Convertible	1.51	_	1.64								
Preferred	0.01	_	0.39								
Securitized	25.81	-	30.54								
Agency MBS Pass-Through	11.44	_	8.18								
Agency MBS ARM	0.00	_	0.03								
Agency MBS CMO	0.66	_	5.18								
Non-Agency Residential MBS	3.85	_	5.43								
Commercial MBS	0.36	-	1.35	<b>I</b>							
Asset-Backed	9.49	_	10.32								
Covered Bond	0.01	_	0.05								
Municipal	0.05	_	0.79	[							
Cash & Equivalents	24.39	-	23.85								
Other	13.42	-	0.79								
				0%	5	10	15	20	25	30	35

<b>Top 10 Holdings</b> as of 09-30-2019				
Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ Irs Usd 3.00000 06/19/19-5y Cme	06-2024	14.34	14.34	_
Irs Jpy 0.45000 03/20/19-10y Lch	03-2029	14.26	28.60	_
⊕ Irs Jpy 0.45000 03/20/19-10y Lch	03-2029	13.67	42.26	_
⊕ Irs Usd 3.00000 06/19/19-5y Cme	06-2024	13.54	55.80	_
Irs Eur 0.00000 08/19/19-2y Lch	08-2021	13.10	68.90	_
⊕ Irs Eur 0.00000 08/19/19-2y Lch	08-2021	13.00	81.90	_
⊕ US 5 Year Note (CBT) Sept19	09-2019	9.56	91.46	_
Cirs Usd 4y Mat 3.85/2.00% M 7/2020 Dub	07-2022	7.92	99.38	_
Cirs Usd 4y Mat 3.82/2.00% M 7/2020 Glm	07-2022	7.92	107.30	_
Cirs Usd 4y Mat 3.82/2.00% M 6/2020 Myc	06-2022	7.91	115.21	_

Total Holdings 7621



### PIMCO International Bond (USD-Hdg) Instl PFORX

2.82

18

38

411

3.80

7

39

236

3.52

6

41

355

0.50

1.70

7

51

383

0.50

5.25

1

58

175

0.50

0.45

34

58

317

0.50

Morningstar Category World Bond-USD Hedged Morningstar Index

BBgBarc US Agg Bond TR USD

+/- Category

Turnover %

Expense Ratio

Tot Ret % Rank in Cat

# of Funds in Cat

#### Portfolio Manager(s)

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

#### **Quantitative Screens**

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

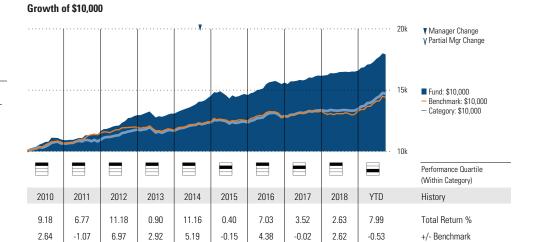
Management: The fund's management has been in place for 5.01 years.

Style Consistency is not calculated for Fixed Income funds.

Net Expense: The fund's expense ratio of 0.55 is 30.38% lower than the World Bond-USD Hedged category average.

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

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



2.90

1

62

313

0.50

-0.21

44

75

252

0.50

1.95

9

91

154

0.56

-1.27

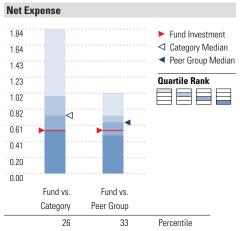
75

103

202

0.55





18/56 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

3-Year Risk Metrics			
	Fund	Bmark	Cat
Alpha	2.94	_	1.46
Beta	0.47	_	0.68
R-Squared	50.35	_	66.43
Standard Deviation	2.23	3.35	2.80
Sharpe Ratio	1.25	0.41	0.68
Tracking Error	2.36	_	2.04
Information Ratio	0.62	_	0.28
Up Capture Ratio	79.57	_	85.26
Down Capture Ratio	12.45	-	53.20

Portfolio Metrics			
	Fund	Bmark	Cat
Avg Eff Duration	8.07	4.43	_
Avg Eff Maturity	10.41	_	_



26/97

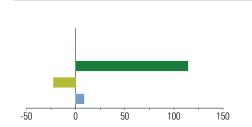
# PIMCO International Bond (USD-Hdg) Instl PFORX

Morningstar Category
World Bond-USD Hedged

Morningstar Index

BBgBarc US Agg Bond TR USD

Style	Style Analysis as of 09-30-2019					
Style I	Style Breakdown					
Fixed Ir	ncome		Quality			
			High			
			Mid			
			Low			
Ltd Duratio	Mod	Ext				



Asset Allocation as of 09-30-2019

Total	100.00	100.00
Other	8.42	_
Cash	-22.59	_
Bonds	114.14	_
Non-US Stocks	0.03	_
US Stocks	0.00	_
Asset Class	Net %	Cat%

Credit Rating Breakdown	Fund	Bmark	Cat
AAA	41.00	3.53	-
AA	24.00	74.59	-
A	8.00	10.82	-
BBB	20.00	8.32	-
BB	3.00	0.28	-
В	1.00	0.00	-
Below B	3.00	0.00	_
Not Rated	0.00	2.46	_

Sector Weighting as of 09-			_				. п.					
	Fund	Bmark	Cat	Fund	7	Benchma	ark [] (	Category	Average			
Government	38.88	-	-									
Treasury	8.73	-	_									
Inflation – Protected	1.63	_	-									
Agency/Quasi Agency	2.06	_	-									
Other Government Related	26.46	_	_									
Corporate	4.96	-	-									
Corporate Bond	4.02	_	_									
Bank Loan	0.16	-	_	İ								
Convertible	0.78	-	_									
Preferred	0.00	_	_	i								
Securitized	8.97	-	_									
Agency MBS Pass-Through	4.41	-	_									
Agency MBS ARM	0.00	-	_	į								
Agency MBS CMO	0.05	-	_	į								
Non-Agency Residential MBS	0.55	-	_									
Commercial MBS	0.04	-	_	į								
Asset-Backed	1.88	_	_									
Covered Bond	2.04	_	_									
Municipal	0.03	-	-	İ								
Cash & Equivalents	29.29	-	-									
Other	17.05	-	-									
				0%	5	10	15	20	25	30	35	40

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ Irs Usd R 3ml/1ml+9.125 03/18/21-22 Cme	03-2022	27.05	27.05	_
⊕ Irs Usd R 3ml/1ml+9.125 03/18/21-22 Cme	03-2022	27.05	54.10	_
☆ CashOffSet	_	22.54	76.64	_
⊝ Fin Fut Uk 90day Ice (Red) 09/16/20	09-2020	20.60	97.24	_
→ Fin Fut Uk 90day Ice (Wht) 09/18/19	09-2019	20.59	117.83	-
⊕ EUROPEAN MONETARY UNION EURO_Pay	08-2019	17.56	135.39	_
⊕ EUROPEAN MONETARY UNION EURO_Receive	08-2019	17.55	152.94	_
⊕ Offset: Unsettled Trades	_	16.01	168.95	_
Irs Eur 0.25000 09/18/19-5y Lch	09-2024	13.81	182.76	_
⊕ Irs Eur 0.25000 09/18/19-5y Lch	09-2024	13.49	196.25	_

Total Holdings 1621



### PIMCO Short-Term Instl PTSHX

### Morningstar Category Ultrashort Bond

-0.10

69

178

156

0.57

-0.21

63

202

104

0.50

+/- Category

Tot Ret % Rank in Cat

# of Funds in Cat

Turnover %

Expense Ratio

### Morningstar Index

BBgBarc US Agg Bond TR USD

#### Portfolio Manager(s)

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

#### **Quantitative Screens**

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

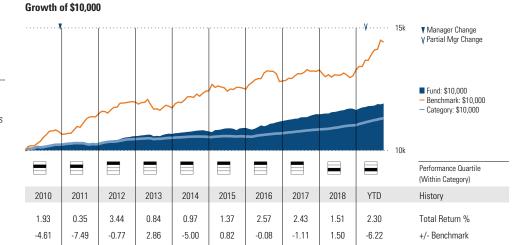
Management: The fund's management has been in place for 8.75 years.

Style Consistency is not calculated for Fixed Income funds.

✓ Net Expense: The fund's expense ratio of 0.5 is 8.7% higher 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.



1.16

6

141

1,753

0.45

0.99

8

163

324

0.45

0.63

6

120

252

0.45

1.20

1

134

283

0.45

0.35

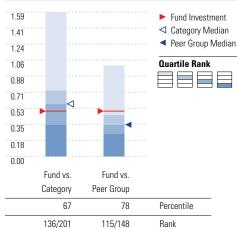
17

107

180

0.45





0.10

41

71

182

1.45

12

89

307

0.45

-0.34

40

65

446

	Fund	Bmark	Cat
Alpha	2.67	_	1.78
Beta	-0.11	-	0.04
R-Squared	26.76	_	22.18
Standard Deviation	0.70	3.35	0.43
Sharpe Ratio	0.99	0.41	0.72
Tracking Error	3.76	_	3.22
Information Ratio	-0.15	_	-0.31
Up Capture Ratio	16.15	_	22.90
Down Capture Ratio	-47.08	_	-18.90

Portfolio Metrics					
	Fund	Bmark	Cat		
Avg Eff Duration	0.46	4.43	0.95		
Avg Fff Maturity	1.20	_	1.94		



## PIMCO Short-Term Instl PTSHX

<b>Style Analysis</b>	as of 09-30-2019				
Style Breakdown					
Fixed Income	Quality				
	High				
	Mid				
	Low				
Ltd Mod Ext Duration					

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

#### Ultrashort Bond BBgBarc US Agg Bond TR USD Asset Allocation as of 09-30-2019 Asset Class Net % Cat% US Stocks 0.00 0.01 Non-US Stocks 0.00 0.00 Bonds 175.91 77.26 Cash -93.73 21.04 Other 17.82 1.69 -100 -50 50 100 150 200 Total 100.00 100.00

**Morningstar Category** 

Morningstar Index

Sector Weighting as of 09-	30-2019								
	Fund	Bmark	Cat	Fund • Be	enchmark	Category	/ Average		
Government	45.76	_	12.88						
Treasury	0.00	_	2.92						
Inflation – Protected	0.14	_	0.18	0					
Agency/Quasi Agency	0.37	_	1.82	10					
Other Government Related	45.25	_	7.96						
Corporate	12.86	-	37.18						
Corporate Bond	12.12	_	35.88						
Bank Loan	0.25	_	0.22						
Convertible	0.49	_	1.08						
Preferred	0.00	_	0.00						
Securitized	5.49	-	23.25						
Agency MBS Pass-Through	1.12	_	0.84	•0					
Agency MBS ARM	0.01	_	0.50						
Agency MBS CM0	0.28	_	0.82	10					
Non-Agency Residential MBS	0.55	_	0.71						
Commercial MBS	0.71	_	3.94						
Asset-Backed	2.82	_	16.34						
Covered Bond	0.00	_	0.10						
Municipal	0.09	_	1.41	10					
Cash & Equivalents	33.74	_	24.61						
Other	1.87	_	0.58	() <b>=</b>					
				0% 5 10	15	20 25	30 31	5 40	/5

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
Ois Usd FedI01/2.336 12/18/19 Lch	03-2020	93.79	93.79	_
⊕ Ois Usd FedI01/2.336 12/18/19 Lch	03-2020	93.62	187.41	_
⊕ 90 Day Eurodollar Future June20	06-2020	65.13	252.54	_
⊕ Irs Usd R 3ml/1ml+12.5 06/21/19-20 Cme	06-2020	59.55	312.10	_
⊕ Irs Usd R 3ml/1ml+12.5 06/21/19-20 Cme	06-2020	59.55	371.64	-
	03-2020	50.07	421.71	_
⊕ Ois Usd FedI01/2.5 03/01/19 Lch	03-2020	49.87	471.58	_
→ Ois Usd FedI01/2.3 03/01/19 Lch	03-2022	37.12	508.69	_
⊕ Ois Usd FedI01/2.3 03/01/19 Lch	03-2022	36.36	545.05	_
⊕ Fin Fut Euribor Ice (Grn) 03/14/22	03-2022	31.99	577.05	_

Total Holdings 1487



## Vanguard 500 Index Admiral VFIAX

#### **Morningstar Category** Large Blend

Morningstar Index S&P 500 TR USD

#### Portfolio Manager(s)

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

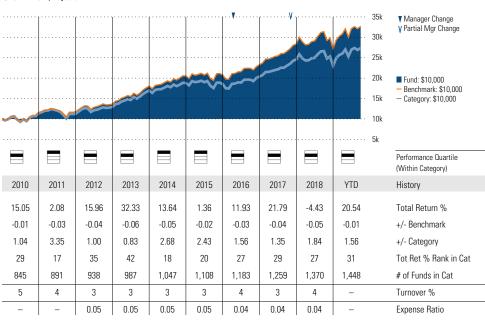
#### **Quantitative Screens**

- Performance: The fund has finished in the Large Blend category's top three quartiles in 10 of the 10 years it's been in existence.
- Management: The fund's management has been in place for 3.43 years.
- Style: The fund has landed in its primary style box Large Blend — 100 % of the time over the past three years.
- Net Expense: The fund's expense ratio of 0.04 is 95.6% lower than the Large Blend category average.

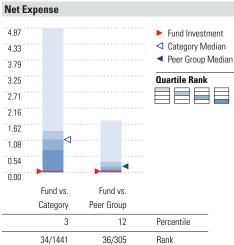
#### **Morningstar Investment Management LLC Analysis**

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

# Growth of \$10,000







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

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

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



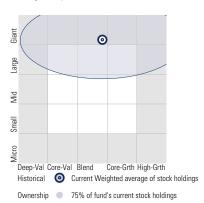
# Vanguard 500 Index Admiral VFIAX

#### **Morningstar Category** Large Blend

Morningstar Index S&P 500 TR USD

Style Analysis as of 09-30-2019

Morningstar Style Box™



#### Style Breakdown

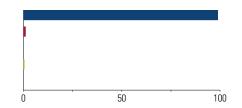
Equity

28	31	31	raige
4	4	2	2
0	0	0	ollali
Value	Blend	Growth	

Weight %

>50 25-50 10-25 0-10

#### Asset Allocation as of 09-30-2019



Asset Class	Net %	Cat%
US Stocks	98.74	94.56
Non-US Stocks	0.99	2.95
Bonds	0.00	0.37
Cash	0.27	0.92
Other	0.00	1.18
Total	100.00	100.00

Sec	ctor Weighting as of 09-3	30-2019												
		Fund	Bmark	Cat	Fund		▼ Bench	ımark	] Cateo	gory Ave	erage	_		
Դ	Cyclical	33.07	33.06	34.49										
A	Basic Materials	2.41	2.40	2.73										
A	Consumer Cyclical	11.77	11.76	11.95				1						
Ę.	Financial Services	15.67	15.68	16.57										
ŵ	Real Estate	3.22	3.22	3.24										
W	Sensitive	41.68	41.65	40.62										
	Communication Services	3.41	3.41	2.85										
•	Energy	4.52	4.52	4.44			_							
₽	Industrials	10.40	10.39	11.24										
	Technology	23.35	23.33	22.09										
<b>—</b>	Defensive	25.25	25.28	24.88										
Ħ	Consumer Defensive	8.12	8.12	8.21			<b>=</b> [	_ :						
+	Healthcare	13.54	13.57	13.79				<b>-</b>						
•	Utilities	3.59	3.59	2.88		ľ								
					0%	5	10	15	20	25	30	35	40	45

<b>Top 15 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
	4.29	4.29	38.24	Technology
Apple Inc	3.84	8.13	43.43	Technology
⊕ Amazon.com Inc	2.91	11.04	15.58	Consumer Cyclical
⊕ Facebook Inc A	1.73	12.77	35.85	Technology
⊕ Berkshire Hathaway Inc B	1.60	14.37	1.88	Financial Services
∋ JPMorgan Chase & Co	1.52	15.89	23.02	Financial Services
⇒ Alphabet Inc Class C	1.49	17.38	17.71	Technology
⇒ Alphabet Inc A	1.47	18.85	16.86	Technology
∃ Johnson & Johnson	1.38	20.23	2.43	Healthcare
⊕ Procter & Gamble Co	1.26	21.49	37.72	Consumer Defensive
⊕ Exxon Mobil Corp	1.21	22.70	7.30	Energy
	1.20	23.90	30.94	Financial Services
⊕ AT&T Inc	1.12	25.01	37.95	Communication Svc
The Home Depot Inc     The Home Depo	1.03	26.04	37.41	Consumer Cyclical
Verizon Communications Inc	1.01	27.05	10.58	Communication Svc

Total Holdings 516



### Vanguard Inflation-Protected Secs Adm VAIPX

Morningstar Category Inflation-Protected Bond Morningstar Index

BBgBarc US Treasury US TIPS TR USD

Expense Ratio

#### Portfolio Manager(s)

Gemma Wright-Casparius since 08-2011

#### **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 8.12 years.

Style Consistency is not calculated for Fixed Income funds.

Net Expense: The fund's expense ratio of 0.1 is 86.67% 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.

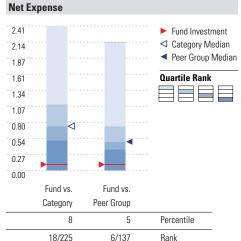
#### Growth of \$10,000 ▼ Manager Change V Partial Mgr Change Fund: \$10,000 - Benchmark: \$10,000 - Category: \$10,000 Performance Quartile (Within Category) 2010 2011 2012 2013 2014 2015 2016 2017 2018 YTD History 6.31 13.29 6.90 -8.86 3.97 -1.69 4.62 2.91 -1.39 7.56 Total Return % -0.27 -0.25 0.00 -0.08 -0.25 0.33 -0.06 -0.10 -0.13 -0.02 +/- Benchmark 0.37 2.17 0.25 2.36 0.45 -1.01 0.67 0.03 0.19 0.56 +/- Category 29 8 23 54 5 32 40 39 47 31 Tot Ret % Rank in Cat 108 131 140 154 160 198 213 # of Funds in Cat 167 189 226 29 28 33 44 39 43 27 22 27 Turnover %



0.10

0.10

0.10



0.10

0.10

0.10

0.10

o rour mon montos			
	Fund	Bmark	Cat
Alpha	-0.14	_	0.08
Beta	0.99	_	0.76
R-Squared	99.01	_	82.74
Standard Deviation	3.27	3.28	2.86
Sharpe Ratio	0.15	0.20	0.04
Tracking Error	0.33	_	1.46
Information Ratio	-0.52	_	-0.63
Up Capture Ratio	97.81	_	76.67
Down Capture Ratio	101.22	_	74.77

Portfolio Metrics			
	Fund	Bmark	Cat
Avg Eff Duration	7.93	4.52	7.65
Avg Eff Maturity	8.70	_	8.87

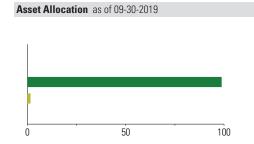


# Vanguard Inflation-Protected Secs Adm VAIPX

Morningstar Category Inflation-Protected Bond Morningstar Index

BBgBarc US Treasury US TIPS TR USD





Total	100.00	100.00
Other	0.00	0.21
Cash	1.35	1.81
Bonds	98.65	97.96
Non-US Stocks	0.00	0.01
US Stocks	0.00	0.01
Asset Class	Net %	Cat%

Credit Rating Breakdown	Fund	Bmark	Cat
AAA	100.00	0.00	84.12
AA	0.00	99.60	10.37
A	0.00	0.00	0.00
BBB	0.00	0.00	5.26
BB	0.00	0.00	0.00
В	0.00	0.00	0.00
Below B	0.00	0.00	0.00
Not Rated	0.00	0.40	0.25

Sector Weighting as of 09-3	30-2019															
	Fund	Bmark	Cat	Fund	•	Ben	chm	ark	[] (	Cate	gory	Ave	rage	)		
Government	98.65	_	85.03													į
Treasury	0.58	_	1.16	0												
Inflation – Protected	98.07	-	79.44											÷		
Agency/Quasi Agency	0.00	_	0.12	0												
Other Government Related	0.00	_	4.31	10												
Corporate	0.00	-	2.33	10												
Corporate Bond	0.00	_	2.21	10												
Bank Loan	0.00	_	0.07													
Convertible	0.00	_	0.05	0												
Preferred	0.00	_	0.00	i i												
Securitized	0.00	-	5.55													
Agency MBS Pass-Through	0.00	_	2.21	10												
Agency MBS ARM	0.00	_	0.00	0 1												
Agency MBS CMO	0.00	_	0.92	0												
Non-Agency Residential MBS	0.00	_	0.28													
Commercial MBS	0.00	_	0.20													
Asset-Backed	0.00	_	1.73	1[]												
Covered Bond	0.00	_	0.21													
Municipal	0.00	_	0.00													
Cash & Equivalents	1.35	-	5.44	II [												
Other	0.00	_	1.60	10												

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

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
United States Treasury Notes 0.12%	04-2022	3.90	3.90	_
United States Treasury Notes 0.12%	01-2023	3.61	7.52	_
─ United States Treasury Notes 0.62%	01-2024	3.60	11.12	_
─ United States Treasury Notes 0.62%	04-2023	3.59	14.71	_
─ United States Treasury Notes 0.38%	07-2025	3.55	18.26	_
	07-2023	3.50	21.76	_
─ United States Treasury Notes 0.25%	01-2025	3.50	25.25	_
United States Treasury Notes 0.12%	01-2022	3.48	28.74	_
─ United States Treasury Notes 0.12%	07-2024	3.41	32.15	_
─ United States Treasury Notes 0.62%	01-2026	3.20	35.35	_

Total Holdings 43



## Vanguard International Growth Adm VWILX

**Morningstar Category** Foreign Large Growth

Morningstar Index MSCI EAFE NR USD

#### Portfolio Manager(s)

James Anderson since 02-2003 Simon Webber since 12-2009 Thomas Coutts since 12-2016

#### **Quantitative Screens**

Performance: The fund has finished in the Foreign 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 16.66 years.

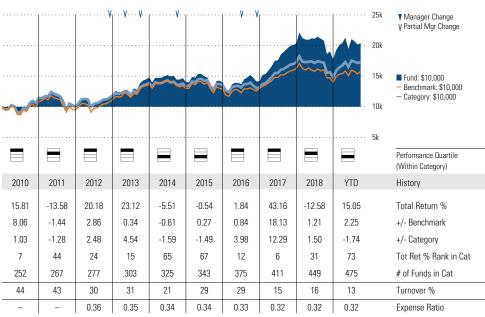
Style: The fund has landed in its primary style box — Large Growth — 100 % of the time over the past three years.

Net Expense: The fund's expense ratio of 0.32 is 71.68% lower than the Foreign Large Growth category average.

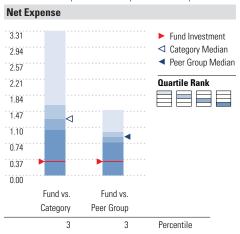
#### **Morningstar Investment Management LLC Analysis**

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

# Growth of \$10,000







15/474	8/297	Rank	
Peer group is a subset of t	he category an	d includes funds wit	h the
same management style (a	active vs. passi	ve) and similar share	class
characteristics			

3-Year KISK Wietrics			
	Fund	Bmark	Cat
Alpha	2.24	_	0.58
Beta	1.28	_	1.03
R-Squared	83.31	_	-
Standard Deviation	15.50	11.07	12.56
Sharpe Ratio	0.61	0.48	0.46
Tracking Error	7.04	-	5.20
Information Ratio	0.55	-	0.11
Up Capture Ratio	121.09	-	98.91
Down Capture Ratio	103.07	-	93.55

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	21.77	15.97	22.11
Price/Book Ratio	3.09	1.56	3.08
Geom Avg Mkt Cap \$B	57.12	35.74	39.99
ROE	17.97	16.29	20.08



# Vanguard International Growth Adm VWILX

Morningstar Index **Morningstar Category** Foreign Large Growth MSCI EAFE NR USD

Style Analysis as of 09-30-2019

Morningstar Style Box™



#### Style Breakdown

Equity

13	22	54	Large
1	1	8	Mid
0	0	0	Small

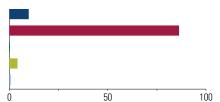
Value Blend Growth

Weight %

>50 25-50 10-25 0-10



Asset Allocation as of 09-30-2019



Total	100.00	100.00
Other	0.38	0.27
Cash	3.83	3.31
Bonds	0.03	0.04
Non-US Stocks	86.13	88.19
US Stocks	9.63	8.20
Asset Class	Net %	Cat%

- 50	ctor Weighting as of 09-3								п -						
		Fund	Bmark	Cat	Fun	t	▼ Ben	chmark	Ca    Ca	ategory	Avera	ge			
<sub>Մ</sub>	Cyclical	45.29	41.16	35.91											
A	Basic Materials	2.64	7.55	5.71			٠.								
<b>A</b>	Consumer Cyclical	28.38	11.47	13.00			• '								
<del>,</del>	Financial Services	14.27	18.49	16.23					1						
<b>fi</b>	Real Estate	0.00	3.65	0.97	[	1									
W	Sensitive	34.65	31.34	36.38		7									
┫	Communication Services	1.28	3.97	1.25		1									
	Energy	1.45	5.38	2.50	_			_ :							
Ф	Industrials	10.70	13.77	13.97			7								
	Technology	21.22	8.22	18.66			•				_ :				
<b>→</b>	Defensive	20.06	27.50	27.70											
	Consumer Defensive	9.38	12.02	13.45											
٠	Healthcare	10.68	11.82	13.10											
•	Utilities	0.00	3.66	1.15	10	•									
					0%	5	10	15	20	25	30	35	40	45	E

#### World Regions % Equity 09-30-2019



Greater Asia	Fund % 39.38	Cat % 30.83	
Japan	10.92	13.01	
Australasia	0.42	2.16	
Asia-4 Tigers	7.72	6.39	
Asia-ex 4 Tigers	20.32	9.27	
Not Classified	0.00	0.00	

Americas	Fund % 14.03	Cat % 15.21	Greater Europe	Fund % 46.60	Cat % 53.95	Market Maturity	Fund %
North America	10.71	13.02	United Kingdom	8.06	12.58	Developed Markets	76.19
Central/Latin	3.32	2.19	W euro-ex UK	38.36	40.14	Emerging Markets	23.81
			Emrgng Europe Africa	0.18 0.00	0.38 0.85	Not Available	0.00

<b>Top 10 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
	4.91	4.91	10.82	Technology
	4.68	9.60	22.00	Consumer Cyclical
⊕ ASML Holding NV	4.28	13.88	68.63	Technology
	3.77	17.64	_	_
	3.51	21.16	15.93	Financial Services
Amazon.com Inc	3.35	24.50	15.58	Consumer Cyclical
Illumina Inc	2.66	27.16	1.43	Healthcare
MercadoLibre Inc	2.54	29.70	88.23	Consumer Cyclical
Kering SA	2.13	31.84	21.32	Consumer Cyclical
Ferrari NV	2.03	33.87	65.23	Consumer Cyclical

**Total Holdings** 132



## Vanguard International Value Inv VTRIX

#### Morningstar Category Foreign Large Value

Morningstar Index MSCI EAFE NR USD

#### Portfolio Manager(s)

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

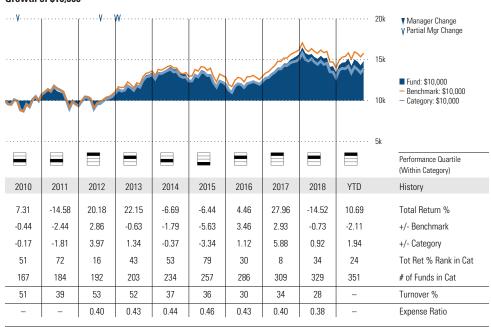
#### **Quantitative Screens**

- Performance: The fund has finished in the Foreign Large Value category's top three quartiles in 9 of the 10 years it's been in existence.
- Management: The fund's management has been in place for 11.38 years.
- × Style: The fund has landed in its primary style box Large Value — 9.09 % of the time over the past three years.
- Net Expense: The fund's expense ratio of 0.38 is 64.81% lower than the Foreign Large Value category average.

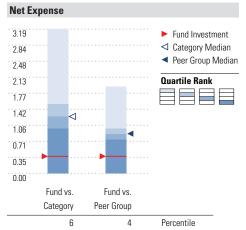
#### **Morningstar Investment Management LLC Analysis**

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

#### Growth of \$10,000







	21/348	7/197	Rank	
Peer gro	up is a subset of	the category an	d includes fun	ds with the
same ma	anagement style (	active vs. passi	ve) and simila	r share class
characte	rictice			

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

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

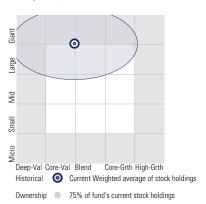


# Vanguard International Value Inv VTRIX

## Morningstar CategoryMorningstar IndexForeign Large ValueMSCI EAFE NR USD

### Style Analysis as of 09-30-2019

Morningstar Style Box™



#### Style Breakdown

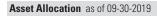
Equity

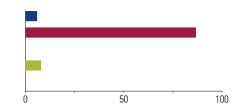
39	30	20	Large
6	4	1	Mid
0	0	0	Small

Value Blend Growth

#### Weight %

>50 25-50 10-25 0-10





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

Sec	ctor Weighting as of 09-	30-2019			
		Fund	Bmark	Cat	Fund Benchmark Category Average
<u></u>	Cyclical	35.81	41.16	46.75	
A	Basic Materials	2.43	7.55	9.46	
A	Consumer Cyclical	8.60	11.47	11.41	
<del>,</del>	Financial Services	23.59	18.49	23.82	
命	Real Estate	1.19	3.65	2.06	· ·
W	Sensitive	43.60	31.34	33.52	
	Communication Services	6.84	3.97	6.04	
•	Energy	7.46	5.38	8.87	
Ф	Industrials	11.41	13.77	12.07	
	Technology	17.89	8.22	6.54	
<b>-</b>	Defensive	20.60	27.50	19.73	<b>1</b>
Ħ	Consumer Defensive	5.50	12.02	7.17	
+	Healthcare	12.68	11.82	9.25	
	Utilities	2.42	3.66	3.31	
					0% 5 10 15 20 25 30 35 40 45 50

#### World Regions % Equity 09-30-2019



Greater Asia	Fund % 35.20	Cat % 32.27
Japan	16.46	17.75
Australasia	0.86	3.48
Asia-4 Tigers	9.61	7.05
Asia-ex 4 Tigers	8.27	3.99
Not Classified	0.00	0.00

Americas	Fund % 8.73	Cat % 7.72	Greater Europe	Fund % 56.06	Cat % 60.03	Market Maturity	Fund %
North America	7.20	6.97	United Kingdom	15.42	20.15	Developed Markets	88.27
Central/Latin	1.53	0.75	W euro-ex UK	38.72	38.72	Emerging Markets	11.73
			Emrgng Europe	0.46	0.64	Not Available	0.00
			Africa	1.46	0.52		

<b>Top 10 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Vanguard Market Liquidity Inv	7.56	7.56	_	_
⊕ Novartis AG	2.35	9.91	11.61	Healthcare
⊕ Royal Dutch Shell PLC Class A	2.20	12.10	3.81	Energy
⊕ Sanofi SA	2.17	14.27	17.56	Healthcare
Roche Holding AG Dividend Right Cert.	1.74	16.01	22.90	Healthcare
⊕ Samsung Electronics Co Ltd	1.64	17.65	_	Technology
⊕ DBS Group Holdings Ltd	1.50	19.15	15.05	Financial Services
⊕ SAP SE	1.41	20.55	25.06	Technology
⊕ Sumitomo Mitsui Financial Group Inc	1.36	21.91	8.84	Financial Services
AstraZeneca PLC	1.32	23.23	32.30	Healthcare

#### Total Holdings 152

 $\oplus$  Increase  $\ominus$  Decrease  $\ref{eq:property}$  New to Portfolio



### Vanguard Mid-Cap Growth Index Admiral VMGMX

Morningstar Category

Mid-Cap Growth

Morningstar Index

Russell Mid Cap Growth TR USD

#### Portfolio Manager(s)

Donald Butler since 02-2013 Michael Johnson since 04-2016

#### **Quantitative Screens**

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

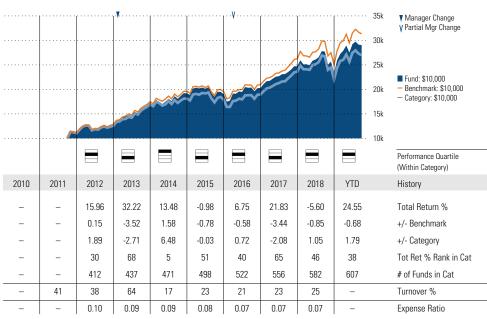
Management: The fund's management has been in place for 6.61 years.

Net Expense: The fund's expense ratio of 0.07 is 93.91% lower than the Mid-Cap Growth category average.

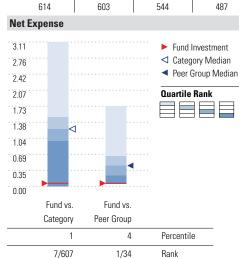
#### **Morningstar Investment Management LLC Analysis**

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









3-Year Risk Metrics			
	Fund	Bmark	Cat
Alpha	-0.87	_	-0.54
Beta	0.93	_	0.99
R-Squared	98.27	_	90.62
Standard Deviation	13.54	14.38	15.09
Sharpe Ratio	0.83	0.91	0.83
Tracking Error	2.02	_	4.64
Information Ratio	-0.96	_	-0.30
Up Capture Ratio	90.33	_	97.41
Down Capture Ratio	93.94	_	100.52

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	29.92	25.90	30.85
Price/Book Ratio	4.45	6.19	4.91
Geom Avg Mkt Cap \$B	17.41	15.25	13.31
ROE	16.03	24.20	16.48



# Vanguard Mid-Cap Growth Index Admiral VMGMX

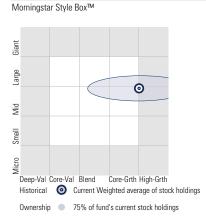
Morningstar Category

Mid-Cap Growth

Morningstar Index

Growth Russell Mid Cap Growth TR USD

Style Analysis as of 09-30-2019



### Style Breakdown

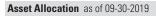
Equity

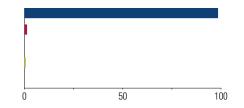
0	10	31	Large
2	20	36	Mid
0	0	0	Small

Value Blend Growth

Weight %

>50 25-50 10-25 0-10





Total	100.00	100.00
Other	0.00	0.30
Cash	0.48	2.95
Bonds	0.00	0.03
Non-US Stocks	1.16	4.06
US Stocks	98.35	92.66
Asset Class	Net %	Cat%

Sec	ctor Weighting as of 09-3	30-2019														
		Fund	Bmark	Cat	Fun	d	▼ Be	nchma	rk [	Cate	ory Av	erage				
<u></u>	Cyclical	31.90	27.23	32.68												
A	Basic Materials	3.24	1.97	2.95												
A	Consumer Cyclical	10.73	17.18	15.59												
<b>F</b>	Financial Services	5.51	4.42	8.89												
<b>fi</b>	Real Estate	12.42	3.66	5.25												
W	Sensitive	50.96	54.12	46.82												
	Communication Services	0.97	0.78	0.73												
ð	Energy	5.34	1.27	1.50												
Ф	Industrials	16.39	20.81	16.20												
	Technology	28.26	31.26	28.39												
<b>—</b>	Defensive	17.14	18.64	20.51												
Ħ	Consumer Defensive	3.92	5.74	3.83												
+	Healthcare	12.99	12.90	15.96												
•	Utilities	0.23	0.00	0.72	Ĭ[]											
					0%	5	10	15	20	25	30	35	40	45	50	55

N	0/ 11 : 1	0 1 1 6	\/TD D	M :
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Advanced Micro Devices Inc	1.51	1.51	57.04	Technology
⊕ ONEOK Inc	1.46	2.97	41.44	Energy
Twitter Inc     Twitt	1.45	4.42	43.35	Technology
⊕ Amphenol Corp Class A	1.38	5.80	19.98	Technology
⊕ SBA Communications Corp	1.31	7.10	49.19	Real Estate
⊕ Dollar Tree Inc	1.30	8.40	26.40	Consumer Defensive
⊕ Digital Realty Trust Inc	1.30	9.70	24.87	Real Estate
⊕ TransDigm Group Inc	1.26	10.96	61.93	Industrials
⊕ IQVIA Holdings Inc	1.26	12.23	28.59	Healthcare
⊕ IHS Markit Ltd	1.22	13.45	39.42	Industrials
	1.19	14.64	54.42	Technology
∀ Verisk Analytics Inc	1.18	15.82	45.72	Industrials
⊕ Realty Income Corp	1.17	16.99	24.87	Real Estate
	1.16	18.15	24.55	Industrials
	1.16	19.31	13.89	Technology

**Total Holdings** 175



### Vanguard Mid-Cap Value Index Admiral VMVAX

**Morningstar Category** Mid-Cap Value

Morningstar Index Russell Mid Cap Value TR USD

#### Portfolio Manager(s)

Donald Butler since 08-2006 Michael Johnson since 04-2016

#### Quantitative Screens

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

Management: The fund's management has been in place for 13.13 years.

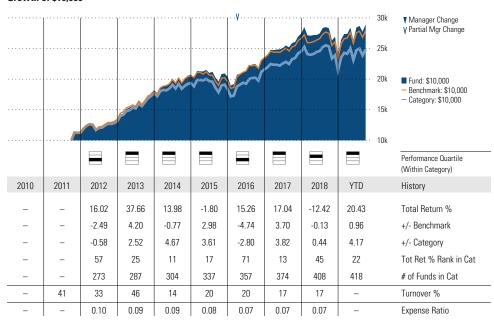
Style: The fund has landed in its primary style box — Mid-Cap Value — 100 % of the time over the past three

Net Expense: The fund's expense ratio of 0.07 is 93.33% lower than the Mid-Cap Value category average.

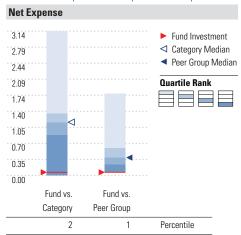
#### **Morningstar Investment Management LLC Analysis**

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

#### Growth of \$10,000







0/32Peer group is a subset of the category and includes funds with the same management style (active vs. passive) and similar share class characteristics.

Rank

3-Year KISK Wetrics			
	Fund	Bmark	Cat
Alpha	0.84	_	-1.01
Beta	1.02	_	1.07
R-Squared	98.20	_	94.09
Standard Deviation	13.75	13.39	14.85
Sharpe Ratio	0.57	0.51	0.44
Tracking Error	1.86	-	3.91
Information Ratio	0.55	-	-0.12
Up Capture Ratio	102.39	-	102.14
Down Capture Ratio	96.74	-	107.54

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	16.13	17.21	16.39
Price/Book Ratio	1.93	1.87	1.78
Geom Avg Mkt Cap \$B	14.39	12.50	10.74
ROE	14.82	11.14	12.18



6/419

# Vanguard Mid-Cap Value Index Admiral VMVAX

Morningstar Category

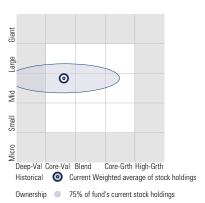
Mid-Cap Value

Morningstar Index

Russell Mid Cap Value TR USD

### Style Analysis as of 09-30-2019

Morningstar Style Box™



#### Style Breakdown

Equity

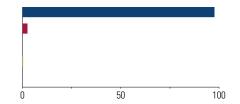
8	10	4	Large
43	31	4	Mid
0	0	0	Small

Value Blend Growth

Weight %

>50 25-50 10-25 0-10





Total	100.00	100.00
Other	0.00	0.17
Cash	0.16	2.64
Bonds	0.00	0.04
Non-US Stocks	2.38	4.52
US Stocks	97.46	92.63
Asset Class	Net %	Cat%

		Fund	Bmark	Cat	Fund	ł	▼ Be	nchma	ark [	Cate	gory Av	/erage		_
b	Cyclical	51.08	51.45	48.75										
	Basic Materials	5.91	5.67	5.48										
-	Consumer Cyclical	18.78	11.82	13.99										
<u></u>	Financial Services	19.31	18.21	21.04					<u> </u>					
b	Real Estate	7.08	15.75	8.24				*						
NF	Sensitive	23.61	25.16	30.89						_ '				
	Communication Services	1.86	1.04	0.72	0									
•	Energy	3.26	5.67	5.69		Ö	1							
Þ	Industrials	7.53	9.89	14.19				0						
1	Technology	10.96	8.56	10.29										
+	Defensive	25.30	23.39	20.35										
Ę	Consumer Defensive	4.83	5.14	5.85		<b>=</b> []								
ì	Healthcare	6.52	6.62	7.31										
2	Utilities	13.95	11.63	7.19			: 1							

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Newmont Goldcorp Corp	1.47	1.47	13.19	Basic Materials
⊕ WEC Energy Group Inc	1.42	2.90	39.86	Utilities
Motorola Solutions Inc	1.34	4.23	49.62	Technology
⊕ Eversource Energy	1.31	5.54	33.88	Utilities
⊕ FirstEnergy Corp	1.22	6.76	31.48	Utilities
⊕ Willis Towers Watson PLC	1.18	7.94	28.36	Financial Services
⊕ DTE Energy Co	1.16	9.10	23.11	Utilities
⊕ Entergy Corp	1.11	10.20	39.53	Utilities
⊕ American Water Works Co Inc	1.06	11.27	38.47	Utilities
⊕ The Hartford Financial Services Group Inc	1.04	12.31	38.38	Financial Services
⊕ Ameren Corp	0.96	13.27	24.90	Utilities
→ M&T Bank Corp	0.95	14.22	12.46	Financial Services
⇒ Clorox Co	0.91	15.12	0.46	Consumer Defensive
⇒ D.R. Horton Inc	0.88	16.00	53.38	Consumer Cyclical
⊕ Keysight Technologies Inc	0.86	16.87	56.65	Technology

Total Holdings 203



# 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**

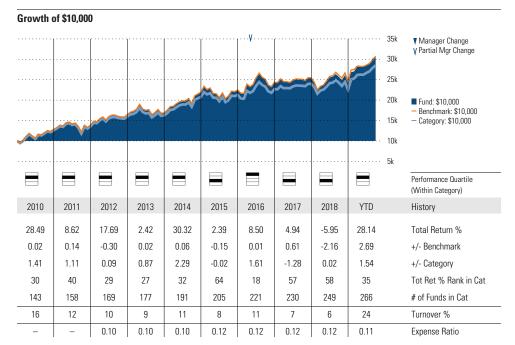
❷ Performance: The fund has finished in the Real Estate category's top three quartiles in 10 of the 10 years it's been in existence.

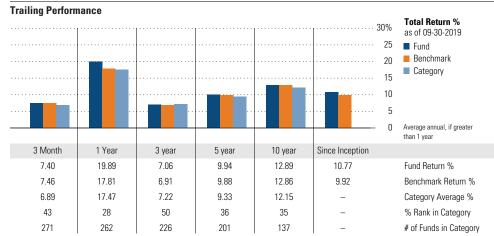
Management: The fund's management has been in place for 23.4 years.

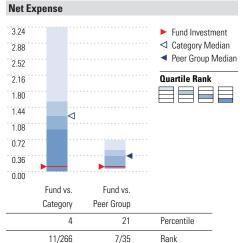
Net Expense: The fund's expense ratio of 0.11 is 90.35% lower than the Real Estate category average.

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

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







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

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



# Vanguard Real Estate Index Admiral VGSLX

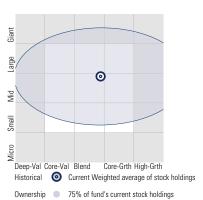
Morningstar CategoryMoReal EstateS&

Morningstar Index

S&P United States REIT TR USD

Style Analysis as of 09-30-2019

Morningstar Style Box™



### Style Breakdown

Equity

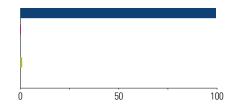
6	24	19	Laige
9	25	6	MIN
4	5	2	ollidii

Value Blend Growth

Weight %

>50 25-50 10-25 0-10





Total	100.00	100.00
Other	0.00	8.34
Cash	0.71	1.64
Bonds	0.00	3.04
Non-US Stocks	0.04	0.58
US Stocks	99.24	86.42
Asset Class	Net %	Cat%

	Fund	Bmark	Cat	Fund	<ul> <li>Benchmark</li> </ul>	Category Average
Cyclical	99.97	99.13	99.19			
Basic Materials	0.29	0.00	0.13	Ó		
Consumer Cyclical	0.00	0.13	0.68	Ō i i		
Financial Services	0.01	0.00	0.09	ĺ		
Real Estate	99.67	99.00	98.29	_		
✓ Sensitive	0.03	0.87	0.72	ĺ.		
Communication Services	0.00	0.00	0.00	Ó		
<b>Energy</b>	0.00	0.00	0.02	<u> </u>		
Industrials	0.03	0.87	0.06	0		
Technology	0.00	0.00	0.64	i i		
→ Defensive	0.00	0.00	0.10	ĺ		
Consumer Defensive	0.00	0.00	0.00	ĺ		
Healthcare	0.00	0.00	0.05	ĺ		
Utilities	0.00	0.00	0.05			

**Top 15 Holdings** as of 09-30-2019 % Net Asset Cumulative % YTD Return % Name Morningstar Sector Yanguard Real Estate II Index 11.09 11.09 American Tower Corp 6.83 17.92 41.54 Real Estate ① Crown Castle International Corp 4.04 21.96 31.07 Real Estate Prologis Inc 3.76 25.72 47.84 Real Estate ① Equinix Inc 29.11 65.70 Real Estate 3.39 ① Simon Property Group Inc 3.36 32.47 -3.65 Real Estate Public Storage 2.69 35.16 24.14 Real Estate 37.73 Welltower Inc 2.57 34.36 Real Estate Equity Residential 2.23 39.96 33.26 Real Estate AvalonBay Communities Inc 2.10 42.06 26.34 Real Estate SBA Communications Corp 1.91 43.97 49.19 Real Estate Digital Realty Trust Inc 1.85 45.81 24.87 Real Estate Ventas Inc 1.83 47.64 28.70 Real Estate Realty Income Corp 1.70 49.34 24.87 Real Estate ⊕ Essex Property Trust Inc 1.50 50.84 35.60 Real Estate

**Total Holdings 185** 



# Vanguard Small Cap Growth Index Admiral VSGAX

Morningstar Category

Small Growth

Morningstar Index

Russell 2000 Growth TR USD

# Portfolio Manager(s)

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

### **Quantitative Screens**

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

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

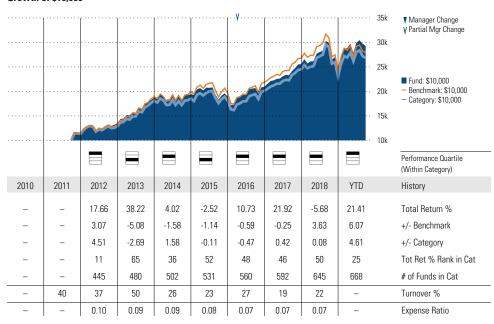
 $\times$  *Style:* The fund has landed in its primary style box — Small Growth — 45.71 % of the time over the past three years

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

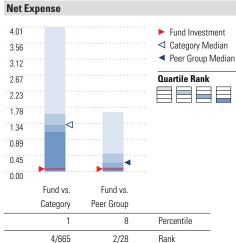
### **Morningstar Investment Management LLC Analysis**

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

# Growth of \$10,000







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

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



# Vanguard Small Cap Growth Index Admiral VSGAX

Morningstar Category

Small Growth

Morningstar Index

Russell 2000 Growth TR USD

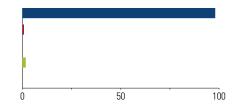
# Style Analysis as of 09-30-2019

Morningstar Style Box™



# Asset Allocation as of 09-30-2019

Sector Weighting as of 09-30-2019



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

			Fund	Bmark	Cat	Fund	•	Bench	mark	Categ	ory Ave	rage			
dings	Դ	Cyclical	32.86	27.99	29.36										
	A	Basic Materials	3.93	5.56	4.31		■[								
	A	Consumer Cyclical	12.70	11.50	12.44										
		Financial Services	5.35	6.04	9.07			0							
	<b>f</b>	Real Estate	10.88	4.89	3.54										
	W	Sensitive	44.16	40.59	44.46										
		Communication Services	1.34	0.99	0.72	10									
	8	Energy	2.61	0.61	1.48										
	<b>\$</b>	Industrials	12.41	17.84	16.25					` .					
		Technology	27.80	21.15	26.01										
	$\rightarrow$	Defensive	22.97	31.42	26.18							1			
	Ħ	Consumer Defensive	3.49	4.35	4.97		I [				_				
	•	Healthcare	18.73	25.29	20.08										
	•	Utilities	0.75	1.78	1.13	■[]									
	-					0%	5	10	15	20	25	30	35	40	

# Style Breakdown

Equity

. ,			
0	0	0	Large
3	18	44	Mid
2	9	23	Small
Value	Blend	Growth	

Weight %

>50 25-50 10-25 0-10

<b>Top 15 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
	1.48	1.48	_	_
⊕ Burlington Stores Inc	0.82	2.30	22.84	Consumer Defensive
⊕ Teledyne Technologies Inc	0.72	3.02	55.50	Technology
⊕ Zebra Technologies Corp	0.69	3.71	29.60	Technology
Equity Lifestyle Properties Inc	0.67	4.38	39.44	Real Estate
West Pharmaceutical Services Inc	0.64	5.03	45.13	Healthcare
⊕ Tyler Technologies Inc	0.62	5.65	41.27	Technology
⊕ Insulet Corp	0.61	6.26	107.93	Healthcare
⊕ EPAM Systems Inc	0.59	6.85	57.16	Technology
⊕ RingCentral Inc Class A	0.56	7.40	52.43	Technology
⊕ CyrusOne Inc	0.55	7.96	52.27	Real Estate
⊕ Lennox International Inc	0.55	8.51	12.01	Industrials
⊕ Bright Horizons Family Solutions Inc	0.55	9.05	36.83	Consumer Cyclical
WEX Inc     ■	0.54	9.59	44.27	Technology
⊕ Guidewire Software Inc	0.53	10.12	31.35	Technology

Total Holdings 625



# Vanguard Small Cap Value Index Admiral VSIAX

Morningstar Category
Small Value

Morningstar Index Russell 2000 Value TR USD

# Portfolio Manager(s)

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

### **Quantitative Screens**

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

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

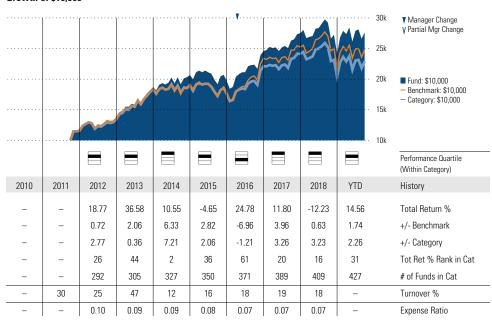
× Style: The fund has landed in its primary style box — Small Value — 57.14 % of the time over the past three years.

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

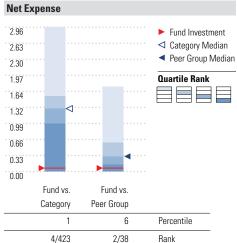
### **Morningstar Investment Management LLC Analysis**

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

# Growth of \$10,000







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

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



# Vanguard Small Cap Value Index Admiral VSIAX

Morningstar Category

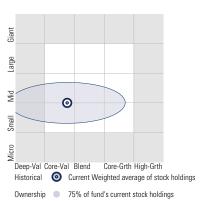
Small Value

Morningstar Index

Russell 2000 Value TR USD

Style Analysis as of 09-30-2019

Morningstar Style Box™



### Style Breakdown

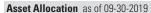
Equity

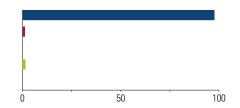
0	0	0	Large
26	20	8	Mid
23	18	5	Small

Weight %

>50 25-50 10-25 0-10

Value Blend Growth





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

360	ctor Weighting as of 09-	30-2019			_
		Fund	Bmark	Cat	Fund • Benchmark [] Category Average
<b>Մ</b>	Cyclical	55.51	58.82	57.12	
A	Basic Materials	6.63	5.12	7.49	
A	Consumer Cyclical	13.93	11.85	13.64	
<del>,</del>	Financial Services	21.44	27.63	26.41	
<b>fi</b>	Real Estate	13.51	14.22	9.58	
W	Sensitive	30.35	27.03	31.80	
	Communication Services	0.42	0.98	0.54	
ð	Energy	2.69	4.90	4.64	
Ф	Industrials	16.67	12.61	15.57	
	Technology	10.57	8.54	11.05	
<b>→</b>	Defensive	14.15	14.14	11.09	
Ħ	Consumer Defensive	4.05	3.11	3.74	
+	Healthcare	4.46	4.54	3.35	
•	Utilities	5.64	6.49	4.00	- <b> </b>
					0% 5 10 15 20 25 30 35 40 45 50 55 60

#### **Top 15 Holdings** as of 09-30-2019 % Net Asset Cumulative % YTD Return % Name Morningstar Sector Cmt Market Liquidity Rate 1.36 1.36 Atmos Energy Corp 0.67 2.03 24.53 Utilities □ IDEX Corp 0.62 2.66 30.93 Industrials ← Leidos Holdings Inc. 0.62 3.27 64.76 Technology ① UGI Corp 3.80 Utilities 0.53 -4.11 Booz Allen Hamilton Holding Corp Class A 0.50 4.30 59.11 Industrials → Teradyne Inc. 0.49 4.79 85.40 Technology 31.05 Allegion PLC 0.49 5.28 Industrials Aqua America Inc 0.48 5.76 33.09 Utilities ① National Retail Properties Inc 0.48 6.24 19.39 Real Estate PerkinElmer Inc 0.47 6.72 8.70 Healthcare US Foods Holding Corp 0.45 7.17 29.90 Consumer Defensive VICI Properties Inc Ordinary Shares 0.45 7.62 25.25 Real Estate RPM International Inc 0.45 8.07 18.85 Basic Materials Medical Properties Trust Inc 0.44 8.50 26.37 Real Estate

**Total Holdings 862** 



# Portfolio Manager(s)

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

#### Quantitative Screens

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

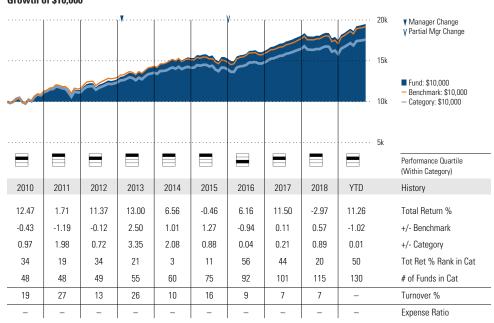
Management: The fund's management has been in place for 6.61 years.

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

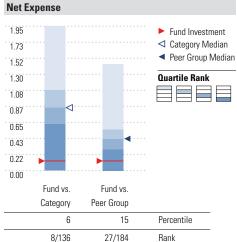
# **Morningstar Investment Management LLC Analysis**

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

# Growth of \$10,000







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

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



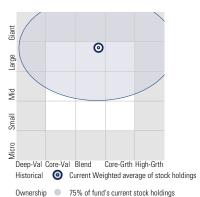
# Vanguard Target Retirement 2015 Inv VTXVX

Quality High MidLow

Morningstar Index Morningstar Lifetime Mod 2015 TR USD **Morningstar Category** Target-Date 2015



Morningstar Style Box™



# Style Breakdown

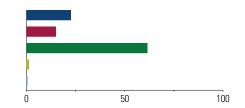
Equity				rixea ii	icome	
25	25	26	Large			
6	6	6	Mid			
2	2	2	Small			
Value	Blend	Growth		Ltd	Mod	Ext

Duration

Weight %

>50 25-50 10-25 0-10

# Asset Allocation as of 09-30-2019



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

		From d	Dl.	0-4	French	• Dl	П	0-4	A			
		Fund	Bmark	Cat	Fund	▼ Benchn	nark [	Cateo	jory Ave	erage		7
<u></u>	Cyclical	38.29	42.72	38.24								
A.	Basic Materials	4.85	4.48	4.45								
A	Consumer Cyclical	11.98	10.79	11.61								
<del>,</del>	Financial Services	17.04	16.56	17.58		1						
<b>fi</b>	Real Estate	4.42	10.89	4.60								
W	Sensitive	38.24	34.03	37.97							1	
	Communication Services	3.37	3.23	2.86								
ð	Energy	5.01	4.87	5.35								
Ф	Industrials	11.23	11.11	10.57								
	Technology	18.63	14.82	19.19			•		_ :			
<b>—</b>	Defensive	23.48	23.24	23.80								
Ħ	Consumer Defensive	8.43	8.40	8.03		<b>=</b> )						
+	Healthcare	11.66	10.69	12.51								
0	Utilities	3.39	4.15	3.26	<b></b>							

<b>Top 6 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Bond Market II Idx Inv	_	34.07	34.07	_	_
→ Vanguard Total Stock Mkt Idx Inv	_	22.67	56.74	_	-
◆ Vanguard Total Intl Stock Index Inv	_	15.16	71.90	_	_
⊕ Vanguard Total Intl Bd Idx Investor	_	15.05	86.95	_	_
⊕ Vanguard Shrt-Term Infl-Prot Sec Idx Inv	_	13.05	100.00	_	_
	_	0.00	100.00	-	_

### Total Holdings 6



# Vanguard Target Retirement 2020 Inv VTWNX

Morningstar Category Target-Date 2020 Morningstar Index Morningstar Lifetime Mod 2020 TR USD

Expense Ratio

### Portfolio Manager(s)

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

#### Quantitative Screens

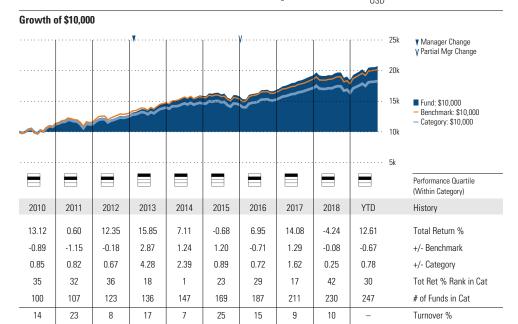
❷ Performance: The fund has finished in the Target-Date
2020 category's top three quartiles in 10 of the 10 years it's
been in existence.

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

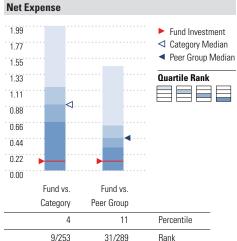
Net Expense: The fund's expense ratio of 0.13 is 82.67% lower than the Target-Date 2020 category average.

# **Morningstar Investment Management LLC Analysis**

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







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

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



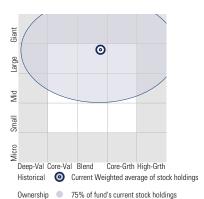
# Vanguard Target Retirement 2020 Inv VTWNX

**Morningstar Category** Target-Date 2020

Morningstar Index Morningstar Lifetime Mod 2020 TR USD

Style Analysis as of 09-30-2019

Morningstar Style Box™





Equity

Weight %

25	25	26	Laige
6	6	6	IVIIG
2	2	2	Olliali

Value Blend Growth

Mid Μid Low Mod Ltd Duration

Fixed Income Quality High

>50 25-50 10-25 0-10

0	50	Total	100.00	100.00
		Other	0.29	2.47
		Cash	1.26	4.57
		Bonds	47.84	52.55
		Non-US Stocks	20.10	12.68
		US Stocks	30.51	27.74
		Asset Class	Net %	Cat%
Asset Allocation as of 09-30-3	2019			

		Fund	Bmark	Cat	Fund • Benchmark [] Category Average
า	Cyclical	38.27	42.65	39.44	Tunu Benciiniark   Category Average
4	Basic Materials	4.85	4.57	4.05	
<b>A</b>	Consumer Cyclical	11.98	10.86	11.82	
÷	Financial Services	17.04	16.69	17.15	
th.	Real Estate	4.40	10.53	6.42	
M	Sensitive	38.23	34.12	37.72	
	Communication Services	3.35	3.23	2.95	
	Energy	5.01	4.90	4.70	
Ф	Industrials	11.23	11.17	10.87	
	Technology	18.64	14.82	19.20	
<b>→</b>	Defensive	23.50	23.19	22.84	
	Consumer Defensive	8.44	8.42	7.70	
٠	Healthcare	11.67	10.64	11.92	
•	Utilities	3.39	4.13	3.22	<b>—</b>

<b>Top 6 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Vanguard Total Stock Mkt Idx Inv	_	30.78	30.78	_	_
⊕ Vanguard Total Bond Market II ldx Inv	_	29.19	59.97	_	-
① Vanguard Total Intl Stock Index Inv	_	20.63	80.60	_	_
① Vanguard Total Intl Bd Idx Investor	_	12.83	93.44	_	_
igoplus Vanguard Shrt-Term Infl-Prot Sec Idx Inv	_	6.54	99.98	-	_
① Cmt Market Liquidity Rate	-	0.02	100.00	-	_

Total Holdings 6



# Vanguard Target Retirement 2025 Inv VTTVX

13.84

-1.31

0.55

37

84

11

-0.37

-0.61

1.69

16

94

23

13.29

-0.38

0.26

43

104

9

18.14

1.86

2.84

24

128

16

7.17

1.13

2.10

4

135

7

-0.85

1.21

0.74

24

158

24

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

Total Return %

+/- Benchmark

Tot Ret % Rank in Cat

# of Funds in Cat

+/- Category

Turnover %

### Portfolio Manager(s)

William Coleman since 02-2013 Walter Neiman since 02-2013

### **Quantitative Screens**

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

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

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

# **Morningstar Investment Management LLC Analysis**

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 ▼ Manager Change V Partial Mgr Change 20k ■ Fund: \$10,000 Benchmark: \$10,000 - Category: \$10,000 Performance Quartile (Within Category) 2010 2011 2012 2013 2014 2015 2016 2017 2018 YTD History

7.48

-0.91

0.75

23

178

15

15.94

1.40

1.27

21

197

10

-5.15

-0.25

0.19

42

214

8

13.70

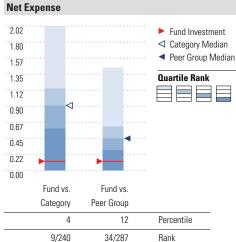
-0.53

0.79

25

233





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

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



# Vanguard Target Retirement 2025 Inv VTTVX

Quality

High

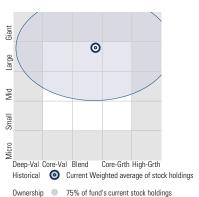
Mid

Low

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

# Style Analysis as of 09-30-2019

Morningstar Style Box™



Fixed Income

Ltd

Mod Duration

# Style Breakdown

Equity 26 25 25

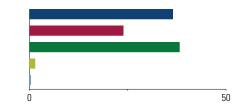
Large Mid 6 6 6 2 2 2

Value Blend Growth

Weight %

>50 25-50 10-25 0-10

# Asset Allocation as of 09-30-2019



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

		Fund	Bmark	Cat
-	Cyclical	38.24	42.57	39.19
	Basic Materials	4.83	4.67	4.25
	Consumer Cyclical	11.98	10.96	11.88
	Financial Services	17.02	16.84	17.25
à	Real Estate	4.41	10.10	5.81
7	Sensitive	38.25	34.26	37.73
	Communication Services	3.35	3.25	3.02
	Energy	5.01	4.94	4.73
	Industrials	11.23	11.22	10.83
	Technology	18.66	14.85	19.15
	Defensive	23.51	23.17	23.07
	Consumer Defensive	8.43	8.43	7.92
	Healthcare	11.68	10.60	11.90
1	Utilities	3.40	4.14	3.25

<b>Top 5 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⇒ Vanguard Total Stock Mkt Idx Inv	_	36.71	36.71	_	_
	-	27.25	63.96	_	_
	-	24.43	88.39	_	_
⊕ Vanguard Total Intl Bd Idx Investor	_	11.56	99.95	_	_
⊕ Cmt Market Liquidity Rate	_	0.05	100.00	_	_

### Total Holdings 5



# Vanguard Target Retirement 2030 Inv VTHRX

Morningstar Category Target-Date 2030 Morningstar Index Morningstar Lifetime Mod 2030 TR USD

### Portfolio Manager(s)

William Coleman since 02-2013 Walter Neiman since 02-2013

### **Quantitative Screens**

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

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

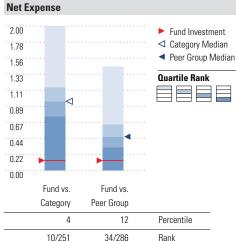
Net Expense: The fund's expense ratio of 0.14 is 82.05% lower than the Target-Date 2030 category average.

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

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







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

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



# Vanguard Target Retirement 2030 Inv VTHRX

Quality High MidLow

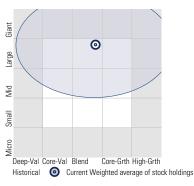
Mod Duration

**Morningstar Category** Target-Date 2030

Morningstar Index Morningstar Lifetime Mod 2030 TR USD

# Style Analysis as of 09-30-2019

Morningstar Style Box™



# Ownership 75% of fund's current stock holdings

# Style Breakdown

Equity				Fixed	Income
25	25	26	Large		
6	6	6	Mid		
2	2	2	Small		
Value	Blend	Growth		Ltd	Mod

Weight % >50 25-50 10-25 0-10

# Asset Allocation as of 09-30-2019



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

		Fund	Bmark	Cat	Fund	1	Bench	mark	Cate	gory Ave	erage			
ŀ	Cyclical	38.25	42.44	39.43										-
ů.	Basic Materials	4.84	4.77	4.36										
4	Consumer Cyclical	11.97	11.05	11.90										
ê	Financial Services	17.03	17.02	17.26			- :							
ŧ	Real Estate	4.41	9.60	5.91			*							
M	Sensitive	38.26	34.42	37.68								- M.	0	
	Communication Services	3.36	3.25	3.02		]								
•	Energy	5.01	4.99	4.77										
ф	Industrials	11.23	11.29	10.92										
3	Technology	18.66	14.89	18.97						_ :				
<b>→</b>	Defensive	23.49	23.15	22.89						0				
	Consumer Defensive	8.42	8.45	7.86			0							
٠	Healthcare	11.68	10.56	11.77										
•	Utilities	3.39	4.14	3.26										

<b>Top 5 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
○ Vanguard Total Stock Mkt Idx Inv	_	41.19	41.19	_	_
⊕ Vanguard Total Intl Stock Index Inv	-	27.37	68.56	_	_
⊕ Vanguard Total Bond Market II Idx Inv	-	22.07	90.63	_	_
⊕ Vanguard Total Intl Bd Idx Investor	_	9.35	99.98	_	_
	_	0.02	100.00	_	_

### Total Holdings 5



# Vanguard Target Retirement 2035 Inv VTTHX

Morningstar Category Target-Date 2035 Morningstar Index Morningstar Lifetime Mod 2035 TR USD

Turnover %

Expense Ratio

### Portfolio Manager(s)

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

#### Quantitative Screens

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

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

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

# **Morningstar Investment Management LLC Analysis**

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

#### Growth of \$10,000 ▼ Manager Change V Partial Mgr Change 20k ■ Fund: \$10,000 Benchmark: \$10,000 - Category: \$10,000 Performance Quartile (Within Category) 2010 2011 2012 2013 2014 2015 2016 2017 2018 YTD History 15.14 -2.24 15.16 22.82 7.24 -1.26 8.26 19.12 -6.58 14.77 Total Return % 0.04 -0.20 0.79 1.44 1.32 -1.81 0.60 0.24 -0.99 -1.39 +/- Benchmark 2.82 0.86 2.00 0.46 1.27 0.52 0.50 0.69 0.69 0.09 +/- Category 26 19 40 23 10 37 32 35 32 55 Tot Ret % Rank in Cat 81 91 101 125 132 155 175 194 211 230 # of Funds in Cat

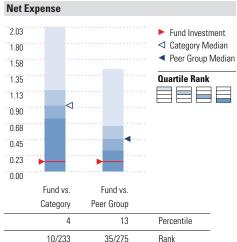
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3-Year Risk Metrics





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

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

Bmark	Cat
17.21	17.27
2.05	2.16
-	5.34
	17.21



6

18

6

12

6

23

# Vanguard Target Retirement 2035 Inv VTTHX

**Morningstar Category** Target-Date 2035

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

# Style Analysis as of 09-30-2019

Morningstar Style Box™



# Style Breakdown

Fauity

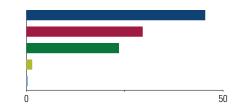
Weight %

Lquity				I IAGU II	ICOIIIC		Qualit
25	25	26	Large				High
6	6	6	Mid				Mid
2	2	2	Small				Low
Value	Blend	Growth	•	Ltd Duratio	Mod n	Ext	•

Fixed Income

>50 25-50 10-25 0-10

# Asset Allocation as of 09-30-2019



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

		Fund	Bmark	Cat	Fund	•	Benchr	mark	Cate	gory Ave	erage			_
b	Cyclical	38.24	42.37	39.70										•
	Basic Materials	4.83	4.87	4.41		0								
<b>P</b>	Consumer Cyclical	11.98	11.14	11.93										
ê	Financial Services	17.03	17.19	17.34										
b	Real Estate	4.40	9.17	6.02			•							
NF	Sensitive	38.26	34.53	37.85								- t.	0	
	Communication Services	3.35	3.26	3.07		1								
•	Energy	5.01	5.02	4.90										
þ	Industrials	11.23	11.33	10.95										
1	Technology	18.67	14.92	18.93						_ :				
+	Defensive	23.50	23.10	22.45						<u> </u>				
=	Consumer Defensive	8.42	8.46	7.71			()							
ř	Healthcare	11.69	10.51	11.67										
2	Utilities	3.39	4.13	3.07		1								

<b>Top 5 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Inv	_	45.82	45.82	_	_
⊕ Vanguard Total Intl Stock Index Inv	-	30.28	76.10	_	_
⊕ Vanguard Total Bond Market II ldx Inv	_	16.63	92.73	_	_
⊕ Vanguard Total Intl Bd Idx Investor	_	7.25	99.97	_	_
○ Cmt Market Liquidity Rate	_	0.03	100.00	_	_

# Total Holdings 5



# Vanguard Target Retirement 2040 Inv VFORX

Morningstar Category Target-Date 2040 Morningstar Index Morningstar Lifetime Mod 2040 TR USD

### Portfolio Manager(s)

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

### **Quantitative Screens**

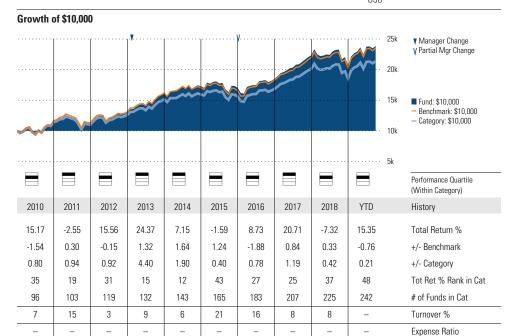
❷ Performance: The fund has finished in the Target-Date
2040 category's top three quartiles in 10 of the 10 years it's
been in existence.

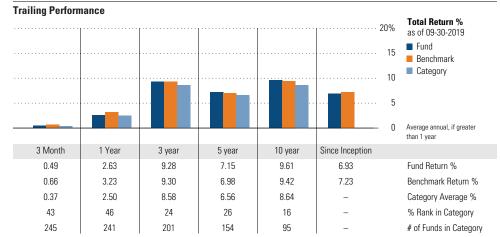
Management: The fund's management has been in place for 6.61 years.

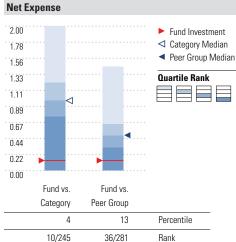
Net Expense: The fund's expense ratio of 0.14 is 82.5% lower than the Target-Date 2040 category average.

# **Morningstar Investment Management LLC Analysis**

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.







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

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



# Vanguard Target Retirement 2040 Inv VFORX

**Morningstar Category** Target-Date 2040

Morningstar Index Morningstar Lifetime Mod 2040 TR USD

# Style Analysis as of 09-30-2019

Morningstar Style Box™



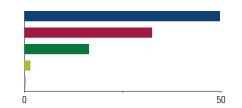
# Style Breakdown

Weight %

Equity				Fixed Ir	Quality			
	25	25	26	Large				High
	6	6	6	Mid				Mid
	2	2	2	Small				Low
	Value	Blend	Growth		Ltd Duratio	Mod	Ext	•

>50 25-50 10-25 0-10

# Asset Allocation as of 09-30-2019



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

	ctor Weighting as of 09-3								п -					
		Fund	Bmark	Cat	Fund	i '	Bench	mark	Categ	gory Ave	erage			,
<sub>Մ</sub>	Cyclical	38.26	42.42	39.87										
A.	Basic Materials	4.84	4.97	4.39										
A	Consumer Cyclical	11.98	11.19	11.92					_ :					
Ę.	Financial Services	17.03	17.31	17.11					ĺ					
ŵ	Real Estate	4.41	8.95	6.45			•							
W	Sensitive	38.26	34.58	37.49										
	Communication Services	3.35	3.26	2.95		0								
•	Energy	5.01	5.05	4.71										
Ф	Industrials	11.23	11.36	10.93										
	Technology	18.67	14.91	18.90										
<b>→</b>	Defensive	23.48	23.01	22.64						(1				
Ħ	Consumer Defensive	8.42	8.45	7.80			•							
+	Healthcare	11.67	10.44	11.64										
•	Utilities	3.39	4.12	3.20		0								
					0%	5	10	15	20	25	30	35	40	4

<b>Top 5 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
◆ Vanguard Total Stock Mkt Idx Inv	_	50.06	50.06	_	_
⊕ Vanguard Total Intl Stock Index Inv	-	33.26	83.32	_	_
	_	11.68	95.00	_	_
⊕ Vanguard Total Intl Bd Idx Investor	_	4.97	99.97	_	_
⊕ Cmt Market Liquidity Rate	_	0.03	100.00	_	_

### Total Holdings 5



# Vanguard Target Retirement 2045 Inv VTIVX

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

Turnover %

Expense Ratio

### Portfolio Manager(s)

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

#### Quantitative Screens

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

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

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

# **Morningstar Investment Management LLC Analysis**

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.

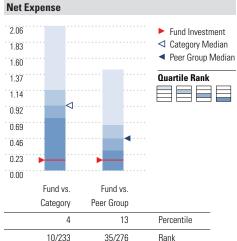
#### Growth of \$10,000 ▼ Manager Change V Partial Mgr Change 20k ■ Fund: \$10,000 Benchmark: \$10,000 - Category: \$10,000 Performance Quartile (Within Category) 2010 2011 2012 2013 2014 2015 2016 2017 2018 YTD History 15.19 -2.51 15.58 24.37 7.16 -1.57 8.87 21.42 -7.90 15.69 Total Return % -1.57 0.68 -0.26 1.30 1.91 1.46 -1.97 0.89 0.27 -0.49 +/- Benchmark 2.37 0.59 1.81 0.94 0.91 0.24 1.59 0.27 0.30 0.04 +/- Category 40 14 43 26 12 42 28 26 43 54 Tot Ret % Rank in Cat 80 90 100 124 132 175 194 211 230 # of Funds in Cat 155

13

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

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

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



6

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7

10

7

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# Vanguard Target Retirement 2045 Inv VTIVX

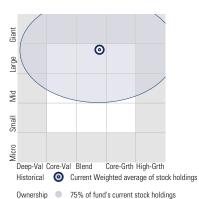
Quality High MidLow

**Morningstar Category** Target-Date 2045

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

# Style Analysis as of 09-30-2019

Morningstar Style Box™



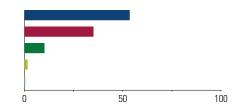
# Style Breakdown

Equity				Fixed	Income
25	25	26	Large		
6	6	6	Mid		
2	2	2	Small		
Value	Blend	Growth		Ltd	Mod

Duration

Weight % >50 25-50 10-25 0-10

# Asset Allocation as of 09-30-2019



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

-50	ctor Weighting as of 09-3								п -					
		Fund	Bmark	Cat	Fun	i i	Bench	mark	[] Cateo	gory Ave	erage			,
<b>Դ</b>	Cyclical	38.25	42.58	39.58										
A	Basic Materials	4.84	5.04	4.31										
A	Consumer Cyclical	11.98	11.24	11.84					_ :					
æ	Financial Services	17.03	17.40	17.11					]					
ŵ	Real Estate	4.40	8.90	6.32			•					1		
W	Sensitive	38.25	34.56	37.38									)	
	Communication Services	3.35	3.25	2.79										
•	Energy	5.01	5.07	4.66										
Ф	Industrials	11.23	11.35	10.77										
	Technology	18.66	14.89	19.16										
<b>-</b>	Defensive	23.49	22.88	23.05						Û				
Ħ	Consumer Defensive	8.43	8.43	7.86										
+	Healthcare	11.67	10.35	11.88										
•	Utilities	3.39	4.10	3.31		()								
					0%	5	10	15	20	25	30	35	40	4

<b>Top 5 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
◆ Vanguard Total Stock Mkt Idx Inv	_	53.89	53.89	_	_
⊕ Vanguard Total Intl Stock Index Inv	-	35.90	89.79	_	_
	_	7.14	96.93	_	_
⊕ Vanguard Total Intl Bd Idx Investor	_	3.02	99.95	_	_
⊕ Cmt Market Liquidity Rate	_	0.05	100.00	_	_

# Total Holdings 5



# Vanguard Target Retirement 2050 Inv VFIFX

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

### Portfolio Manager(s)

William Coleman since 02-2013 Walter Neiman since 02-2013

### **Quantitative Screens**

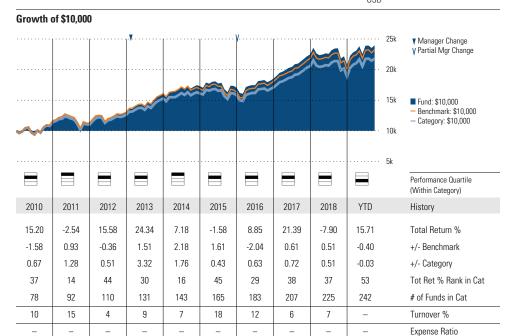
❷ Performance: The fund has finished in the Target-Date
2050 category's top three quartiles in 10 of the 10 years it's
been in existence.

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

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

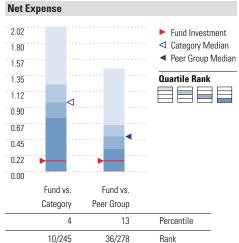
### **Morningstar Investment Management LLC Analysis**

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





3-Year Risk Metrics



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

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



# Vanguard Target Retirement 2050 Inv VFIFX

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

# Style Analysis as of 09-30-2019

Morningstar Style Box™



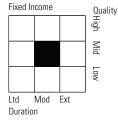
Large

Μid

# Style Breakdown

Equity 25 25 26 6 6 6

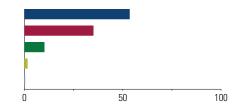
2 2 2 Value Blend Growth



Weight %

>50 25-50 10-25 0-10

# Asset Allocation as of 09-30-2019



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

		Fund	Bmark	Cat	Fund	d '	Bench	mark	Categ	orv Ave	erage			
Ն	Cyclical	38.25	42.82	39.29							3.			_
A.	Basic Materials	4.84	5.12	4.45										
<b>A</b>	Consumer Cyclical	11.98	11.25	11.82										
÷	Financial Services	17.03	17.46	16.70					*					
<b>fi</b>	Real Estate	4.40	8.99	6.32			•							
W	Sensitive	38.24	34.49	37.69								*	0	
	Communication Services	3.35	3.24	2.80		0								
ð	Energy	5.01	5.07	4.89										
Ф	Industrials	11.23	11.33	10.76										
	Technology	18.65	14.85	19.24						_ :				
<b>→</b>	Defensive	23.49	22.69	23.04						0				
Ħ	Consumer Defensive	8.43	8.40	7.76			•							
+	Healthcare	11.67	10.23	12.02										
•	Utilities	3.39	4.06	3.26										
					0%	5	10	15	20	25	30	35	40	45

<b>Top 5 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Inv	_	53.89	53.89	_	_
	-	35.88	89.77	_	-
	_	7.16	96.93	_	_
⊕ Vanguard Total Intl Bd Idx Investor	_	3.00	99.93	_	_
⊕ Cmt Market Liquidity Rate	_	0.07	100.00	_	_

### Total Holdings 5



# Portfolio Manager(s)

William Coleman since 02-2013 Walter Neiman since 02-2013

### **Quantitative Screens**

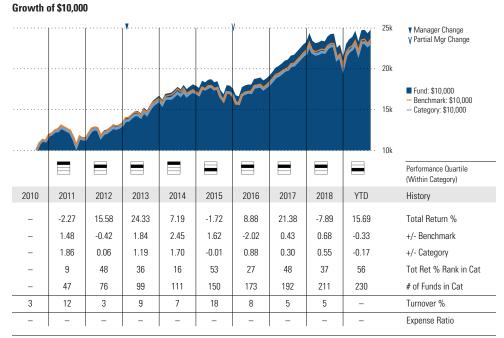
Q Performance: The fund has finished in the Target-Date
 2055 category's top three quartiles in 9 of the 9 years it's been in existence.

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

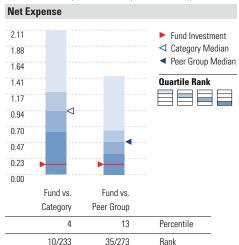
Net Expense: The fund's expense ratio of 0.15 is
 80.77% lower than the Target-Date 2055 category average.

# **Morningstar Investment Management LLC Analysis**

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







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

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



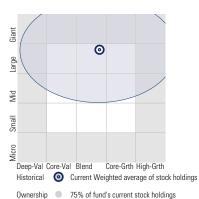
# Vanguard Target Retirement 2055 Inv VFFVX

**Morningstar Category** Target-Date 2055

Morningstar Index Morningstar Lifetime Mod 2055 TR USD

# Style Analysis as of 09-30-2019

Morningstar Style Box™



50

Asset Allocation as of 09-30-2019

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

# Style Breakdown

Equity				Fixed Ir	ncome		Quality
25	25	26	Large				High
6	6	6	Mid				Mid
2	2	2	Small				Low
Value	Blend	Growth		Ltd	Mod	Ext	

Duration

		F
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	<b>‡</b>	lr
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	$\rightarrow$	D
	-	۲

Weight %

>50 25-50 10-25 0-10

		Fund	Bmark	Cat	Fund	1	Bench	mark	Categ	gory Ave	erage		
b	Cyclical	38.25	43.09	39.24									
i.	Basic Materials	4.84	5.19	4.39		•)"							
4	Consumer Cyclical	11.98	11.26	11.80									
₽	Financial Services	17.03	17.52	17.06			- :		<b>'</b>				
b	Real Estate	4.40	9.12	5.99			7						
NI	Sensitive	38.26	34.40	37.65								- V.	0
	Communication Services	3.35	3.22	2.83		Ĭ							
•	Energy	5.02	5.07	4.90									
\$	Industrials	11.23	11.31	10.73			<b></b> ()						
2	Technology	18.66	14.80	19.19						_ :			
+	Defensive	23.49	22.50	23.10						0			
=	Consumer Defensive	8.42	8.35	7.89			0						
ř	Healthcare	11.68	10.11	11.98									
?	Utilities	3.39	4.04	3.23		]							

100

<b>Top 5 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Vanguard Total Stock Mkt Idx Inv	_	53.91	53.91	_	_
Vanguard Total Intl Stock Index Inv	-	35.84	89.74	_	_
Vanguard Total Bond Market II Idx Inv	_	7.17	96.91	_	_
Vanguard Total Intl Bd Idx Investor	_	2.96	99.87	_	_
① Cmt Market Liquidity Rate	_	0.13	100.00	_	_

# Total Holdings 5



# Vanguard Target Retirement 2060 Inv VTTSX

Morningstar Category Target-Date 2060+ Morningstar Index Morningstar Lifetime Mod 2060 TR USD

### Portfolio Manager(s)

William Coleman since 02-2013 Walter Neiman since 02-2013

### **Quantitative Screens**

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

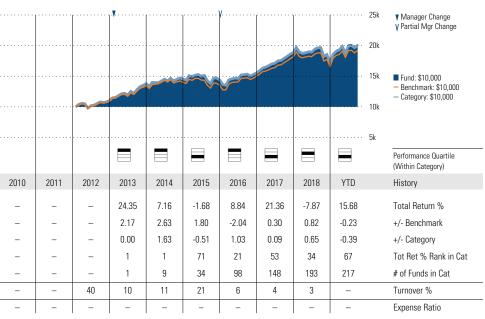
Management: The fund's management has been in place for 6.61 years.

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

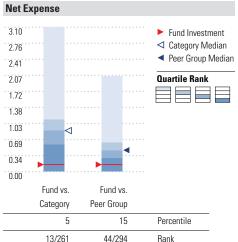
# **Morningstar Investment Management LLC Analysis**

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









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

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



# Vanguard Target Retirement 2060 Inv VTTSX

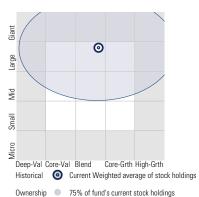
Morningstar Category
Target-Date 2060+

Morningstar Morningstar I

Morningstar Index Morningstar Lifetime Mod 2060 TR USD

# Style Analysis as of 09-30-2019

Morningstar Style Box™



Large

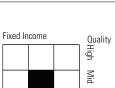
Μid

# Style Breakdown

Equity 25 25 26 6 6 6



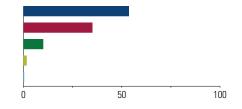
Weight % >50 25-50 10-25 0-10



Low

# Ltd Mod Ext Duration

# Asset Allocation as of 09-30-2019



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

		Fund	Bmark	Cat	Fund	1	Bench	mark	Cate	gory Ave	erage			_
b	Cyclical	38.23	43.36	38.96										_,
	Basic Materials	4.83	5.25	4.64										
<b>P</b>	Consumer Cyclical	11.98	11.27	11.85										
ê	Financial Services	17.02	17.57	17.00			:		١					
b	Real Estate	4.40	9.27	5.47			· ·							
NF	Sensitive	38.27	34.31	37.95								*:	0	
	Communication Services	3.35	3.22	3.03		)								
•	Energy	5.02	5.08	5.05										
<b>‡</b>	Industrials	11.23	11.26	10.93										
1	Technology	18.67	14.75	18.94						_ :				
+	Defensive	23.50	22.32	23.09						0				
Ę	Consumer Defensive	8.43	8.31	8.02			0							
1	Healthcare	11.68	10.00	11.85										
?	Utilities	3.39	4.01	3.22		]								

<b>Top 5 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ Vanguard Total Stock Mkt Idx Inv	_	53.98	53.98	_	_
	-	35.79	89.77	_	-
	_	7.17	96.93	_	_
⊕ Vanguard Total Intl Bd Idx Investor	_	2.93	99.86	_	_
⊕ Cmt Market Liquidity Rate	_	0.14	100.00	_	_

# Total Holdings 5



# Vanguard Target Retirement 2065 Inv VLXVX

Morningstar Category Target-Date 2060+ Morningstar Index Morningstar Lifetime Mod 2060 TR USD

### Portfolio Manager(s)

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

#### **Quantitative Screens**

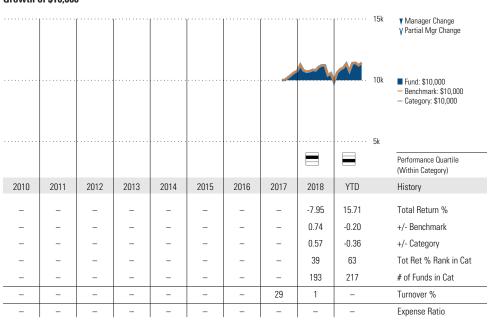
The Performance screen is not applicable for funds with less than three years of data.

- × *Management:* The fund's management team has been in place for less than three years.
- Net Expense: The fund's expense ratio of 0.15 is 81.48% lower than the Target-Date 2060+ category average.

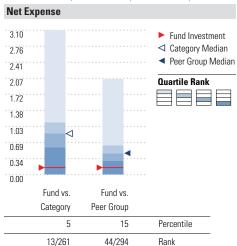
### **Morningstar Investment Management LLC Analysis**

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

# Growth of \$10,000







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

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



# Vanguard Target Retirement 2065 Inv VLXVX

Quality

High

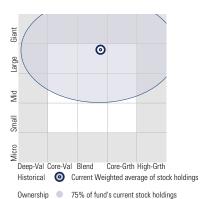
Mid

Low

#### **Morningstar Category Morningstar Index** Morningstar Lifetime Mod 2060 TR USD Target-Date 2060+

# Style Analysis as of 09-30-2019

Morningstar Style Box™



Large

Fixed Income

Ltd

Mod Duration



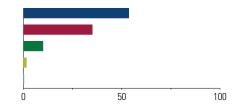
Equity 26 25 25 6 6 6

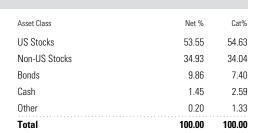


Weight %

>50 25-50 10-25 0-10

# Asset Allocation as of 09-30-2019





		Fund	Bmark	Cat	Fund	▼ Benchr	nork	I Cotoc	ory Ave	rogo			
^					runu	Deliciii	IIdik	Galet	JULY AVE	aye		- n :	7
Դ	Cyclical	38.25	43.36	38.96	7		1		1			-11	
A	Basic Materials	4.84	5.25	4.64									
A	Consumer Cyclical	11.98	11.27	11.85									
<b>P</b>	Financial Services	17.02	17.57	17.00				•					
ŵ	Real Estate	4.41	9.27	5.47		<b>'</b>							
W	Sensitive	38.26	34.31	37.95							*:	0	
	Communication Services	3.35	3.22	3.03									
•	Energy	5.01	5.08	5.05									
Ф	Industrials	11.23	11.26	10.93		0							
	Technology	18.67	14.75	18.94			•		_ :				
<b>—</b>	Defensive	23.49	22.32	23.09					0				
Ħ	Consumer Defensive	8.43	8.31	8.02		<b>-</b> 0' :							
+	Healthcare	11.67	10.00	11.85									
•	Utilities	3.39	4.01	3.22									

<b>Top 5 Holdings</b> as of 09-30-2019					
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
◆ Vanguard Total Stock Mkt Idx Inv	_	54.03	54.03	_	_
⊕ Vanguard Total Intl Stock Index Inv	-	35.85	89.88	_	_
⊕ Vanguard Total Bond Market II ldx Inv	_	7.04	96.91	_	_
⊕ Vanguard Total Intl Bd Idx Investor	_	3.00	99.92	_	_
① Cmt Market Liquidity Rate	_	0.08	100.00	_	_

### Total Holdings 5



# Vanguard Target Retirement Income Inv VTINX

Morningstar Category
Target-Date Retirement

Morningstar Index Morningstar Lifetime Mod Incm TR USD

# Portfolio Manager(s)

William Coleman since 02-2013 Walter Neiman since 02-2013

### **Quantitative Screens**

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

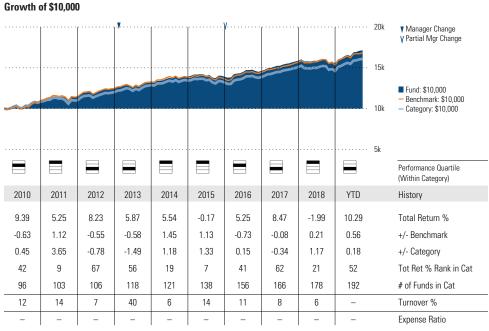
Management: The fund's management has been in place for 6.61 years.

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

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

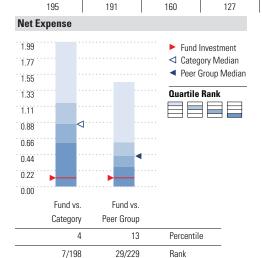
This fund passes all of Morningstar Investment
Management's quantitative screens. Morningstar
Investment Management has also assessed the fund from a
qualitative perspective and, as a fiduciary, is comfortable
recommending the fund's use in retirement plans.

# 5 640 000



#### **Trailing Performance Total Return %** as of 09-30-2019 Fund Benchmark Category Average annual, if greater than 1 year 3 Month 1 Year 10 year Since Inception 3 yea 5 year Fund Return % 1.52 6.75 5.10 4.57 5.76 5.29 0.87 5.21 4.99 4.18 5.61 5.86 Benchmark Return % 5.90 1.31 4 78 4 01 5 28 Category Average % 26 21 39 23 34 % Rank in Category

95



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

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	17.64	17.90	17.87
Price/Book Ratio	2.18	2.19	2.23
Avg Eff Duration	5.86	_	6.08





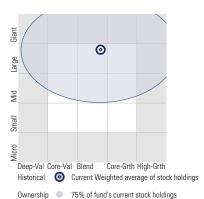
# of Funds in Category

# Vanguard Target Retirement Income Inv VTINX

**Morningstar Category** Target-Date Retirement **Morningstar Index** Morningstar Lifetime Mod Incm TR USD

# Style Analysis as of 09-30-2019

Morningstar Style Box™



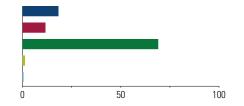
# Style Breakdown

Equity

25	5	25	26	Large
6		6	6	Mid
2		2	2	Small
Valu	e Rle	end	Growth	



Weight % >50 25-50 10-25 0-10 Asset Allocation as of 09-30-2019



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

Sec	ctor Weighting as of 09-	30-2019			
		Fund	Bmark	Cat	Fund Benchmark Category Average
<u></u>	Cyclical	38.18	42.47	40.56	
Å.	Basic Materials	4.80	4.28	4.24	
A	Consumer Cyclical	11.97	10.66	11.58	
<b>F</b>	Financial Services	17.01	16.33	16.72	
俞	Real Estate	4.40	11.20	8.02	
W	Sensitive	38.33	34.06	37.03	
	Communication Services	3.35	3.25	3.01	
•	Energy	5.01	4.85	4.88	
Ф	Industrials	11.23	11.05	10.71	
	Technology	18.74	14.91	18.43	
<b>→</b>	Defensive	23.50	23.46	22.41	
Ħ	Consumer Defensive	8.42	8.43	7.66	
٠	Healthcare	11.70	10.84	11.48	
•	Utilities	3.38	4.19	3.27	
					0% 5 10 15 20 25 30 35 40 45

Massa	Maturity Data	0/ N-+ A+	0	VTD D-+ 0/	Marrian et al Castan
Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
	_	37.11	37.11	_	_
○ Vanguard Total Stock Mkt Idx Inv	-	18.28	55.39	_	-
◆ Vanguard Shrt-Term Infl-Prot Sec Idx Inv	-	16.61	72.01	_	_
⊕ Vanguard Total Intl Bd Idx Investor	_	16.12	88.13	_	_
⊕ Vanguard Total Intl Stock Index Inv	-	11.85	99.98	-	-
	_	0.02	100.00	_	_

### Total Holdings 6



# Vanguard Value Index Adm VVIAX

# Portfolio Manager(s)

Gerard O'Reilly since 12-1994 Walter Neiman since 04-2016

#### Quantitative Screens

- Performance: The fund has finished in the Large Value category's top three quartiles in 10 of the 10 years it's been in existence.
- Management: The fund's management has been in place for 24.76 years.
- Style: The fund has landed in its primary style box Large Value — 100 % of the time over the past three years.
- Net Expense: The fund's expense ratio of 0.05 is 94.74% lower than the Large Value category average.

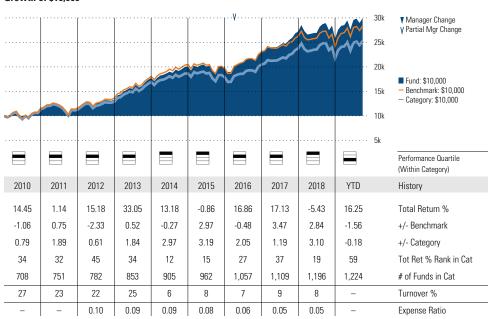
# **Morningstar Investment Management LLC Analysis**

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

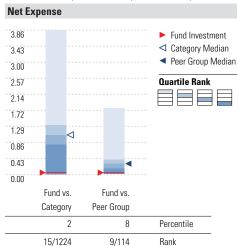


### Morningstar Index Russell 1000 Value TR USD

### Growth of \$10,000







3-1 car bisk intenies			
	Fund	Bmark	Cat
Alpha	1.97	_	0.11
Beta	0.99	_	0.99
R-Squared	98.89	_	93.32
Standard Deviation	12.24	12.34	12.62
Sharpe Ratio	0.82	0.66	0.66
Tracking Error	1.30	_	3.38
Information Ratio	1.55	_	0.01
Up Capture Ratio	105.87	_	98.55
Down Capture Ratio	94.91	_	98.00

Portfolio Metrics			
	Fund	Bmark	Cat
Price/Earnings Ratio	16.17	16.49	16.18
Price/Book Ratio	2.20	1.94	2.22
Geom Avg Mkt Cap \$B	85.59	58.19	107.83
ROE	19.29	14.48	20.08



# Vanguard Value Index Adm VVIAX

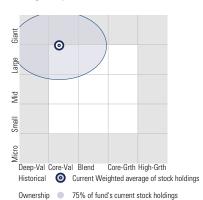
# **Morningstar Category** Large Value

Morningstar Index

Russell 1000 Value TR USD

# Style Analysis as of 09-30-2019

Morningstar Style Box™



# Style Breakdown

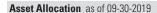
Equity

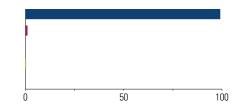
	36	2	Large
8	4	0	MIG
0	0	0	Small

Value Blend Growth

### Weight %

>50 25-50 10-25 0-10





Asset Class	Net %	Cat%
US Stocks	98.97	91.42
Non-US Stocks	0.87	5.85
Bonds	0.00	-0.15
Cash	0.16	2.28
Other	0.00	0.60
Total	100.00	100.00

		Fund	Bmark	Cat	Fund	4 .	Bench	mark	Categ	οηι Λιιο	rago			
_					Full		Dencii	IIIdIK	ll carea	UIY AVE	aye	1 0		,
<b>Դ</b>	Cyclical	32.32	41.55	36.55		,						-		
A	Basic Materials	2.36	3.99	3.23										
<b>A</b>	Consumer Cyclical	6.42	8.38	8.94			0			_ :				
æ	Financial Services	21.86	23.32	20.81						'				
ŵ	Real Estate	1.68	5.86	3.57							-			
W	Sensitive	30.68	29.42	34.74										
	Communication Services	4.41	5.32	5.24										
ð	Energy	7.29	8.43	8.53			١							
¢	Industrials	10.62	9.09	9.86		,								
	Technology	8.36	6.58	11.11							_:			
<b>—</b>	Defensive	36.99	29.04	28.72			-							
=	Consumer Defensive	12.10	9.73	9.81										
+	Healthcare	18.00	12.37	13.45										
•	Utilities	6.89	6.94	5.46										
					0%	5	10	15	20	25	30	35	40	4

<b>Top 15 Holdings</b> as of 09-30-2019				
Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Berkshire Hathaway Inc B	3.14	3.14	1.88	Financial Services
	2.76	5.90	23.02	Financial Services
→ Johnson & Johnson	2.64	8.54	2.43	Healthcare
Procter & Gamble Co	2.41	10.95	37.72	Consumer Defensive
⊕ Exxon Mobil Corp	2.31	13.26	7.30	Energy
	2.14	15.39	37.95	Communication Svc
→ Verizon Communications Inc	1.93	17.32	10.58	Communication Svc
→ Bank of America Corporation	1.89	19.21	20.33	Financial Services
⊕ The Walt Disney Co	1.81	21.02	19.65	Consumer Cyclical
	1.76	22.79	11.82	Technology
○ Chevron Corp	1.74	24.53	12.30	Energy
Merck & Co Inc	1.67	26.19	12.33	Healthcare
○ Cisco Systems Inc	1.63	27.83	16.41	Technology
⊖ Coca-Cola Co	1.62	29.45	17.51	Consumer Defensive
─ UnitedHealth Group Inc	1.59	31.04	-11.54	Healthcare

# Total Holdings 340

