

The Mutual Fund Landscape 2015 Report



The Mutual Fund Landscape

2015 Report

This report documents survivorship and performance of US mutual funds, and shows the negative impact of high fees and turnover on returns.

The data reveals that few mutual funds have delivered benchmark-beating returns and quantifies an investor's challenge to identify outperforming managers in advance.

Findings

- Most mutual funds underperformed their benchmarks.
- · Strong track records failed to persist.
- High costs and excessive turnover may have contributed to underperformance.

Lessons

- The market does a good job of pricing securities, making it difficult for managers to outperform by trying to outguess other participants.
- Managers in search of mispricing face high cost barriers as they try to beat the market.
- · Successful fund investing involves more than picking past winners.
- Consider a fund's market philosophy, investment objectives, strategy, trading costs, and other factors.

Overview:

The US Mutual Fund Industry

Assets under Management

Survivorship and Outperformance

- Equity Funds
- Fixed Income Funds

Do Winners Keep Winning?

- Equity Funds
- Fixed Income Funds

High Costs Make Outperformance Difficult

High Trading Costs Make Outperformance Difficult

Report Summary

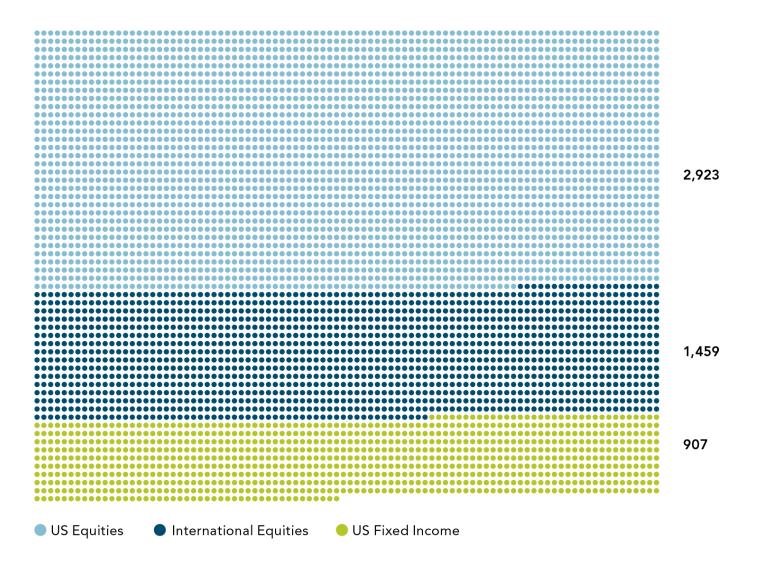
Data Appendix



The US Mutual Fund Industry

Number of equity and fixed income funds, 2014

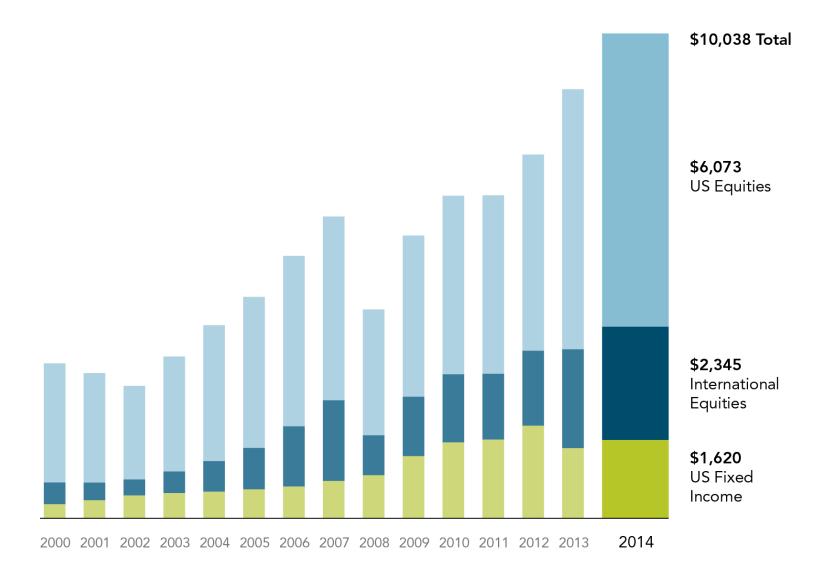
This study evaluates a sample of US funds totaling more than 5,200 managers and representing about \$10 trillion in wealth by the end of 2014.





Assets under Management

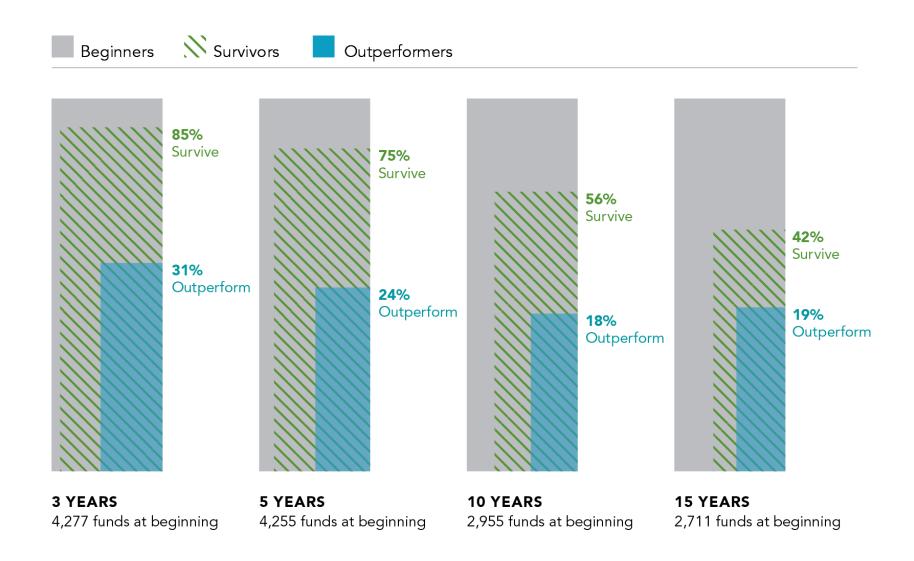
In USD (billions), 2000-2014





Survivorship and Outperformance

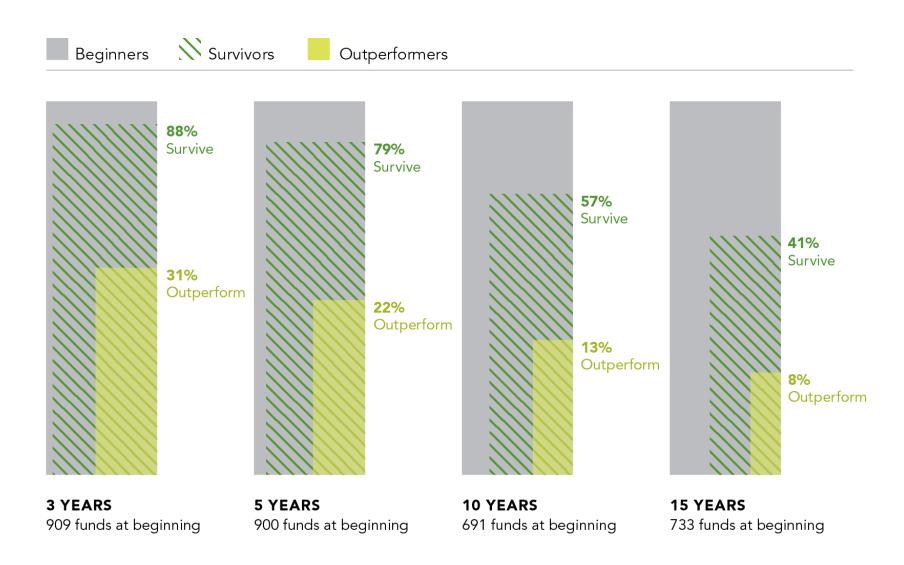
Performance periods ending December 31, 2014—Equity Funds





Survivorship and Outperformance

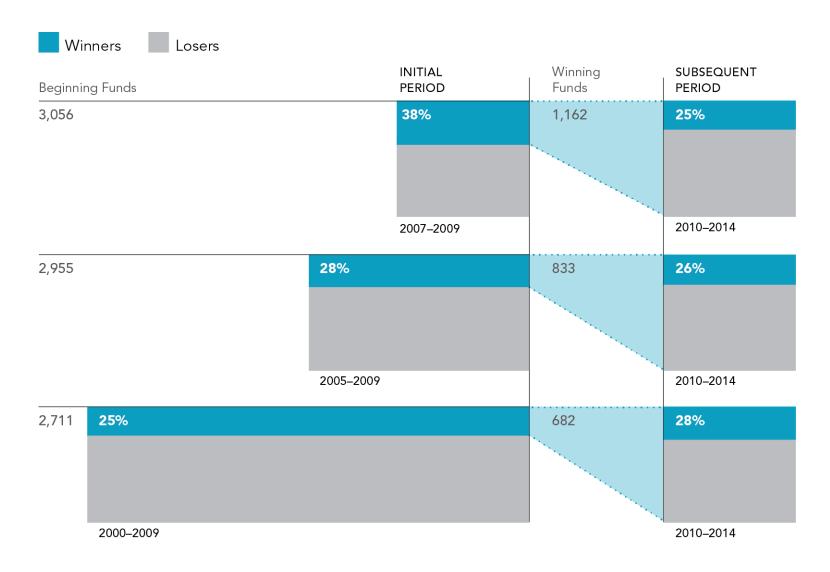
Performance periods ending December 31, 2014—Fixed Income Funds





Do Winners Keep Winning?

Past performance vs. subsequent performance—Equity Funds

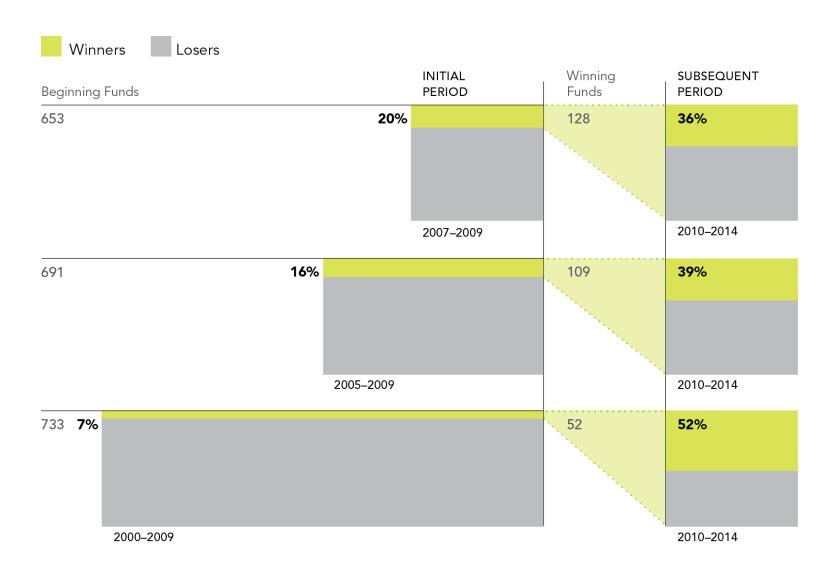


The sample includes funds at the beginning of the three-, five-, and 10-year periods, ending in December 2009 (the "initial period"). The graph shows the proportion of funds that outperformed and underperformed their respective benchmarks (i.e., winners and losers) during the initial periods. Winning funds were re-evaluated in the subsequent period from 2010 through 2014, with the graph showing the proportion of outperformance and underperformance among past winners. (Fund counts and percentages may not correspond due to rounding.) **Past performance is no guarantee of future results. See Data appendix for more information.** US-domiciled mutual fund data is from the CRSP Survivor-Bias-Free US Mutual Fund Database, provided by the Center for Research in Security Prices, University of Chicago.



Do Winners Keep Winning?

Past performance vs. subsequent performance—Fixed Income Funds

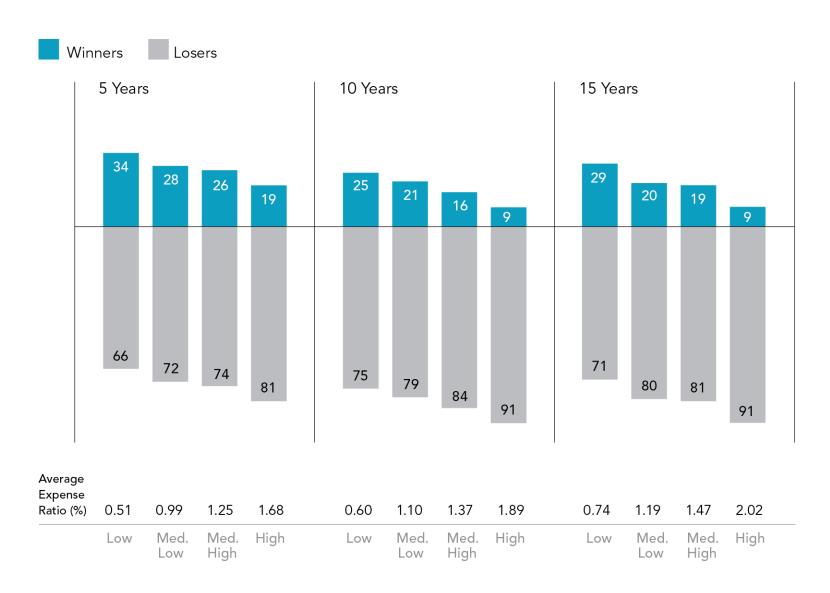


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High Costs Make Outperformance Difficult

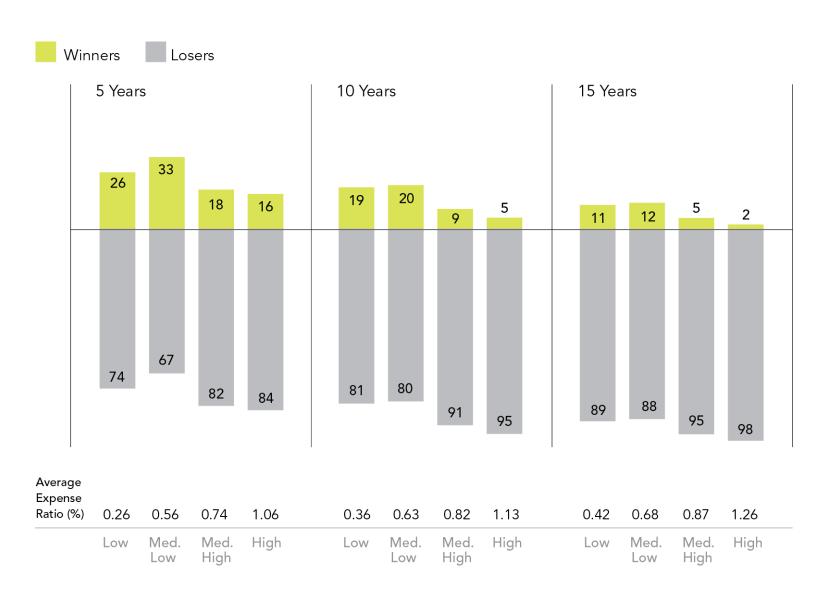
Winners and losers based on expense ratios (%)—Equity Funds





High Costs Make Outperformance Difficult

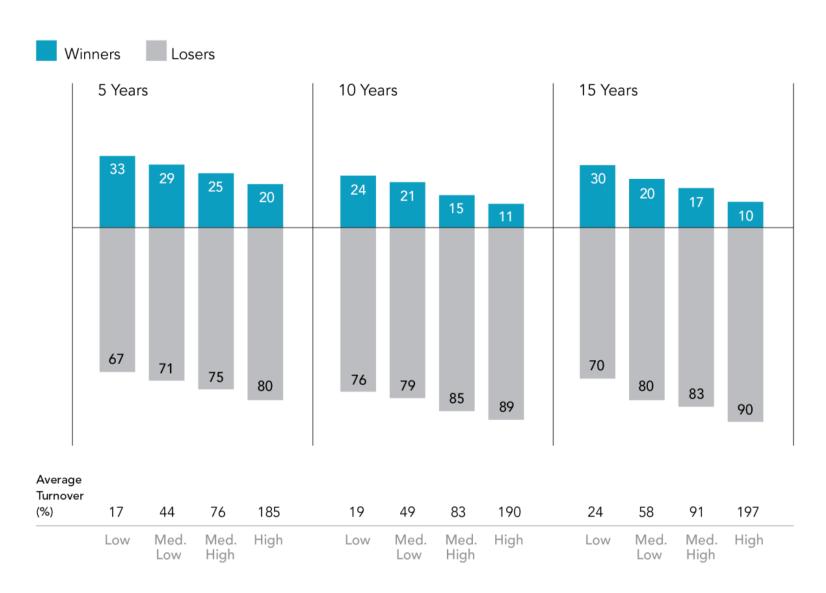
Winners and losers based on expense ratios (%)—Fixed Income Funds





High Trading Costs Make Outperformance Difficult

Winners and losers based on turnover (%)—Equity Funds





Report Summary

The mutual fund landscape

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Lessons

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- Successful fund investing involves more than picking past winners.
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Data Appendix

US-domiciled mutual fund data is from the CRSP Survivor-Bias-Free US Mutual Fund Database, provided by the Center for Research in Security Prices, University of Chicago.

Certain types of equity and fixed income funds were excluded from the performance study. For equities, sector funds and funds with a narrow investment focus, such as real estate and gold, were excluded. Money market funds, municipal bond funds, and asset-backed security funds were excluded from fixed income.

Funds are identified using Lipper fund classification codes. Correlation coefficients are computed for each fund with respect to diversified benchmark indices using all return data available between January 1, 2000, and December 31, 2014. The index most highly correlated with a fund is assigned as its benchmark. Winner funds are those whose cumulative return over the period exceeded that of their respective benchmark. Loser funds are funds that did not survive the period or whose cumulative return did not exceed their respective benchmark.

Expense ratio ranges: The ranges of expense ratios for equity funds over the five-, 10-, and 15-year periods are 0.01% to 4.89%, 0.01% to 4.53%, and 0.04% to 4.83%, respectively. For fixed income funds, ranges over the same periods are 0.01% to 2.78%, 0.05% to 2.55%, and 0.03% to 3.66%, respectively.

Portfolio turnover ranges: Ranges for equity fund turnover over the five-, 10-, and 15-year periods are 1.0% to 1,499.4%, 1% to 1,524.0%, and 2.0% to 2,400.4%, respectively.

Benchmark data provided by Barclays, MSCI, Russell, Citigroup, BofA Merrill Lynch, and S&P. Barclays data provided by Barclays Bank PLC. MSCI data © MSCI 2015, all rights reserved. Russell data © Russell Investment Group 1995–2015, all rights reserved. Citigroup bond indices © 2015 by Citigroup. The BofA Merrill Lynch index is used with permission; © 2015 Merrill Lynch, Pierce, Fenner & Smith Incorporated; all rights reserved. Merrill Lynch, Pierce, Fenner & Smith Incorporated is a wholly owned subsidiary of Bank of America Corporation. The S&P data is provided by Standard & Poor's Index Services Group.

Benchmark indices are not available for direct investment. Their performance does not reflect the expenses associated with the management of an actual portfolio.

Mutual fund investment values will fluctuate, and shares, when redeemed, may be worth more or less than original cost. Diversification neither assures a profit nor guarantees against a loss in a declining market. There is no guarantee investment strategies will be successful.

Past performance is no guarantee of future results.



Mutual Fund 15-Year Survivorship and Outperformance

Performance Periods Ending December 31, 2014

Fund Category	Benchmark	# Begin	Survive (%)	Outperform (%)
US EQUITIES				
US All Cap Core	Russell 3000 Index	171	46	15
US All Cap Value	Russell 3000 Value Index	98	51	26
US All Cap Growth	Russell 3000 Growth Index	138	38	20
US Large Cap Core	Russell 1000 Index	121	45	14
US Large Cap Value	Russell 1000 Value Index	109	38	18
US Large Cap Growth	Russell 1000 Growth Index	59	31	8
US Small Cap Core	Russell 2000 Index	114	53	38
US Small Cap Value	Russell 2000 Value Index	93	62	38
US Small Cap Growth	Russell 2000 Growth Index	191	41	28
INTERNATIONAL EQUITIES				
Non-US Developed All Cap	MSCI All Country World ex USA IMI Index (net div.)	117	40	24
Non-US Developed Large Cap	MSCI All Country World ex USA Index (net div.)	134	62	16
Non-US Developed Small Cap	MSCI All Country World ex USA Small Cap Index (net div.)	37	57	16
Emerging Markets	MSCI Emerging Markets Index (net div.)	118	43	22
GLOBAL EQUITIES				
Global All Cap	MSCI All Country World IMI Index (net div.)	132	43	29
Global Large Cap	MSCI All Country World Index (net div.)	43	26	23
Global Small Cap	MSCI All Country World Small Cap Index (net div.)	48	63	29
US FIXED INCOME				
US Short Duration	Barclays Treasury Bond Index 1-5 Years	106	43	11
US Market Duration	Barclays US Government Bond Index	377	44	6
Inflation-Protected	Barclays US TIPS Index	8	63	13

Sample includes funds available as of December 31, 1999. Funds are identified using Lipper fund classification codes. Correlation coefficients are computed for each fund with respect to diversified benchmark indices using all return data available between January 1, 2000 and December 31, 2014. Funds are categorized according to the index with which their returns are most highly correlated. Survivors are funds that were still in existence as of December 31, 2014. Non-survivors include funds that were either liquidated or merged. Outperforming funds are those whose cumulative return over the period exceeded that of their respective benchmark. All fund returns are net of fees and expenses. **Past performance is no guarantee of future results.** Benchmark data from Russell, Barclays, BofA Merrill Lynch, and MSCI. US-domiciled mutual fund data is from the CRSP Survivor-Bias-Free US Mutual Fund Database, provided by the Center for Research in Security Prices, University of Chicago.