

American Funds Capital World Gr&Inc R6 RWIGX

Morningstar Category
Global Large-Stock Blend

Morningstar Index
MSCI ACWI NR USD

Portfolio Manager(s)

Sung Lee since 02-2006
 Alfonso Barroso since 02-2007
 Michael Cohen since 11-2014
 Jin Lee since 02-2019
 Lara Pellini since 02-2019
 Leo Hee since 10-2019
 Jeremy Burge since 01-2020
 Renaud Samyn since 02-2020

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 16.92 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 0.42 is 57.58% lower than the Global Large-Stock Blend category average.

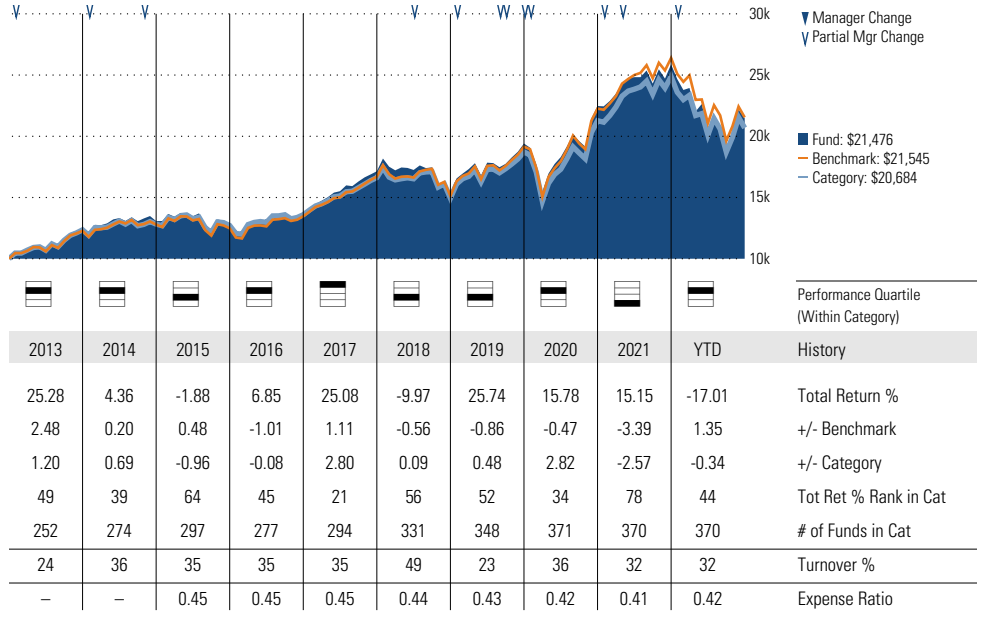
Morningstar Investment Management LLC Analysis

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

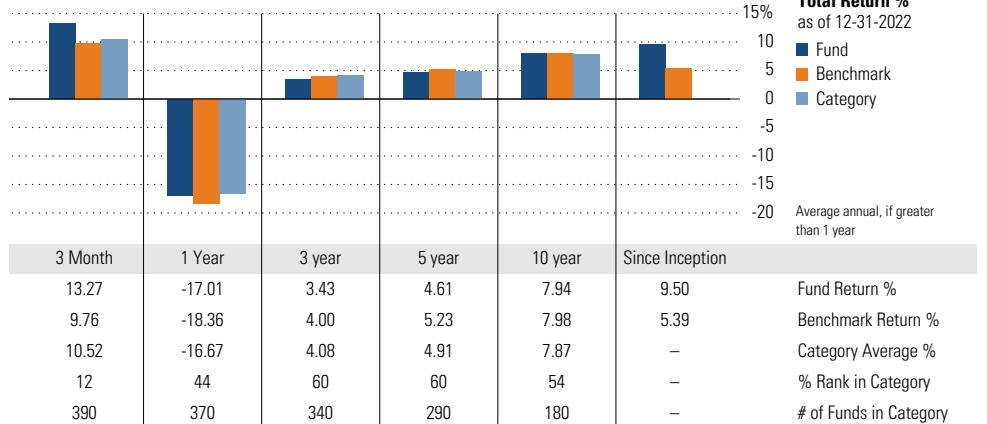
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	05-18-2022

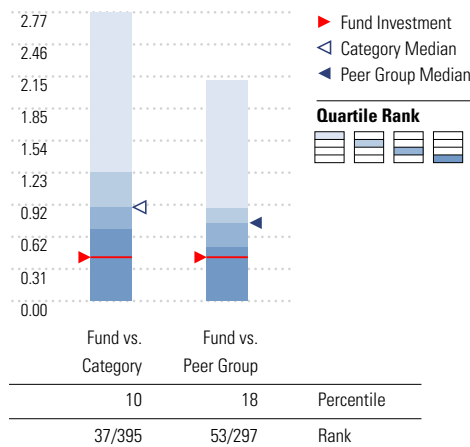
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.44	-	0.08
Beta	0.97	-	0.97
R-Squared	97.37	-	94.06
Standard Deviation	19.70	20.14	20.17
Sharpe Ratio	0.22	0.25	0.24
Tracking Error	3.27	-	4.85
Information Ratio	-0.18	-	-0.02
Up Capture Ratio	96.62	-	98.24
Down Capture Ratio	98.32	-	98.49

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	15.03	15.37	16.22
Price/Book Ratio	2.83	2.37	2.51
Geom Avg Mkt Cap \$B	88.68	87.09	70.43
ROE	25.67	25.56	24.69

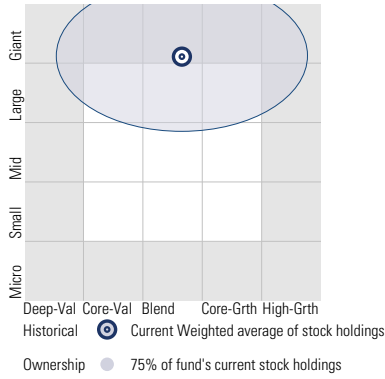
American Funds Capital World Gr&Inc R6 RWIGX

Morningstar Category
Global Large-Stock Blend

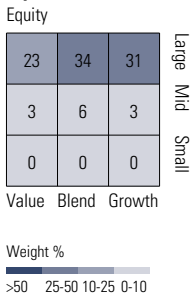
Morningstar Index
MSCI ACWI NR USD

Style Analysis as of 12-31-2022

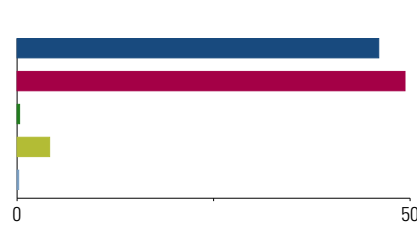
Morningstar Style Box™



Style Breakdown

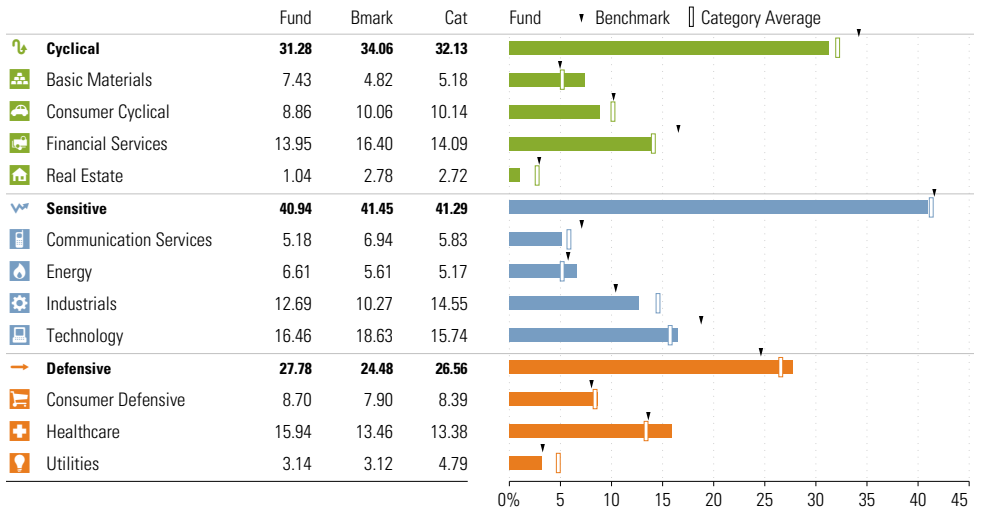


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	46.01	56.49
Non-US Stocks	49.35	38.12
Bonds	0.32	1.65
Cash	4.14	1.97
Other	0.20	1.77
Total	100.00	100.00

Sector Weighting as of 12-31-2022



World Regions % Equity 12-31-2022



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	18.25	13.25	Americas	56.46	63.73	Greater Europe	25.29	23.01	Developed Markets	91.05
Japan	6.19	5.32	North America	53.01	62.94	United Kingdom	6.07	6.10	Emerging Markets	8.95
Australasia	1.97	1.21	Central/Latin	3.45	0.79	W euro-ex UK	19.07	16.48	Not Available	0.00
Asia-4 Tigers	4.59	3.49				Emrgng Europe	0.00	0.03		
Asia-ex 4 Tigers	5.50	3.23				Africa	0.15	0.40		
Not Classified	0.00	0.00								

Top 10 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Broadcom Inc	2.96	2.96	-13.43	Technology
⊖ Microsoft Corp	2.79	5.75	-27.94	Technology
⊖ UnitedHealth Group Inc	2.30	8.05	6.86	Healthcare
⊖ Capital Group Central Cash Fund	2.19	10.24	—	—
⊖ Taiwan Semiconductor Manufacturing Co Ltd	2.03	12.27	-25.28	Technology
⊕ Philip Morris International Inc	1.82	14.09	11.84	Consumer Defensive
⊕ LVMH Moët Hennessy Louis Vuitton SE	1.71	15.80	-4.83	Consumer Cyclical
⊖ Vale SA	1.57	17.38	23.73	Basic Materials
⊖ Abbott Laboratories	1.54	18.91	-20.66	Healthcare
⊖ ASML Holding NV	1.52	20.43	-28.16	Technology

Total Holdings 357

⊕ Increase ⊖ Decrease ✱ New to Portfolio

American Funds Intl Gr and Inc R6 RIGGX

Morningstar Category
Foreign Large Blend

Morningstar Index
MSCI ACWI Ex USA NR USD

Portfolio Manager(s)

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

Quantitative Screens

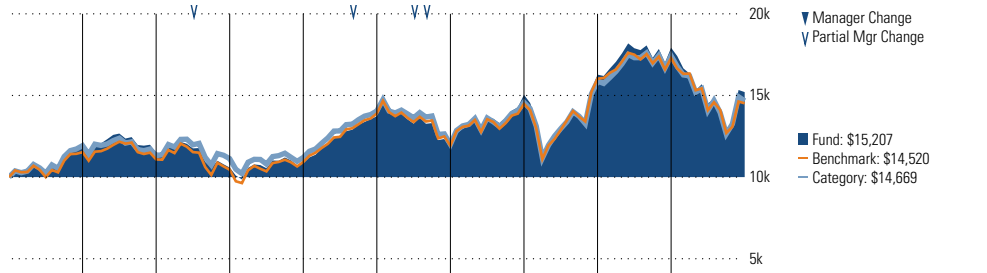
✔ **Performance:** The fund has finished in the Foreign Large Blend category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 14.26 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.54 is 39.33% lower than the Foreign Large Blend category average.

Growth of \$10,000



2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD	History
18.47	-2.92	-7.97	2.54	26.50	-14.10	27.54	8.20	10.12	-15.16	Total Return %
3.18	0.95	-2.31	-1.96	-0.69	0.10	6.03	-2.45	2.30	0.84	+/- Benchmark
-0.97	2.06	-6.38	1.75	1.38	0.49	5.95	-1.10	0.40	0.68	+/- Category
61	20	90	28	33	43	5	55	54	44	Tot Ret % Rank in Cat
816	742	789	774	788	787	819	834	815	763	# of Funds in Cat
37	-	25	37	37	27	35	35	23	34	Turnover %
-	-	0.58	0.58	0.58	0.57	0.57	0.54	0.54	0.53	Expense Ratio

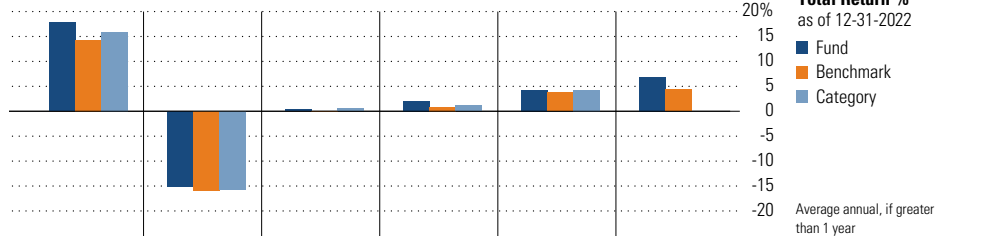
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ESG Metrics

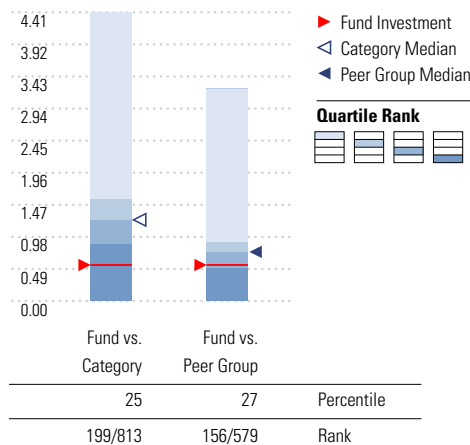
Metric	Rating	Updated
Sustainability Rating	2	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

Trailing Performance



3 Month	1 Year	3 year	5 year	10 year	Since Inception	
17.85	-15.16	0.36	2.06	4.28	6.83	Fund Return %
14.28	-16.00	0.07	0.88	3.80	4.35	Benchmark Return %
15.95	-15.84	0.55	1.15	4.26	-	Category Average %
25	44	56	22	48	-	% Rank in Category
791	763	723	630	440	-	# of Funds in Category

Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.52	-	0.80
Beta	1.08	-	1.03
R-Squared	96.75	-	94.10
Standard Deviation	21.51	19.53	20.67
Sharpe Ratio	0.08	0.06	0.09
Tracking Error	4.20	-	5.04
Information Ratio	0.07	-	0.14
Up Capture Ratio	109.15	-	106.74
Down Capture Ratio	107.66	-	104.08

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	13.31	11.94	12.68
Price/Book Ratio	1.71	1.58	1.72
Geom Avg Mkt Cap \$B	45.50	39.70	47.23
ROE	20.43	18.39	20.83

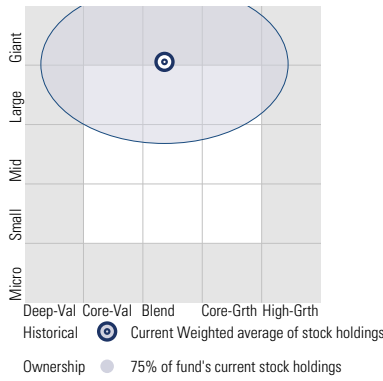
American Funds Intl Gr and Inc R6 RIGGX

Morningstar Category
Foreign Large Blend

Morningstar Index
MSCI ACWI Ex USA NR USD

Style Analysis as of 12-31-2022

Morningstar Style Box™



Style Breakdown



Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	5.76	2.74
Non-US Stocks	91.84	94.64
Bonds	0.08	0.21
Cash	2.33	1.20
Other	0.00	1.19
Total	100.00	100.00

Sector Weighting as of 12-31-2022



World Regions % Equity 12-31-2022



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	28.83	35.26	Americas	14.47	8.84	Greater Europe	56.70	55.90	Developed Markets	85.71
Japan	7.43	18.06	North America	10.14	7.61	United Kingdom	14.34	13.78	Emerging Markets	14.29
Australasia	0.44	5.40	Central/Latin	4.33	1.23	W euro-ex UK	41.28	40.87	Not Available	0.00
Asia-4 Tigers	11.63	6.66				Emrgng Europe	0.32	0.06		
Asia-ex 4 Tigers	9.33	5.14				Africa	0.76	1.19		
Not Classified	0.00	0.00								

Top 10 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊕ AstraZeneca PLC	3.49	3.49	25.11	Healthcare
⊖ Capital Group Central Cash M	2.57	6.06	-	-
⊖ British American Tobacco PLC	2.56	8.62	28.91	Consumer Defensive
⊖ Taiwan Semiconductor Manufacturing Co Ltd	2.52	11.14	-25.28	Technology
⊕ Novo Nordisk A/S Class B	2.24	13.37	29.55	Healthcare
⊕ Philip Morris International Inc	2.20	15.57	11.84	Consumer Defensive
Airbus SE	2.03	17.60	0.80	Industrials
⊕ ASML Holding NV	1.97	19.57	-28.16	Technology
⊕ TotalEnergies SE	1.85	21.42	39.64	Energy
⊕ AIA Group Ltd	1.49	22.91	17.53	Financial Services

Total Holdings 254

⊕ Increase ⊖ Decrease ✱ New to Portfolio

Baird Core Plus Bond Inst BCOIX

Morningstar Category
Intermediate Core-Plus Bond

Morningstar Index
Bloomberg US Agg Bond TR USD

Portfolio Manager(s)

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

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 22.27 years.

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.3 is 59.46% lower than the Intermediate Core-Plus Bond category average.

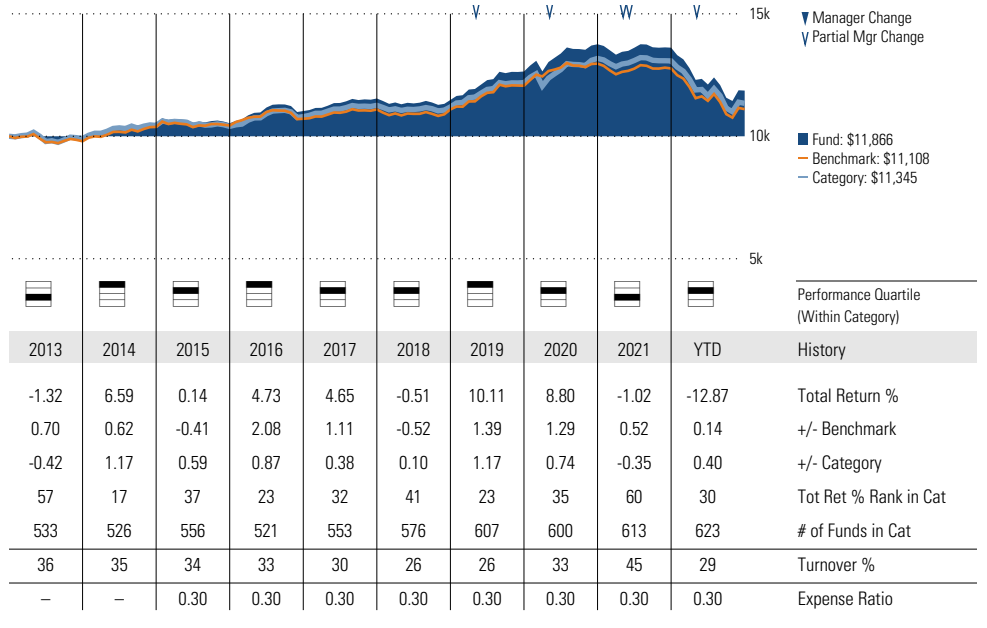
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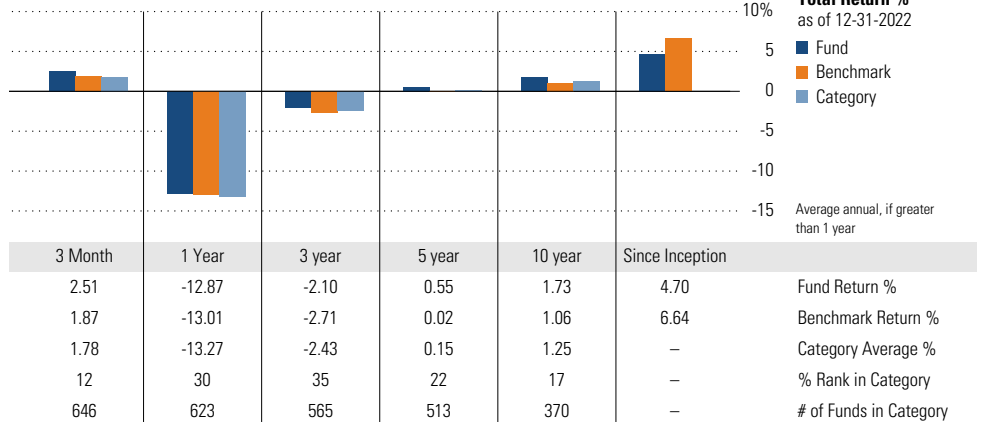
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023
ESG Commitment	1-Low	02-15-2022

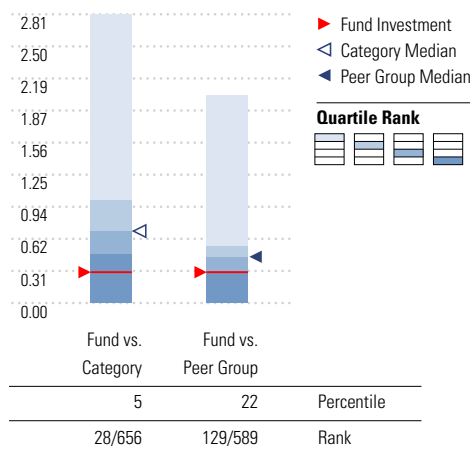
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.76	-	0.42
Beta	1.04	-	1.04
R-Squared	90.69	-	80.21
Standard Deviation	6.39	5.85	6.92
Sharpe Ratio	-0.43	-0.58	-0.46
Tracking Error	1.97	-	3.09
Information Ratio	0.31	-	0.09
Up Capture Ratio	116.64	-	116.52
Down Capture Ratio	104.56	-	108.79

Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	5.96	4.43	6.10
Avg Eff Maturity	8.06	-	8.51

Baird Core Plus Bond Inst BCOIX

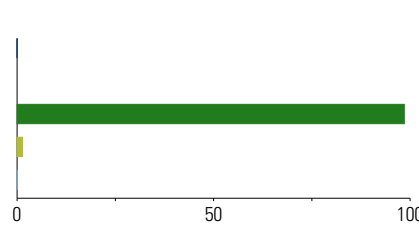
Morningstar Category Intermediate Core-Plus Bond
Morningstar Index Bloomberg US Agg Bond TR USD

Style Analysis as of 12-31-2022

Style Breakdown



Asset Allocation as of 12-31-2022

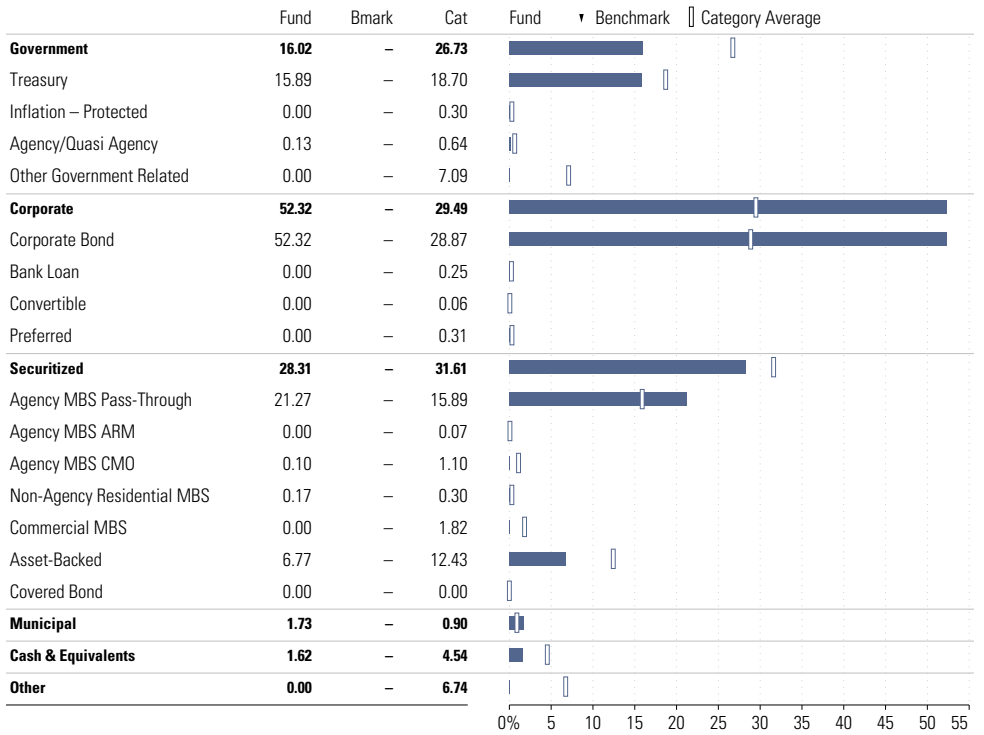


Asset Class	Net %	Cat%
US Stocks	0.01	0.02
Non-US Stocks	0.00	0.00
Bonds	98.52	103.83
Cash	1.40	-1.93
Other	0.06	-1.94
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	47.00	3.53	49.80
AA	3.90	74.59	5.85
A	12.70	10.82	11.84
BBB	32.50	8.32	19.67
BB	3.10	0.28	5.52
B	0.20	0.00	2.31
Below B	0.10	0.00	1.04
Not Rated	0.50	2.46	3.97

Sector Weighting as of 12-31-2022



Top 10 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
United States Treasury Bonds 2.5%	02-2045	3.29	3.29	-
⊖ United States Treasury Bonds 2.88%	05-2043	2.61	5.90	-
United States Treasury Bonds 1.38%	11-2040	1.35	7.25	-
⊖ First American Government Obligs U	02-2030	1.14	8.39	-
⊕ United States Treasury Notes 2.88%	05-2032	1.07	9.46	-
⊖ United States Treasury Notes 1.13%	08-2028	1.02	10.48	-
⊖ United States Treasury Notes 2%	11-2026	1.00	11.47	-
⊕ United States Treasury Notes 2.38%	03-2029	0.69	12.16	-
⊖ United States Treasury Notes 2.25%	11-2027	0.65	12.82	-
⊕ United States Treasury Bonds 1.38%	08-2050	0.53	13.35	-

Total Holdings 1434

⊕ Increase ⊖ Decrease ✱ New to Portfolio

BlackRock High Yield Bond K BRHYX

Morningstar Category
High Yield Bond

Morningstar Index
ICE BofA US High Yield TR USD

Portfolio Manager(s)

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

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 15.01 years.

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.49 is 44.94% lower than the High Yield Bond category average.

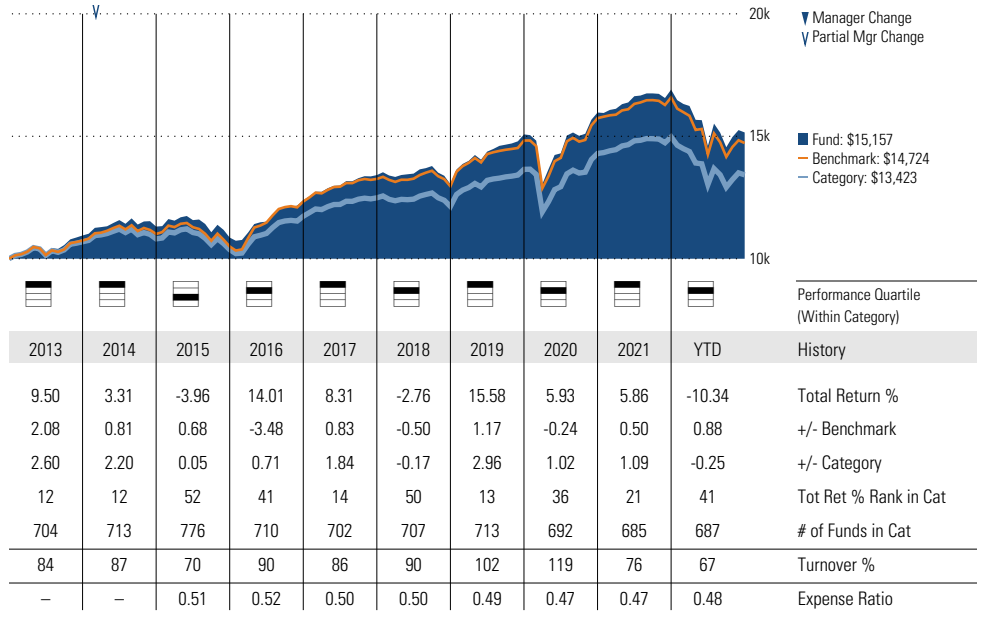
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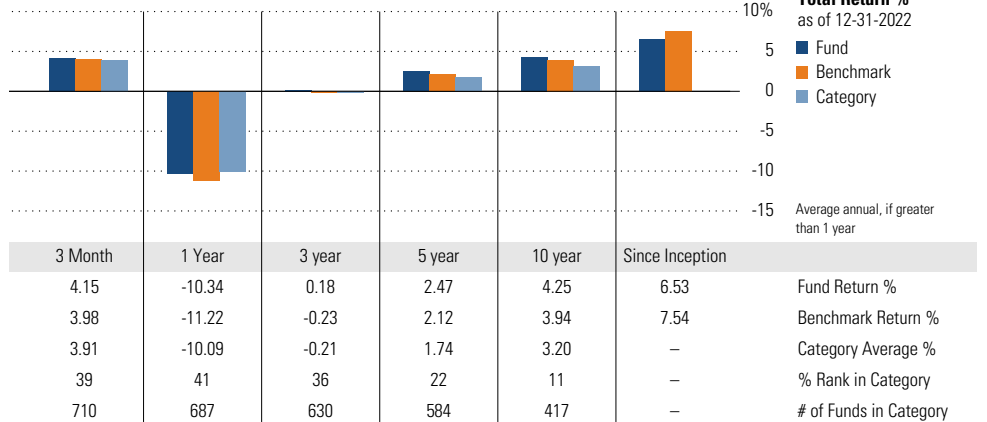
ESG Metrics

Metric	Rating	Updated
ESG Commitment	2-Basic	02-15-2022

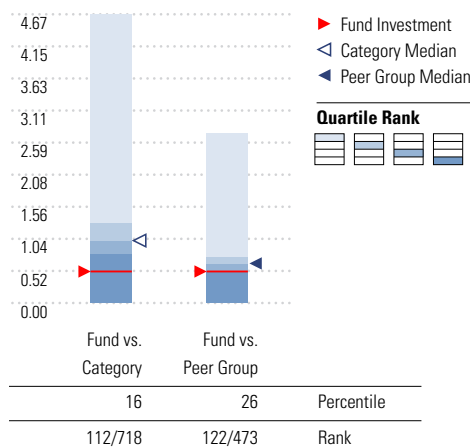
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.42	-	-0.09
Beta	1.01	-	0.94
R-Squared	99.42	-	94.99
Standard Deviation	11.37	11.25	10.89
Sharpe Ratio	0.00	-0.04	-0.04
Tracking Error	0.87	-	2.51
Information Ratio	0.47	-	-0.11
Up Capture Ratio	100.19	-	92.06
Down Capture Ratio	97.09	-	93.01

Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	0.02	-	3.39
Avg Eff Maturity	4.10	-	4.98

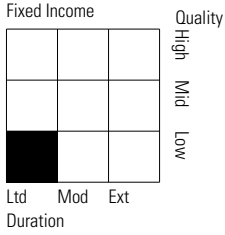
BlackRock High Yield Bond K BRHYX

Morningstar Category
High Yield Bond

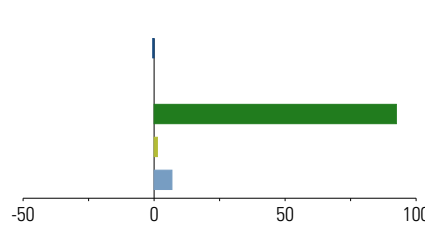
Morningstar Index
ICE BofA US High Yield TR USD

Style Analysis as of 12-31-2022

Style Breakdown



Asset Allocation as of 12-31-2022

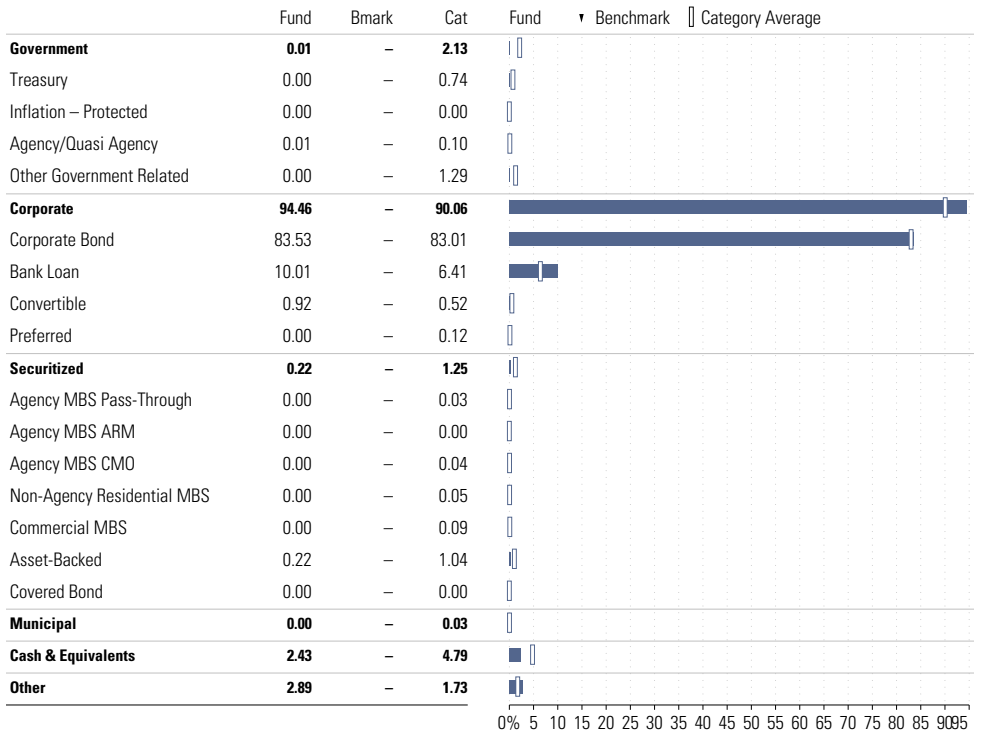


Asset Class	Net %	Cat%
US Stocks	-0.52	0.73
Non-US Stocks	0.00	0.01
Bonds	92.46	93.67
Cash	1.25	1.76
Other	6.81	3.83
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	0.00	-	2.58
AA	0.00	-	0.16
A	1.00	-	0.28
BBB	14.00	-	5.54
BB	33.53	-	38.26
B	47.46	-	37.21
Below B	0.00	-	12.21
Not Rated	4.00	-	3.75

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✱ New to Portfolio

Columbia Contrarian Core Inst3 COFYX

Morningstar Category
Large Blend

Morningstar Index
S&P 500 TR USD

Portfolio Manager(s)

Guy Pope since 03-2005

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 17.76 years.

✔ **Style:** The fund has landed in its primary style box — Large Blend — 87.88 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.6 is 22.08% lower than the Large Blend category average.

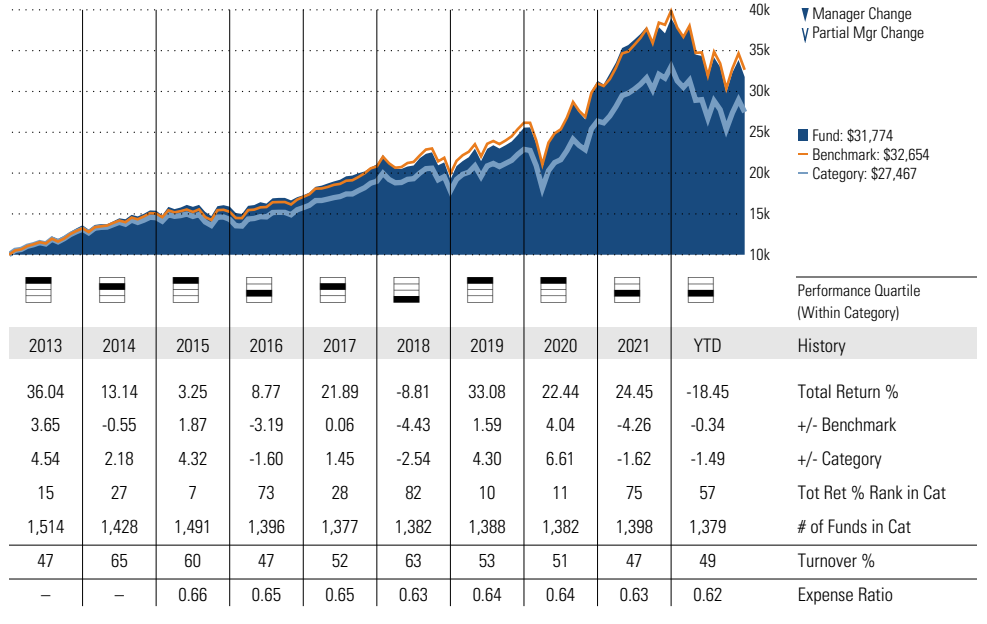
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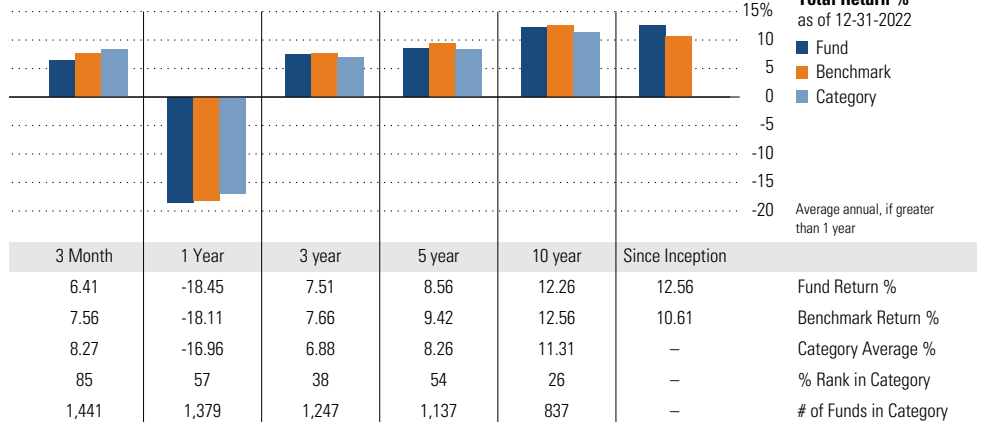
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	03-11-2022

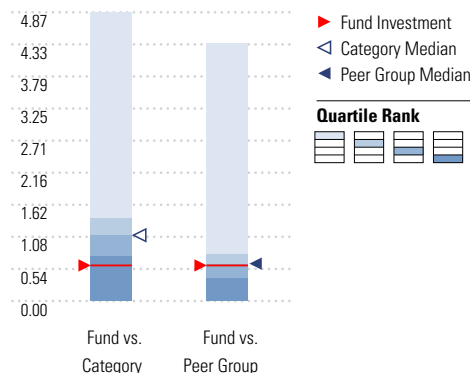
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.03	-	-0.68
Beta	0.98	-	0.96
R-Squared	98.20	-	95.98
Standard Deviation	21.01	21.16	20.73
Sharpe Ratio	0.41	0.41	0.36
Tracking Error	2.84	-	3.95
Information Ratio	-0.05	-	-0.83
Up Capture Ratio	97.92	-	94.55
Down Capture Ratio	97.99	-	96.96

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	22.69	19.03	18.29
Price/Book Ratio	3.54	3.59	4.14
Geom Avg Mkt Cap \$B	187.65	161.22	211.02
ROE	25.45	31.17	36.63

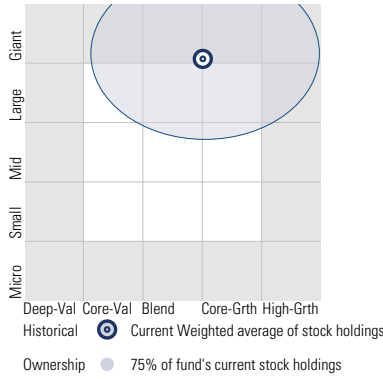
Columbia Contrarian Core Inst3 COFYX

Morningstar Category
Large Blend

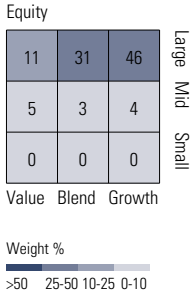
Morningstar Index
S&P 500 TR USD

Style Analysis as of 12-31-2022

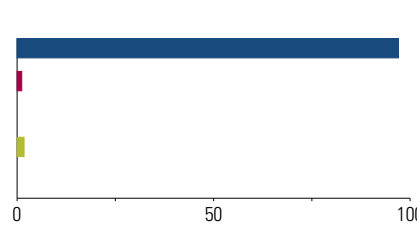
Morningstar Style Box™



Style Breakdown



Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	97.05	94.79
Non-US Stocks	1.18	2.81
Bonds	0.00	0.84
Cash	1.77	0.45
Other	0.00	1.10
Total	100.00	100.00

Sector Weighting as of 12-31-2022

	Fund	Bmark	Cat	Fund	Benchmark	Category Average
Cyclical	25.10	28.72	29.35			
Basic Materials	2.57	2.46	2.84			
Consumer Cyclical	6.73	9.56	9.83			
Financial Services	14.19	13.89	14.27			
Real Estate	1.61	2.81	2.41			
Sensitive	48.70	44.59	44.38			
Communication Services	11.07	7.28	7.09			
Energy	5.48	5.23	4.38			
Industrials	6.96	9.06	10.44			
Technology	25.19	23.02	22.47			
Defensive	26.20	26.69	26.28			
Consumer Defensive	7.48	7.61	7.43			
Healthcare	15.84	15.90	16.05			
Utilities	2.88	3.18	2.80			

Top 15 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Microsoft Corp	6.49	6.49	-27.94	Technology
Apple Inc	5.29	11.79	-26.32	Technology
Johnson & Johnson	3.62	15.41	5.86	Healthcare
Berkshire Hathaway Inc Class B	3.24	18.65	3.31	Financial Services
Amazon.com Inc	2.90	21.55	-49.62	Consumer Cyclical
Chevron Corp	2.71	24.26	57.79	Energy
Procter & Gamble Co	2.70	26.96	-5.14	Consumer Defensive
Eli Lilly and Co	2.34	29.30	33.86	Healthcare
Raytheon Technologies Corp	2.18	31.47	19.78	Industrials
Wells Fargo & Co	1.94	33.41	-11.65	Financial Services
Columbia Short-Term Cash	1.77	35.18	-	-
Mondelez International Inc Class A	1.76	36.94	2.73	Consumer Defensive
Visa Inc Class A	1.71	38.66	-3.40	Financial Services
Adobe Inc	1.70	40.35	-40.65	Technology
Mastercard Inc Class A	1.68	42.03	-2.68	Financial Services

Total Holdings 76

⊕ Increase ⊖ Decrease ✨ New to Portfolio

DFA Emerging Markets I DFEMX

Morningstar Category
Diversified Emerging Mkts

Morningstar Index
MSCI EM NR USD

Portfolio Manager(s)

Jed Fogdall since 02-2010
Ethan Wren since 02-2020
Allen Pu since 02-2020

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 12.85 years.

✔ **Style:** The fund has landed in its primary style box — Large Blend — 84.85 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.36 is 68.7% lower than the Diversified Emerging Mkts category average.

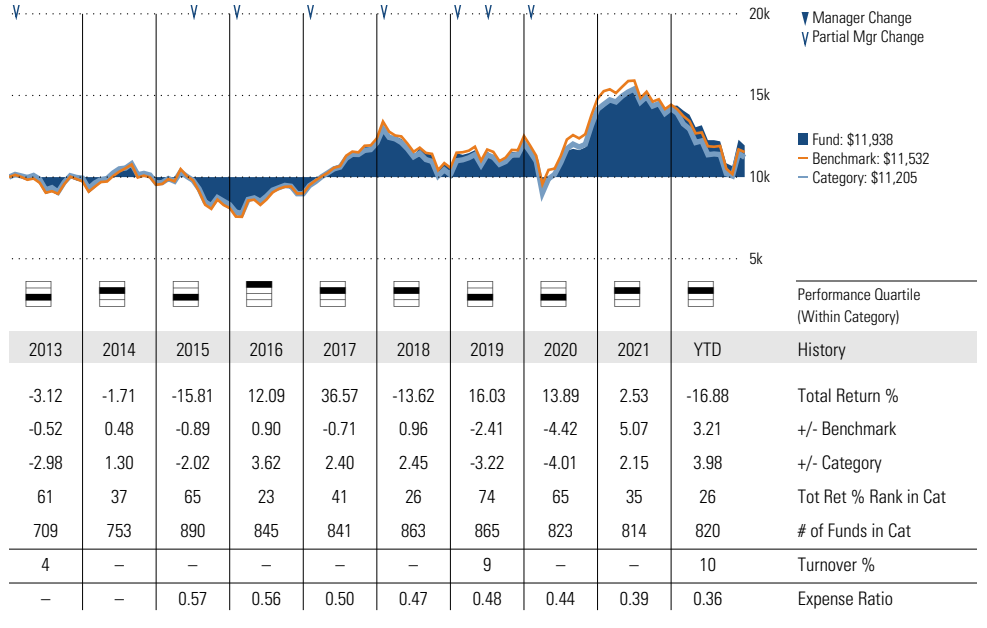
Morningstar Investment Management LLC Analysis

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

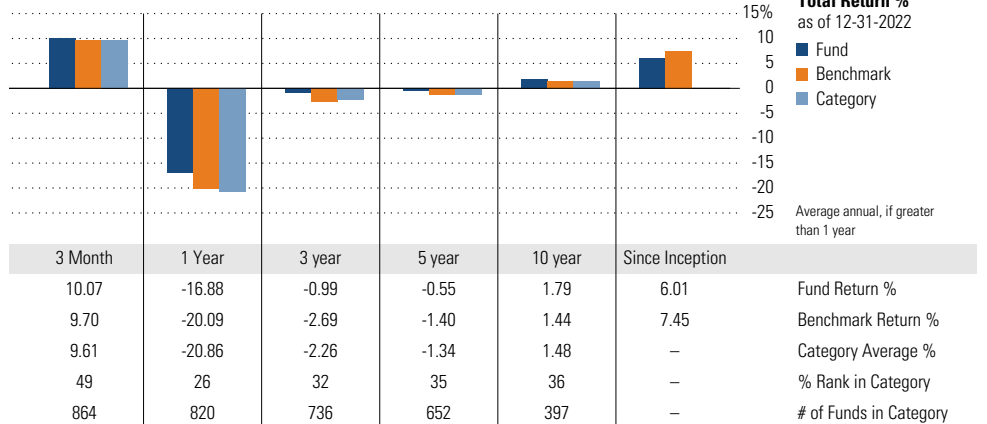
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	01-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

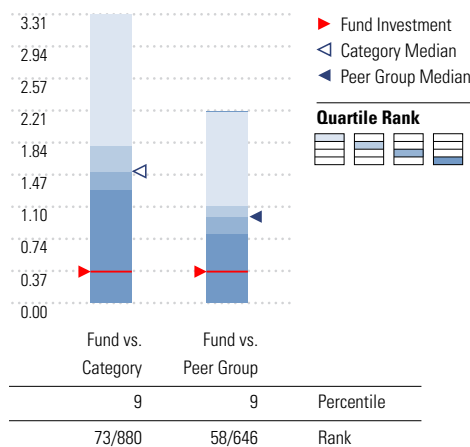
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	1.94	-	0.18
Beta	1.02	-	1.00
R-Squared	97.03	-	88.98
Standard Deviation	21.34	20.55	21.86
Sharpe Ratio	0.02	-0.07	-0.06
Tracking Error	3.71	-	7.01
Information Ratio	0.46	-	-0.06
Up Capture Ratio	101.20	-	102.04
Down Capture Ratio	94.85	-	102.20

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	9.33	10.62	11.64
Price/Book Ratio	1.41	1.56	1.80
Geom Avg Mkt Cap \$B	21.87	33.24	38.67
ROE	18.89	17.19	18.44

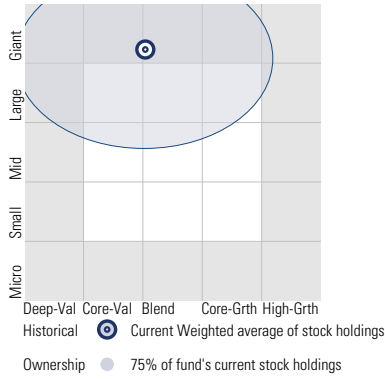
DFA Emerging Markets I DFEMX

Morningstar Category
Diversified Emerging Mkts

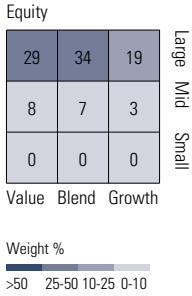
Morningstar Index
MSCI EM NR USD

Style Analysis as of 12-31-2022

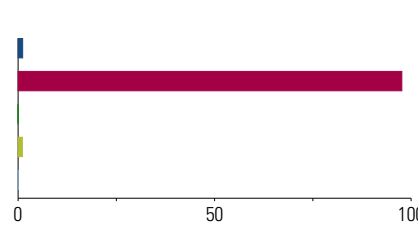
Morningstar Style Box™



Style Breakdown

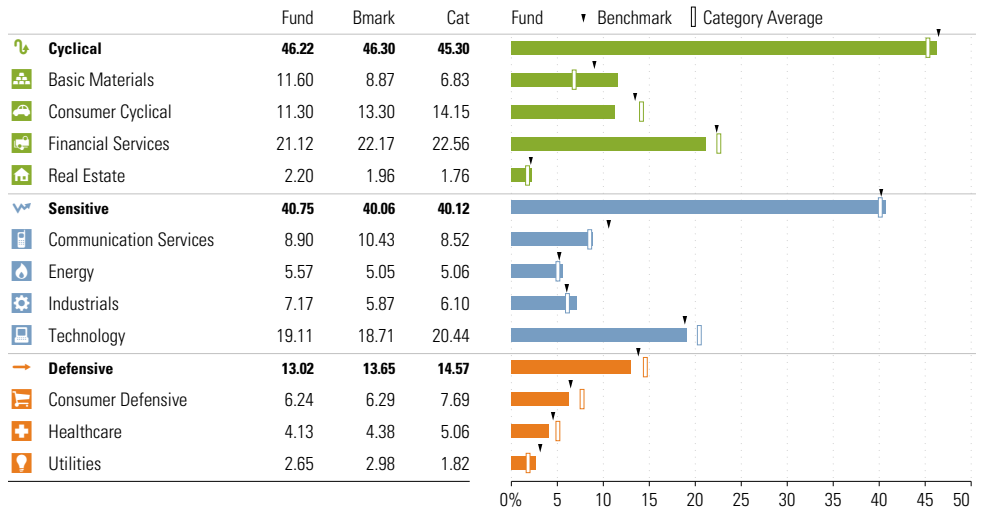


Asset Allocation as of 12-31-2022

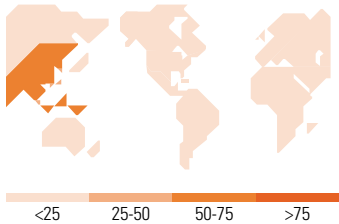


Asset Class	Net %	Cat%
US Stocks	1.16	3.20
Non-US Stocks	97.64	94.72
Bonds	0.01	0.03
Cash	1.08	1.92
Other	0.10	0.14
Total	100.00	100.00

Sector Weighting as of 12-31-2022



World Regions % Equity 12-31-2022



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	79.82	74.74	Americas	8.03	14.72	Greater Europe	12.15	10.53	Developed Markets	30.95
Japan	0.00	0.09	North America	0.08	3.11	United Kingdom	0.00	0.66	Emerging Markets	69.05
Australasia	0.00	0.05	Central/Latin	7.95	11.61	W euro-ex UK	0.39	1.79	Not Available	0.00
Asia-4 Tigers	28.20	24.78				Emrgng Europe	1.95	1.33		
Asia-ex 4 Tigers	51.62	49.82				Africa	9.81	6.75		
Not Classified	0.00	0.00								

Top 0 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Total Holdings 0				

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Invesco Balanced-Risk Commodity Strat R6 IBRFX

Morningstar Category
Commodities Broad Basket

Morningstar Index
Bloomberg Commodity TR USD

Portfolio Manager(s)

Chris Devine since 11-2010
Christian Ulrich since 11-2010
Mark Ahnrud since 11-2010
Scott Hixon since 11-2010
Scott Wolle since 11-2010

Quantitative Screens

✗ **Performance:** The fund has finished in the Commodities Broad Basket category's top three quartiles in 6 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 12.09 years.

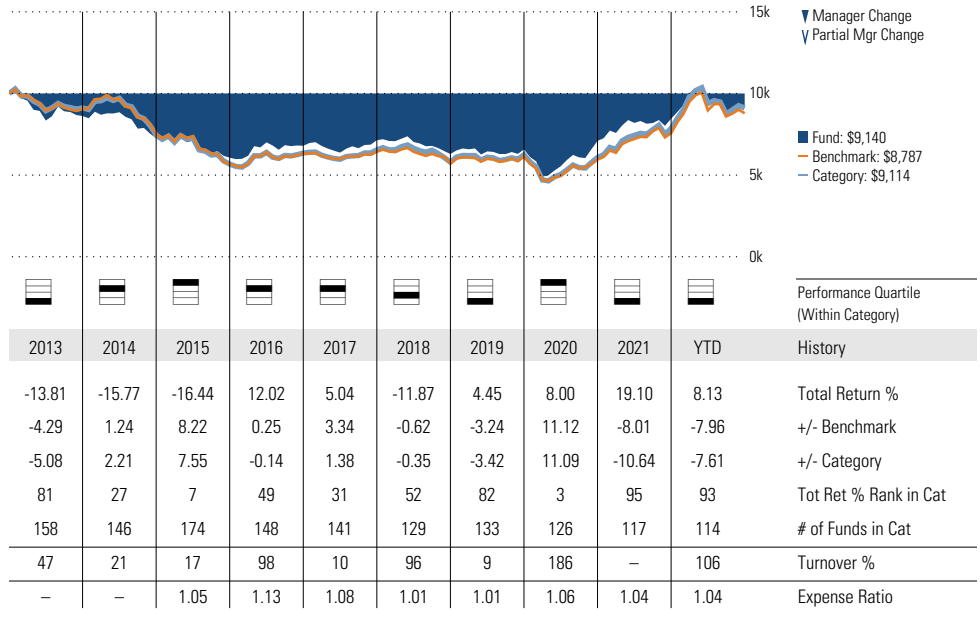
Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 1.11 is 5.71% higher than the Commodities Broad Basket category average.

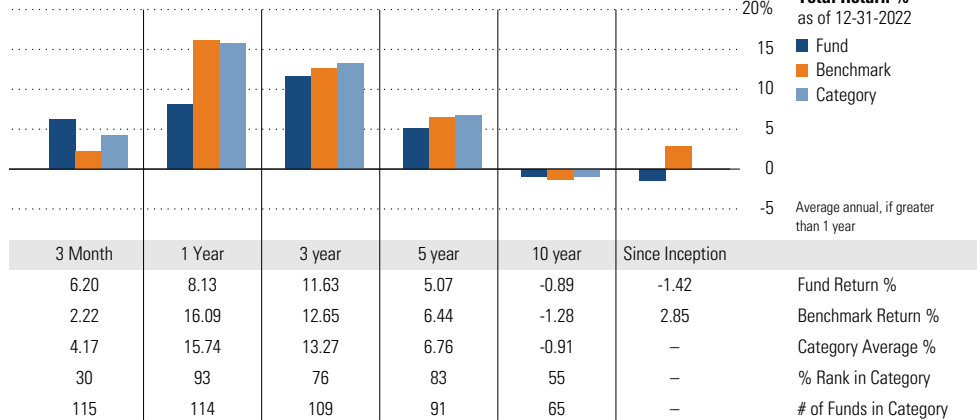
Morningstar Investment Management LLC Analysis

Invesco Balanced-Risk Commodity Strategy has lagged competitors significantly during the commodity resurgence of the past year. That is to be expected given the relatively limited energy exposure that is consistent with the fund's strategy. However, relative results have been worse than we would expect even allowing for a sizable energy underweight. We are placing the fund on watch while we observe how it progresses and assess the fund's ability to get back to results that are consistent with expectations.

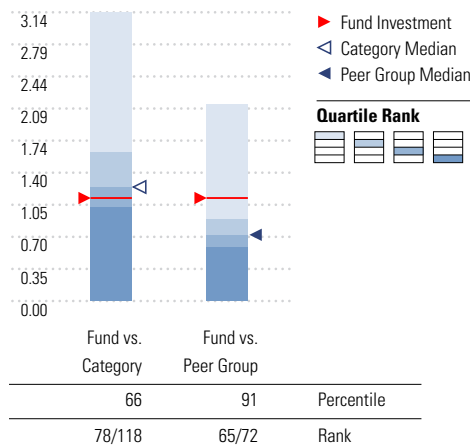
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.85	-	0.33
Beta	0.86	-	1.03
R-Squared	79.73	-	85.73
Standard Deviation	18.02	18.64	21.05
Sharpe Ratio	0.65	0.69	0.67
Tracking Error	8.50	-	7.78
Information Ratio	-0.12	-	0.09
Up Capture Ratio	87.07	-	102.74
Down Capture Ratio	84.84	-	103.18

Portfolio Metrics

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

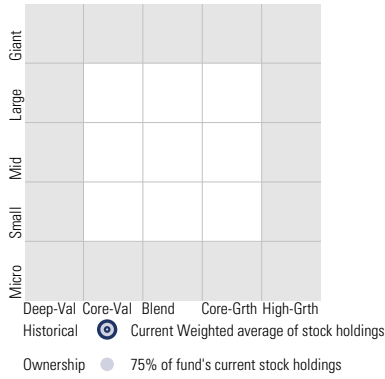
Invesco Balanced-Risk Commodity Strat R6 IBRFX

Morningstar Category
Commodities Broad Basket

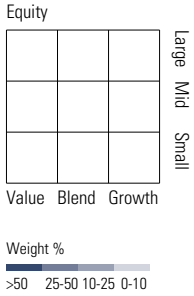
Morningstar Index
Bloomberg Commodity TR USD

Style Analysis as of 12-31-2022

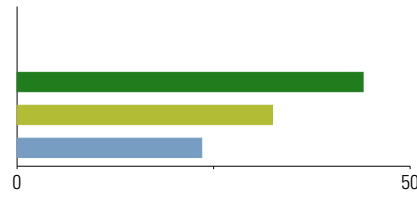
Morningstar Style Box™



Style Breakdown

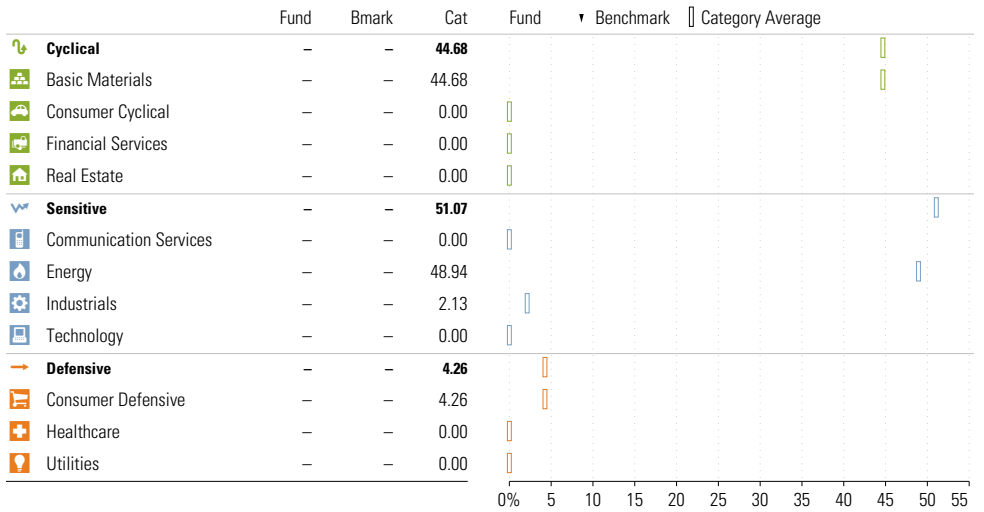


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	0.00	0.15
Non-US Stocks	0.00	0.92
Bonds	44.02	33.75
Cash	32.49	47.21
Other	23.49	17.97
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Invesco Equity and Income R6 IEIFX

Morningstar Category
Allocation--70% to 85%
Equity

Morningstar Index
Morningstar US Mod Agg Tgt Alloc NR
USD

Portfolio Manager(s)

Sergio Marcheli since 04-2003
Charles Burge since 02-2010
Brian Jurkash since 12-2015
Matthew Titus since 01-2016

Quantitative Screens

✔ **Performance:** The fund has finished in the Allocation--70% to 85% Equity category's top three quartiles in 8 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 19.68 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 0.42 is 58% lower than the Allocation--70% to 85% Equity category average.

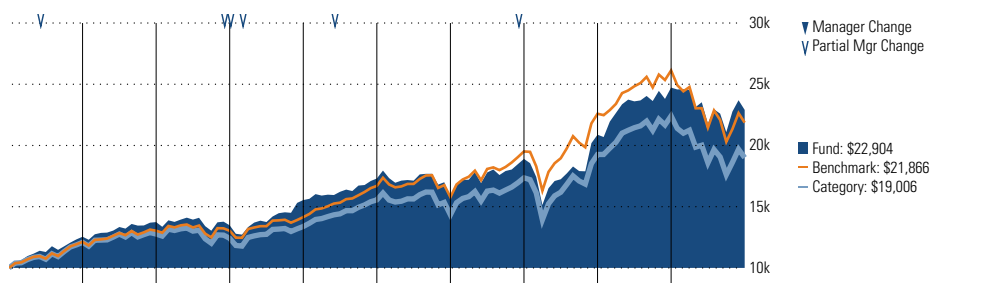
Morningstar Investment Management LLC Analysis

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

ESG Metrics

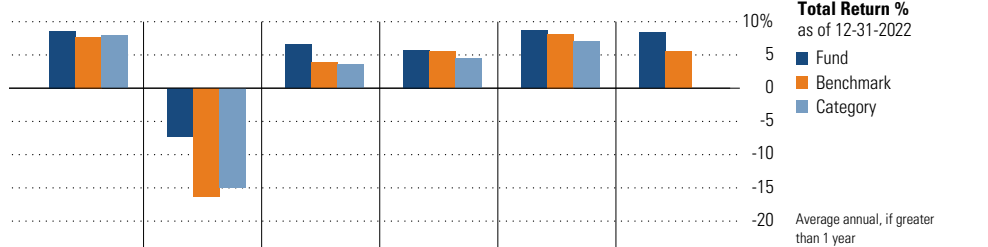
Metric	Rating	Updated
Sustainability Rating	2	01-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

Growth of \$10,000



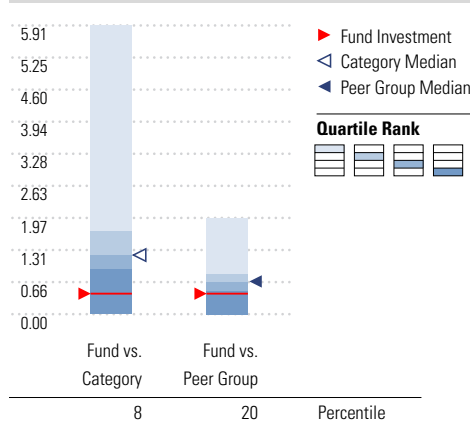
	2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD	History
Performance Quartile (Within Category)	III	III	III	III	III	III	III	III	III	III	History
Total Return %	25.48	9.52	-1.93	15.32	11.34	-9.29	20.44	10.45	18.43	-7.37	Total Return %
+/- Benchmark	4.21	2.02	-1.90	6.76	-6.69	-3.76	-3.23	-5.33	2.78	8.94	+/- Benchmark
+/- Category	4.17	3.81	0.84	7.39	-4.46	-1.36	-0.91	-3.06	1.93	7.59	+/- Category
Tot Ret % Rank in Cat	13	14	64	4	78	93	31	64	10	10	Tot Ret % Rank in Cat
# of Funds in Cat	406	396	415	368	341	345	333	323	328	322	# of Funds in Cat
Turnover %	26	60	69	93	94	129	138	133	127	-	Turnover %
Expense Ratio	-	-	0.37	0.37	0.38	0.38	0.38	0.38	0.39	0.41	Expense Ratio

Trailing Performance



	3 Month	1 Year	3 year	5 year	10 year	Since Inception	
Fund Return %	8.63	-7.37	6.61	5.77	8.64	8.41	Fund Return %
Benchmark Return %	7.72	-16.31	3.87	5.54	8.14	5.51	Benchmark Return %
Category Average %	7.88	-14.96	3.58	4.51	7.01	-	Category Average %
% Rank in Category	28	10	8	20	9	-	% Rank in Category
# of Funds in Category	328	322	296	279	224	-	# of Funds in Category

Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	2.88	-	-0.36
Beta	0.96	-	1.00
R-Squared	88.03	-	95.37
Standard Deviation	17.09	16.69	17.17
Sharpe Ratio	0.41	0.26	0.23
Tracking Error	5.95	-	3.53
Information Ratio	0.46	-	-0.19
Up Capture Ratio	98.59	-	99.82
Down Capture Ratio	86.54	-	101.74

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	13.57	15.67	15.37
Price/Book Ratio	2.16	2.45	2.44
Avg Eff Duration	5.41	6.45	5.64

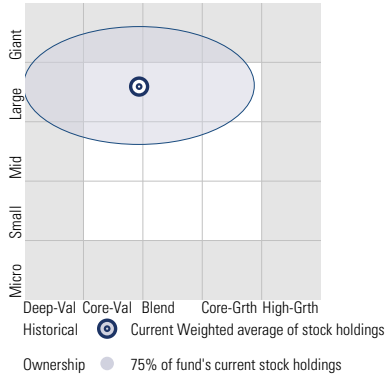
Invesco Equity and Income R6 IEIFX

Morningstar Category
Allocation--70% to 85%
Equity

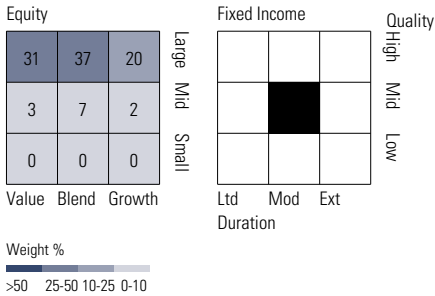
Morningstar Index
Morningstar US Mod Agg Tgt Alloc NR
USD

Style Analysis as of 12-31-2022

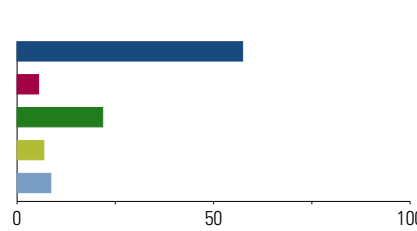
Morningstar Style Box™



Style Breakdown



Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	57.39	56.68
Non-US Stocks	5.47	17.64
Bonds	21.78	14.51
Cash	6.80	5.13
Other	8.57	6.03
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Invesco Global Real Estate R6 FGREX

Morningstar Category
Global Real Estate

Morningstar Index
S&P Global REIT TR USD

Portfolio Manager(s)

Ping-Ying Wang since 11-2006
James Cowen since 05-2008
Darin Turner since 04-2010
Grant Jackson since 06-2018
Charles (Chip) McKinley since 01-2022

Quantitative Screens

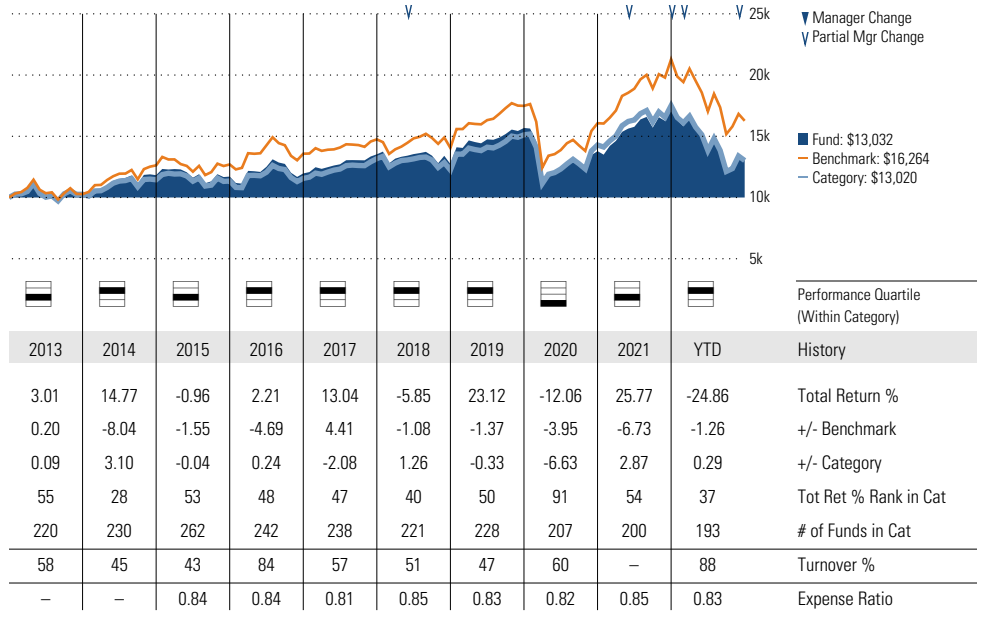
✔ **Performance:** The fund has finished in the Global Real Estate category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 16.13 years.

✔ **Style:** The fund has landed in its primary style box — Mid-Cap Blend — 86.36 % of the time over the past three years.

✔ **Net Expense:** The fund's expense ratio of 0.83 is 27.83% lower than the Global Real Estate category average.

Growth of \$10,000



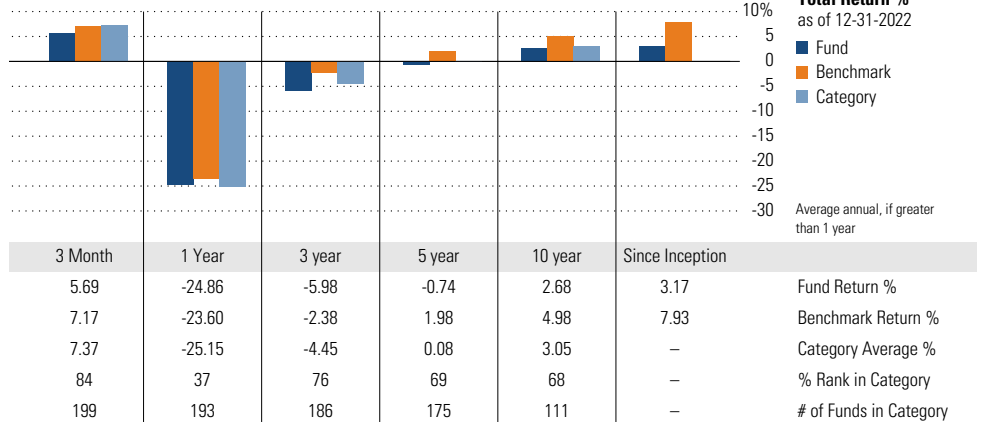
Morningstar Investment Management LLC Analysis

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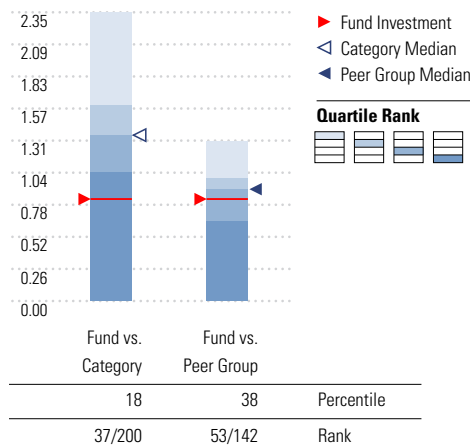
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022

Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-4.14	-	-1.96
Beta	0.91	-	0.91
R-Squared	97.09	-	95.38
Standard Deviation	21.64	23.55	22.01
Sharpe Ratio	-0.21	-0.02	-0.11
Tracking Error	4.31	-	4.99
Information Ratio	-0.84	-	-0.32
Up Capture Ratio	84.82	-	90.16
Down Capture Ratio	97.62	-	96.06

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	16.78	15.19	12.77
Price/Book Ratio	1.24	1.44	1.16
Geom Avg Mkt Cap \$B	13.03	10.49	12.16
ROE	8.76	13.67	11.96

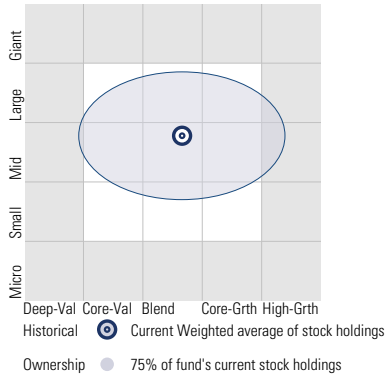
Invesco Global Real Estate R6 FGREX

Morningstar Category
Global Real Estate

Morningstar Index
S&P Global REIT TR USD

Style Analysis as of 12-31-2022

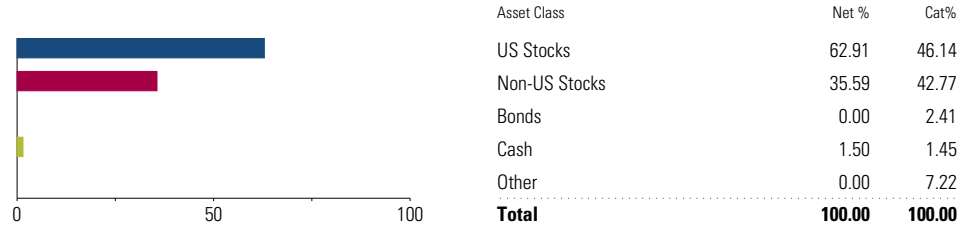
Morningstar Style Box™



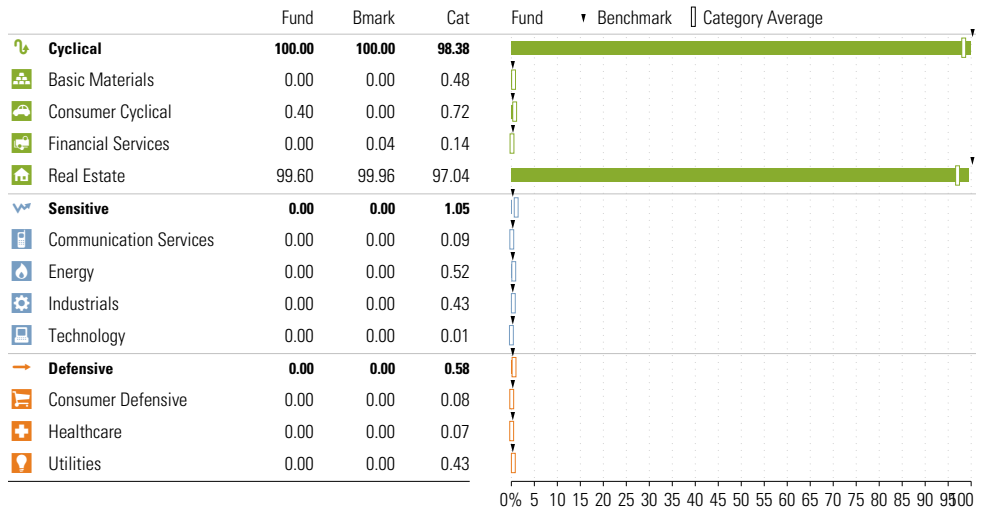
Style Breakdown



Asset Allocation as of 12-31-2022



Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
------	-------------	--------------	--------------	--------------------

Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Invesco Growth and Income R6 GIFFX

Morningstar Category
Large Value

Morningstar Index
Russell 1000 Value TR USD

Portfolio Manager(s)

Sergio Marcheli since 03-2003
Brian Jurkash since 12-2015
Matthew Titus since 01-2016

Quantitative Screens

✔ **Performance:** The fund has finished in the 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 19.85 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 0.41 is 54.44% lower than the Large Value category average.

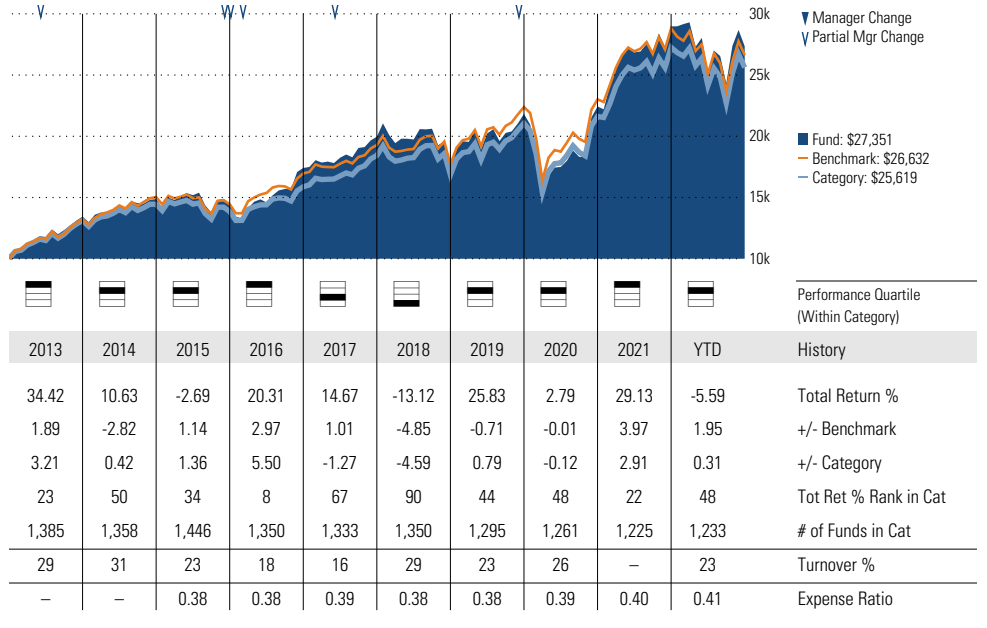
Morningstar Investment Management LLC Analysis

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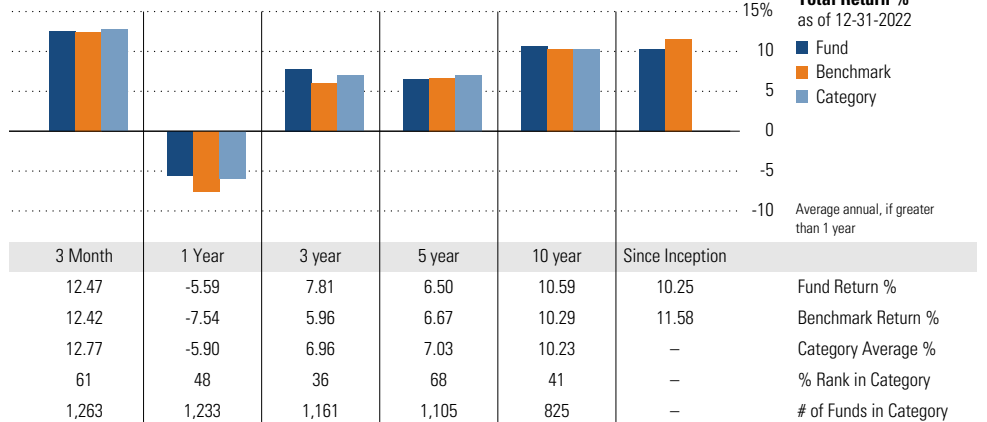
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	01-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

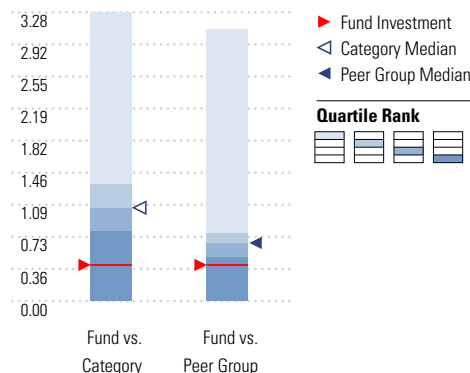
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	1.48	-	1.13
Beta	1.11	-	0.98
R-Squared	96.78	-	95.78
Standard Deviation	24.39	21.55	21.69
Sharpe Ratio	0.39	0.34	0.38
Tracking Error	5.01	-	4.67
Information Ratio	0.37	-	0.24
Up Capture Ratio	106.90	-	99.43
Down Capture Ratio	101.60	-	95.85

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	13.61	15.09	13.78
Price/Book Ratio	2.17	2.25	2.38
Geom Avg Mkt Cap \$B	85.02	73.18	109.39
ROE	23.05	18.04	23.75

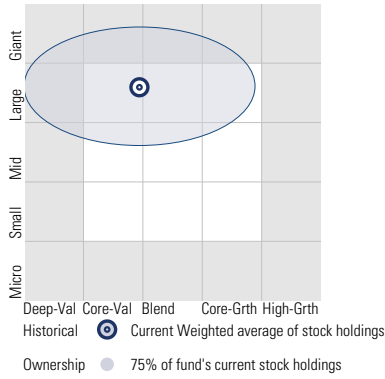
Invesco Growth and Income R6 GIFFX

Morningstar Category
Large Value

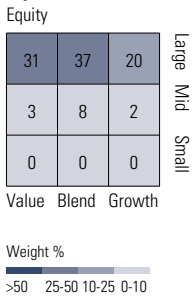
Morningstar Index
Russell 1000 Value TR USD

Style Analysis as of 12-31-2022

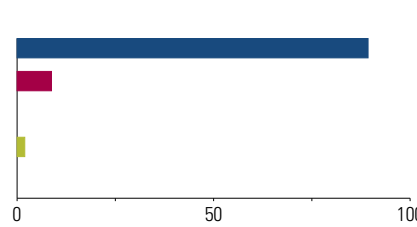
Morningstar Style Box™



Style Breakdown

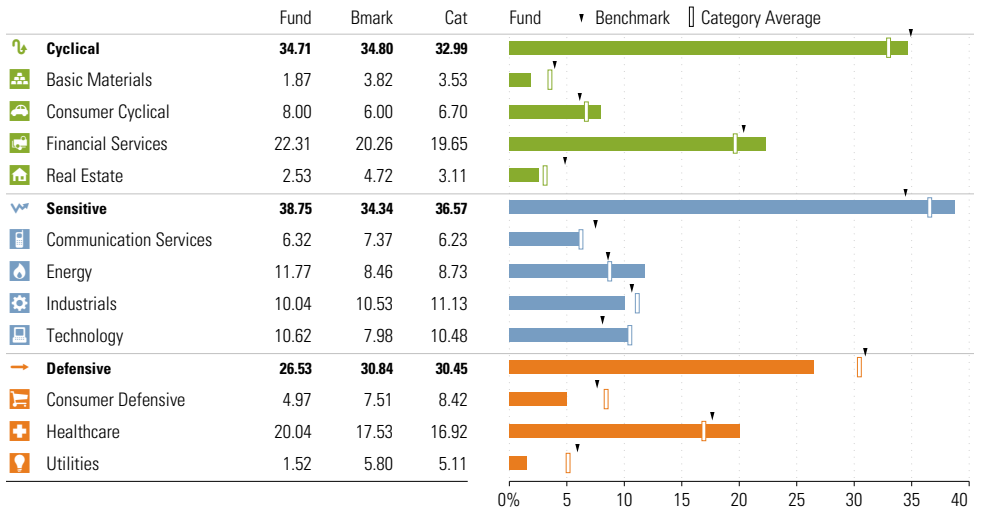


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	89.30	91.62
Non-US Stocks	8.75	5.57
Bonds	0.00	0.35
Cash	1.95	1.83
Other	0.00	0.62
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
------	-------------	--------------	--------------	--------------------

Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan Small Cap Value R6 JSVUX

Morningstar Category
Small Value

Morningstar Index
Russell 2000 Value TR USD

Portfolio Manager(s)

Phillip Hart since 11-2010
Jonathan Tse since 11-2019
Akash Gupta since 11-2019
Wonseok Choi since 11-2019
Robert Ippolito since 11-2022

Quantitative Screens

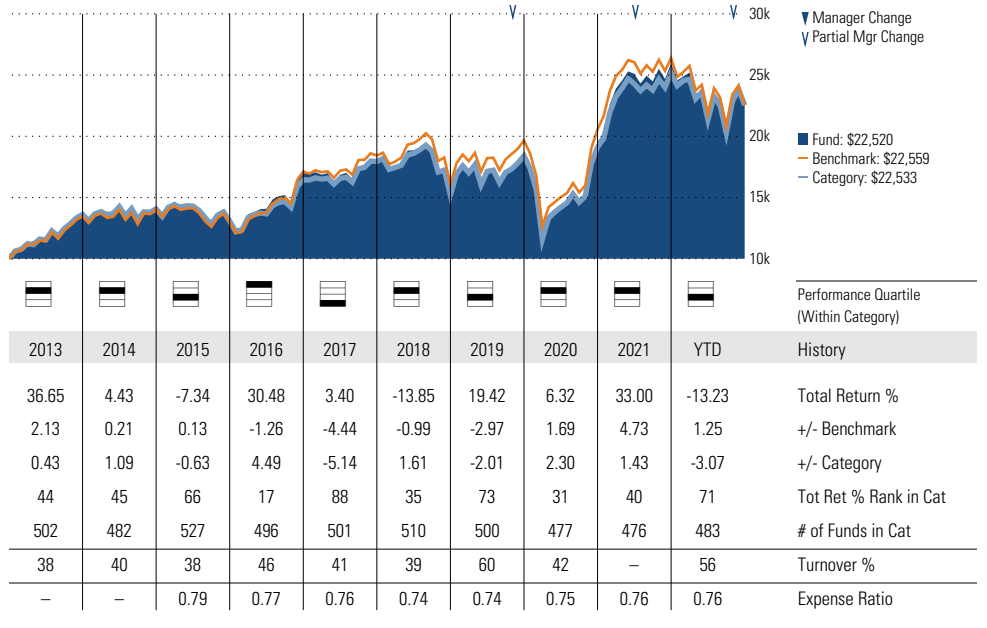
✔ **Performance:** The fund has finished in the Small Value category's top three quartiles in 9 of the 10 years it's been in existence.

✔ **Management:** The fund's management has been in place for 12.17 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.74 is 35.09% lower than the Small Value category average.

Growth of \$10,000



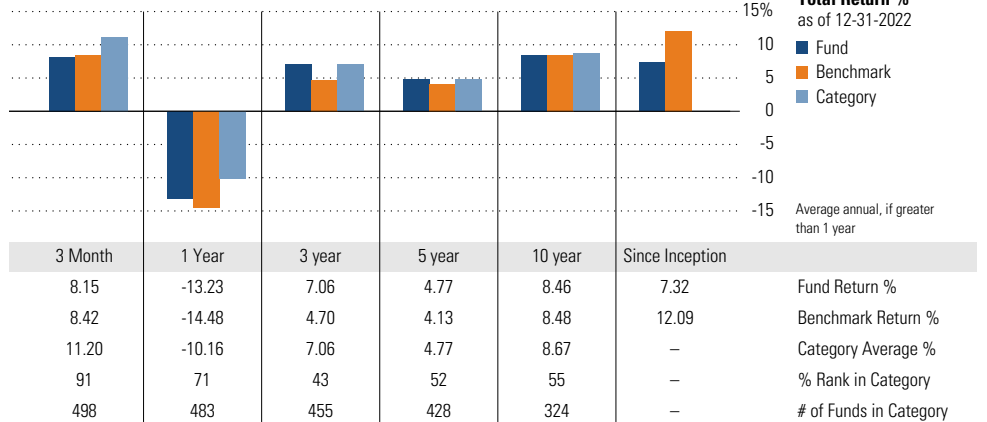
Morningstar Investment Management LLC Analysis

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

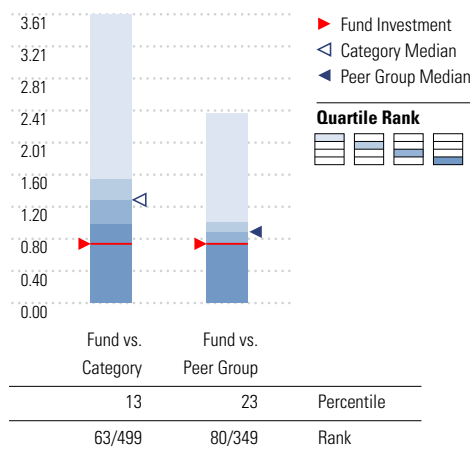
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	2.25	—	2.07
Beta	0.98	—	0.99
R-Squared	99.21	—	95.05
Standard Deviation	27.30	27.66	28.15
Sharpe Ratio	0.36	0.27	0.34
Tracking Error	2.46	—	6.45
Information Ratio	0.96	—	0.30
Up Capture Ratio	102.26	—	101.40
Down Capture Ratio	96.20	—	96.46

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	8.45	9.22	11.62
Price/Book Ratio	1.31	1.27	1.60
Geom Avg Mkt Cap \$B	1.96	1.83	3.75
ROE	11.39	7.83	16.18

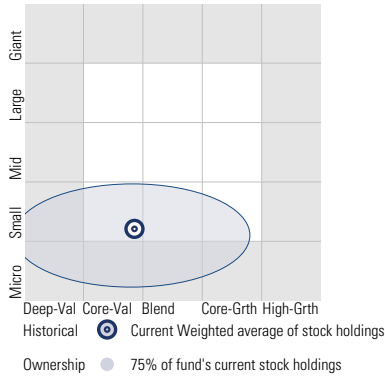
JPMorgan Small Cap Value R6 JSVUX

Morningstar Category
Small Value

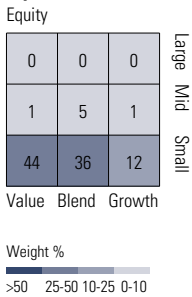
Morningstar Index
Russell 2000 Value TR USD

Style Analysis as of 12-31-2022

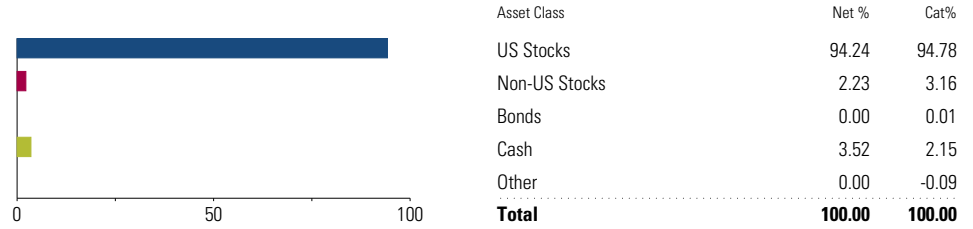
Morningstar Style Box™



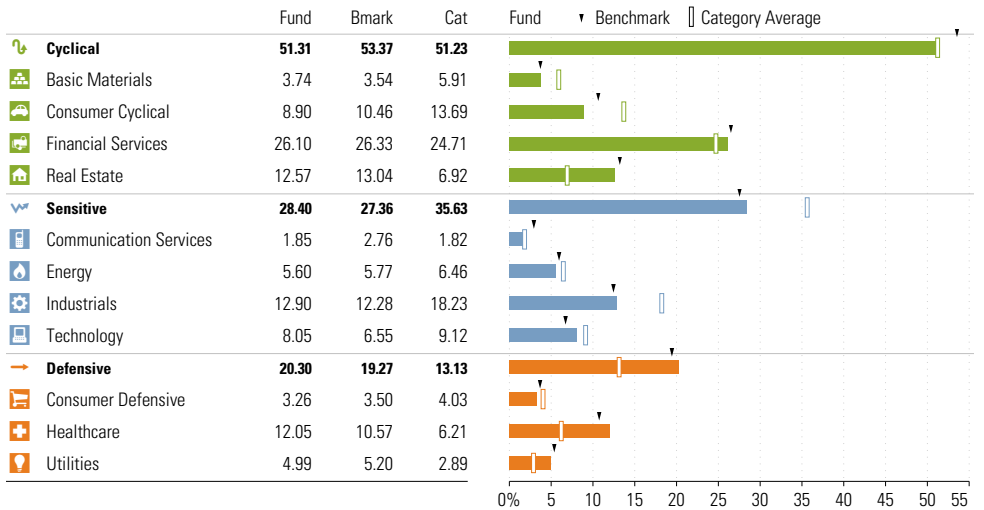
Style Breakdown



Asset Allocation as of 12-31-2022



Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan SmartRetirement® 2020 R6 JTTYX

Morningstar Category
Target-Date 2020

Morningstar Index
Morningstar Lifetime Mod 2020 TR USD

Portfolio Manager(s)

Jeffrey Geller since 07-2008
Daniel Oldroyd since 11-2010
Silvia Trillo since 02-2019
Ove Fladberg since 03-2022

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2020 category's top three quartiles in 6 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 14.51 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.37 is 36.21% lower than the Target-Date 2020 category average.

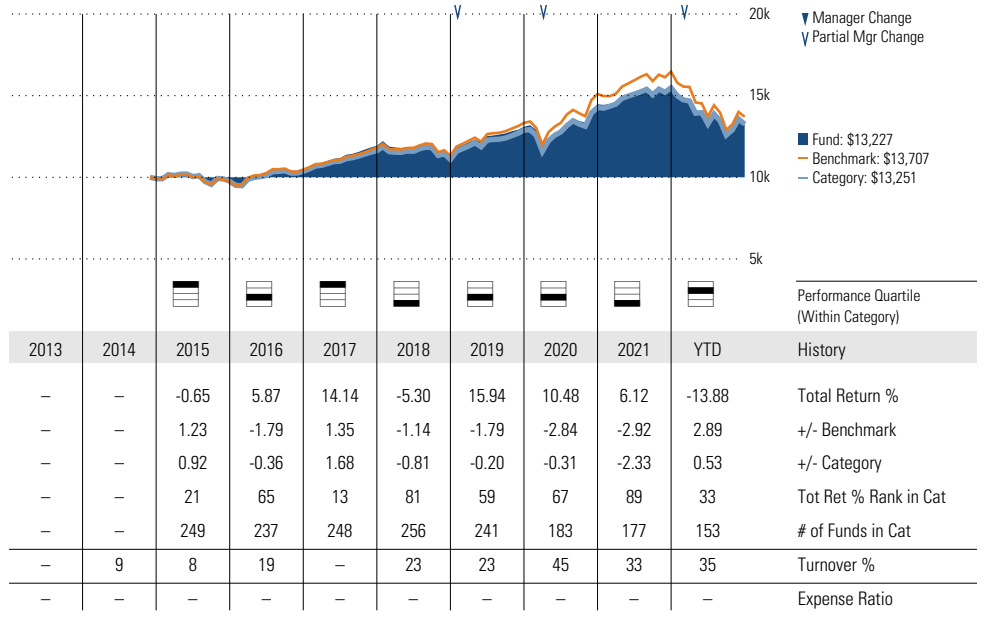
Morningstar Investment Management LLC Analysis

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

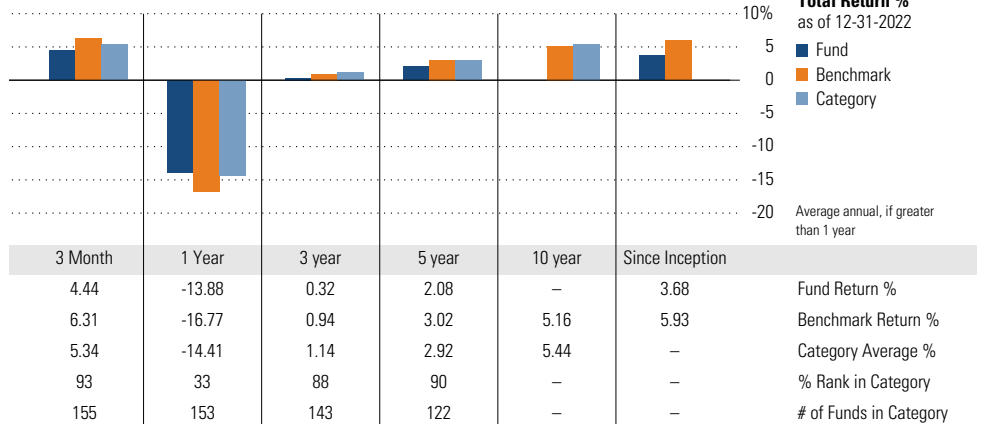
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023

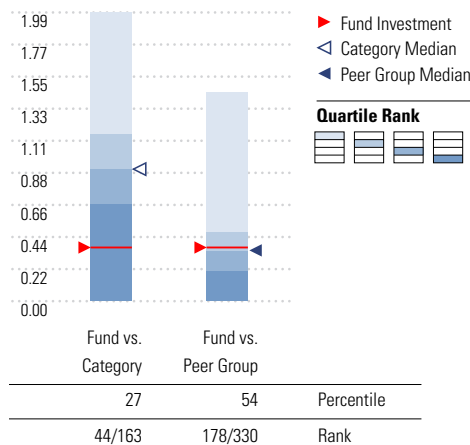
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.54	-	0.27
Beta	0.83	-	0.91
R-Squared	96.96	-	96.66
Standard Deviation	10.56	12.59	11.69
Sharpe Ratio	0.00	0.07	0.08
Tracking Error	2.87	-	2.49
Information Ratio	-0.21	-	0.13
Up Capture Ratio	80.09	-	90.94
Down Capture Ratio	83.08	-	89.35

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	16.55	15.30	15.60
Price/Book Ratio	2.66	2.27	2.39
Avg Eff Duration	5.62	-	5.80

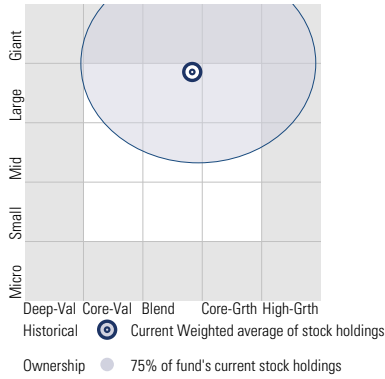
JPMorgan SmartRetirement® 2020 R6 JTTYX

Morningstar Category
Target-Date 2020

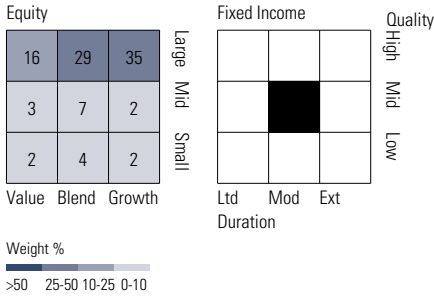
Morningstar Index
Morningstar Lifetime Mod 2020 TR USD

Style Analysis as of 12-31-2022

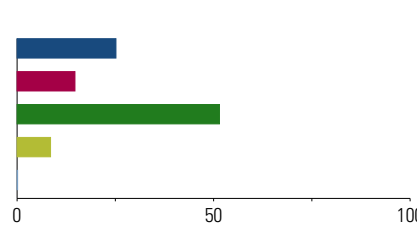
Morningstar Style Box™



Style Breakdown

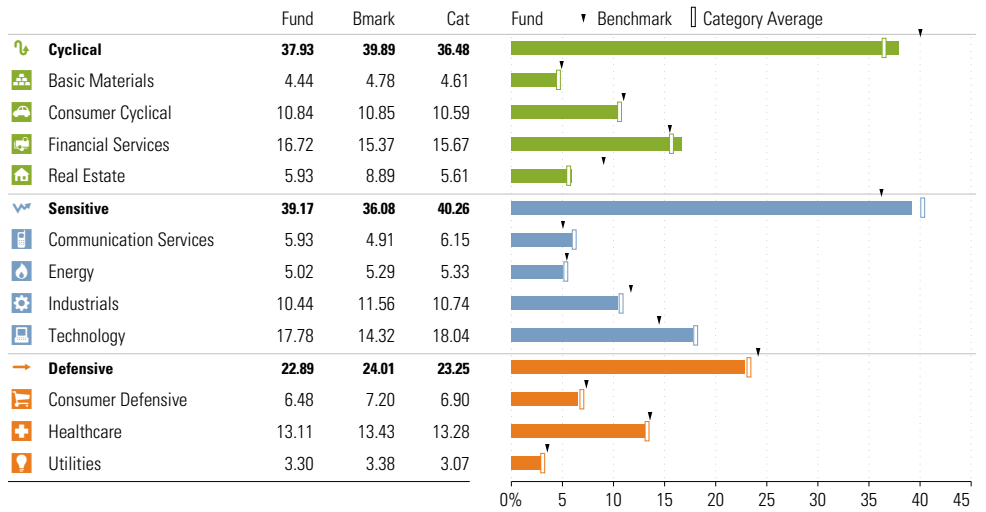


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	25.15	26.29
Non-US Stocks	14.72	14.30
Bonds	51.49	48.18
Cash	8.51	3.07
Other	0.13	8.16
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan SmartRetirement® 2025 R6 JNSYX

Morningstar Category
Target-Date 2025

Morningstar Index
Morningstar Lifetime Mod 2025 TR USD

Portfolio Manager(s)

Jeffrey Geller since 07-2008
Daniel Oldroyd since 11-2010
Silvia Trillo since 02-2019
Ove Fladberg since 03-2022

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2025 category's top three quartiles in 6 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 14.51 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 0.38 is 40.63% lower than the Target-Date 2025 category average.

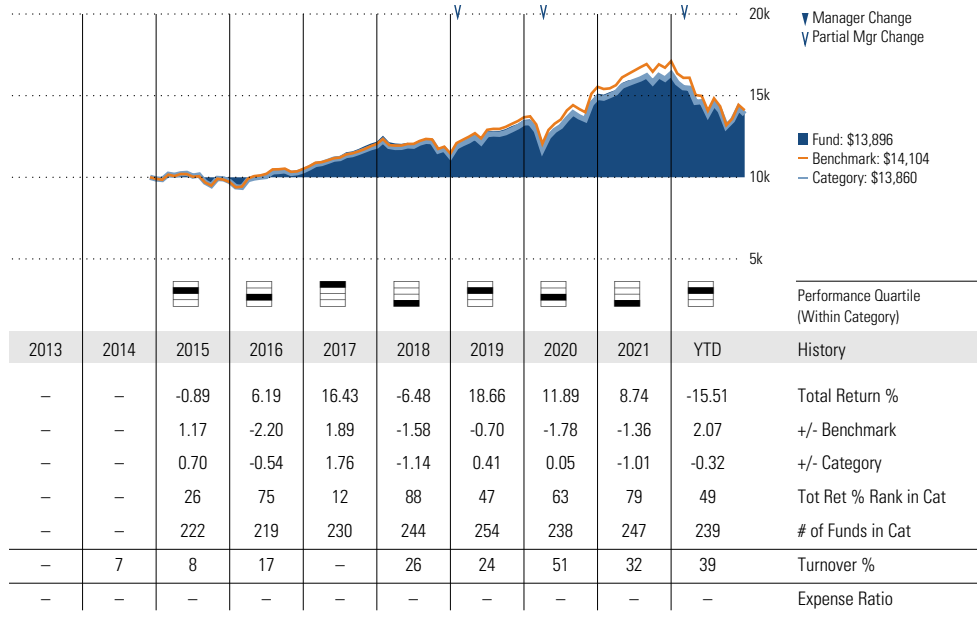
Morningstar Investment Management LLC Analysis

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

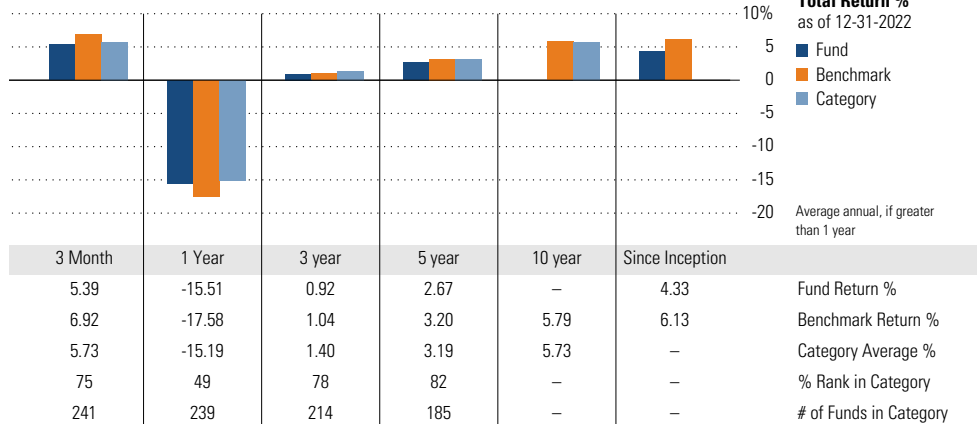
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023

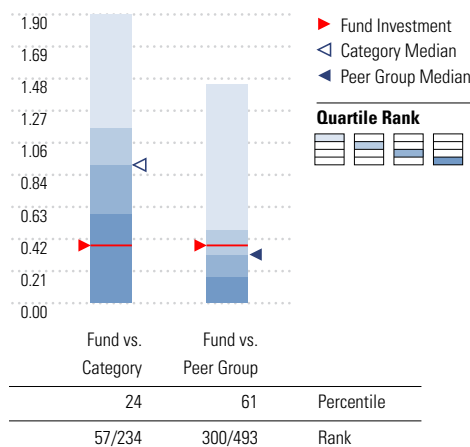
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.08	-	0.42
Beta	0.92	-	0.91
R-Squared	97.66	-	97.41
Standard Deviation	12.80	13.79	12.71
Sharpe Ratio	0.07	0.08	0.10
Tracking Error	2.26	-	2.57
Information Ratio	-0.05	-	0.20
Up Capture Ratio	91.10	-	92.41
Down Capture Ratio	91.48	-	90.14

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	16.38	15.14	15.55
Price/Book Ratio	2.64	2.24	2.39
Avg Eff Duration	5.61	-	-

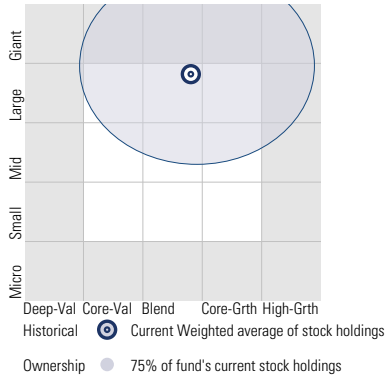
JPMorgan SmartRetirement® 2025 R6 JNSYX

Morningstar Category
Target-Date 2025

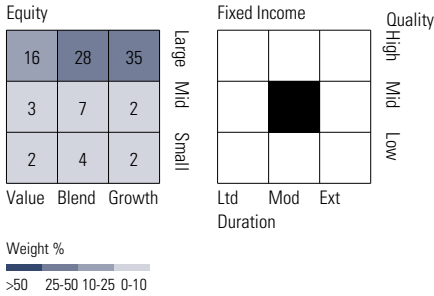
Morningstar Index
Morningstar Lifetime Mod 2025 TR USD

Style Analysis as of 12-31-2022

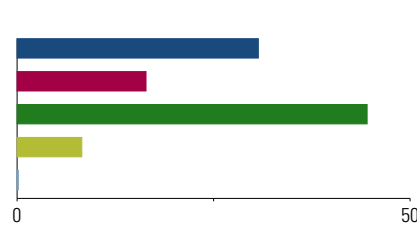
Morningstar Style Box™



Style Breakdown

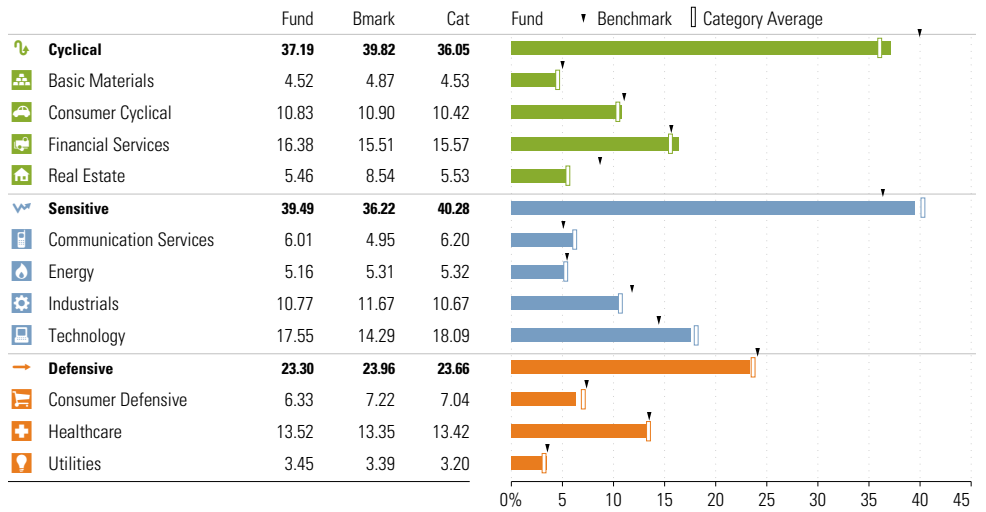


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	30.69	29.29
Non-US Stocks	16.40	15.36
Bonds	44.53	41.59
Cash	8.23	3.29
Other	0.15	10.46
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Total Holdings 0					

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan SmartRetirement® 2030 R6 JSMYX

Morningstar Category
Target-Date 2030

Morningstar Index
Morningstar Lifetime Mod 2030 TR USD

Portfolio Manager(s)

Jeffrey Geller since 07-2008
Daniel Oldroyd since 11-2010
Silvia Trillo since 02-2019
Ove Fladberg since 03-2022

Quantitative Screens

✗ **Performance:** The fund has finished in the Target-Date 2030 category's top three quartiles in 5 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 14.51 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 0.39 is 40% lower than the Target-Date 2030 category average.

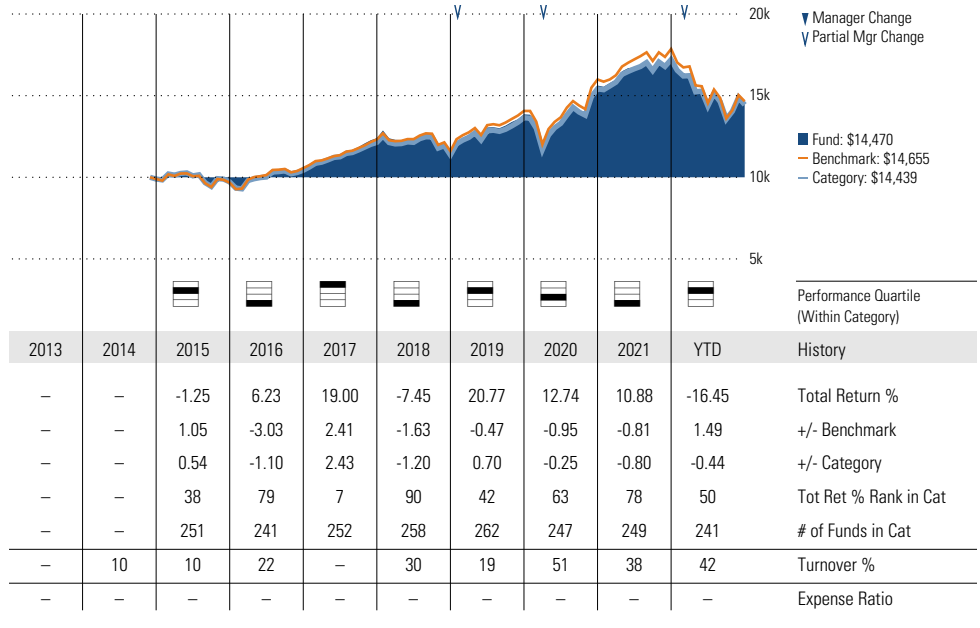
Morningstar Investment Management LLC Analysis

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

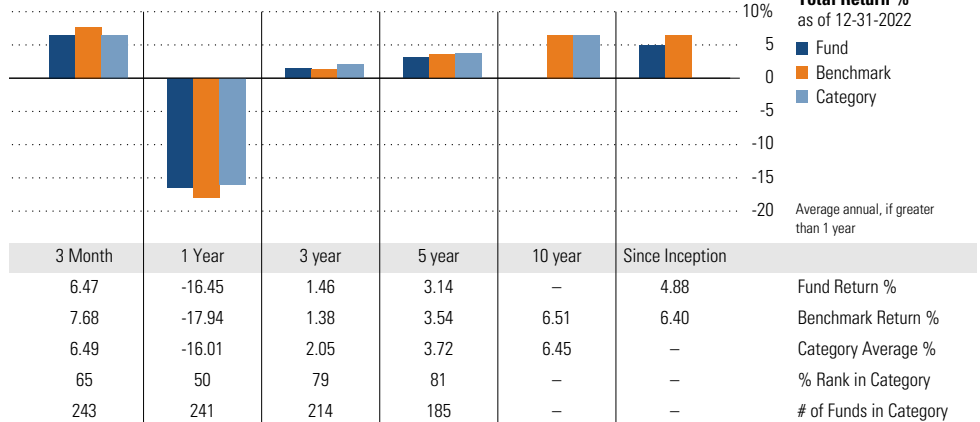
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022

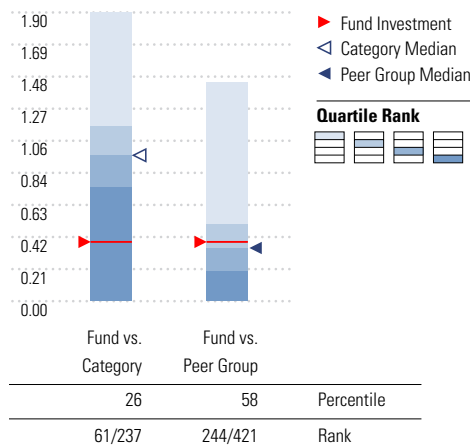
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.10	-	0.68
Beta	0.96	-	0.94
R-Squared	98.55	-	98.23
Standard Deviation	14.76	15.26	14.47
Sharpe Ratio	0.11	0.11	0.15
Tracking Error	1.88	-	2.29
Information Ratio	0.04	-	0.32
Up Capture Ratio	96.46	-	96.78
Down Capture Ratio	95.98	-	93.56

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	16.41	14.98	15.88
Price/Book Ratio	2.64	2.21	2.49
Avg Eff Duration	5.60	-	-

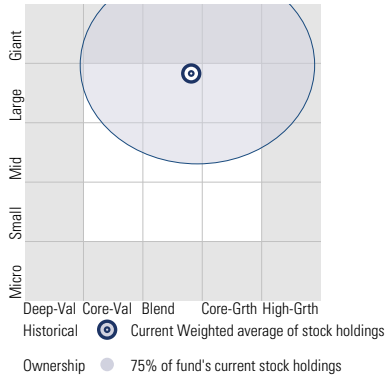
JPMorgan SmartRetirement® 2030 R6 JSMYX

Morningstar Category
Target-Date 2030

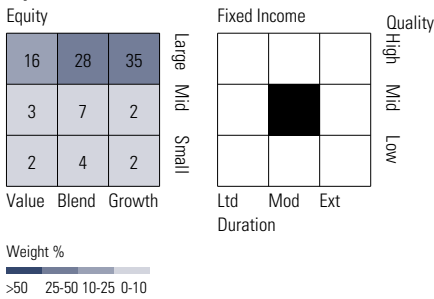
Morningstar Index
Morningstar Lifetime Mod 2030 TR USD

Style Analysis as of 12-31-2022

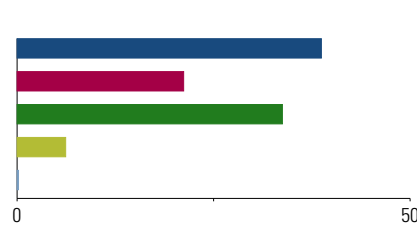
Morningstar Style Box™



Style Breakdown

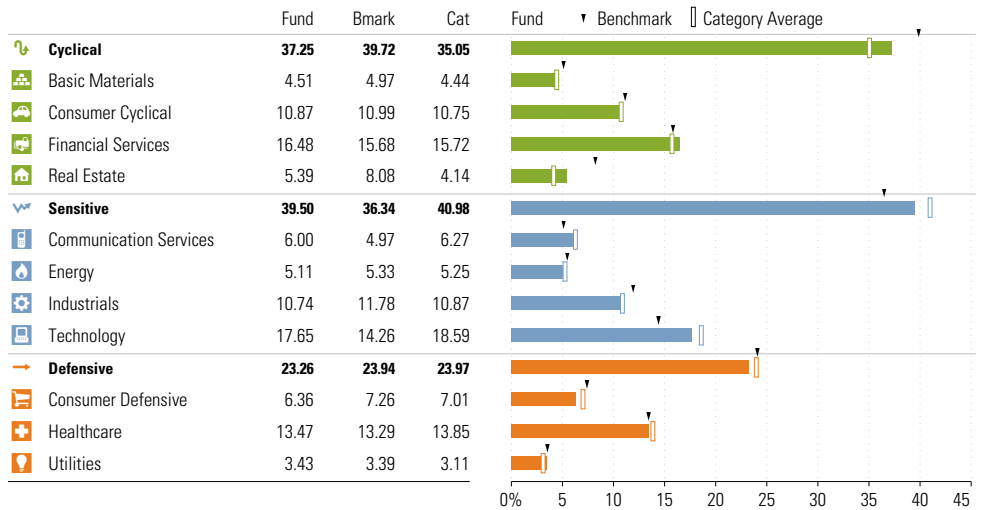


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	38.71	36.59
Non-US Stocks	21.19	17.80
Bonds	33.75	31.05
Cash	6.18	2.53
Other	0.17	12.02
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan SmartRetirement® 2035 R6 SRJYX

Morningstar Category
Target-Date 2035

Morningstar Index
Morningstar Lifetime Mod 2035 TR USD

Portfolio Manager(s)

Jeffrey Geller since 07-2008
Daniel Oldroyd since 11-2010
Silvia Trillo since 02-2019
Ove Fladberg since 03-2022

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2035 category's top three quartiles in 6 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 14.51 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 0.41 is 37.88% lower than the Target-Date 2035 category average.

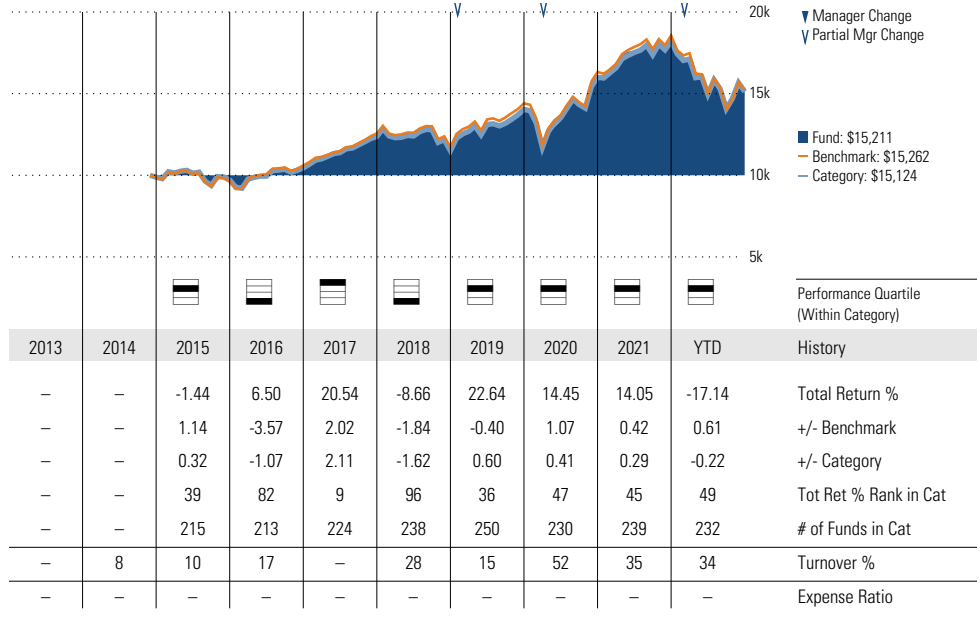
Morningstar Investment Management LLC Analysis

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

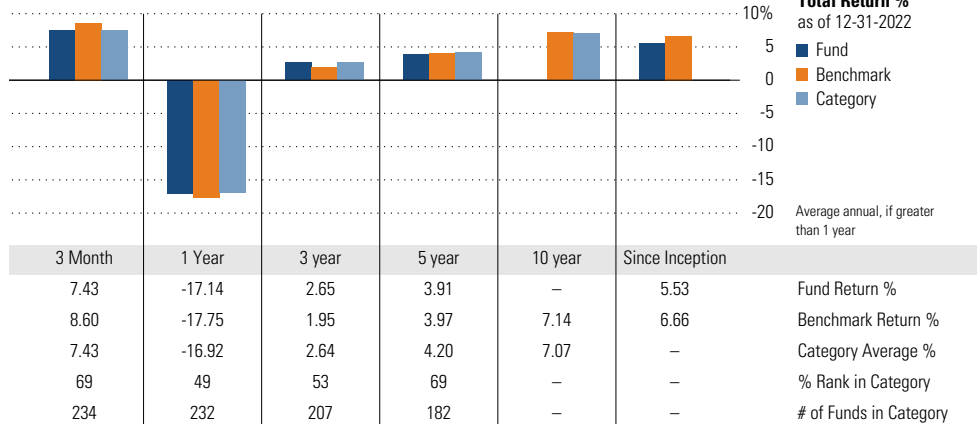
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022

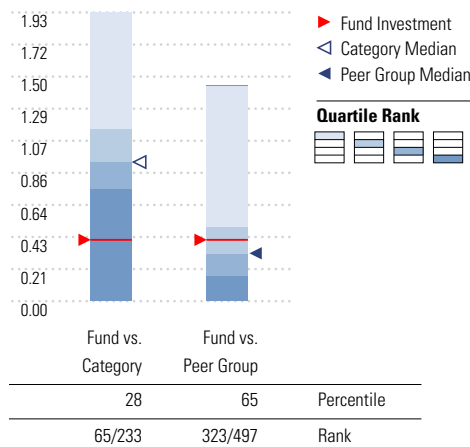
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.71	-	0.75
Beta	0.99	-	0.96
R-Squared	98.84	-	98.60
Standard Deviation	16.87	16.88	16.36
Sharpe Ratio	0.19	0.15	0.19
Tracking Error	1.82	-	2.15
Information Ratio	0.38	-	0.38
Up Capture Ratio	101.10	-	99.09
Down Capture Ratio	98.12	-	95.91

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	16.43	14.82	15.66
Price/Book Ratio	2.54	2.18	2.41
Avg Eff Duration	5.62	-	-

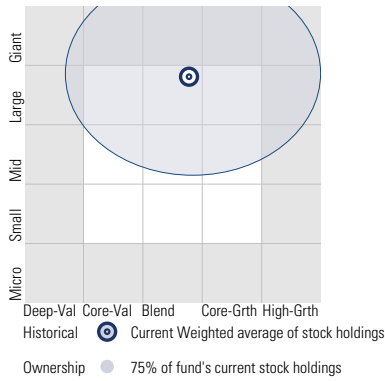
JPMorgan SmartRetirement® 2035 R6 SRJYX

Morningstar Category
Target-Date 2035

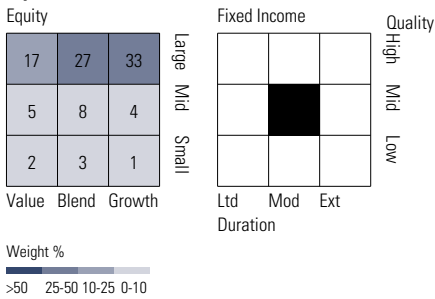
Morningstar Index
Morningstar Lifetime Mod 2035 TR USD

Style Analysis as of 12-31-2022

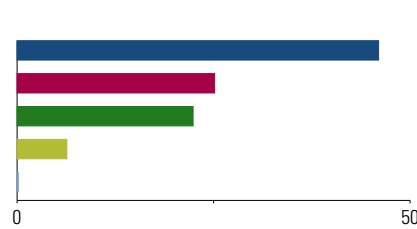
Morningstar Style Box™



Style Breakdown

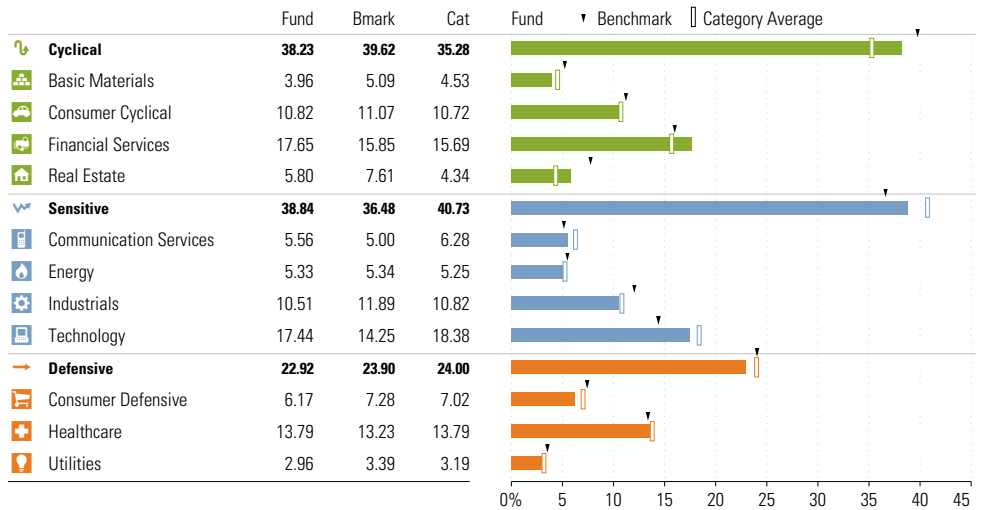


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	45.99	42.99
Non-US Stocks	25.13	22.64
Bonds	22.39	20.95
Cash	6.33	2.82
Other	0.14	10.60
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan SmartRetirement® 2040 R6 SMTYX

Morningstar Category
Target-Date 2040

Morningstar Index
Morningstar Lifetime Mod 2040 TR USD

Portfolio Manager(s)

Jeffrey Geller since 07-2008
Daniel Oldroyd since 11-2010
Silvia Trillo since 02-2019
Ove Fladberg since 03-2022

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2040 category's top three quartiles in 6 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 14.51 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 0.42 is 37.31% lower than the Target-Date 2040 category average.

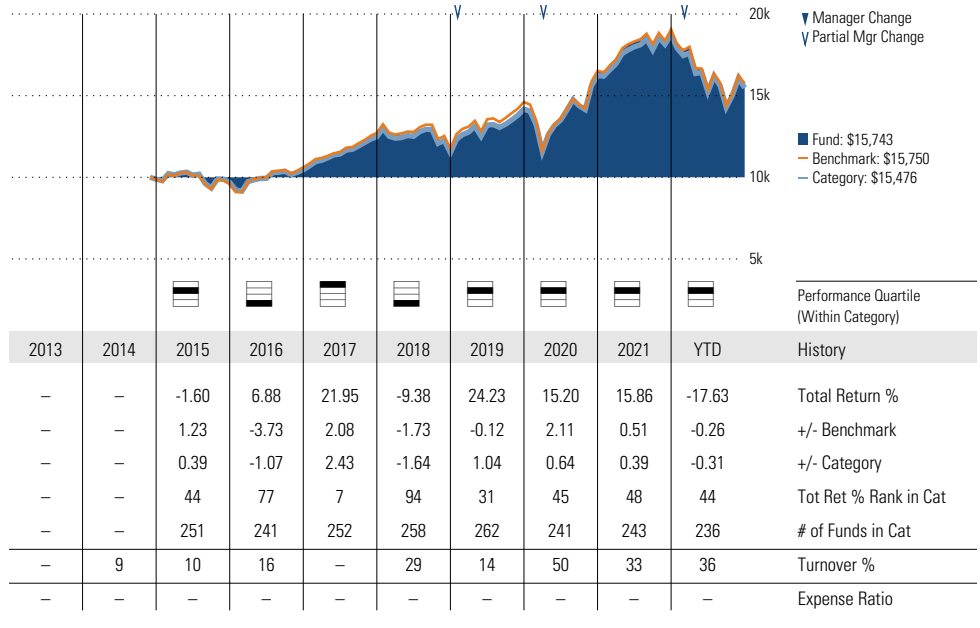
Morningstar Investment Management LLC Analysis

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

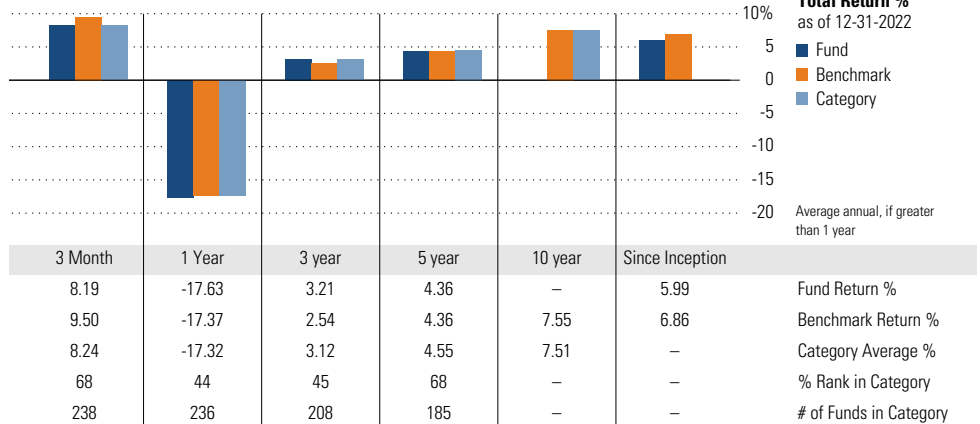
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022

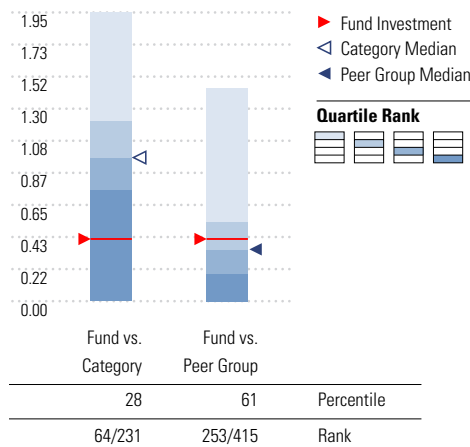
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.68	-	0.66
Beta	1.00	-	0.97
R-Squared	99.05	-	98.66
Standard Deviation	18.32	18.32	17.80
Sharpe Ratio	0.22	0.18	0.21
Tracking Error	1.79	-	2.24
Information Ratio	0.38	-	0.32
Up Capture Ratio	101.43	-	99.40
Down Capture Ratio	98.85	-	96.89

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	16.44	14.67	15.50
Price/Book Ratio	2.53	2.15	2.39
Avg Eff Duration	5.58	-	-

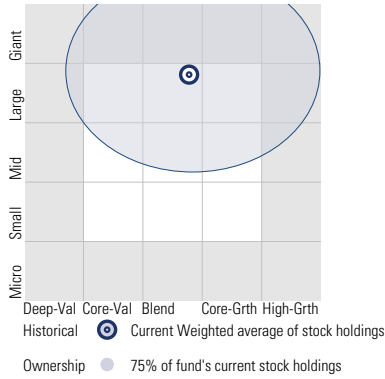
JPMorgan SmartRetirement® 2040 R6 SMTYX

Morningstar Category
Target-Date 2040

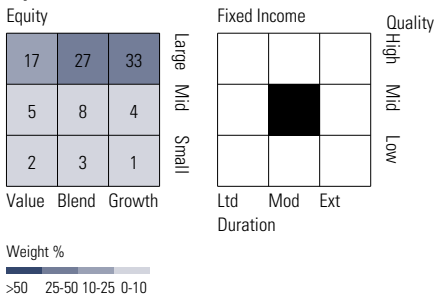
Morningstar Index
Morningstar Lifetime Mod 2040 TR USD

Style Analysis as of 12-31-2022

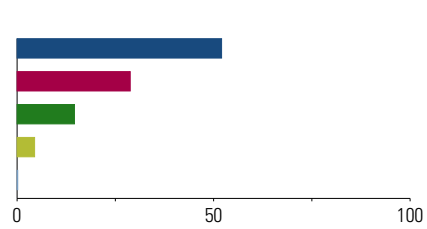
Morningstar Style Box™



Style Breakdown

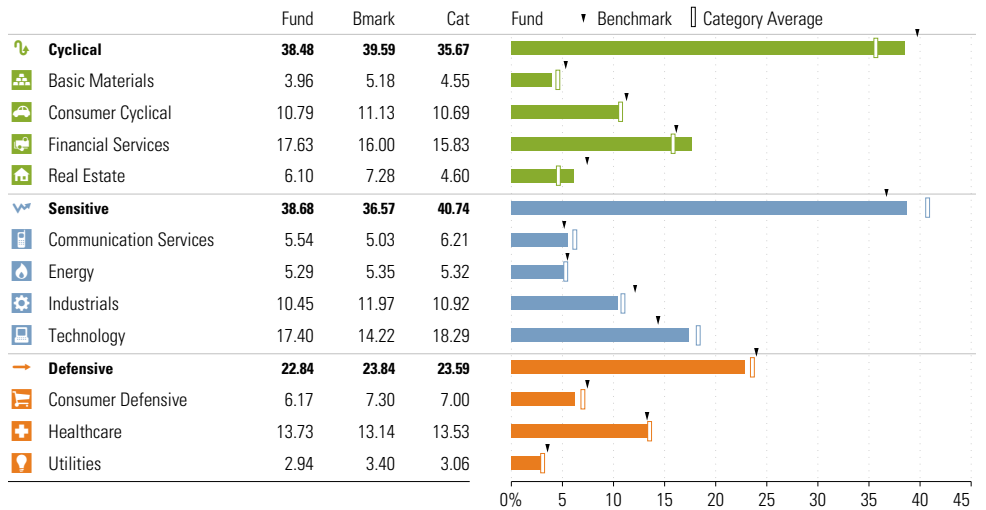


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	52.03	48.99
Non-US Stocks	28.78	26.05
Bonds	14.59	13.20
Cash	4.45	1.88
Other	0.16	9.88
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan SmartRetirement® 2045 R6 JSAYX

Morningstar Category
Target-Date 2045

Morningstar Index
Morningstar Lifetime Mod 2045 TR USD

Portfolio Manager(s)

Jeffrey Geller since 07-2008
Daniel Oldroyd since 11-2010
Silvia Trillo since 02-2019
Ove Fladberg since 03-2022

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2045 category's top three quartiles in 6 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 14.51 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 0.42 is 37.31% lower than the Target-Date 2045 category average.

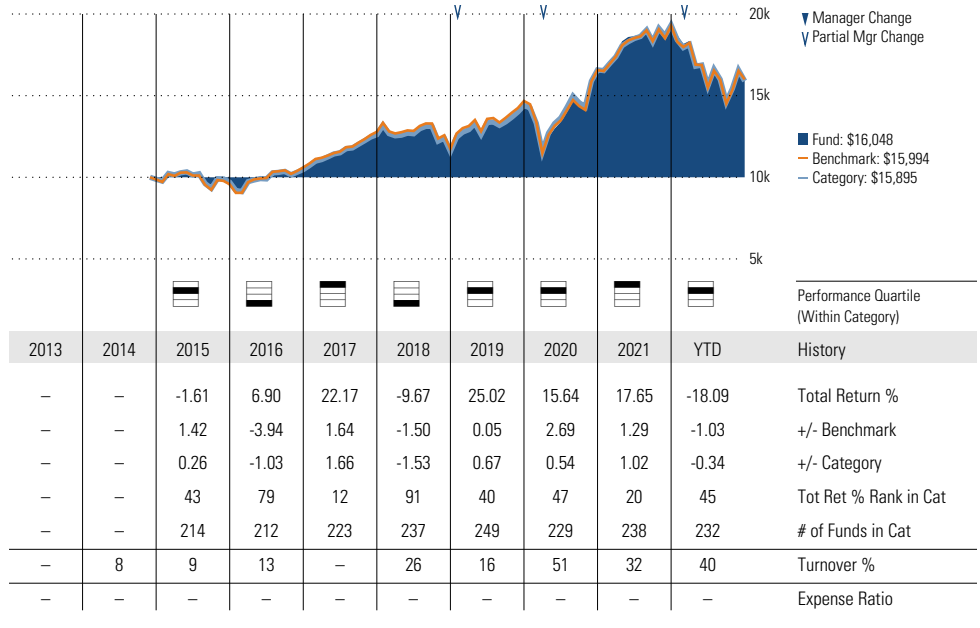
Morningstar Investment Management LLC Analysis

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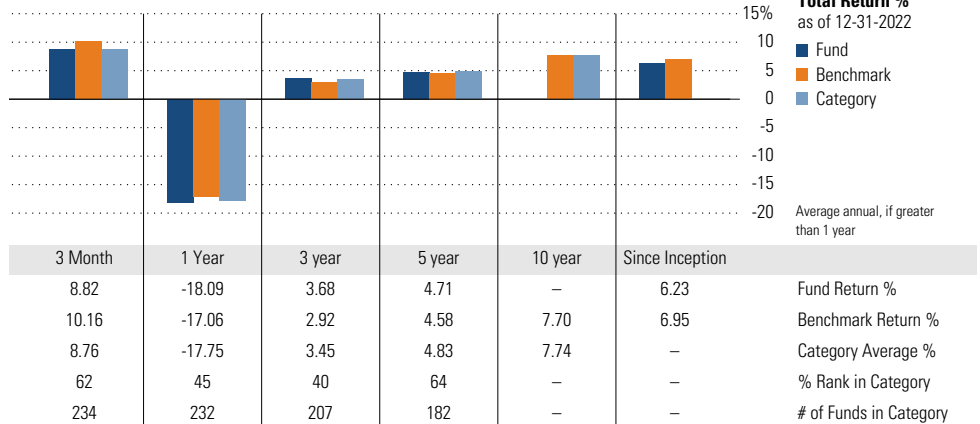
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022

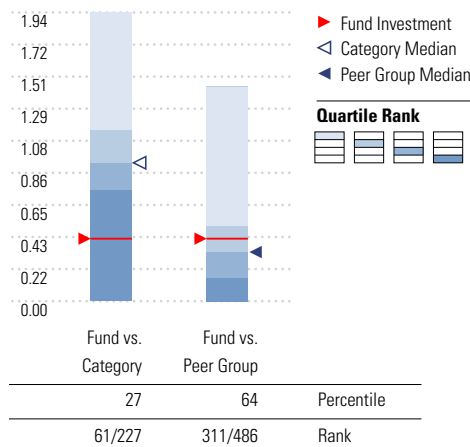
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.75	-	0.60
Beta	1.01	-	0.97
R-Squared	99.08	-	98.58
Standard Deviation	19.48	19.22	18.72
Sharpe Ratio	0.24	0.20	0.23
Tracking Error	1.88	-	2.33
Information Ratio	0.41	-	0.27
Up Capture Ratio	103.56	-	99.79
Down Capture Ratio	100.91	-	97.67

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	16.46	14.54	15.52
Price/Book Ratio	2.54	2.13	2.38
Avg Eff Duration	5.61	-	-

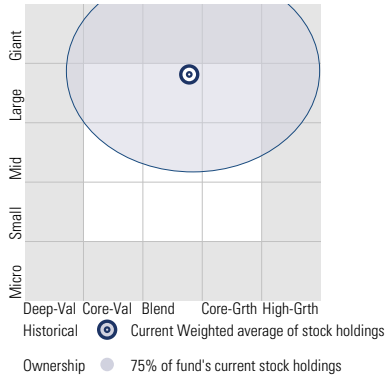
JPMorgan SmartRetirement® 2045 R6 JSAYX

Morningstar Category
Target-Date 2045

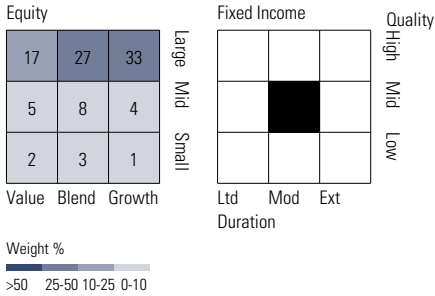
Morningstar Index
Morningstar Lifetime Mod 2045 TR USD

Style Analysis as of 12-31-2022

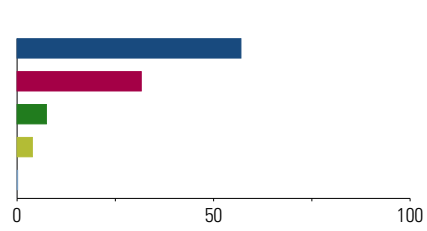
Morningstar Style Box™



Style Breakdown

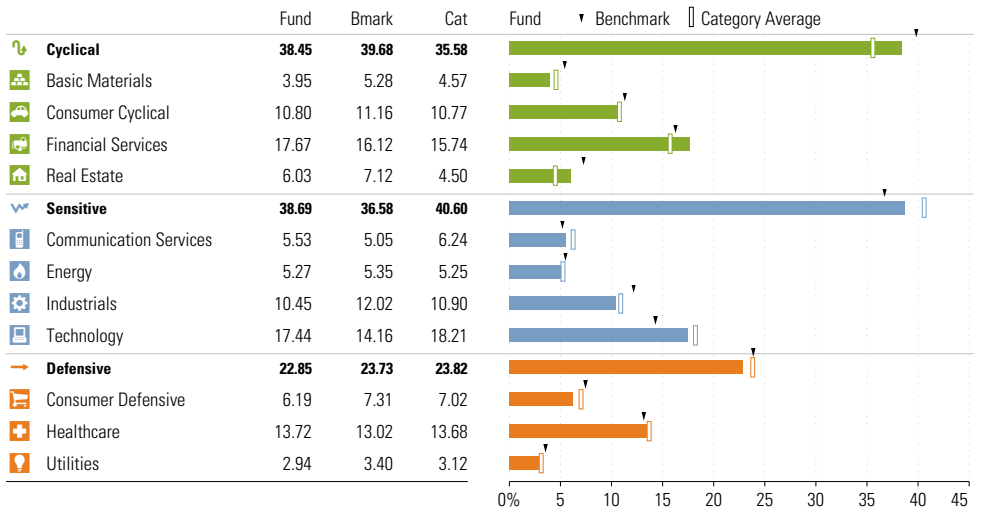


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	56.95	51.87
Non-US Stocks	31.59	28.18
Bonds	7.45	7.40
Cash	3.88	2.14
Other	0.14	10.41
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan SmartRetirement® 2050 R6 JTSYX

Morningstar Category
Target-Date 2050

Morningstar Index
Morningstar Lifetime Mod 2050 TR USD

Portfolio Manager(s)

Jeffrey Geller since 07-2008
Daniel Oldroyd since 11-2010
Silvia Trillo since 02-2019
Ove Fladberg since 03-2022

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2050 category's top three quartiles in 6 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 14.51 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 0.42 is 38.24% lower than the Target-Date 2050 category average.

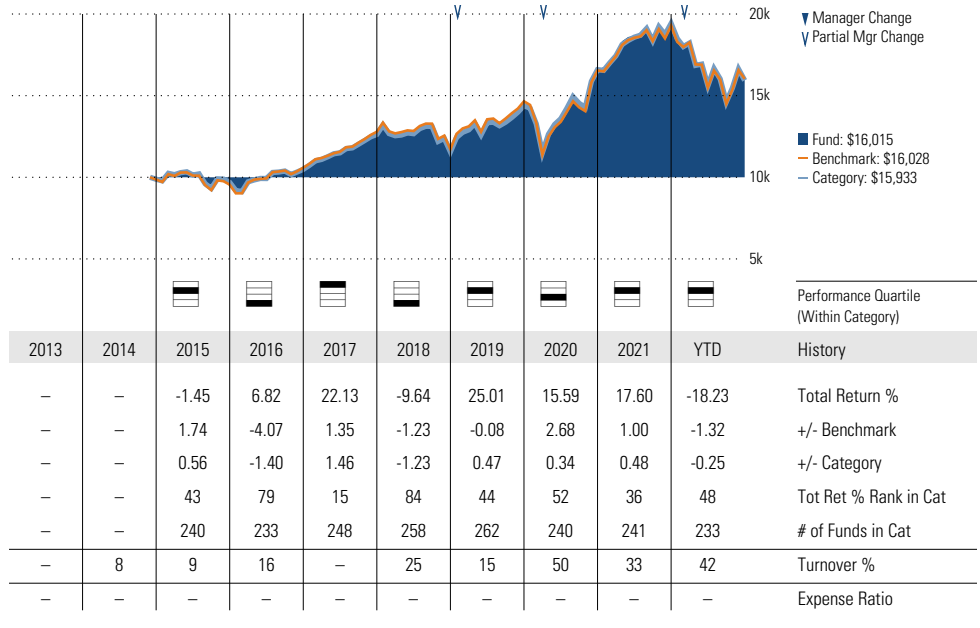
Morningstar Investment Management LLC Analysis

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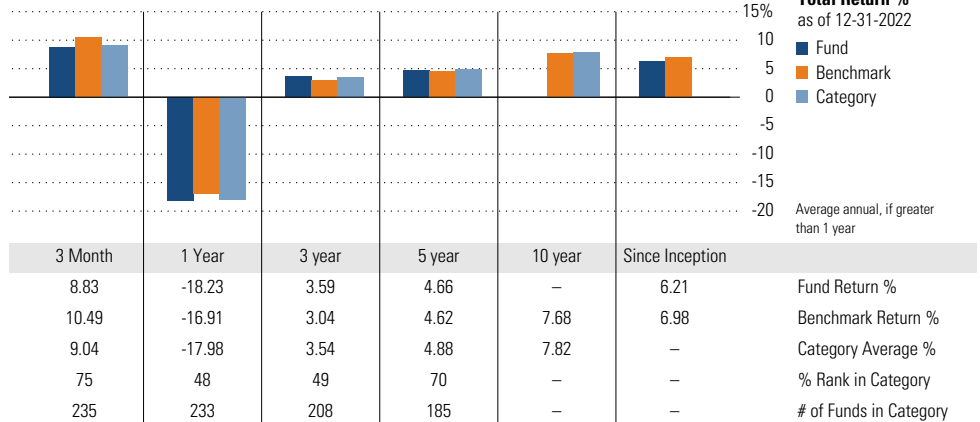
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022

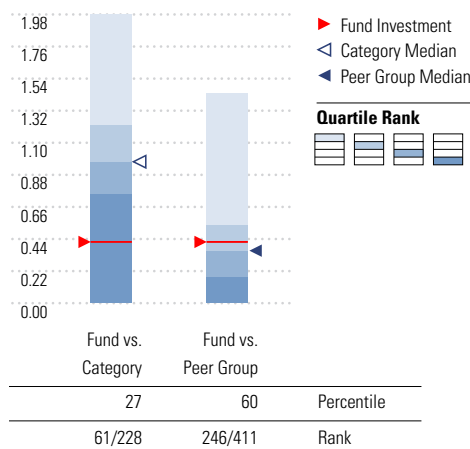
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.56	-	0.54
Beta	0.99	-	0.97
R-Squared	99.06	-	98.50
Standard Deviation	19.54	19.56	19.14
Sharpe Ratio	0.23	0.21	0.23
Tracking Error	1.90	-	2.37
Information Ratio	0.29	-	0.23
Up Capture Ratio	101.83	-	100.31
Down Capture Ratio	99.90	-	98.47

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	16.46	14.42	15.55
Price/Book Ratio	2.53	2.11	2.38
Avg Eff Duration	5.59	-	-

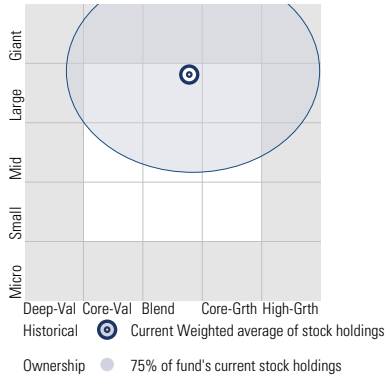
JPMorgan SmartRetirement® 2050 R6 JTSYX

Morningstar Category
Target-Date 2050

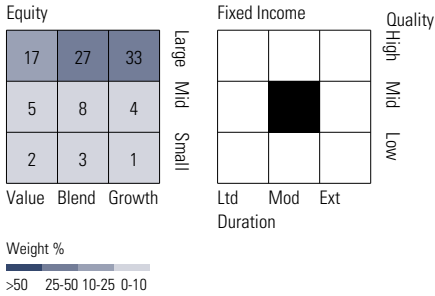
Morningstar Index
Morningstar Lifetime Mod 2050 TR USD

Style Analysis as of 12-31-2022

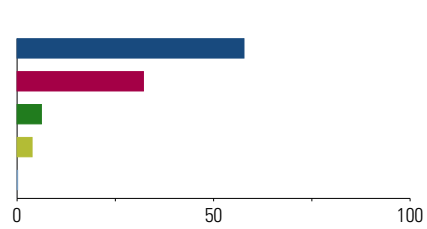
Morningstar Style Box™



Style Breakdown

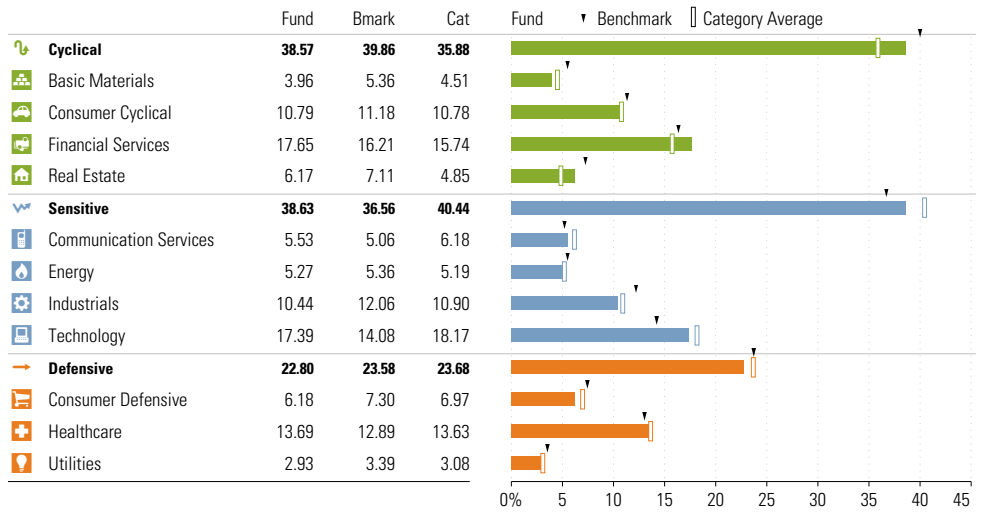


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	57.73	54.64
Non-US Stocks	32.14	28.82
Bonds	6.18	5.08
Cash	3.81	1.99
Other	0.14	9.48
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan SmartRetirement® 2055 R6 JFFYX

Morningstar Category
Target-Date 2055

Morningstar Index
Morningstar Lifetime Mod 2055 TR USD

Portfolio Manager(s)

Jeffrey Geller since 01-2012
Daniel Oldroyd since 01-2012
Silvia Trillo since 02-2019
Ove Fladberg since 03-2022

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2055 category's top three quartiles in 6 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 10.92 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 0.42 is 38.24% lower than the Target-Date 2055 category average.

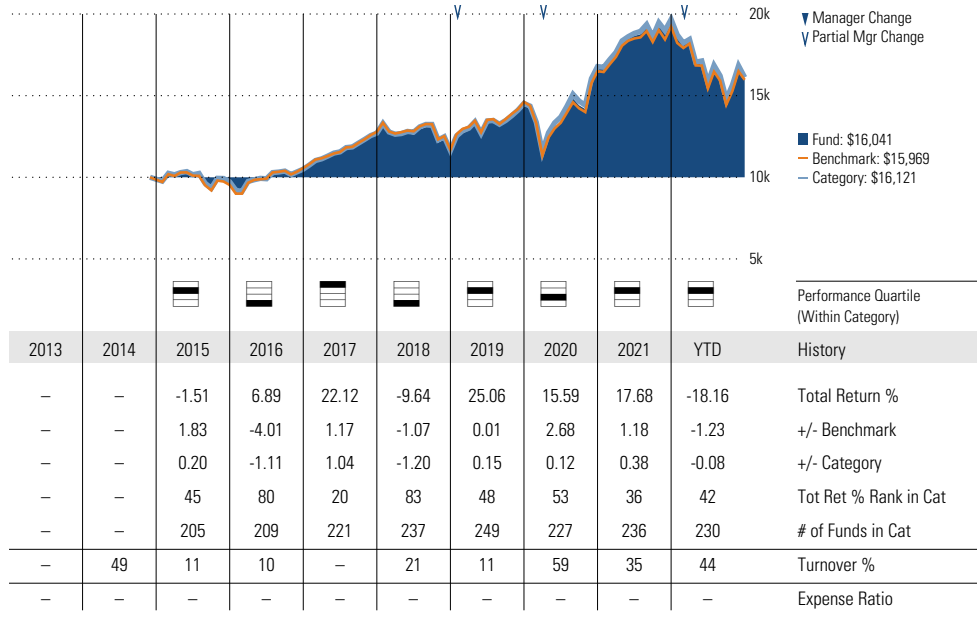
Morningstar Investment Management LLC Analysis

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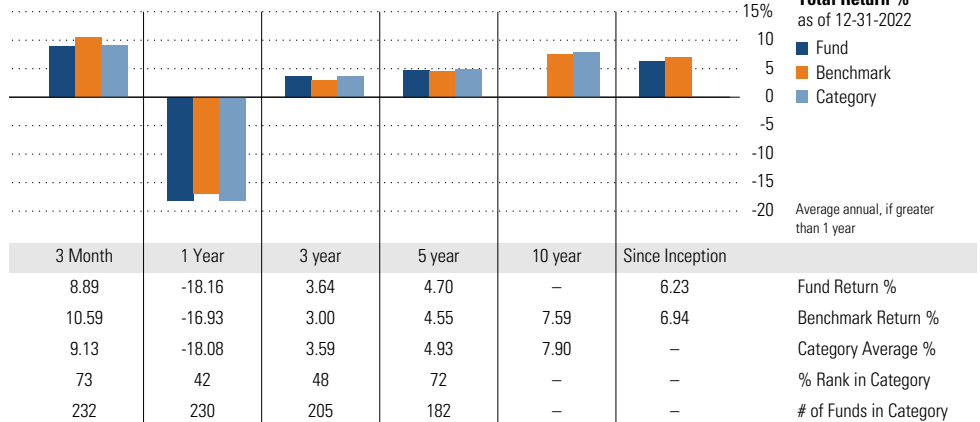
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022

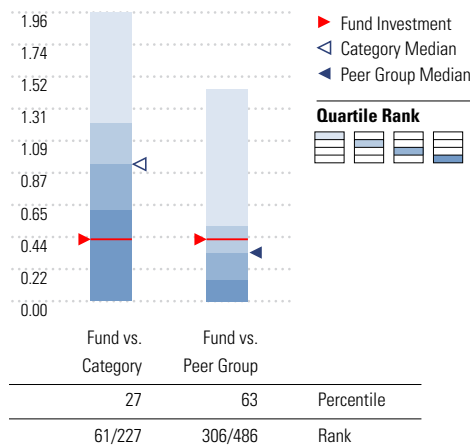
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.65	-	0.60
Beta	0.99	-	0.97
R-Squared	99.05	-	98.44
Standard Deviation	19.51	19.64	19.28
Sharpe Ratio	0.24	0.20	0.23
Tracking Error	1.92	-	2.41
Information Ratio	0.33	-	0.25
Up Capture Ratio	101.56	-	100.91
Down Capture Ratio	99.28	-	98.86

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	16.47	14.31	15.34
Price/Book Ratio	2.53	2.08	2.33
Avg Eff Duration	5.60	-	-

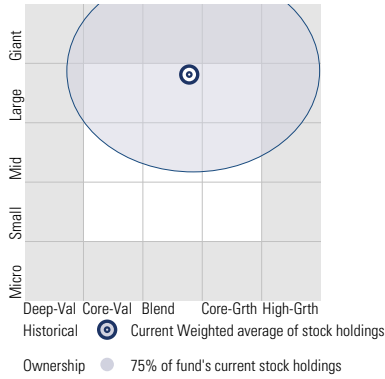
JPMorgan SmartRetirement® 2055 R6 JFFYX

Morningstar Category
Target-Date 2055

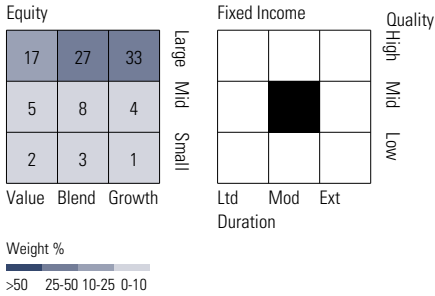
Morningstar Index
Morningstar Lifetime Mod 2055 TR USD

Style Analysis as of 12-31-2022

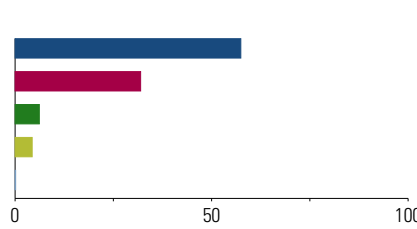
Morningstar Style Box™



Style Breakdown



Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	57.43	54.52
Non-US Stocks	31.94	31.50
Bonds	6.16	4.37
Cash	4.34	1.45
Other	0.14	8.15
Total	100.00	100.00

Sector Weighting as of 12-31-2022

	Fund	Bmark	Cat	Fund	Benchmark	Category Average
Cyclical	38.57	40.09	36.07			
Basic Materials	3.94	5.43	4.70			
Consumer Cyclical	10.78	11.19	10.70			
Financial Services	17.64	16.29	15.76			
Real Estate	6.21	7.18	4.91			
Sensitive	38.61	36.50	40.48			
Communication Services	5.52	5.08	6.33			
Energy	5.26	5.34	5.30			
Industrials	10.44	12.09	10.81			
Technology	17.39	13.99	18.04			
Defensive	22.82	23.41	23.45			
Consumer Defensive	6.19	7.28	6.95			
Healthcare	13.69	12.75	13.44			
Utilities	2.94	3.38	3.06			

Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan SmartRetirement® 2060 R6 JAKYX

Morningstar Category
Target-Date 2060

Morningstar Index
Morningstar Mod Tgt Risk TR USD

Portfolio Manager(s)

Jeffrey Geller since 08-2016
Daniel Oldroyd since 08-2016
Silvia Trillo since 02-2019
Ove Fladberg since 03-2022

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date 2060 category's top three quartiles in 5 of the 6 years it's been in existence.

✔ **Management:** The fund's management has been in place for 6.34 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 0.42 is 38.24% lower than the Target-Date 2060 category average.

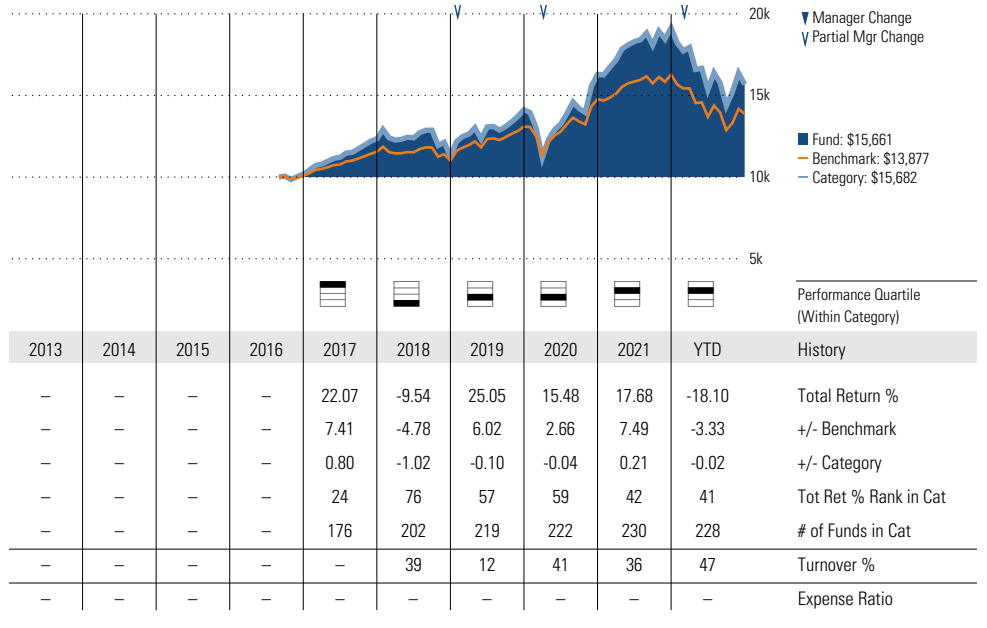
Morningstar Investment Management LLC Analysis

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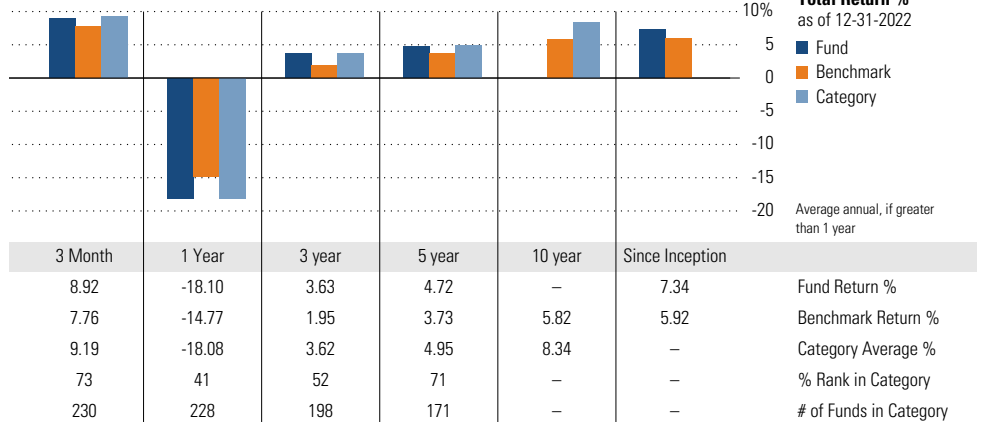
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022

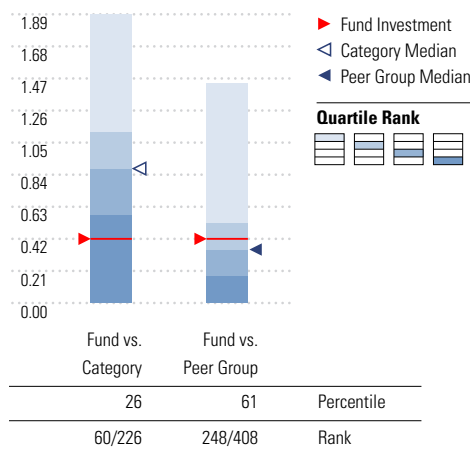
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	1.46	-	1.40
Beta	1.39	-	1.39
R-Squared	97.61	-	97.51
Standard Deviation	19.45	13.80	19.38
Sharpe Ratio	0.24	0.15	0.23
Tracking Error	6.20	-	6.19
Information Ratio	0.27	-	0.27
Up Capture Ratio	146.26	-	147.22
Down Capture Ratio	139.98	-	141.29

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	16.46	14.25	15.56
Price/Book Ratio	2.54	2.06	2.39
Avg Eff Duration	5.60	-	-

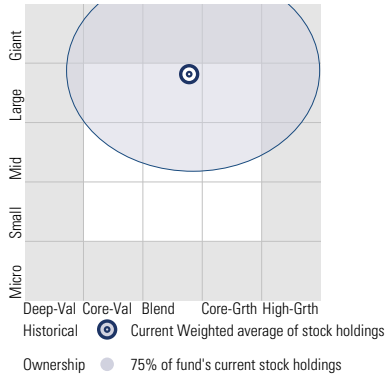
JPMorgan SmartRetirement® 2060 R6 JAKYX

Morningstar Category
Target-Date 2060

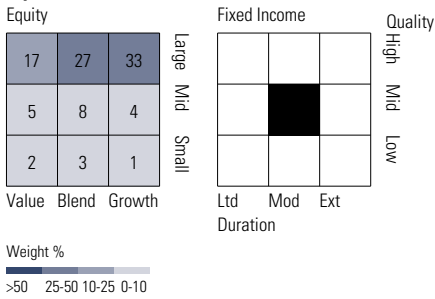
Morningstar Index
Morningstar Mod Tgt Risk TR USD

Style Analysis as of 12-31-2022

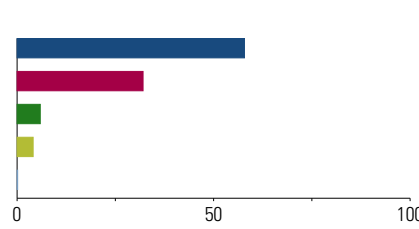
Morningstar Style Box™



Style Breakdown

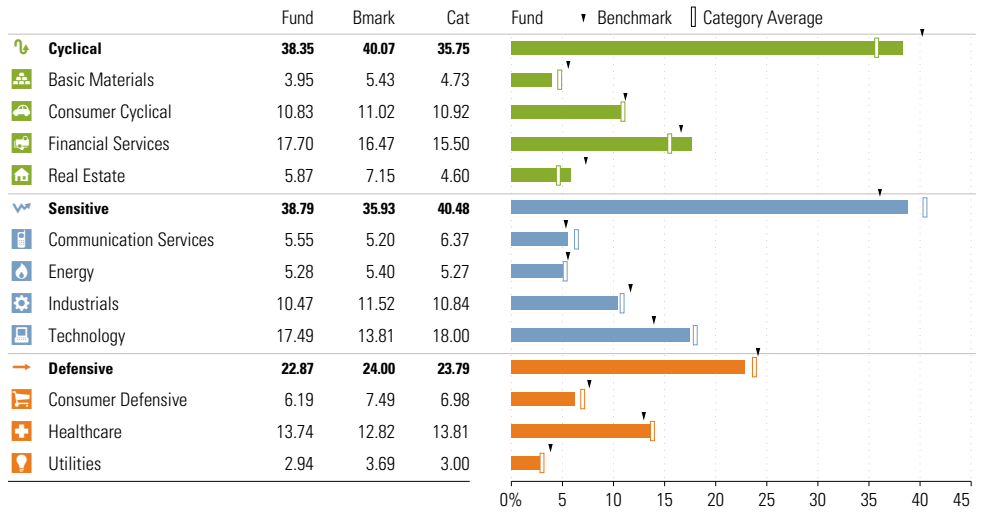


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	57.85	55.61
Non-US Stocks	32.05	31.95
Bonds	5.89	4.78
Cash	4.08	2.18
Other	0.14	5.50
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

JPMorgan SmartRetirement® Income R6 JSIYX

Morningstar Category
Target-Date Retirement

Morningstar Index
Morningstar Lifetime Mod Incm TR USD

Portfolio Manager(s)

Jeffrey Geller since 07-2008
Daniel Oldroyd since 11-2010
Silvia Trillo since 02-2019
Ove Fladberg since 03-2022

Quantitative Screens

✔ **Performance:** The fund has finished in the Target-Date Retirement category's top three quartiles in 7 of the 8 years it's been in existence.

✔ **Management:** The fund's management has been in place for 14.51 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 0.36 is 42.86% lower than the Target-Date Retirement category average.

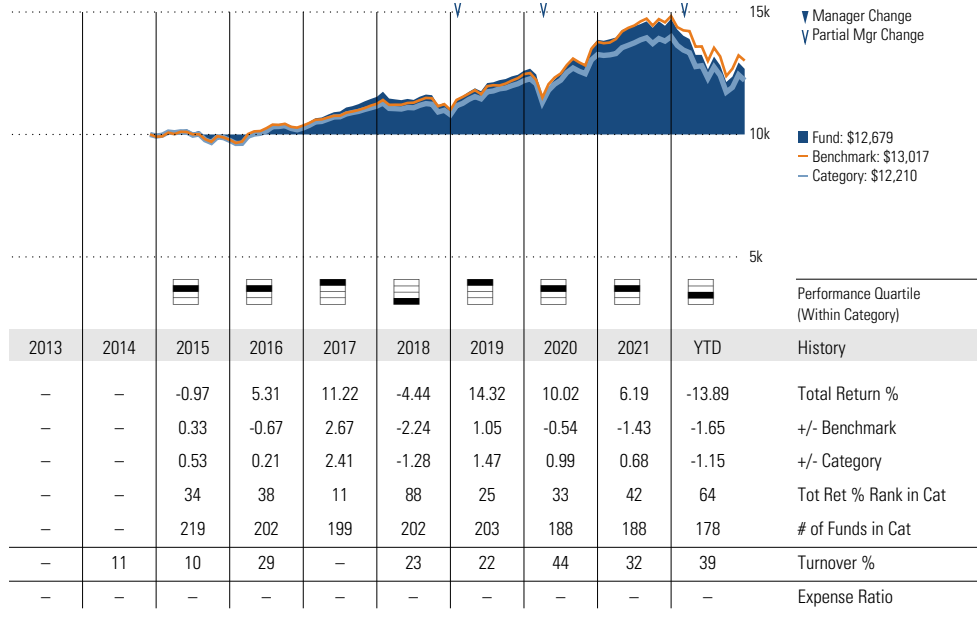
Morningstar Investment Management LLC Analysis

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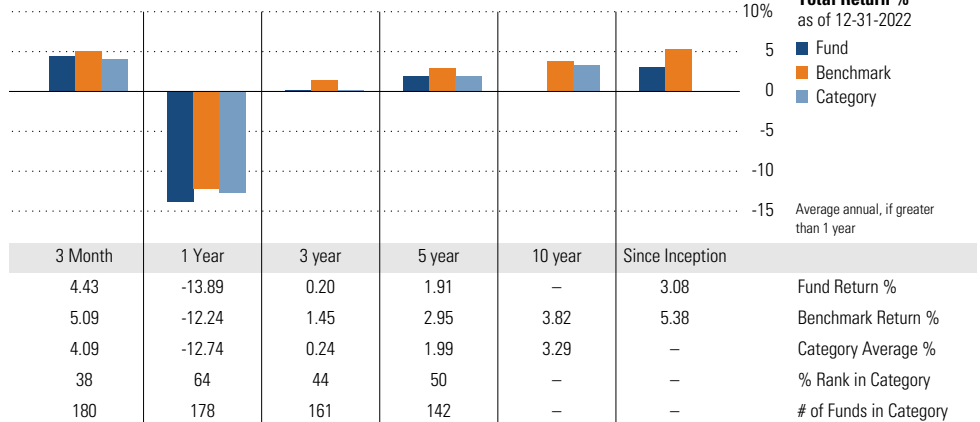
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023

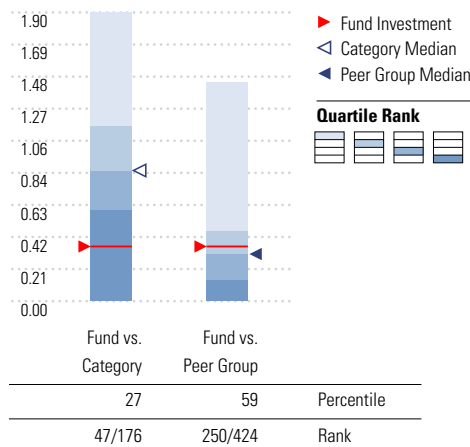
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	-1.27	-	-1.17
Beta	1.05	-	0.93
R-Squared	96.86	-	95.69
Standard Deviation	10.27	9.66	9.25
Sharpe Ratio	-0.01	0.11	-0.04
Tracking Error	1.88	-	2.32
Information Ratio	-0.67	-	-0.58
Up Capture Ratio	99.49	-	88.54
Down Capture Ratio	109.21	-	97.44

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	16.54	15.70	15.08
Price/Book Ratio	2.66	2.34	2.23
Avg Eff Duration	5.63	-	-

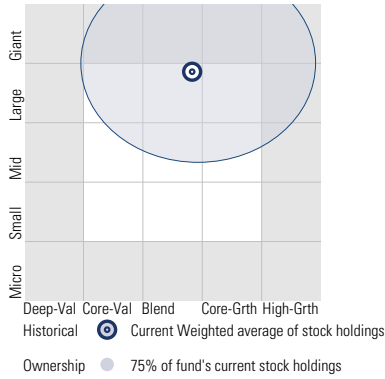
JPMorgan SmartRetirement® Income R6 JSIYX

Morningstar Category
Target-Date Retirement

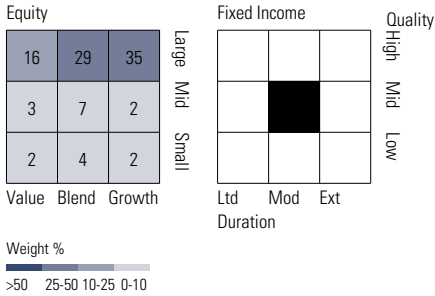
Morningstar Index
Morningstar Lifetime Mod Incm TR USD

Style Analysis as of 12-31-2022

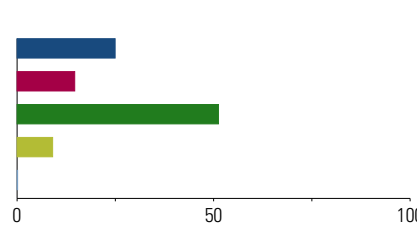
Morningstar Style Box™



Style Breakdown

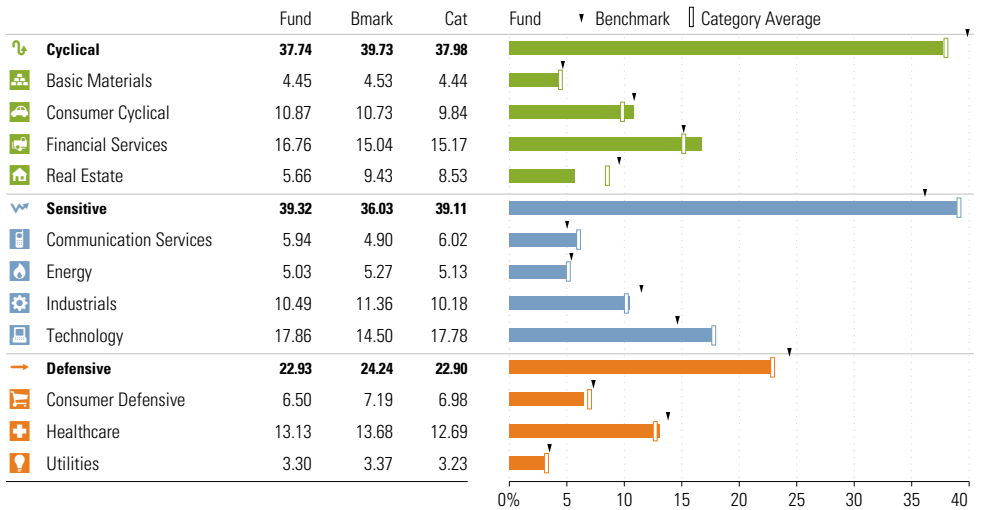


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	24.94	18.64
Non-US Stocks	14.66	10.39
Bonds	51.23	53.86
Cash	9.04	4.77
Other	0.13	12.36
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

MFS Growth R6 MFEKX

Morningstar Category
Large Growth

Morningstar Index
Russell 1000 Growth TR USD

Portfolio Manager(s)

Eric Fischman since 04-2002
Paul Gordon since 07-2017
Bradford Mak since 06-2021

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 20.76 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 0.49 is 48.96% lower than the Large Growth category average.

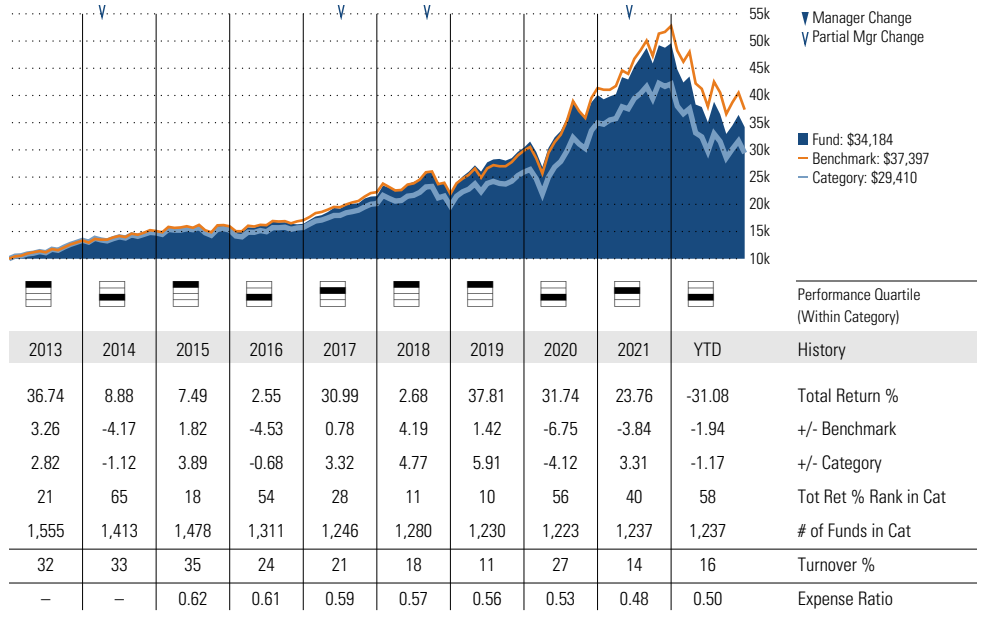
Morningstar Investment Management LLC Analysis

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

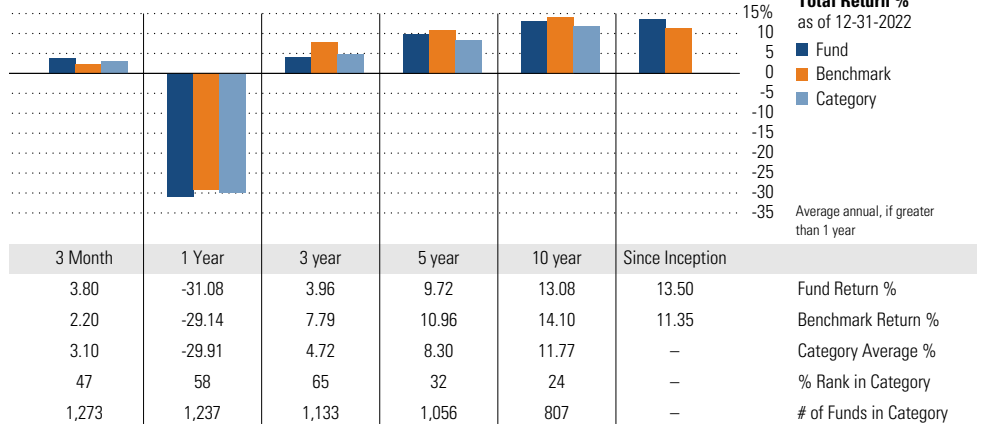
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	2-Basic	02-15-2022

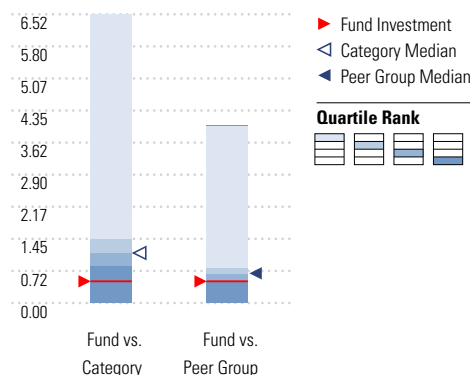
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-3.21	-	-2.73
Beta	0.93	-	0.97
R-Squared	97.94	-	93.03
Standard Deviation	22.34	23.80	24.00
Sharpe Ratio	0.24	0.39	0.27
Tracking Error	3.62	-	6.26
Information Ratio	-1.06	-	-0.62
Up Capture Ratio	88.74	-	89.56
Down Capture Ratio	98.04	-	97.48

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	28.82	24.23	23.83
Price/Book Ratio	6.45	8.23	6.53
Geom Avg Mkt Cap \$B	201.36	222.04	263.75
ROE	33.67	41.41	37.70

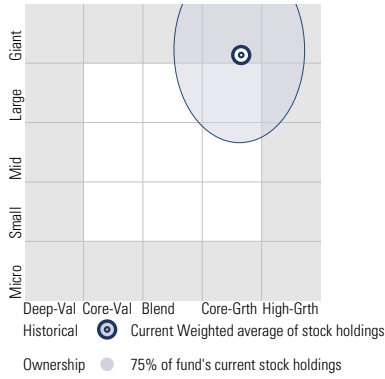
MFS Growth R6 MFEKX

Morningstar Category
Large Growth

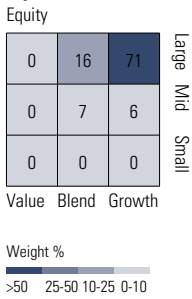
Morningstar Index
Russell 1000 Growth TR USD

Style Analysis as of 12-31-2022

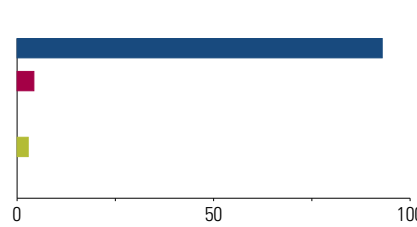
Morningstar Style Box™



Style Breakdown

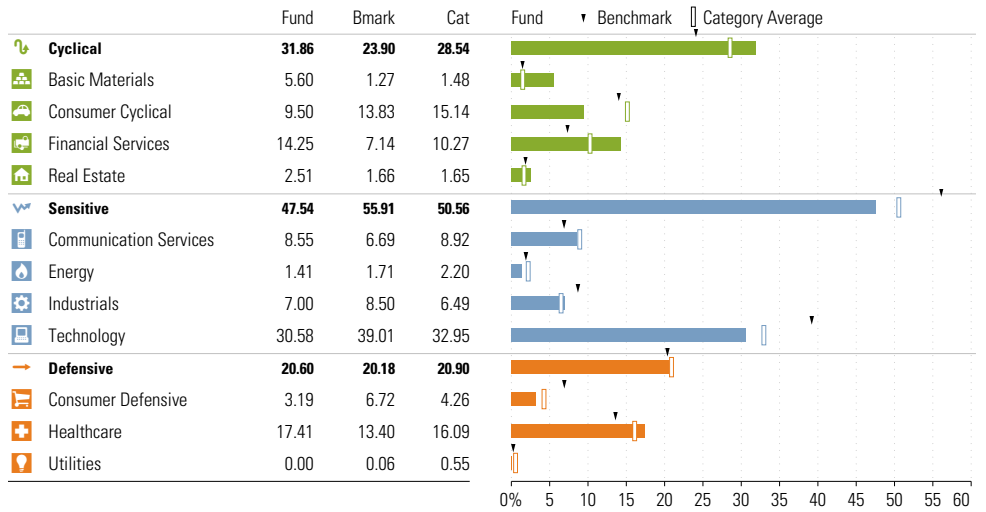


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	92.90	93.06
Non-US Stocks	4.27	4.43
Bonds	0.00	0.02
Cash	2.83	1.70
Other	0.00	0.80
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 0 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
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Total Holdings 0

⊕ Increase ⊖ Decrease ✨ New to Portfolio

MFS International Equity R6

MIEIX

Morningstar Category
Foreign Large Blend

Morningstar Index
MSCI ACWI Ex USA NR USD

Portfolio Manager(s)

Daniel Ling since 10-2009
Filipe Benzinho since 05-2016

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 13.26 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.68 is 23.6% lower than the Foreign Large Blend category average.

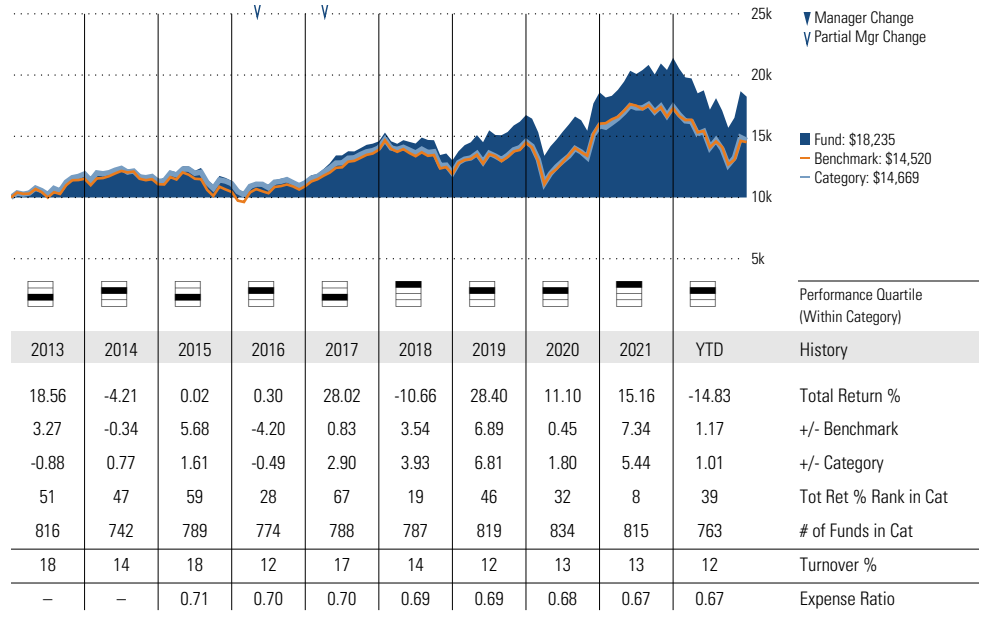
Morningstar Investment Management LLC Analysis

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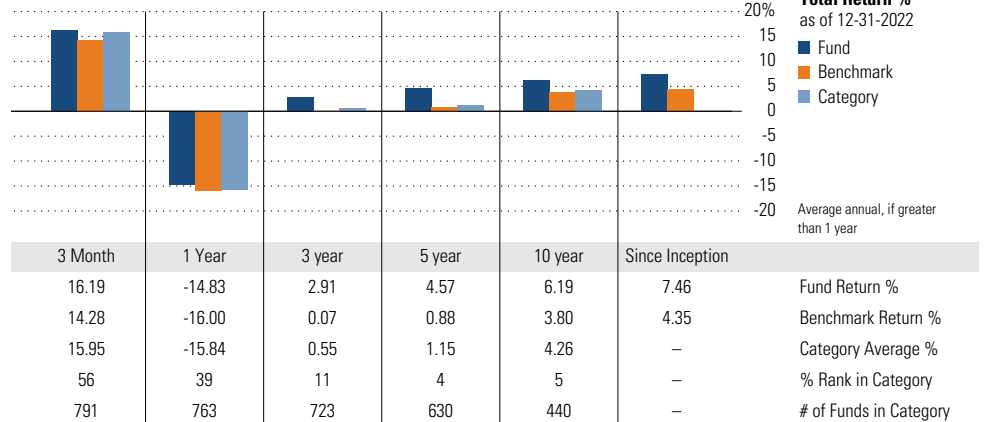
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	2-Basic	02-15-2022

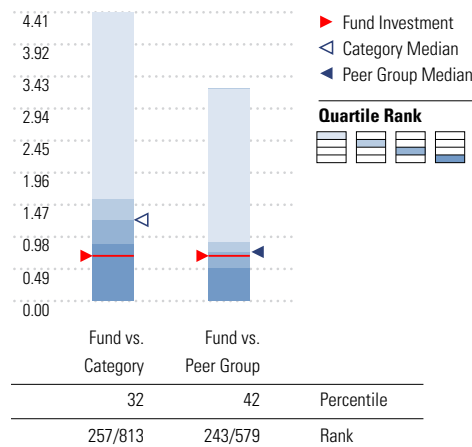
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	2.87	-	0.80
Beta	0.99	-	1.03
R-Squared	93.39	-	94.10
Standard Deviation	19.92	19.53	20.67
Sharpe Ratio	0.20	0.06	0.09
Tracking Error	5.13	-	5.04
Information Ratio	0.55	-	0.14
Up Capture Ratio	108.38	-	106.74
Down Capture Ratio	97.44	-	104.08

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	16.74	11.94	12.68
Price/Book Ratio	2.36	1.58	1.72
Geom Avg Mkt Cap \$B	58.33	39.70	47.23
ROE	20.02	18.39	20.83

MFS International Equity R6

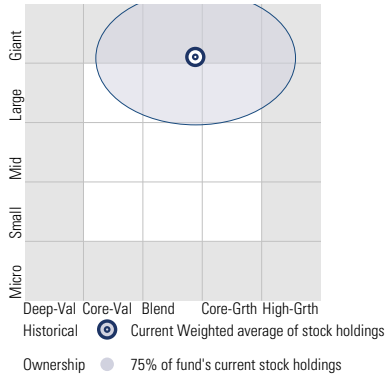
MIEIX

Morningstar Category
Foreign Large Blend

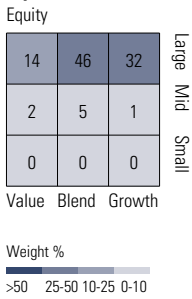
Morningstar Index
MSCI ACWI Ex USA NR USD

Style Analysis as of 12-31-2022

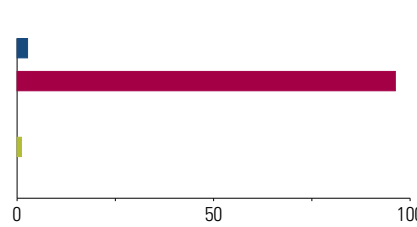
Morningstar Style Box™



Style Breakdown

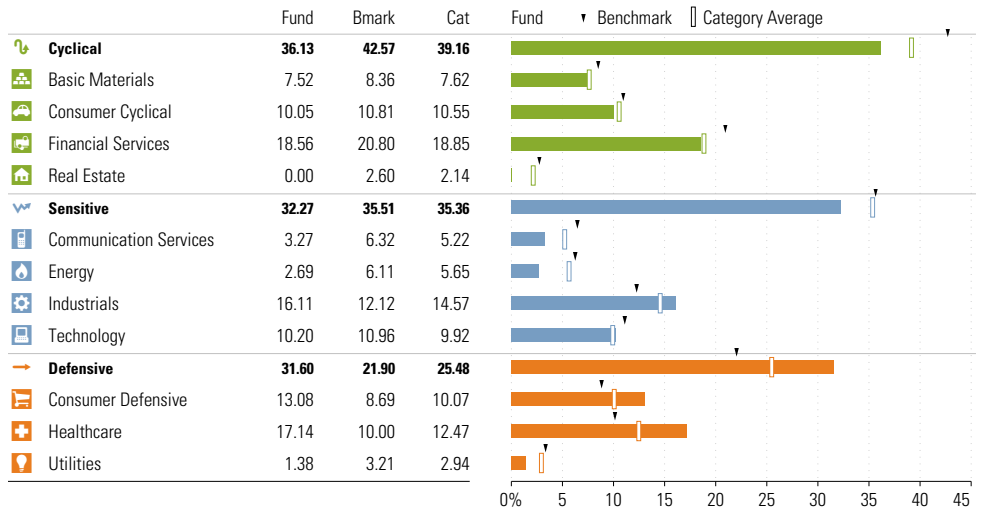


Asset Allocation as of 12-31-2022

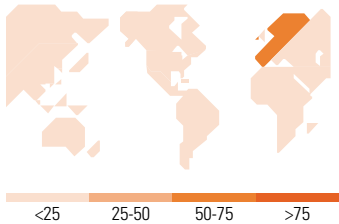


Asset Class	Net %	Cat%
US Stocks	2.66	2.74
Non-US Stocks	96.24	94.64
Bonds	0.00	0.21
Cash	1.10	1.20
Other	0.00	1.19
Total	100.00	100.00

Sector Weighting as of 12-31-2022



World Regions % Equity 12-31-2022



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	23.40	35.26	Americas	6.71	8.84	Greater Europe	69.89	55.90	Developed Markets	95.26
Japan	13.62	18.06	North America	6.71	7.61	United Kingdom	11.64	13.78	Emerging Markets	4.74
Australasia	0.00	5.40	Central/Latin	0.00	1.23	W euro-ex UK	56.85	40.87	Not Available	0.00
Asia-4 Tigers	5.04	6.66				Emrgng Europe	0.00	0.06		
Asia-ex 4 Tigers	4.74	5.14				Africa	1.40	1.19		
Not Classified	0.00	0.00								

Top 0 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Total Holdings 0				

⊕ Increase ⊖ Decrease ✨ New to Portfolio

PIMCO International Bond (USD-Hdg) Instl PFORX

Morningstar Category
Global Bond-USD Hedged

Morningstar Index
Bloomberg US Agg Bond TR USD

Portfolio Manager(s)

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

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 8.27 years.

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.51 is 31.08% lower than the Global Bond-USD Hedged category average.

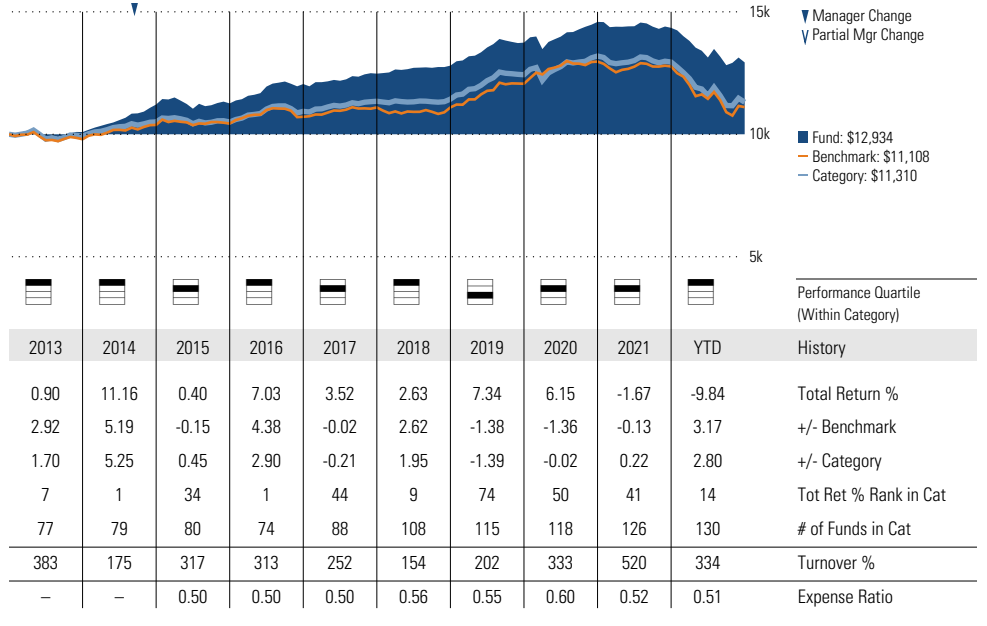
Morningstar Investment Management LLC Analysis

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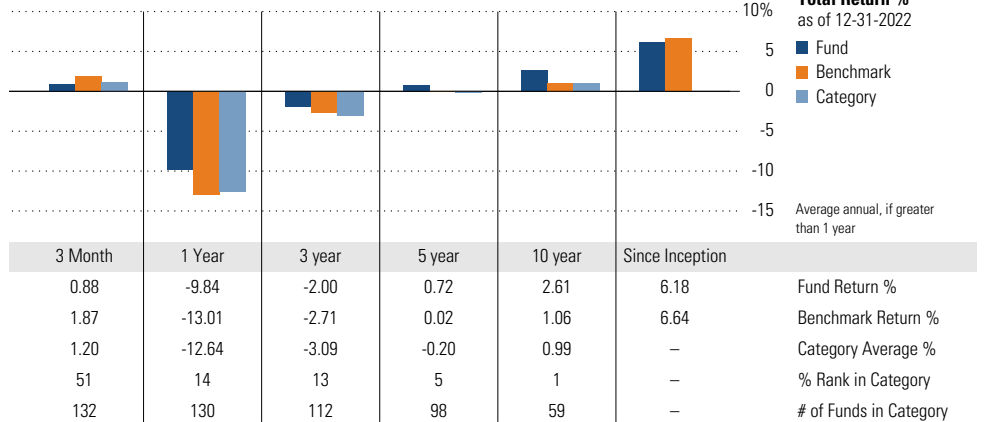
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023

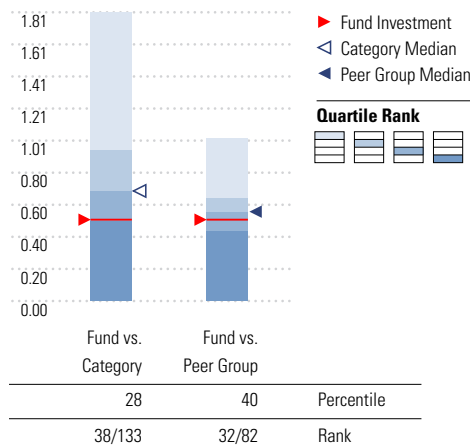
Growth of \$10,000



Trailing Performance



Net Expense



3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.27	-	-0.56
Beta	0.63	-	0.91
R-Squared	58.03	-	66.59
Standard Deviation	4.88	5.85	6.52
Sharpe Ratio	-0.56	-0.58	-0.59
Tracking Error	3.82	-	4.06
Information Ratio	0.19	-	-0.06
Up Capture Ratio	69.91	-	100.72
Down Capture Ratio	71.23	-	104.53

Portfolio Metrics

	Fund	Bmark	Cat
Avg Eff Duration	6.13	4.43	6.94
Avg Eff Maturity	7.22	-	8.12

PIMCO International Bond (USD-Hdg) Instl PFORX

Morningstar Category
Global Bond-USD Hedged

Morningstar Index
Bloomberg US Agg Bond TR USD

Style Analysis as of 12-31-2022

Style Breakdown



Asset Allocation as of 12-31-2022

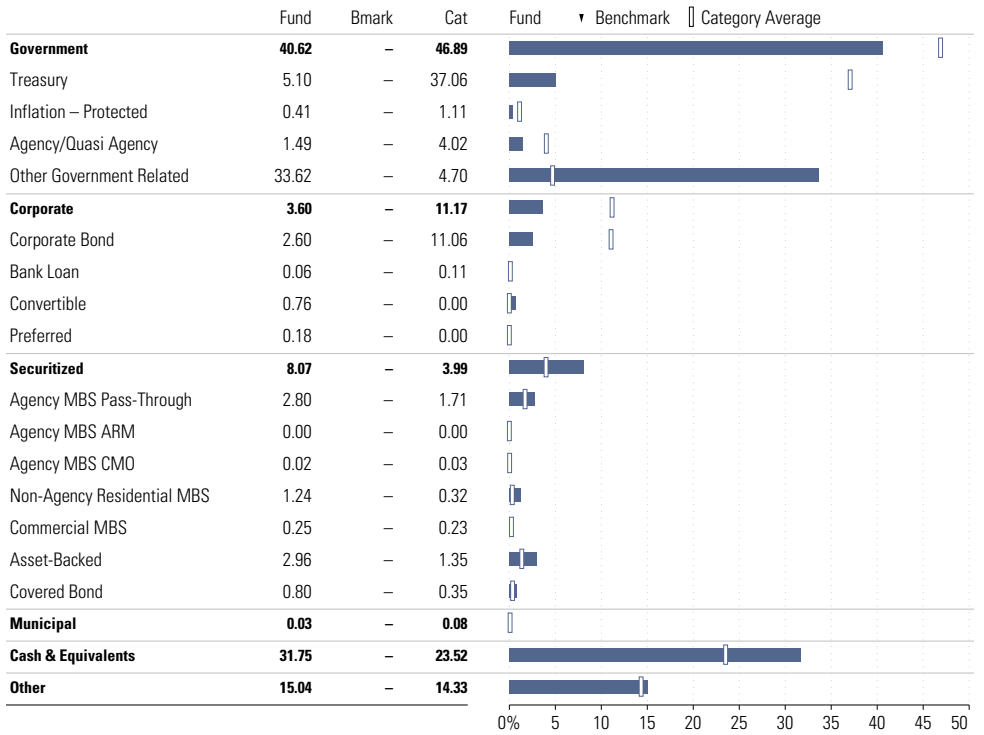


Asset Class	Net %	Cat%
US Stocks	0.00	0.00
Non-US Stocks	0.01	0.02
Bonds	109.83	88.81
Cash	-6.61	10.97
Other	-3.24	0.19
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	56.80	3.53	41.60
AA	13.68	74.59	18.48
A	16.98	10.82	17.45
BBB	7.77	8.32	20.42
BB	1.88	0.28	5.05
B	0.65	0.00	1.34
Below B	2.24	0.00	0.54
Not Rated	0.00	2.46	-4.87

Sector Weighting as of 12-31-2022



Top 10 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊖ 3 Month SOFR Future Dec 23	03-2024	23.07	23.07	-
⊕ IRS EUR 1.50000 03/15/23-5Y LCH Pay	03-2028	21.27	44.34	-
⊕ IRS EUR 1.50000 03/15/23-5Y LCH Receive	03-2028	19.56	63.90	-
⊕ Euro Schatz Future Mar 23	03-2023	15.07	78.96	-
⊕ 3 Month SOFR Future June 23	09-2023	13.57	92.54	-
⊕ 3 Month SOFR Future June 24	09-2024	11.63	104.16	-
⊕ IRS EUR 1.75000 03/15/23-10Y LCH Pay	03-2033	10.93	115.09	-
⊖ RFR USD SOFR/1.75000 06/15/22-5Y LCH Pay	06-2027	10.68	125.77	-
⊖ Euro Bobl Future Mar 23	03-2023	9.90	135.67	-
⊖ RFR USD SOFR/1.75000 06/15/22-5Y LCH Receive	06-2027	9.79	145.46	-

Total Holdings 1646

⊕ Increase ⊖ Decrease ✱ New to Portfolio

PIMCO Short-Term Instl PTSHX

Morningstar Category
Ultrashort Bond

Morningstar Index
Bloomberg US Agg Bond TR USD

Portfolio Manager(s)

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

Quantitative Screens

✔ **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 12.01 years.

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.45 is 2.17% lower than the Ultrashort Bond category average.

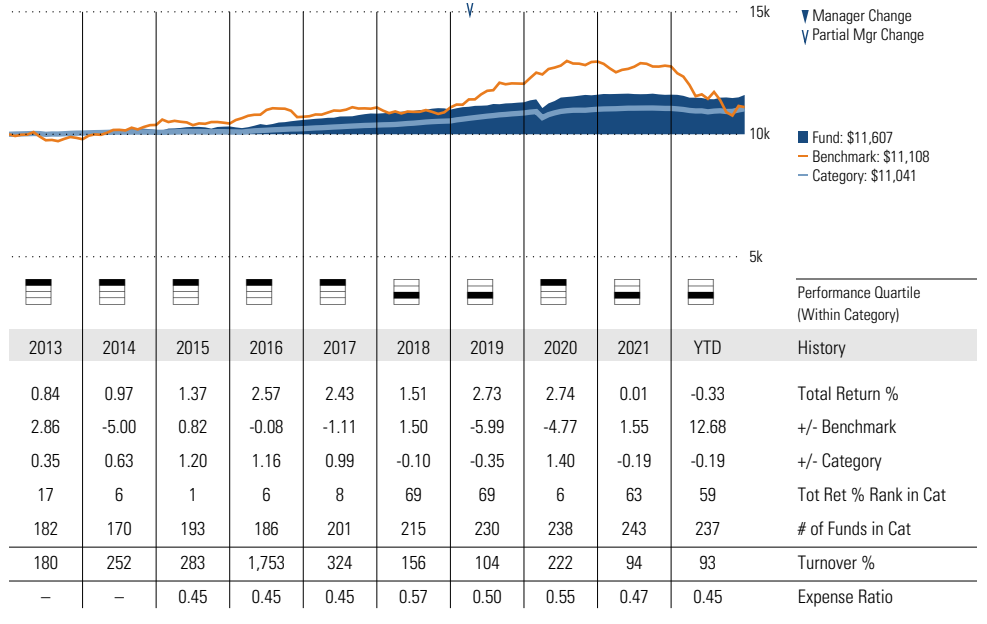
Morningstar Investment Management LLC Analysis

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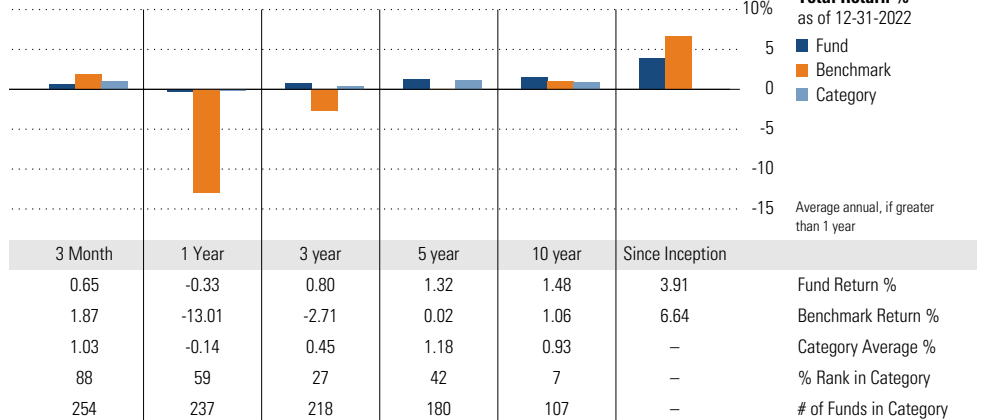
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023

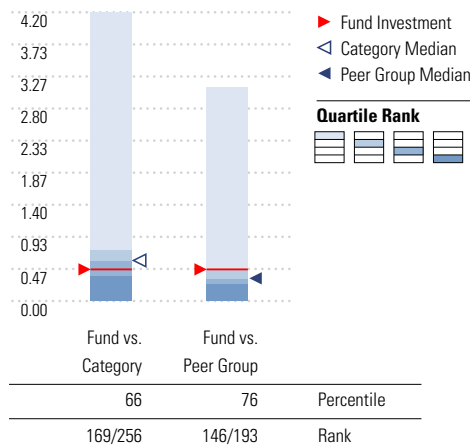
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	1.15	-	0.76
Beta	0.10	-	0.12
R-Squared	5.26	-	17.12
Standard Deviation	2.47	5.85	1.94
Sharpe Ratio	0.02	-0.58	-0.30
Tracking Error	5.81	-	5.59
Information Ratio	0.62	-	0.56
Up Capture Ratio	25.96	-	22.64
Down Capture Ratio	8.66	-	11.26

Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	0.09	4.43	0.72
Avg Eff Maturity	-	-	3.41

PIMCO Short-Term Instl PTSHX

Morningstar Category
Ultrashort Bond

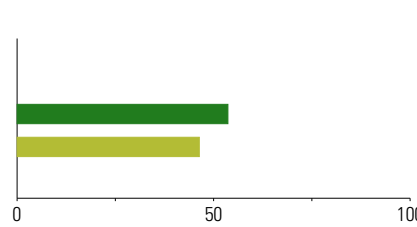
Morningstar Index
Bloomberg US Agg Bond TR USD

Style Analysis as of 12-31-2022

Style Breakdown



Asset Allocation as of 12-31-2022

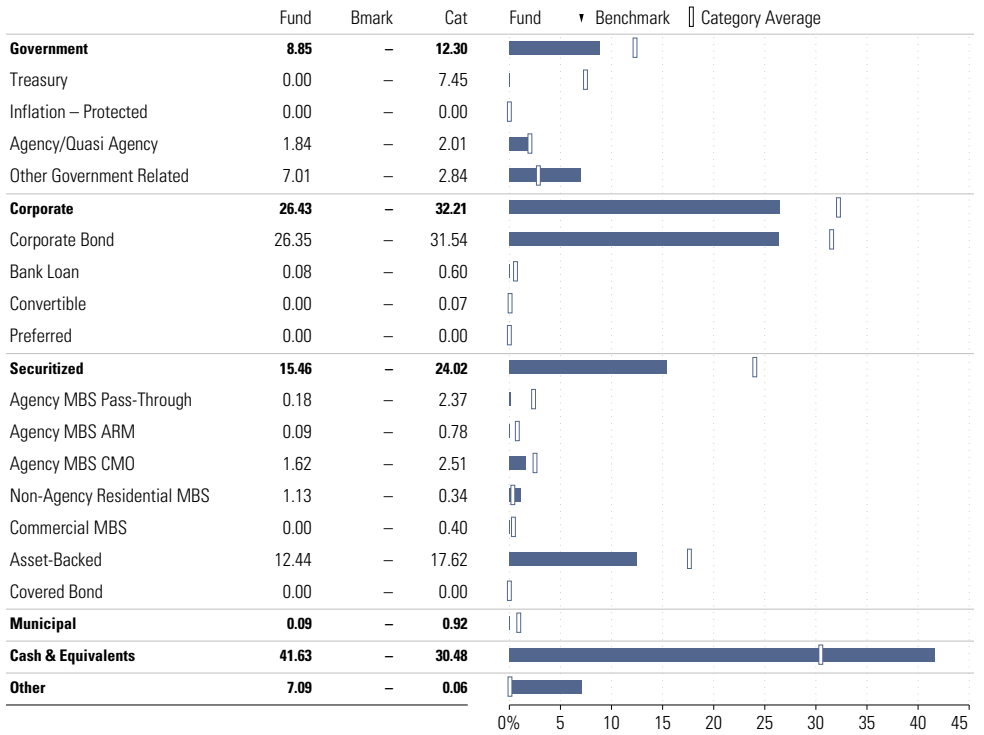


Asset Class	Net %	Cat%
US Stocks	0.00	0.00
Non-US Stocks	0.00	0.00
Bonds	53.64	65.14
Cash	46.36	35.06
Other	0.00	-0.20
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	41.71	3.53	45.58
AA	3.49	74.59	9.37
A	25.35	10.82	22.58
BBB	28.42	8.32	16.39
BB	0.54	0.28	0.81
B	0.30	0.00	0.43
Below B	0.19	0.00	0.09
Not Rated	0.00	2.46	4.75

Sector Weighting as of 12-31-2022



Top 10 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
✱ Cash Offset	-	38.27	38.27	-
⊕ 3 Month SOFR Future June 23	09-2023	24.63	62.90	-
⊖ CDX IG39 5Y ICE	12-2027	23.56	86.46	-
⊖ 2 Year Treasury Note Future Mar 23	04-2023	15.53	101.99	-
⊖ 5 Year Treasury Note Future Mar 23	04-2023	10.92	112.91	-
⊖ 3 Month SOFR Future June 24	09-2024	9.48	122.39	-
⊕ IRS USD R 3ML/1ML+9.75 01/13/22-23 CME Pay	01-2023	6.70	129.09	-
⊕ IRS USD R 3ML/1ML+9.75 01/13/22-23 CME Receive	01-2023	6.70	135.79	-
⊕ IRS USD R 3ML/1ML+9.8 01/13/22-23 CME Pay	01-2023	5.13	140.92	-
⊕ IRS USD R 3ML/1ML+9.8 01/13/22-23 CME Receive	01-2023	5.13	146.05	-

Total Holdings 1172

⊕ Increase ⊖ Decrease ✱ New to Portfolio

Vanguard 500 Index Admiral VFIAX

Morningstar Category
Large Blend

Morningstar Index
S&P 500 TR USD

Portfolio Manager(s)

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

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 6.68 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.04 is 94.81% lower than the Large Blend category average.

Morningstar Investment Management LLC Analysis

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

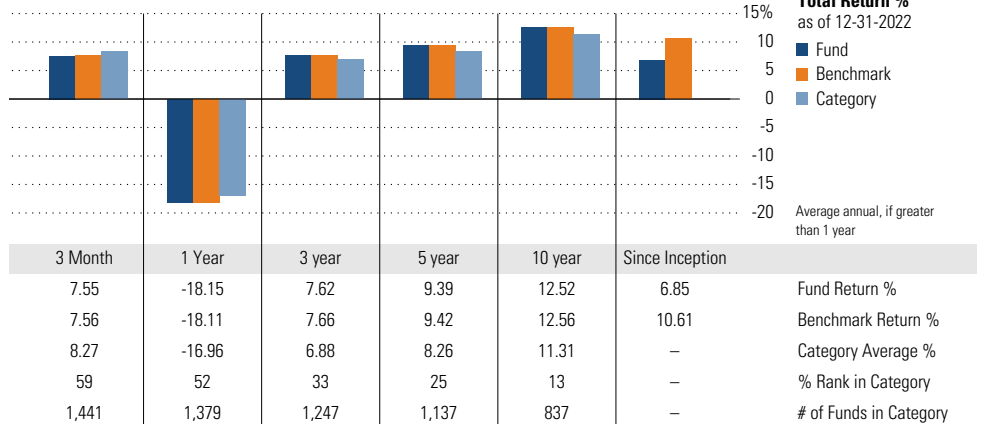
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023
Carbon Risk Score	Low Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	-0.04	-	-0.68
Beta	1.00	-	0.96
R-Squared	100.00	-	95.98
Standard Deviation	21.17	21.16	20.73
Sharpe Ratio	0.41	0.41	0.36
Tracking Error	0.01	-	3.95
Information Ratio	-3.96	-	-0.83
Up Capture Ratio	99.95	-	94.55
Down Capture Ratio	100.07	-	96.96

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	19.04	19.03	18.29
Price/Book Ratio	3.59	3.59	4.14
Geom Avg Mkt Cap \$B	161.35	161.22	211.02
ROE	31.18	31.17	36.63

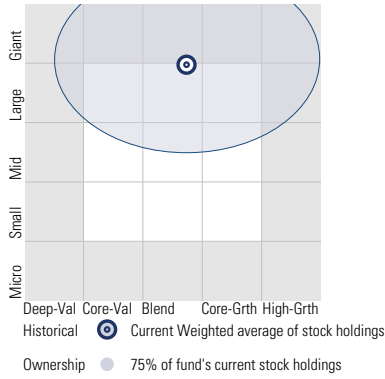
Vanguard 500 Index Admiral VFIAX

Morningstar Category
Large Blend

Morningstar Index
S&P 500 TR USD

Style Analysis as of 12-31-2022

Morningstar Style Box™



Style Breakdown



Asset Allocation as of 12-31-2022



Sector Weighting as of 12-31-2022



Top 15 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Apple Inc	6.03	6.03	-26.32	Technology
Microsoft Corp	5.55	11.58	-27.94	Technology
Amazon.com Inc	2.31	13.90	-49.62	Consumer Cyclical
Berkshire Hathaway Inc Class B	1.73	15.63	3.31	Financial Services
Alphabet Inc Class A	1.64	17.26	-39.09	Communication Svc
UnitedHealth Group Inc	1.54	18.80	6.86	Healthcare
Alphabet Inc Class C	1.46	20.26	-38.67	Communication Svc
Johnson & Johnson	1.43	21.69	5.86	Healthcare
Exxon Mobil Corp	1.41	23.10	86.06	Energy
JPMorgan Chase & Co	1.22	24.32	-12.79	Financial Services
NVIDIA Corp	1.13	25.45	-50.26	Technology
Procter & Gamble Co	1.12	26.57	-5.14	Consumer Defensive
Visa Inc Class A	1.05	27.62	-3.40	Financial Services
Tesla Inc	1.03	28.64	-65.03	Consumer Cyclical
The Home Depot Inc	1.00	29.65	-22.06	Consumer Cyclical

Total Holdings 509

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Vanguard Inflation-Protected Secs Adm VAIPX

Morningstar Category
Inflation-Protected Bond

Morningstar Index
Bloomberg US Treasury US TIPS TR USD

Portfolio Manager(s)

John Madziyire since 11-2021

Quantitative Screens

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

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

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.1 is 82.76% lower than the Inflation-Protected Bond category average.

Morningstar Investment Management LLC Analysis

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

ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023

Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	-0.07	-	0.15
Beta	0.97	-	0.92
R-Squared	99.49	-	88.43
Standard Deviation	6.84	7.01	6.90
Sharpe Ratio	0.07	0.08	0.11
Tracking Error	0.52	-	2.51
Information Ratio	-0.20	-	-0.22
Up Capture Ratio	96.37	-	92.15
Down Capture Ratio	97.08	-	90.88

Portfolio Metrics

	Fund	Bmark	Cat
Avg Eff Duration	6.54	4.52	5.55
Avg Eff Maturity	7.10	-	6.37

Vanguard Inflation-Protected Secs Adm VAIPX

Morningstar Category
Inflation-Protected Bond

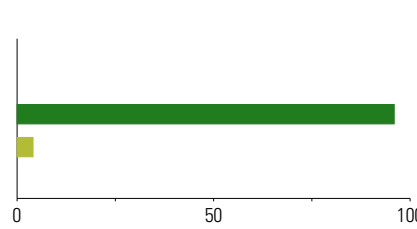
Morningstar Index
Bloomberg US Treasury US TIPS TR USD

Style Analysis as of 12-31-2022

Style Breakdown



Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	0.00	0.12
Non-US Stocks	0.00	0.00
Bonds	95.95	97.04
Cash	4.05	2.15
Other	0.00	0.70
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	95.88	0.00	88.32
AA	0.00	99.60	3.60
A	0.00	0.00	1.66
BBB	0.00	0.00	2.25
BB	0.00	0.00	0.50
B	0.00	0.00	0.15
Below B	0.00	0.00	0.14
Not Rated	4.12	0.40	3.38

Sector Weighting as of 12-31-2022



Top 10 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ Mktliq 12/31/2049	-	4.15	4.15	-
⊕ United States Treasury Notes	-	3.60	7.75	-
⊖ United States Treasury Notes	-	3.30	11.05	-
⊖ United States Treasury Notes	-	3.30	14.35	-
United States Treasury Notes	-	3.29	17.64	-
⊖ United States Treasury Notes	-	3.13	20.77	-
⊖ United States Treasury Notes	-	3.02	23.79	-
⊖ United States Treasury Notes	-	2.98	26.78	-
⊖ United States Treasury Notes	-	2.96	29.74	-
⊖ United States Treasury Notes	-	2.95	32.69	-

Total Holdings 58

⊕ Increase ⊖ Decrease ✱ New to Portfolio

Vanguard International Value Inv VTRIX

Morningstar Category
Foreign Large Value

Morningstar Index
MSCI EAFE NR USD

Portfolio Manager(s)

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

Quantitative Screens

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

Management: The fund's management has been in place for 12.6 years.

Style: The fund has landed in its primary style box — Large Value — 66.67 % of the time over the past three years.

Net Expense: The fund's expense ratio of 0.36 is 63.27% lower than the Foreign 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.

ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	01-31-2023
Carbon Risk Score	Medium Risk	12-31-2022

Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.66	-	0.43
Beta	1.04	-	1.04
R-Squared	92.63	-	90.02
Standard Deviation	21.95	20.25	22.18
Sharpe Ratio	0.13	0.10	0.12
Tracking Error	6.02	-	7.29
Information Ratio	0.07	-	0.01
Up Capture Ratio	101.35	-	102.04
Down Capture Ratio	99.77	-	101.68

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	12.12	12.65	9.31
Price/Book Ratio	1.53	1.56	1.15
Geom Avg Mkt Cap \$B	28.83	43.46	32.72
ROE	16.05	19.18	17.40

Vanguard International Value Inv VTRIX

Morningstar Category
Foreign Large Value

Morningstar Index
MSCI EAFE NR USD

Style Analysis as of 12-31-2022

Morningstar Style Box™



Style Breakdown

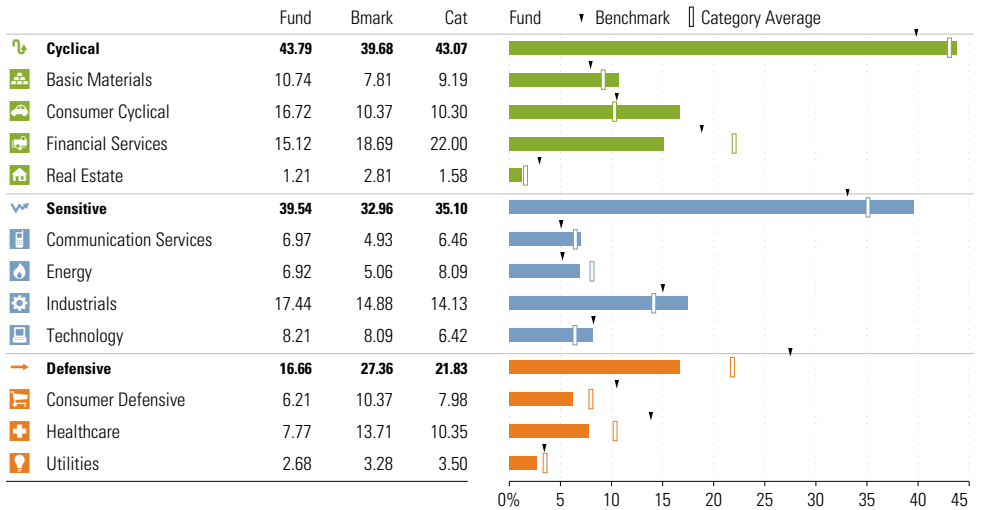


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	3.70	2.88
Non-US Stocks	92.25	95.13
Bonds	0.00	0.14
Cash	4.06	1.66
Other	0.00	0.19
Total	100.00	100.00

Sector Weighting as of 12-31-2022



World Regions % Equity 12-31-2022



Region	Fund %	Cat %	Region	Fund %	Cat %	Region	Fund %	Cat %	Market Maturity	Fund %
Greater Asia	40.34	31.96	Americas	9.51	8.66	Greater Europe	50.14	59.39	Developed Markets	79.78
Japan	10.52	17.50	North America	6.06	7.54	United Kingdom	14.97	17.54	Emerging Markets	20.22
Australasia	0.93	4.09	Central/Latin	3.45	1.12	W euro-ex UK	34.57	41.25	Not Available	0.00
Asia-4 Tigers	12.63	7.20				Emrgng Europe	0.00	0.13		
Asia-ex 4 Tigers	16.26	3.17				Africa	0.60	0.47		
Not Classified	0.00	0.00								

Top 10 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Mktliq 12/31/2049	3.37	3.37	-	-
⊕ Alibaba Group Holding Ltd Ordinary Shares	2.07	5.44	-25.68	Consumer Cyclical
⊕ AIA Group Ltd	1.81	7.25	17.53	Financial Services
⊕ BP PLC	1.61	8.86	40.92	Energy
⊕ Airbus SE	1.61	10.47	0.80	Industrials
⊖ Holcim Ltd	1.56	12.03	7.68	Basic Materials
⊖ TotalEnergies SE	1.37	13.40	41.32	Energy
⊖ HSBC Holdings PLC	1.37	14.77	13.95	Financial Services
⊖ Sands China Ltd Shs Unitary 144A/Reg S	1.17	15.94	54.39	Consumer Cyclical
RELX PLC	1.16	17.10	-7.61	Communication Svc

Total Holdings 224

⊕ Increase ⊖ Decrease ✨ 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
Awais Khan since 07-2021
Aurélie Denis since 02-2023

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 9.86 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.07 is 93.14% lower than the Mid-Cap Growth category average.

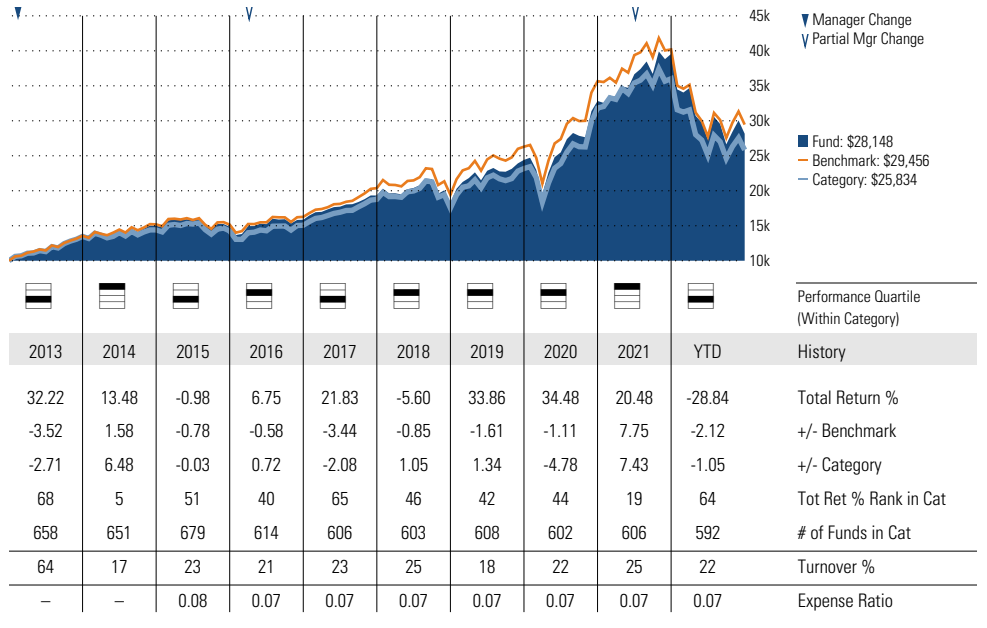
Morningstar Investment Management LLC Analysis

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

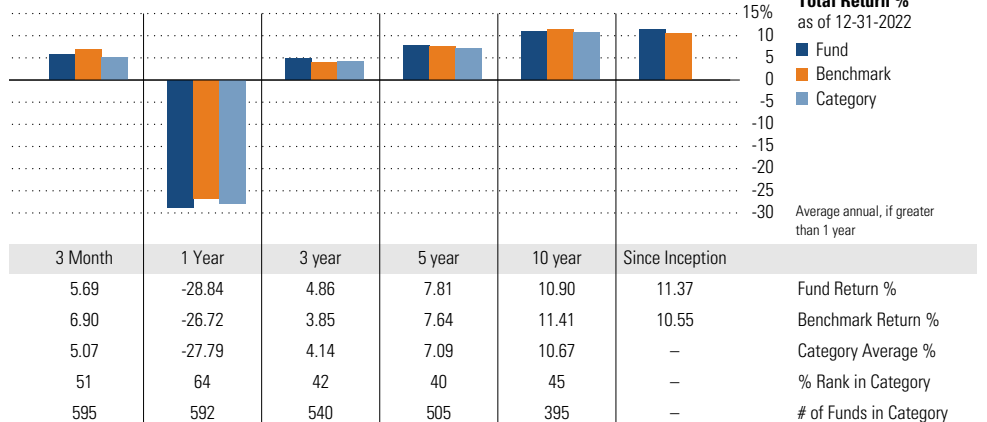
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	3	01-31-2023
Carbon Risk Score	Medium Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

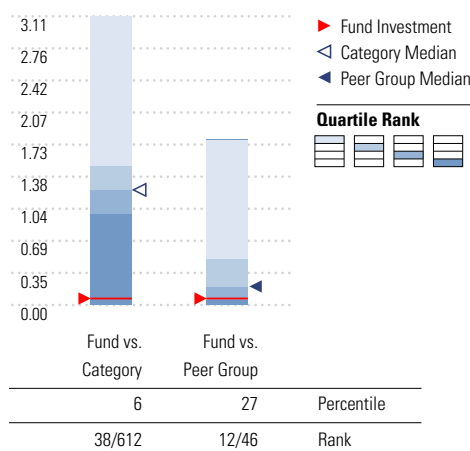
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	1.01	-	0.30
Beta	1.00	-	0.98
R-Squared	98.86	-	91.63
Standard Deviation	24.98	24.87	25.73
Sharpe Ratio	0.28	0.24	0.24
Tracking Error	2.67	-	7.31
Information Ratio	0.38	-	-0.10
Up Capture Ratio	102.23	-	99.65
Down Capture Ratio	99.40	-	99.89

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	24.13	22.87	25.56
Price/Book Ratio	4.29	5.66	4.02
Geom Avg Mkt Cap \$B	23.11	19.63	16.01
ROE	21.14	28.34	19.80

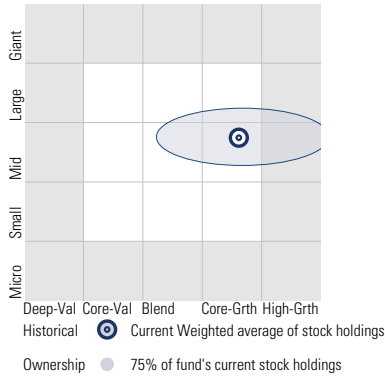
Vanguard Mid-Cap Growth Index Admiral VMGMX

Morningstar Category
Mid-Cap Growth

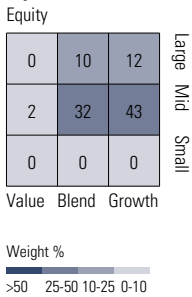
Morningstar Index
Russell Mid Cap Growth TR USD

Style Analysis as of 12-31-2022

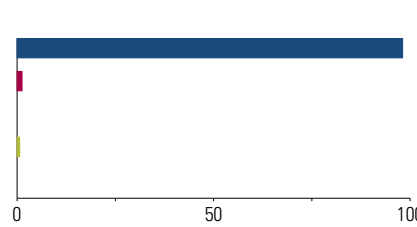
Morningstar Style Box™



Style Breakdown

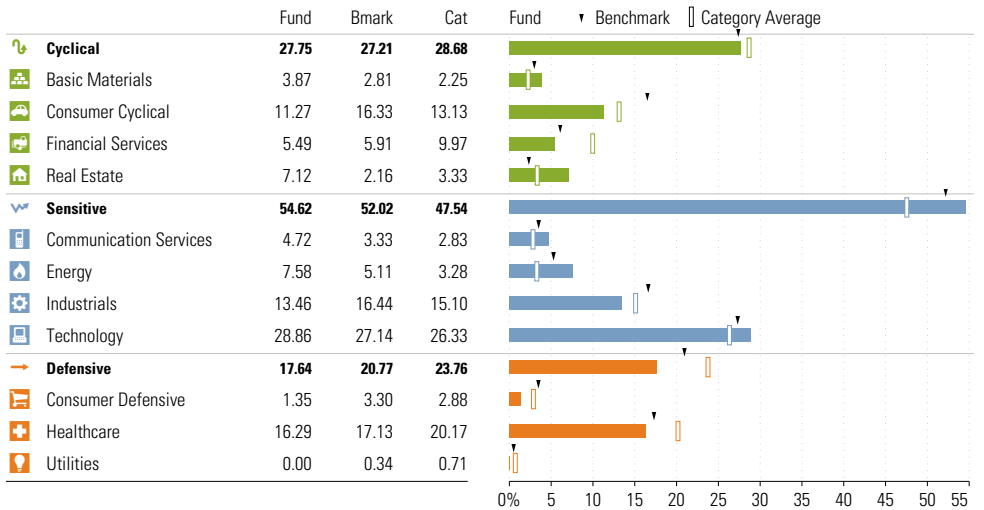


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	98.09	93.28
Non-US Stocks	1.25	3.72
Bonds	0.00	0.09
Cash	0.66	2.48
Other	0.00	0.44
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 15 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
⊖ Amphenol Corp Class A	1.66	1.66	-12.02	Technology
⊕ Cadence Design Systems Inc	1.62	3.28	-13.80	Technology
⊖ DexCom Inc	1.60	4.88	-15.64	Healthcare
⊕ Motorola Solutions Inc	1.58	6.46	-3.95	Technology
⊖ Devon Energy Corp	1.47	7.94	51.37	Energy
⊕ Realty Income Corp	1.46	9.40	-7.25	Real Estate
⊖ Hess Corp	1.44	10.84	93.60	Energy
⊕ Cintas Corp	1.43	12.27	2.85	Industrials
⊖ Microchip Technology Inc	1.42	13.69	-17.98	Technology
⊖ IQVIA Holdings Inc	1.40	15.08	-27.38	Healthcare
⊖ Cheniere Energy Inc	1.37	16.45	49.23	Energy
⊕ Enphase Energy Inc	1.32	17.77	44.83	Technology
⊖ MSCI Inc	1.30	19.07	-23.33	Financial Services
⊖ Waste Connections Inc	1.25	20.32	-2.03	Industrials
⊕ TransDigm Group Inc	1.19	21.51	1.87	Industrials

Total Holdings 169

⊕ Increase ⊖ Decrease ✨ New to Portfolio

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
Awais Khan since 07-2021
Aurélie Denis since 02-2023

Quantitative Screens

✔ **Performance:** The fund has finished in the Mid-Cap 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 16.38 years.

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

✔ **Net Expense:** The fund's expense ratio of 0.07 is 92.86% lower than the Mid-Cap Value category average.

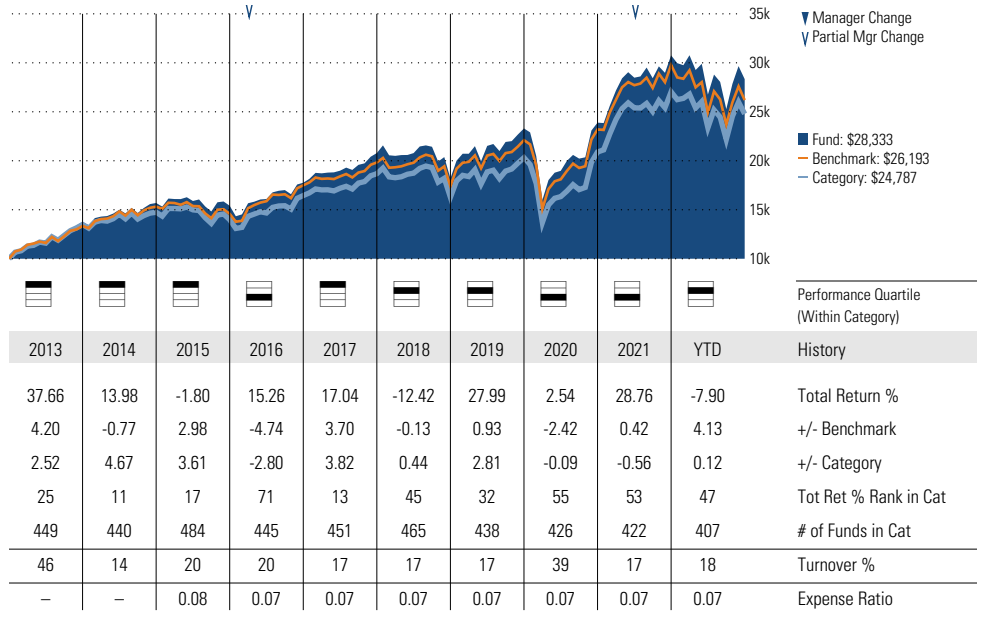
Morningstar Investment Management LLC Analysis

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

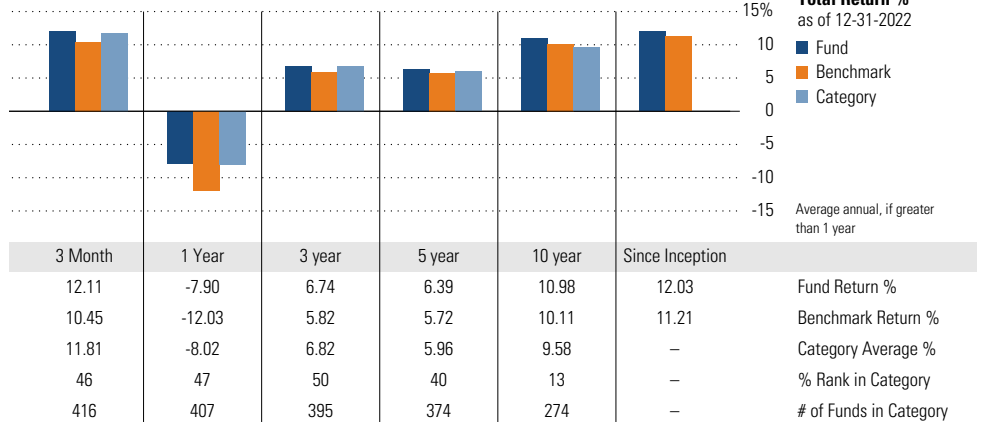
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	01-31-2023
Carbon Risk Score	Medium Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

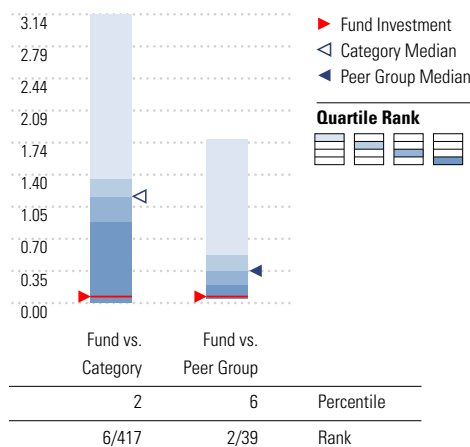
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	0.98	-	0.86
Beta	0.96	-	0.99
R-Squared	99.20	-	95.83
Standard Deviation	24.01	24.79	25.07
Sharpe Ratio	0.36	0.32	0.35
Tracking Error	2.32	-	5.36
Information Ratio	0.39	-	0.13
Up Capture Ratio	97.60	-	98.80
Down Capture Ratio	94.49	-	96.45

Portfolio Metrics

Metric	Fund	Bmark	Cat
Price/Earnings Ratio	13.43	13.97	12.92
Price/Book Ratio	2.15	2.06	1.88
Geom Avg Mkt Cap \$B	21.77	16.01	12.31
ROE	19.85	15.78	17.41

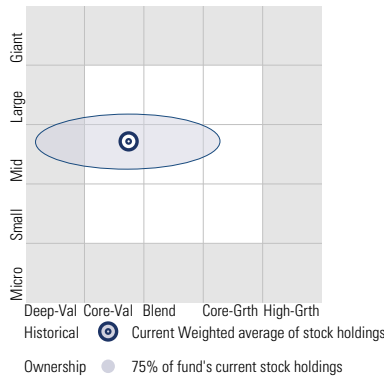
Vanguard Mid-Cap Value Index Admiral VMVAX

Morningstar Category
Mid-Cap Value

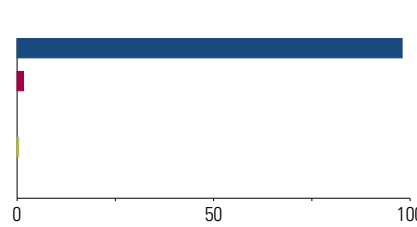
Morningstar Index
Russell Mid Cap Value TR USD

Style Analysis as of 12-31-2022

Morningstar Style Box™



Asset Allocation as of 12-31-2022

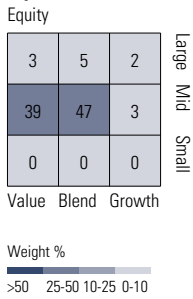


Asset Class	Net %	Cat%
US Stocks	97.96	90.71
Non-US Stocks	1.63	6.46
Bonds	0.00	0.01
Cash	0.41	2.42
Other	0.00	0.40
Total	100.00	100.00

Sector Weighting as of 12-31-2022

	Fund	Bmark	Cat	Fund	Benchmark	Category Average
Cyclical	43.78	45.64	42.06			
Basic Materials	5.46	6.13	5.40			
Consumer Cyclical	8.42	10.44	11.17			
Financial Services	19.07	17.74	19.04			
Real Estate	10.83	11.33	6.45			
Sensitive	27.26	33.31	34.28			
Communication Services	2.53	3.29	3.07			
Energy	4.62	5.54	6.21			
Industrials	13.10	14.82	16.35			
Technology	7.01	9.66	8.65			
Defensive	28.95	21.05	23.65			
Consumer Defensive	6.87	4.43	6.57			
Healthcare	8.50	7.55	10.58			
Utilities	13.58	9.07	6.50			

Style Breakdown



Top 15 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Centene Corp	1.48	1.48	-0.47	Healthcare
Corteva Inc	1.35	2.83	25.55	Basic Materials
Arthur J. Gallagher & Co	1.27	4.10	12.32	Financial Services
Carrier Global Corp Ordinary Shares	1.10	5.20	-22.78	Industrials
PG&E Corp	1.09	6.29	33.94	Utilities
Consolidated Edison Inc	1.08	7.36	15.41	Utilities
Nucor Corp	1.08	8.44	17.23	Basic Materials
Ameriprise Financial Inc	1.06	9.50	4.84	Financial Services
VICI Properties Inc Ordinary Shares	1.03	10.53	12.59	Real Estate
PACCAR Inc	0.99	11.52	16.88	Industrials
Keysight Technologies Inc	0.97	12.49	-17.16	Technology
Dollar Tree Inc	0.95	13.44	0.65	Consumer Defensive
Rockwell Automation Inc	0.94	14.39	-24.86	Industrials
WEC Energy Group Inc	0.94	15.33	-0.41	Utilities
Baker Hughes Co Class A	0.94	16.27	25.77	Energy

Total Holdings 198

⊕ Increase ⊖ Decrease ✨ New to Portfolio

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

✔ **Performance:** The fund has finished in the Small 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 18.01 years.

✘ **Style:** The fund has landed in its primary style box — Small Growth — 54.55 % 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 Growth category average.

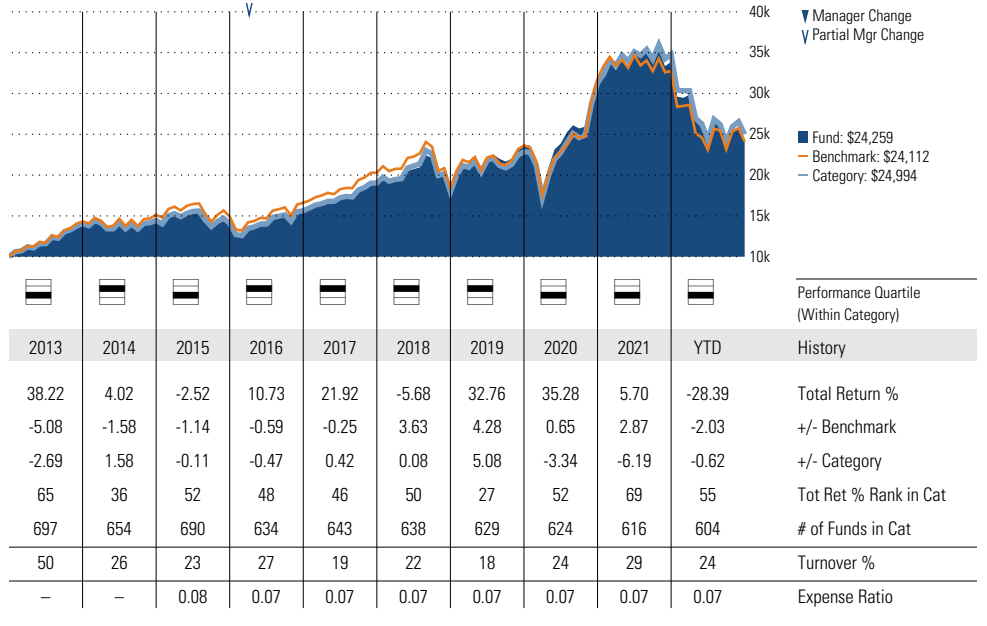
Morningstar Investment Management LLC Analysis

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

ESG Metrics

Metric	Rating	Updated
Sustainability Rating	4	01-31-2023
Carbon Risk Score	Medium Risk	12-31-2022
ESG Commitment	1-Low	02-15-2022

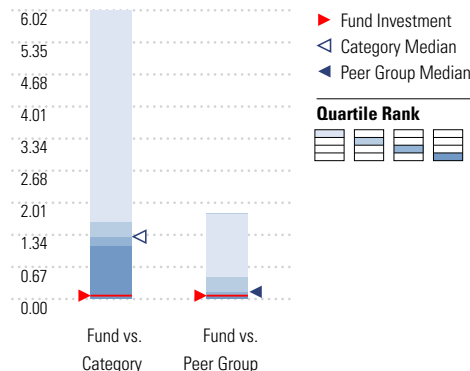
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

	Fund	Bmark	Cat
Alpha	0.12	-	2.83
Beta	0.95	-	0.95
R-Squared	96.74	-	91.46
Standard Deviation	25.67	26.57	26.53
Sharpe Ratio	0.12	0.12	0.22
Tracking Error	4.82	-	7.92
Information Ratio	0.03	-	0.35
Up Capture Ratio	97.98	-	101.46
Down Capture Ratio	97.66	-	94.05

Portfolio Metrics

	Fund	Bmark	Cat
Price/Earnings Ratio	19.99	13.28	21.13
Price/Book Ratio	3.26	3.39	3.57
Geom Avg Mkt Cap \$B	4.85	2.51	4.52
ROE	10.83	12.50	12.24

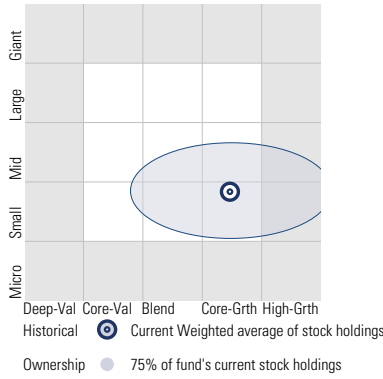
Vanguard Small Cap Growth Index Admiral VSGAX

Morningstar Category
Small Growth

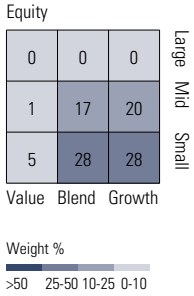
Morningstar Index
Russell 2000 Growth TR USD

Style Analysis as of 12-31-2022

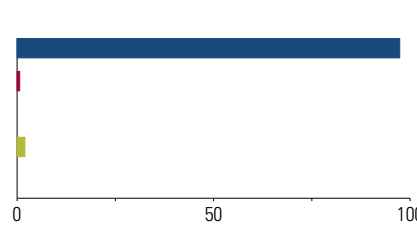
Morningstar Style Box™



Style Breakdown

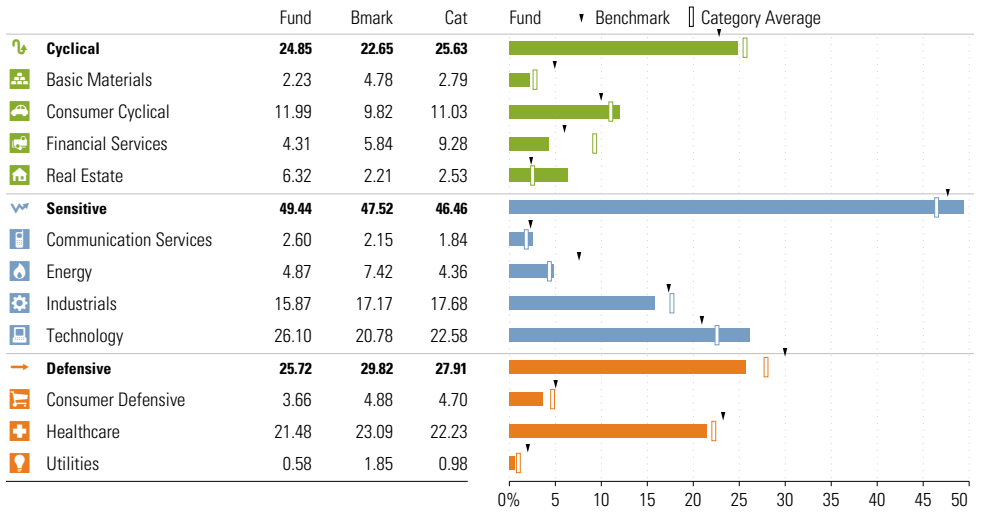


Asset Allocation as of 12-31-2022



Asset Class	Net %	Cat%
US Stocks	97.36	92.50
Non-US Stocks	0.66	4.22
Bonds	0.00	0.01
Cash	1.98	2.51
Other	0.00	0.76
Total	100.00	100.00

Sector Weighting as of 12-31-2022



Top 15 Holdings as of 12-31-2022

Name	% Net Asset	Cumulative %	YTD Return %	Morningstar Sector
Slcmt1142	1.82	1.82	-	-
Targa Resources Corp	0.92	2.74	43.38	Energy
Fair Isaac Corp	0.82	3.56	38.03	Technology
Bio-Techne Corp	0.72	4.28	-35.67	Healthcare
PTC Inc	0.70	4.98	-0.92	Technology
Nordson Corp	0.67	5.65	-5.97	Industrials
The Toro Co	0.65	6.30	14.54	Industrials
Liberty Formula One Group C	0.65	6.95	-5.47	Communication Svc
Neurocrine Biosciences Inc	0.63	7.58	40.24	Healthcare
Graco Inc	0.62	8.20	-15.53	Industrials
Axon Enterprise Inc	0.62	8.82	5.69	Industrials
Equity Lifestyle Properties Inc	0.60	9.42	-24.44	Real Estate
Sarepta Therapeutics Inc	0.60	10.01	43.90	Healthcare
Deckers Outdoor Corp	0.58	10.60	8.97	Consumer Cyclical
Darling Ingredients Inc	0.55	11.15	-9.67	Consumer Defensive

Total Holdings 697

⊕ Increase ⊖ Decrease ✨ New to Portfolio

Western Asset Core Bond IS WACSX

Morningstar Category
Intermediate Core Bond

Morningstar Index
Bloomberg US Agg Bond TR USD

Portfolio Manager(s)

Mark Lindbloom since 12-2006
S. Leech since 08-2013
Julien Scholnick since 05-2016
Frederick Marki since 05-2018
John Bellows since 05-2018

Quantitative Screens

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

✔ **Management:** The fund's management has been in place for 16.02 years.

Style Consistency is not calculated for Fixed Income funds.

✔ **Net Expense:** The fund's expense ratio of 0.43 is 23.21% lower than the Intermediate Core Bond category average.

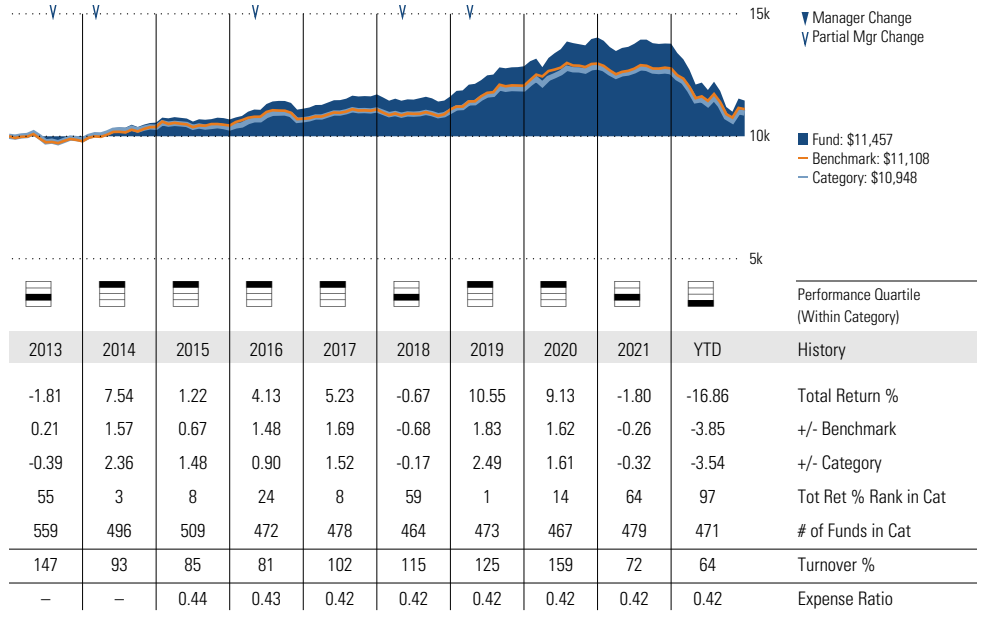
Morningstar Investment Management LLC Analysis

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

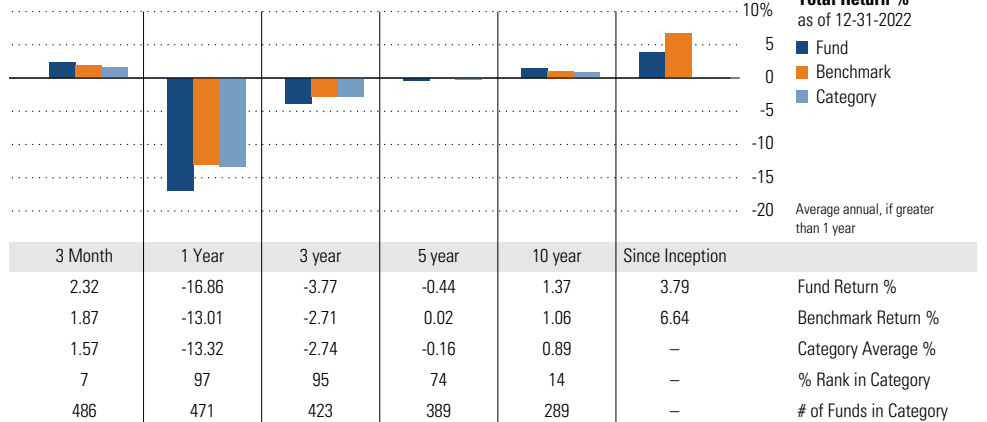
ESG Metrics

Metric	Rating	Updated
Sustainability Rating	2	01-31-2023

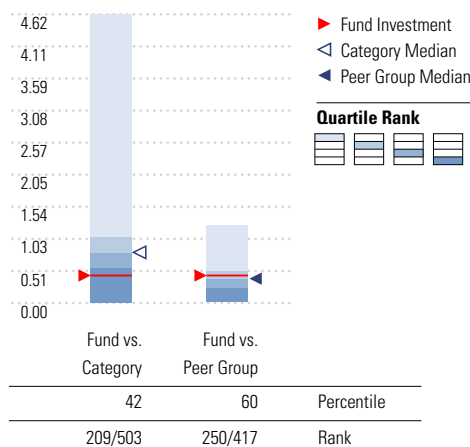
Growth of \$10,000



Trailing Performance



Net Expense



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

3-Year Risk Metrics

Metric	Fund	Bmark	Cat
Alpha	-0.35	-	0.03
Beta	1.24	-	1.00
R-Squared	93.70	-	92.92
Standard Deviation	7.53	5.85	6.12
Sharpe Ratio	-0.58	-0.58	-0.56
Tracking Error	2.37	-	1.54
Information Ratio	-0.45	-	-0.09
Up Capture Ratio	127.90	-	104.58
Down Capture Ratio	131.08	-	103.15

Portfolio Metrics

Metric	Fund	Bmark	Cat
Avg Eff Duration	7.11	4.43	6.05
Avg Eff Maturity	15.02	-	8.25

Western Asset Core Bond IS WACSX

Morningstar Category
Intermediate Core Bond

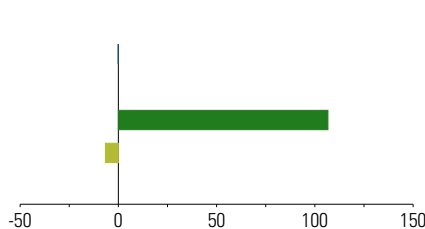
Morningstar Index
Bloomberg US Agg Bond TR USD

Style Analysis as of 12-31-2022

Style Breakdown



Asset Allocation as of 12-31-2022

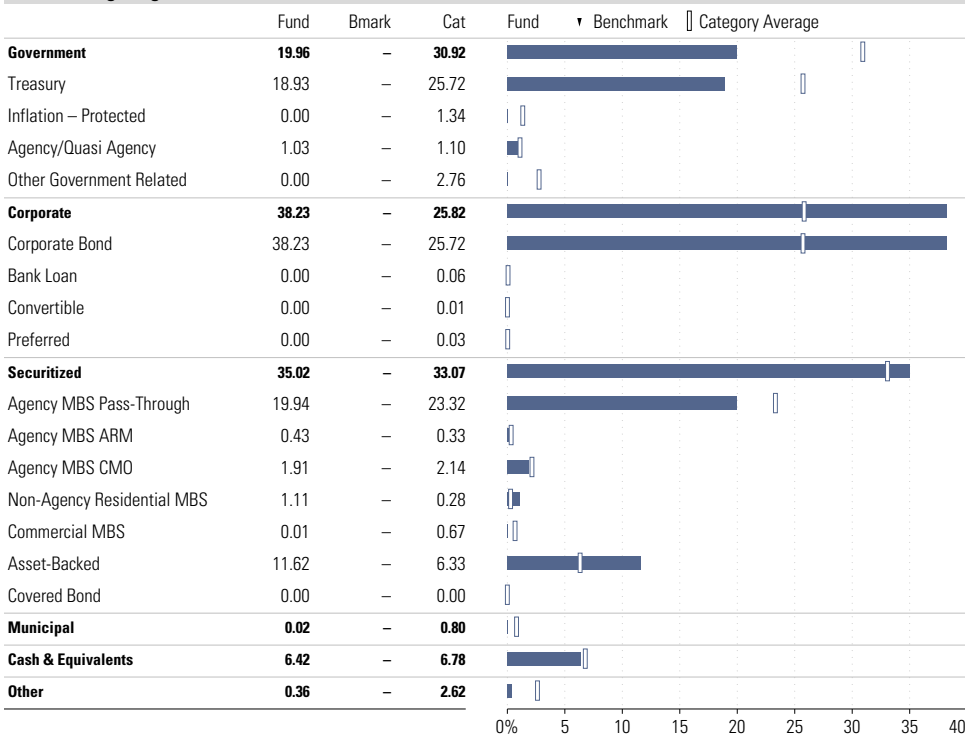


Asset Class	Net %	Cat%
US Stocks	-0.07	0.10
Non-US Stocks	0.00	0.02
Bonds	106.65	95.92
Cash	-6.58	2.10
Other	0.00	1.87
Total	100.00	100.00

Credit Rating Breakdown

	Fund	Bmark	Cat
AAA	63.77	3.53	54.60
AA	7.27	74.59	8.55
A	14.87	10.82	17.15
BBB	19.01	8.32	16.13
BB	1.06	0.28	1.41
B	0.04	0.00	0.45
Below B	0.00	0.00	0.18
Not Rated	-6.02	2.46	1.53

Sector Weighting as of 12-31-2022



Top 10 Holdings as of 12-31-2022

Name	Maturity Date	% Net Asset	Cumulative %	Fixed Income Sector
⊕ Trade Date Cash	-	10.22	10.22	-
⊕ Western Asset Prem Instl Govtt Rsrv Pref	-	4.77	14.99	-
⊖ United States Treasury Bonds 1.875%	-	3.63	18.62	-
⊕ United States Treasury Notes 4.125%	10-2027	2.60	21.22	-
⊖ Usd Swap Contra Asset	-	2.52	23.74	-
⊕ United States Treasury Bonds 4%	-	1.65	25.39	-
⊕ Federal National Mortgage Association 2.5%	-	1.44	26.83	-
⊕ Federal National Mortgage Association 3%	-	1.43	28.26	-
⊕ Federal National Mortgage Association 3.5%	-	1.32	29.58	-
⊕ United States Treasury Bonds 4%	-	1.29	30.87	-

Total Holdings 2494

⊕ Increase ⊖ Decrease ✱ New to Portfolio