Total Assets

\$31,664 mil

Yield

Ticker

Mstar Category

Mid-Cap Growth

Data through May 31, 2019 FINRA members: For internal or institutional use only.

T. Rowe Price Mid-Cap Growth

Benchmark 1: Russell Mid Cap Growth TR USD Benchmark 2: S&P 500 TR USD

Morningstar Analyst Rating 05-28-19

₩ Gold

Morningstar Pillars	
Process	Positive
Performance	Positive
People	Positive
Parent	Positive
Price	♠ Positive

Morningstar Analyst Rating

Morningstar evaluates mutual funds based on five key pillars, which its analysts believe lead to funds that are more likely to outperform over the long term on a risk-adjusted basis

3 Bronze

Neutral

Negative

Analyst Rating Spectrum C3 Gold Silver

Pillar Spect	rum				
Positive		Nega	ative	0	Neutral
Perform	nance OS	5-31-19			
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
2015	6.52	1.29	-6.08	5.16	6.56
2016	-0.42	1.94	4.22	0.48	6.30
2017	8.16	5.97	4.31	4.43	24.86
2018	4.06	0.91	7.42	-13.15	-2.04
2019	16.21	_	_	_	_
Trailing	Total	+/- Bmark	+/- Bmark	%Rank	Growth of

2019	16.21	_	_	_	_
Trailing	Total	+/- Bmark	+/- Bmark	%Rank	Growth of
	Return%	1	2	Cat	\$10,000
3 Mo	-0.25	-0.06	0.42	52	9,975
6 Mo	4.94	-2.18	4.21	58	10,494
1 Yr	7.43	0.56	3.65	26	10,743
3 Yr Avg	13.31	-0.57	1.59	41	14,549
5 Yr Avg	11.90	1.62	2.24	16	17,542
10 Yr Avg	16.04	0.75	2.10	10	44,282
15 Yr Avg	11.44	1.57	3.05	5	50,789

Tax Analysis	Tax Adj Rtn%	%Rank Cat	Tax-Cost Rat	%Rank Cat
3 Yr (estimated)	11.26	44	1.81	63
5 Yr (estimated)	9.72	21	1.95	57
10 Yr (estimated) 14.36	17	1.45	60

Potential Capital Gain Exposure: 24% of assets

Historical Profile Return Above Avg Risk Below Avg Rating **** Growth of \$10,000 Highest 40.0 30.0 — Investment Values of Fund Investment Values of Benchmark 1 10.0 Performance Quartile (within Category) 2009 2013 2014 2017 05-19 2010 2011 2012 2015 2016 2018 History 47.49 58.53 52.73 56.47 72.78 75.44 73.32 75.37 87.02 76.38 87.68 NAV 13.91 Total Return % 28.06 36.89 13.16 24.86 -0.85 1 68 0 44 -1.89 1.15 1 25 6.76 -1 03 -0.41 2.71 -3.01+/- Bmark 1 18.98 13.00 -3.32 2.35 4.06 +/- Bmark 2 -2.094.50 -0.535.18 -5.66 3.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.14 0.00 Income Return % 45.44 28.06 -1.21 13.91 6.30 14.79 Capital Return % 36.89 13.16 24.86 -2.18 6.56 28 Total Rtn % Rank Cat 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.12 0.00 Income \$ 0.03 2 27 4 89 3 54 4.34 6 67 6.97 2 60 7 00 9 14 0.00 Capital Gains \$ 0.80 0.80 0.78 0.77 0.76 0.75 Expense Batio % 0.83 0.80 0.77 0.77 -0.34 -0.23 Income Ratio % -0.26 -0.12 0.02 -0.18 -0.03 -0.03 0.15 -0.09 Turnover Rate % 30 21,698 14,664 18,951 16,308 16,860 22,677 22.834 21,468 24,810 21,085 23.653 Net Assets \$mil

Ratin	g and Ris	k		
Time	Load-Adj	Morningstar	Morningstar	Morningstar
Period	Return %	Rtn vs Cat	Risk vs Cat	Risk-Adj Rating
1 Yr	7.43			
3 Yr	13.31	Avg	Low	****
5 Yr	11.90	+ Avg	-Avg	****
10 Yr	16.04	High	-Avg	****
Incept	13.55	_	_	

Other Measures	Standard Index	Best Fit Index
Alpha	1.5	3.2
Beta	1.00	0.91
R-Squared	90	93
Standard Deviation	12.33	
Mean	13.31	
Sharpe Ratio	0.96	

Morningstar's Take by Katie Rushkewicz Reichart 05-28-19

T. Rowe Price Mid-Cap Growth remains one of the most consistent funds around and earns a Morningstar Analyst Rating of Gold.

As this closed strategy's only manager since its 1992 inception, Brian Berghuis is a beacon of stability. But beyond experience, his level-headedness and patience have helped avoid major performance pitfalls along the way while also setting the tone for what investors should expect from this moderate-growth portfolio.

Amid a 10-year bull market, Berghuis is wary of valuations, as he was during the late-1990s tech bubble. Much like then, he's stuck to his valuationsensitive approach, limiting technology exposure relative to the Russell Midcap Growth Index and holding 6% in cash as of March 2019, as he's unwilling to pile into companies whose prices don't justify their prospects. The Morningstar Risk Model supports the portfolio's temperate stance: It has less exposure to momentum, volatility, and growth than the benchmark and is more valuation-conscious, a profile he's stuck

T. Rowe Price Mid-cap Growth Fund, Inc. Address:

06-30-92 Advisor: None

Subadvisor

Baltimore MD 21202 800-638-5660 Web Address: www.troweprice.com Incention: T. Rowe Price Associates, Inc. with even though it's dragged on relative results in 2019's first five months.

But exhibiting caution in speculative markets has paid off time and again. While the strategy ranked in the mid-growth Morningstar Category's 85th percentile in 1999's growth-fueled environment, its positioning shielded it when the tech bubble burst, with it posting half the losses of the category and benchmark from March 2000 to October 2002. More recently, it held up nearly 3 percentage points better than the benchmark in 2018's fourth quarter sell-off. The result is an enviable long-term risk-adjusted record. Despite an astoundingly large asset base of \$62 billion across the strategy. Berghuis hasn't missed a beat: Its trailing five-, 10-, and 15-year gains through April land in the category's top 15% or better and outpace the benchmark.

Key-person risk is the strategy's greatest downside. In his early 60s, Berghuis is closer to the end of his career than the beginning. While T. Rowe is among the best when it comes to enacting smooth management transitions, his successor will have big

SHOES TO IIII.				
Minimum Purchase:	\$2500	Add: \$100	IRA: \$1000	
Min Auto Inv Plan:	_	Add: \$100		
Sales Fees:	No-load			
Management Fee:	0.35% mx.	/0.30% mn., 0	.15%A	
Actual Fees:	Mgt:0.61%	b Dist:—		
Expense Projections:	3Yr:\$240	5Yr:\$417	10Yr:\$930	
Income Distribution:	Annually			

Total Stocks: 135			
Share change since 12-31-18	Sector	YTD Ret %	% Assets
⊕ Reserve Invt Fds	_	_	6.00
Teleflex Inc Teleflex Inc	HIth Care	11.80	2.50
The Cooper Companies Inc	HIth Care	17.02	2.12
Microchip Technology Inc	Technology	12.29	1.98
Hologic Inc	HIth Care	7.08	1.96
Agilent Technologies Inc	HIth Care	-0.36	1.79
⊕ Harris Corp	Technology	40.04	1.78
Ball Corp	Cnsmr Cyc	34.06	1.70
Textron Inc	Industrl	-1.46	1.66
 Keysight Technologies Inc 	Technology	21.02	1.60
IAC/InterActiveCorp	Technology	20.66	1.54
Norwegian Cruise Line Hol	Cnsmr Cyc	29.06	1.49
─ Workday Inc Class A	Technology	27.83	1.47
─ Willis Towers Watson PLC	Finan Svcs	16.00	1.40
Roper Technologies Inc	Industrl	29.39	1.36
─ Worldpay Inc Class A	Industrl	59.15	1.35
□ IDEX Corp □	Industrl	21.69	1.33
TD Ameritrade Holding Cor	Finan Svcs	2.84	1.31
Verisk Analytics Inc	Industrl	28.62	1.27
Air Products & Chemicals	Basic Mat	27.93	1.22

Current Investment	Style		Se
Value Blend Growth	Market Cap	%	W
Large	Giant	0.0	Ų
2	Large	41.4	
Mid	Mid	55.7	
Small	Small	3.0	Ë
	Micro	0.0	
	Avg \$mil:		
	14.087		<u>^</u>
Value Measures	Rel Ca	tegory	C
Price/Earnings	19.60	0.81	¢
Price/Book	3.00	0.75	
Price/Sales	2.13	0.79	Ξ
Price/Cash Flow	7.39	0.47	-
Dividend Yield %	0.91	1.24	
Growth Measures	% Rel Ca	tegory	
Long-Term Erngs	13.35	0.98	_
Book Value	9.93	0.82	Co
Sales	7.23	0.75	U
Cash Flow	14.71	1.17	
Historical Erngs	18.02	0.82	
Thotomout Errigo		5.JL	Į.
Profitability		%	1

Sec	tor	% of	Rel
Wei	ightings	Stocks	Bmark 1
Դ	Cyclical	26.17	0.83
Ä.	BasicMat	3.15	1.11
æ	CnsmrCyc	13.91	0.79
ι¢	FinanSvcs	8.18	1.06
ŵ	Real Est	0.93	0.29
w	Sensitive	47.67	0.94
	CommSrvs	0.00	0.00
Ò	Energy	3.49	2.57
٥	Industrl	21.14	1.14
₽	Technlgy	23.04	0.76
→	Defensive	26.16	-0.03
	CnsmrDef	6.40	1.35
	Hithcare	18.42	1.39
Ω	Utilities	1.34	_
Con	nnosition - Net		



•	Cash	6.0
	Stocks	94.0
	Bonds	0.0
	Other	0.0
	Foreign	2.3
	(% of Sto	ck)

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Return on Equity

Return on Assets

Net Margin

5.12 10.19 **Mutual Funds**

15.32



Introducing 2 New Bond Categories

Morningstar Research | Sarah Bush

At the end of April 2019, Morningstar retired the intermediate-term bond Morningstar Category and split that group's constituents into two new categories: intermediate core bond and intermediate core-plus bond. Morningstar Ratings (often known as "star ratings") have been recalculated relative to the new categories. We have not made any changes to Morningstar Analyst Ratings, although we regularly review these and will continue to assess the ability of funds to beat relevant benchmarks and category norms on a risk-adjusted basis across a full market cycle.

The Rationale

The intermediate-term bond category long ranked as the largest of the fixed-income categories. It was home to funds that invested primarily in investment-grade fixed-income debt and had durations (a measure of interest-rate sensitivity) that ranged from 75% to 125% of the three-year average effective duration of the Morningstar Core Bond Index.

Despite those commonalities, the category included a mix of portfolios that tended to cluster in one of two subgroups. The first contained funds that stuck to U.S.-dollar investment-grade debt with very little exposure to below-investment-grade fare. The second included funds with more-flexible mandates; these typically took more credit risk, holding larger positions in below-investment-grade debt, with many venturing into emerging-markets and non-U.S.-dollar bonds and currencies. Funds in these two subgroups tend to behave differently in different market environments and offer investors moderately different risk/reward trade-offs. We made the change to provide investors with clearer expectations for risk and performance and to create more homogeneous categories.

The New Categories

Following the split, the intermediate core bond and intermediate core-plus bond categories remain two of the largest U.S. category groups, with core spanning 136 open-end and exchange-traded funds and totaling \$860 billion in assets, and core-plus spanning 183 funds totaling \$690 billion. The definitions for the two categories are provided below.

Intermediate core bond funds typically hold:

- Investment-grade U.S. government, corporate, and securitized debt.
- Less than 5% in below-investment-grade debt.
- Durations between 75% and 125% of the Morningstar Core Bond Index's three-year average effective duration.

Intermediate core-plus bond funds typically hold:

- Investment-grade U.S. government, corporate, and securitized debt.
- Some noncore sectors like corporate high-yield, bank-loan, and emerging-markets debt, and non-U.S. currency exposures.
- Durations between 75% and 125% of the Morningstar Core Bond Index's three-year average effective duration.

A Deeper Look

By definition, funds in the intermediate core bond category can't hold more than 5% in below-investment-grade debt, and these funds tend to have creditquality profiles that skew more heavily to the higherrated tiers of the market. So, for example, the median allocation to below-investment-grade debt as of the most recently available survey date stood at close to 0% for core bond funds, while the median allocation for intermediate core-plus bond funds was a little over 8%. Meanwhile, core bond funds tended to hold larger allocations to AAA rated debt (61%) median; core-plus bond funds held less in the highest rated tier of the market (48%). From a sector perspective, core bond funds tended to hold more governmentbacked debt, while core-plus bond funds were more heavily invested in corporate bonds.

The categories look more similar when it comes to duration and interest-rate sensitivity. The median

Intermediate Core Bond	Ticker	Average Eff Duration	% Invstmnt Grade	% Below- Invst-Grade	% Not Rated/NA
Baird Aggregate Bond	BAGIX	5.8	100	0	0
Fidelity Intermediate Bond	FTHRX	3.8	98	2	0
Fidelity Investment Grade Bond	FBNDX	5.6	95	6	-1
Fidelity Mortgage Securities	FMSFX	3.7	109	0	-9
Fidelity U.S. Bond Index	FXNAX	5.7	100	0	0
T. Rowe Price New Income	PRCIX	6.1	93	7	0
Vanguard Core Bond	VCOBX	6.0	94	2	4
Vanguard Interm-Term Bond Index	VBILX	6.1	100	0	0
Vanguard Total Bond Market Index	VBTLX	6.0	100	0	0
Western Asset Core Bond	WATFX	5.6	101	0	-2

Intermediate Core-Plus Bond	Ticker	Average Eff Duration	% Invstmnt Grade	% Below- Invst-Grade	% Not Rated/NA
AMG Managers Loomis Sayles Bond	MGFIX	4.5	92	8	0
Carillon Reams Core Plus Bond	SCPYX	6.5	100	0	0
Dodge & Cox Income	DODIX	4.4	94	6	0
DoubleLine Total Return Bond	DBLTX	3.8	75	10	16
Fidelity Total Bond	FTBFX	5.3	87	15	-2
Harbor Bond	HABDX	3.6	NA	NA	NA
Loomis Sayles Investment Grade Bond	LIGRX	3.0	79	9	12
Metropolitan West Total Return Bond	MWTRX	5.9	94	6	0
PGIM Total Return Bond	PDBAX	6.4	83	11	6
PIMCO Total Return	PTTRX	3.8	NA	NA	NA
TCW Total Return Bond	TGLMX	5.9	89	11	0
USAA Income	USAIX	5.9	93	5	1
Western Asset Core Plus Bond	WACPX	6.1	89	11	0

Note: All data as of most recent survey and/or fact sheet available.

duration for the core bond category was about 5.7 years; that's roughly in line with the 5.5-year metric for the core-plus bond category.

Performance Profile

Differences between intermediate core bond and intermediate core-plus bond portfolios are clear in their performance profiles. Low- and midrated bonds have outperformed for most of the trailing 10-year period, which began right as credit markets started rebounding off their financial-crisis lows. The 5.1% median annualized return for core-plus bond funds (based on the returns of the cheapest available share class) over that period through April 2019 topped the 4.0% median annualized return for core bond funds; the core-plus bond category also sported a higher median Sharpe ratio.

Meanwhile, although the reported durations for both groups are similar, core bond funds have historically been more sensitive to moves in bond yields than core-plus bond funds, posting bigger gains when yields decline and bigger losses when yields rise. So, as long-term Treasury yields spiked between August and December 2016, both groups saw losses, but the 2.9% median loss for the core category was more severe than the 2.2% decline for core-plus funds.

Morningstar FundInvestor

Core bond funds tend to hold up better than coreplus bond funds when corporate credit comes under pressure. As oil prices plunged and high-yield suffered between June 2015 and February 2016, core funds held up reasonably well with a median 1.2% gain; core-plus funds suffered a median 0.1% loss.

These differences also show in historical correlations. Core bond funds feature somewhat higher correlations to the Bloomberg Barclays U.S. Aggregate Bond Index than core-plus bond funds over the past decade and a small negative correlation to the S&P 500; core-plus bond funds tend to be more heavily correlated to broad high-yield indexes and have a modest positive correlation to equities.

What Do These New Categories Tell Investors?

Because they have more-limited exposure to credit risk and typically hold up better when risk markets struggle, core bond funds might be best for investors looking for diversification from an equity-heavy portfolio. Investors who already have exposure to high-yield and/or emerging-markets bonds might also want to stick with core funds. Meanwhile, coreplus bond funds offer a one-stop shop for bond exposure and typically offer higher yields and more total return potential, albeit with more credit risk.

Impact on M500 funds

Of the 23 funds in the Morningstar 500 that previously were in the intermediate-term bond category, 10, including the passive behemoth Vanguard Total Bond Market Index VBILX, land in core bond. The remaining 13, which include the largest actively managed funds in the old intermediate-term bond category, moved to core-plus bond. III

Contact Sarah Bush at sarah.bush@morningstar.com