

Global Fund Performance Monitor

Funds positioned for rally

Active funds globally outperformed in May

As global equities rallied 5.5% in May, 54% of Active Funds globally outperformed benchmark with a median relative return of +0.12%, suggesting long-only funds are generally positioned for a rally. More than half (54%) of Value funds outperformed benchmark by a median +0.19%. Growth funds also outperformed benchmark (+0.17%) with 57% outperforming. By region, 60% of Emerging Market funds outperformed (+0.44%), 66% of EAFE funds outperformed (+0.16%), while 47% of the US funds in this analysis outperformed with the median return matching benchmark.

Value funds' overweights with Triple Momentum

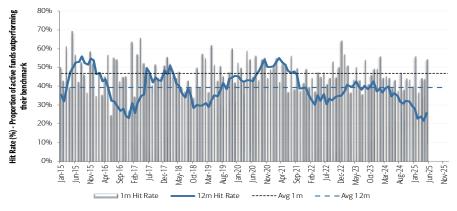
Stocks with positive Triple Momentum (earnings, price, news) generally would have added to the performance of Value funds last month. Value funds' largest overweight positions with a high Triple Momentum Rank (top quintile) include Intercontinental Exchange, FirstCash, US Foods, and CVS Health. Value funds' largest overweights with negative Triple Momentum include Insight Enter, ConocoPhillips, and Installed Building.

Growth funds' overweights with Triple Momentum

Growth funds' largest overweight positions with a Triple Momentum Rank (earnings, price, news) in the top quintile include AIA, MediaTek, SK Hynix, Convatec Group, RBC Bearings, Weir Group. Growth funds' largest overweights with negative Triple Momentum include Icon Plc, Azelis, Thermo Fisher, ASM Intl, and Smurfit Westrock.

Chart 1: Proportion of Active Funds outperforming benchmark

54% of funds outperformed benchmark last month



Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

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Trading ideas and investment strategies discussed herein may give rise to significant risk and are not suitable for all investors. Investors should have experience in relevant markets and the financial resources to absorb any losses arising from applying these ideas or strategies.

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Refer to important disclosures on page 68 to 70.

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Funds by Region

Chart 2: Relative returns of Funds by Region: Last month

Best fund group based on median 1-m returns was Emerging Markets



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 3: Relative returns of Funds by Region: Periodic returns

Japan funds have performed the best in the last 6m



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 4: Percentage of Funds by Region

USA funds constitutes 42% of this fund group

- ■USA (980, \$10,708 bn)
- ■Europe (398, \$670 bn)
- Global (DM) (242, \$945 bn)
- Global (DM+EM) (215, \$1,374 bn)
- Asia Pac ex-Japan (200, \$496 bn)
- ■Emerging Markets (169, \$609 bn)
- Japan (82, \$362 bn)
- EAFE (65, \$929 bn)

7%³% 9% 42%

 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$



Funds by Region: GLOBAL (DM + EM)

Chart 5: Relative returns of Global DM+EM funds - Last 12 months

Global (DM+EM) funds have outperformed by 0.27% last month

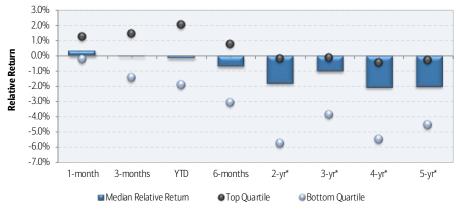


 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 6: Relative returns of Global DM+EM funds : Periodic returns

Global (DM+EM) have outperformed by 0.27% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^\star\ relative\ annualized\ return$

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Table 1: Relative returns of Global DM+EM funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.27%	1.21%	-0.25%
3-months	-0.01%	1.41%	-1.47%
YTD	-0.17%	2.00%	-1.94%
6-months	-0.69%	0.77%	-3.14%
2-yr*	-1.83%	-0.22%	-5.80%
3-yr*	-1.02%	-0.14%	-3.93%
4-yr*	-2.10%	-0.45%	-5.53%
5-yr*	-2.02%	-0.31%	-4.59%

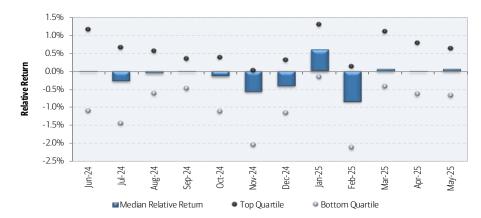
 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$



Funds by Region: GLOBAL (Developed Markets)

Chart 7: Relative returns of Global DM funds - Last 12 months

Global (DM) funds have outperformed by 0.07% last month



 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 8: Relative returns of Global DM funds: Periodic returns

Global (DM) have outperformed by 0.24% in the last 3-months



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return annualized\ return$

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Table 2: Relative returns of Global DM funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.07%	0.64%	-0.68%
3-months	0.24%	1.20%	-0.74%
YTD	-0.22%	1.39%	-1.46%
6-months	-0.59%	0.37%	-1.62%
2-yr*	-1.78%	-0.52%	-5.17%
3-yr*	-1.35%	-0.48%	-4.51%
4-yr*	-1.65%	-0.55%	-4.32%
5-yr*	-1.17%	-0.42%	-3.63%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$



Funds by Region: EAFE (DM ex-US)

Chart 9: Relative returns of EAFE funds - Last 12 months

EAFE funds have outperformed by 0.16% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 10: Relative returns of EAFE funds: Periodic returns

EAFE have outperformed by 0.16% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

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Table 3: Relative returns of EAFE funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.16%	0.49%	-0.14%
3-months	-0.59%	-0.08%	-1.09%
YTD	0.09%	0.50%	-1.96%
6-months	-0.76%	-0.24%	-2.37%
2-yr*	-0.86%	-0.17%	-1.87%
3-yr*	-0.64%	-0.28%	-1.62%
4-yr*	-0.64%	-0.27%	-1.72%
5-yr*	-0.61%	0.03%	-1.26%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$



Funds by Region: USA

Chart 11: Relative returns of USA funds - Last 12 months

USA funds have underperformed by -0.01% last month



 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 12: Relative returns of USA funds: Periodic returns

USA have underperformed by -0.01% in the last 1-month



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ return \ annualized \ return \ annualized \ return \ annualized \ return \ re$

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Table 4: Relative returns of USA funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	-0.01%	0.57%	-0.65%
3-months	-0.12%	0.65%	-0.99%
YTD	-0.21%	0.60%	-1.37%
6-months	-0.31%	0.27%	-1.63%
2-yr*	-0.58%	0.03%	-3.14%
3-yr*	-0.50%	0.03%	-2.47%
4-yr*	-0.56%	-0.07%	-2.85%
5-yr*	-0.46%	0.04%	-2.34%

Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return



Funds by Region: EUROPE

Chart 13: Relative returns of EUROPE funds - Last 12 months

Europe funds have outperformed by 0.02% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 14: Relative returns of EUROPE funds: Periodic returns

Europe have outperformed by 0.02% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

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Table 5: Relative returns of EUROPE funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.02%	0.59%	-0.29%
3-months	-0.26%	0.69%	-1.24%
YTD	-0.63%	0.31%	-2.86%
6-months	-0.64%	-0.03%	-3.32%
2-yr*	-1.02%	-0.24%	-4.45%
3-yr*	-0.97%	-0.33%	-3.27%
4-yr*	-0.91%	-0.36%	-3.47%
5-yr*	-1.04%	-0.36%	-3.30%

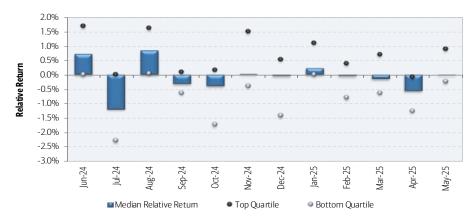
 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^{\star}\ relative\ annualized\ return$



Funds by Region: JAPAN

Chart 15: Relative returns of JAPAN funds - Last 12 months

Japan funds have underperformed by -0.01% last month

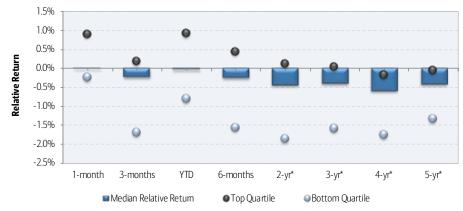


 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 16: Relative returns of JAPAN funds: Periodic returns

Japan have underperformed by -0.01% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

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Table 6: Relative returns of JAPAN funds : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	-0.01%	0.89%	-0.25%
3-months	-0.25%	0.18%	-1.71%
YTD	-0.04%	0.91%	-0.81%
6-months	-0.26%	0.44%	-1.58%
2-yr*	-0.46%	0.11%	-1.88%
3-yr*	-0.42%	0.03%	-1.59%
4-yr*	-0.59%	-0.19%	-1.76%
5-yr*	-0.44%	-0.06%	-1.36%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*relative\ annualized\ return$



Funds by Region: ASIA PAC ex-JAPAN

Chart 17: Relative returns of ASIA PAC ex-JAPAN funds - Last 12 months

APxJ funds have outperformed by 0.03% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 18: Relative returns of ASIA PAC ex-JAPAN funds: Periodic returns

APxJ have outperformed by 0.03% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

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Table 7: Relative returns of ASIA PAC ex-JAPAN funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.03%	0.43%	-0.72%
3-months	-0.65%	0.10%	-1.88%
YTD	-0.65%	0.20%	-2.25%
6-months	-1.02%	-0.01%	-2.75%
2-yr*	-1.77%	-0.26%	-5.49%
3-yr*	-1.17%	-0.21%	-4.01%
4-yr*	-1.23%	-0.20%	-4.27%
5-yr*	-1.06%	-0.19%	-3.14%

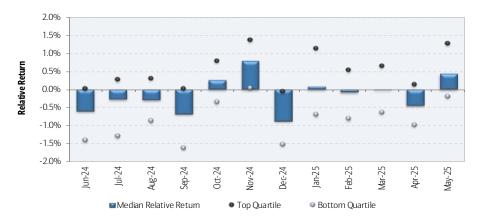
 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^{\star}\ relative\ annualized\ return$



Funds by Region: EMERGING MARKETS

Chart 19: Relative returns of EMERGING MARKETS funds - Last 12 months

EM funds have outperformed by 0.44% last month



 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 20: Relative returns of EMERGING MARKETS funds: Periodic returns

EM have outperformed by 0.44% in the last 1-month



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ return \ annualized \ return \ annualized \ return \ annualized \ return \ re$

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Table 8: Relative returns of EMERGING MARKETS funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.44%	1.27%	-0.20%
3-months	-0.21%	0.91%	-0.78%
YTD	0.14%	1.48%	-0.76%
6-months	-0.86%	0.36%	-1.77%
2-yr*	-1.17%	-0.17%	-2.43%
3-yr*	-0.63%	0.42%	-1.62%
4-yr*	-0.99%	-0.03%	-3.14%
5-yr*	-0.87%	0.35%	-2.33%

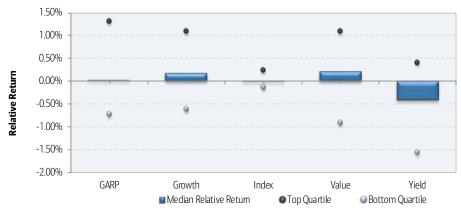
Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return



Funds by Investment Style

Chart 21: Relative returns of Funds by Investment Style: Last month

Dispersion between top and bottom quintile by perf was largest for GARP funds

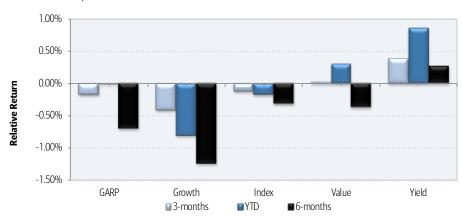


Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

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Chart 22: Relative returns of Funds by Investment Style: Periodic returns

Yield funds have performed the best in the last 6m



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 23: Percentage of Funds by Investment Style

Growth funds constitutes 46% of this fund group



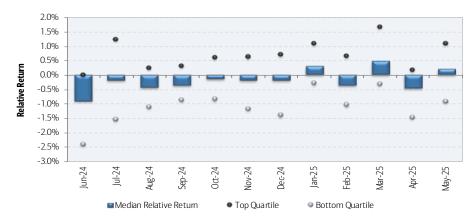
 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$



Funds by Investment Style: VALUE

Chart 24: Relative returns of VALUE funds - Last 12 months

Value funds have outperformed by 0.19% last month

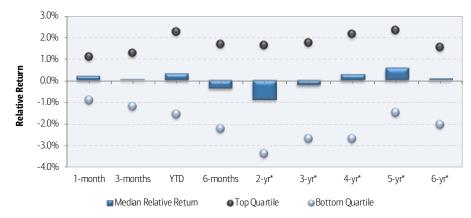


 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 25: Relative returns of VALUE funds: Periodic returns

Value have outperformed by 0.55% in the last 5-yr*



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ return \ annualized \ return \ annualized \ return \ annualized \ return \ re$

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Table 9: Relative returns of VALUE funds : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.19%	1.08%	-0.93%
3-months	0.03%	1.27%	-1.23%
YTD	0.32%	2.25%	-1.56%
6-months	-0.36%	1.67%	-2.23%
2-yr*	-0.85%	1.63%	-3.40%
3-yr*	-0.20%	1.75%	-2.69%
4-yr*	0.27%	2.15%	-2.69%
5-yr* 6-yr*	0.55%	2.34%	-1.51%
6-yr*	0.09%	1.54%	-2.05%

 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, \ Bloomberg, Benchmark \ Indices. \ * \ relative \ annualized \ return$



Funds by Investment Style: GROWTH

Chart 26: Relative returns of GROWTH funds - Last 12 months

Growth funds have outperformed by 0.17% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 27: Relative returns of GROWTH funds: Periodic returns

Growth have outperformed by 0.17% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

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Table 10: Relative returns of GROWTH funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.17%	1.09%	-0.62%
3-months	-0.40%	1.18%	-1.75%
YTD	-0.80%	1.06%	-2.85%
6-months	-1.23%	0.39%	-3.41%
2-yr*	-2.68%	-0.20%	-6.22%
3-yr*	-1.95%	-0.15%	-4.41%
4-yr*	-2.77%	-0.73%	-5.20%
5-yr*	-2.40%	-0.74%	-4.39%
6-yr*	-1.59%	-0.21%	-3.46%

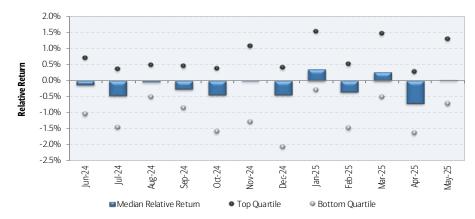
 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * \ relative \ annualized \ return$



Funds by Investment Style: GARP

Chart 28: Relative returns of GARP funds - Last 12 months

GARP funds have outperformed by 0.01% last month



 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 29: Relative returns of GARP funds: Periodic returns

GARP have outperformed by 0.01% in the last 1-month



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ return \ annualized \ re$

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Table 11: Relative returns of GARP funds : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.01%	1.30%	-0.73%
3-months	-0.16%	0.91%	-1.40%
YTD	-0.01%	1.63%	-1.57%
6-months	-0.69%	1.47%	-2.34%
2-yr*	-1.82%	1.83%	-6.05%
3-yr*	-1.00%	1.53%	-5.30%
4-yr*	-1.79%	0.15%	-4.55%
5-yr*	-1.15%	1.31%	-3.73%
6-yr*	-0.70%	1.16%	-4.01%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*relative\ annualized\ return$



Funds by Investment Style: YIELD

Chart 30: Relative returns of YIELD funds - Last 12 months

Yield funds have underperformed by -0.42% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 31: Relative returns of YIELD funds: Periodic returns

Yield have outperformed by 0.86% in the last YTD



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

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Table 12: Relative returns of YIELD funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	-0.42%	0.40%	-1.57%
3-months	0.38%	1.81%	-1.01%
YTD	0.86%	3.00%	-1.16%
6-months	0.27%	2.44%	-1.76%
2-yr*	-1.41%	0.59%	-4.67%
3-yr*	-1.66%	0.04%	-4.79%
4-yr*	-0.81%	0.41%	-2.77%
5-yr*	-0.75%	0.72%	-2.74%
6-yr*	-0.99%	0.45%	-3.64%

Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return



Funds by Investment Style: INDEX funds

Chart 32: Relative returns of INDEX funds - Last 12 months

Index funds have underperformed by 0.00% last month

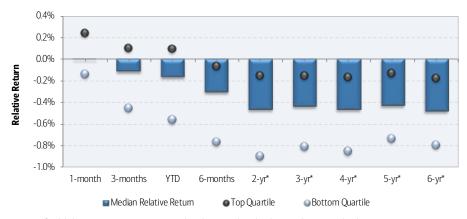


 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 33: Relative returns of INDEX funds: Periodic returns

Index have underperformed by 0.00% in the last 1-month



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ return \ annualized \ return \ annualized \ return \ annualized \ return \ re$

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Table 13: Relative returns of INDEX funds : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.00%	0.24%	-0.14%
3-months	-0.12%	0.09%	-0.46%
YTD	-0.17%	0.09%	-0.57%
6-months	-0.31%	-0.07%	-0.77%
2-yr*	-0.47%	-0.15%	-0.90%
3-yr*	-0.44%	-0.16%	-0.81%
4-yr*	-0.47%	-0.17%	-0.86%
5-yr*	-0.43%	-0.13%	-0.74%
6-yr*	-0.48%	-0.18%	-0.80%

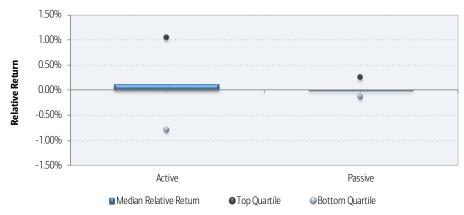
 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * \ relative \ annualized \ return$



Funds by Active/Passive

Chart 34: Relative returns of Funds by Management Type (Active/Passive): Last month

Dispersion between top and bottom quintile by perf was largest for Active funds

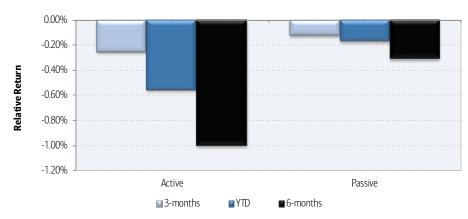


Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

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Chart 35: Relative returns of Funds by Type (Active/Passive): Periodic returns

Passive funds have performed best in the last 5m

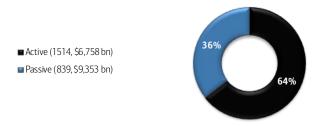


 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 36: Percentage of Funds by Fund Type (Active/Passive)

Active funds constitutes 64% of this fund group



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$



ACTIVE funds

Chart 37: Relative returns of ACTIVE funds - Last 12 months

Active funds have outperformed by 0.12% last month



 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 38: Relative returns of ACTIVE funds: Periodic returns

Active have outperformed by 0.12% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^{\star}\ relative\ annualized\ return$

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Table 14: Relative returns of ACTIVE funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.12%	1.04%	-0.79%
3-months	-0.25%	1.22%	-1.60%
YTD	-0.55%	1.50%	-2.39%
6-months	-1.00%	0.88%	-2.98%
2-yr*	-2.27%	0.12%	-5.51%
3-yr*	-1.69%	0.24%	-4.22%
4-yr*	-2.25%	-0.15%	-4.73%
5-yr*	-1.76%	0.13%	-3.87%

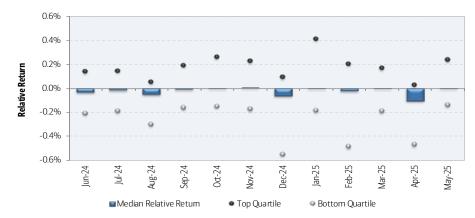
 $Source: BofA\ Global\ Quantitative\ Strategy, Factset, Bloomberg, Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$



PASSIVE funds

Chart 39: Relative returns of PASSIVE funds - Last 12 months

Passive funds have underperformed by 0.00% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 40: Relative returns of PASSIVE funds : Periodic returns

Passive have underperformed by 0.00% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*relative\ annualized\ return$

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Table 15: Relative returns of PASSIVE funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.00%	0.24%	-0.14%
3-months	-0.12%	0.09%	-0.46%
YTD	-0.17%	0.09%	-0.57%
6-months	-0.31%	-0.07%	-0.77%
2-yr*	-0.47%	-0.15%	-0.90%
3-yr*	-0.44%	-0.16%	-0.81%
4-yr*	-0.47%	-0.17%	-0.86%
5-yr*	-0.43%	-0.13%	-0.74%

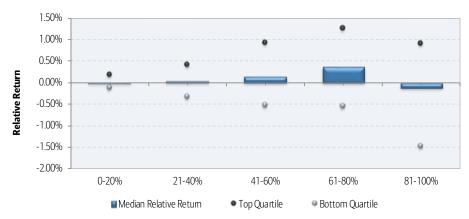
 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ an$



Funds by Active Share Ratio (ASR)

Chart 41: Relative returns of Funds by ASR: Last month

Best fund group based on median 1-m returns was 61-80%

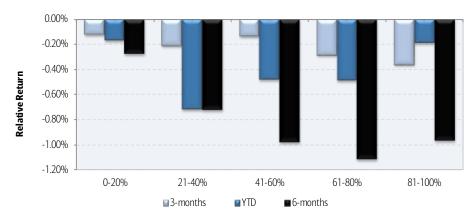


Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

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Chart 42: Relative returns of Funds by ASR: Periodic returns

0-20% funds have performed best in the last 5m



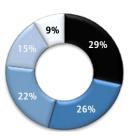
 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 43: Percentage of Funds by Active Share Ratio

 $0\mbox{-}20\%$ funds constitutes 29% of this fund group





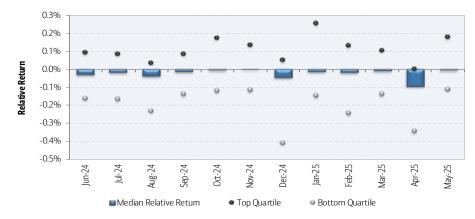
Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices



Funds by ASR between 1% - 20%

Chart 44: Relative returns of funds with ASR < 20% - Last 12 months

0-20% funds have underperformed by -0.01% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 45: Relative returns of funds with ASR < 20%: Periodic returns

0-20% have underperformed by -0.01% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ *relative\ annualized\ return$

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Table 16: Relative returns of funds with ASR < 20%: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	-0.01%	0.18%	-0.11%
3-months	-0.12%	0.02%	-0.35%
YTD	-0.17%	0.03%	-0.47%
6-months	-0.28%	-0.07%	-0.61%
2-yr*	-0.47%	-0.20%	-0.82%
3-yr*	-0.42%	-0.17%	-0.71%
4-yr*	-0.45%	-0.20%	-0.78%
5-yr*	-0.43%	-0.17%	-0.72%

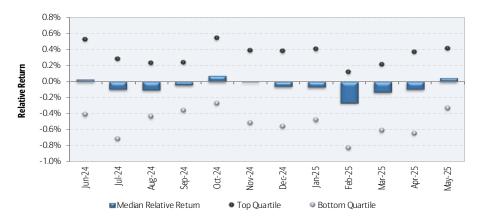
 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * \ relative \ annualized \ return$



Funds by ASR between 21% - 40%

Chart 46: Relative returns of funds with ASR (21% - 40%) - Last 12 months

21-40% funds have outperformed by 0.04% last month



 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 47: Relative returns of funds with ASR (21% - 40%): Periodic returns

21-40% have outperformed by 0.04% in the last 1-month



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ return \ annualized \ return \ annualized \ return \ annualized \ return \ re$

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Table 17: Relative returns of funds with ASR (21% - 40%) : Periodic returns

 $\label{eq:median} \mbox{Median, Top and Bottom Quartile returns for various periods}$

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.04%	0.41%	-0.34%
3-months	-0.21%	0.45%	-1.14%
YTD	-0.71%	0.07%	-1.74%
6-months	-0.72%	-0.09%	-1.93%
2-yr*	-0.67%	0.12%	-1.84%
3-yr*	-0.63%	0.20%	-1.86%
4-yr*	-0.77%	-0.10%	-2.03%
5-yr*	-0.74%	0.07%	-1.88%

 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^{\star}\ relative\ annualized\ return$



Funds by ASR between 41% - 60%

Chart 48: Relative returns of funds with ASR (41% - 60%) - Last 12 months

41-60% funds have outperformed by 0.14% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 49: Relative returns of funds with ASR (41% - 60%): Periodic returns

41-60% have outperformed by 0.14% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

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Table 18: Relative returns of funds with ASR (41% - 60%): Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.14%	0.92%	-0.53%
3-months	-0.13%	1.01%	-1.12%
YTD	-0.48%	0.87%	-1.94%
6-months	-0.98%	0.37%	-2.51%
2-yr*	-0.96%	0.68%	-3.52%
3-yr*	-1.04%	0.40%	-2.97%
4-yr*	-1.59%	-0.29%	-3.63%
5-yr*	-1.37%	-0.05%	-3.33%

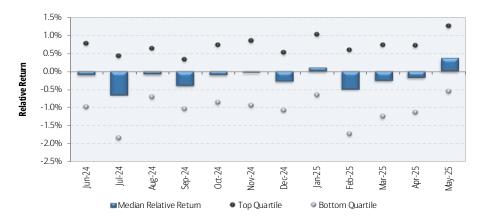
 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ Strategy \ Factset, Bloomberg, Benchmark \ Factset, Bloomberg, Bloomberg, Bloomberg, Benchmark \ Factset, Bloomberg, Bloomberg$



Funds by ASR between 61% - 80%

Chart 50: Relative returns of funds with ASR (61% - 80%) - Last 12 months

61-80% funds have outperformed by 0.35% last month



 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 51: Relative returns of funds with ASR (61% - 80%): Periodic returns

61-80% have outperformed by 0.35% in the last 1-month



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ return \ annualized \ re$

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Table 19: Relative returns of funds with ASR (61% - 80%) : Periodic returns

 $\label{eq:median} \mbox{Median, Top and Bottom Quartile returns for various periods}$

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.35%	1.25%	-0.56%
3-months	-0.28%	1.27%	-1.78%
YTD	-0.49%	1.57%	-2.79%
6-months	-1.12%	1.29%	-3.24%
2-yr*	-2.27%	0.40%	-5.31%
3-yr*	-1.72%	0.33%	-4.09%
4-yr*	-2.42%	-0.15%	-4.51%
5-yr*	-1.75%	0.25%	-3.62%

 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return$



Funds by ASR between 81% - 100%

Chart 52: Relative returns of funds with ASR (81% - 100%) - Last 12 months

81-100% funds have underperformed by -0.12% last month

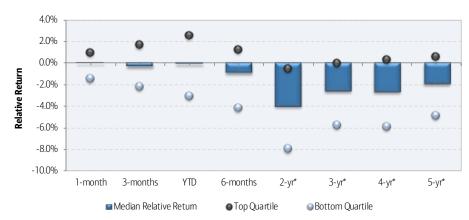


 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 53: Relative returns of funds with ASR (81% - 100%): Periodic returns

81-100% have underperformed by -0.12% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^\star\ relative\ annualized\ return$

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Table 20: Relative returns of funds with ASR (81% - 100%): Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	-0.12%	0.91%	-1.48%
3-months	-0.35%	1.62%	-2.23%
YTD	-0.19%	2.51%	-3.09%
6-months	-0.96%	1.21%	-4.22%
2-yr*	-4.03%	-0.57%	-8.00%
3-yr*	-2.66%	-0.06%	-5.81%
4-yr*	-2.74%	0.22%	-5.96%
5-yr*	-1.95%	0.52%	-4.96%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^*\ relative\ annualized\ return$



Funds by Funds Under Management (FUM) (\$US)

Chart 54: Relative returns of Funds by FUM (USD \$): Last month

The narrowest margin between the top and bottom quartile was for > \$10bn funds

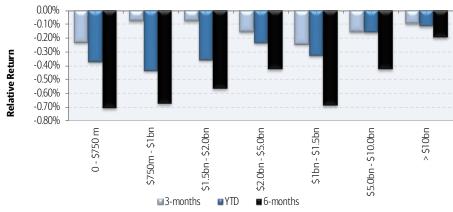


Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

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Chart 55: Relative returns of Funds by FUM (USD \$): Periodic returns

>\$10bn funds have performed the best in the last 6m



Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

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Chart 56: Percentage of Funds by FUM (USD \$)

\$2.0bn - \$5.0bn funds constitutes 24% of this fund group

■ \$2.0bn - \$5.0bn (559, \$1,773 bn)
■ 0 - \$750 m (446, \$222 bn)
■ \$1bn - \$1.5bn (356, \$437 bn)
■ \$750m - \$1bn (254, \$219 bn)
■ \$1.5bn - \$2.0bn (249, \$432 bn)
■ \$1.5bn - \$2.0bn (249, \$432 bn)

■\$5.0bn - \$10.0bn (238, \$1,686 bn)

11% 24% 11% 15%

 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$



Funds by FUM between \$1 - \$750m

Chart 57: Relative returns of funds managing < \$750m - Last 12 months

0 - \$750 m funds have outperformed by $0.0\bar{5}\%$ last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 58: Relative returns of funds managing < \$750m: Periodic returns

0 - \$750 m have outperformed by 0.05% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

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Table 21: Relative returns of funds managing < \$750m : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.05%	0.74%	-0.57%
3-months	-0.23%	0.91%	-1.51%
YTD	-0.37%	0.81%	-2.09%
6-months	-0.71%	0.38%	-2.98%
2-yr*	-1.43%	-0.18%	-5.01%
3-yr*	-1.20%	-0.23%	-4.27%
4-yr*	-1.51%	-0.34%	-4.60%
5-yr*	-1.30%	-0.29%	-3.88%

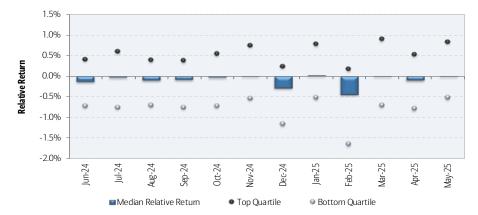
 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^*\ relative\ annualized\ return$



Funds by FUM between \$750m - \$1bn

Chart 59: Relative returns of funds managing between \$750m and \$1bn - Last 12 months

\$750m - \$1000m funds have underperformed by 0.00% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 60: Relative returns of funds managing between \$750m and \$1bn: Periodic returns

\$750m - \$1000m have underperformed by 0.00% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ *relative\ annualized\ return and a support of the property of t$

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Table 22: Relative returns of funds managing between \$750m and \$1bn : Periodic returns Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.00%	0.83%	-0.54%
3-months	-0.07%	0.96%	-1.17%
YTD	-0.43%	0.51%	-1.68%
6-months	-0.68%	-0.01%	-2.66%
2-yr*	-1.05%	-0.08%	-4.34%
3-yr*	-1.04%	-0.17%	-3.61%
4-yr*	-1.01%	-0.20%	-3.44%
5-yr*	-0.76%	0.01%	-2.96%

Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return



Funds by FUM between \$1bn - 1.5bn

Chart 61: Relative returns of funds managing between \$1.0bn and \$1.5bn - Last 12 months

\$1000m - 1500m funds have outperformed by 0.01% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 62: Relative returns of funds managing between \$1.0bn and \$1.5bn : Periodic returns

\$1000m - 1500m have outperformed by 0.01% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^\star\ relative\ annualized\ return$

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Table 23: Relative returns of funds managing between \$1.0bn and \$1.5bn : Periodic returns Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.01%	0.60%	-0.46%
3-months	-0.24%	0.75%	-1.42%
YTD	-0.32%	0.99%	-2.00%
6-months	-0.68%	0.23%	-2.44%
2-yr*	-1.38%	-0.11%	-5.07%
3-yr*	-0.97%	-0.01%	-3.29%
4-yr*	-1.10%	-0.23%	-3.69%
5-yr*	-1.00%	-0.13%	-3.16%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^{\star}\ relative\ annualized\ return$



Funds by FUM between \$1.5bn - \$2.0bn

Chart 63: Relative returns of funds managing between \$1.5bn and \$2.0bn - Last 12 months

\$1500m - \$2000m funds have outperformed by 0.13% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 64: Relative returns of funds managing between \$1.5bn and \$2.0bn : Periodic returns

\$1500m - \$2000m have outperformed by 0.13% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ *relative\ annualized\ return and a support of the property of t$

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Table 24: Relative returns of funds managing between \$1.5bn and \$2.0bn : Periodic returnsMedian, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.13%	0.93%	-0.27%
3-months	-0.08%	0.77%	-1.00%
YTD	-0.35%	0.57%	-1.83%
6-months	-0.56%	0.14%	-1.88%
2-yr*	-0.96%	-0.06%	-4.06%
3-yr*	-0.96%	-0.07%	-2.93%
4-yr*	-1.08%	-0.21%	-3.84%
5-yr*	-0.90%	-0.03%	-2.92%

Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return



Funds by FUM between \$2bn - \$5bn

Chart 65: Relative returns of funds managing between \$2.0bn and \$5.0bn - Last 12 months

\$2000m - \$5000m funds have outperformed by 0.02% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 66: Relative returns of funds managing between \$2.0bn and \$5.0bn: Periodic returns

\$2000m - \$5000m have outperformed by 0.02% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

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Table 25: Relative returns of funds managing between \$2.0bn and \$5.0bn : Periodic returns Median, Top and Bottom Quartile returns for various periods

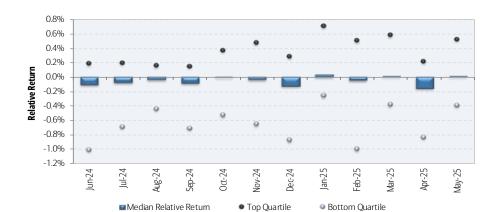
Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.02%	0.72%	-0.39%
3-months	-0.15%	0.78%	-1.11%
YTD	-0.24%	0.71%	-1.39%
6-months	-0.43%	0.29%	-2.01%
2-yr*	-0.76%	-0.03%	-3.36%
3-yr*	-0.64%	-0.02%	-2.48%
4-yr*	-0.81%	-0.14%	-3.22%
5-yr*	-0.68%	-0.07%	-2.80%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^{\star}\ relative\ annualized\ return$



Funds by FUM between \$5.0bn - \$10bn

Chart 67: Relative returns of funds managing between \$5.0bn and \$10.0bn - Last 12 months \$5000m - \$10000m funds have outperformed by 0.02% last month



 $Source: Bof A\,Global\,Quantitative\,Strategy, Factset, Bloomberg, Benchmark\,Indices$

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Chart 68: Relative returns of funds managing between \$5.0bn and \$10.0bn : Periodic returns 5000m - 10000m have outperformed by 0.02% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return annualized\ return$

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Table 26: Relative returns of funds managing between \$5.0bn and \$10.0bn : Periodic returns Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.02%	0.53%	-0.40%
3-months	-0.15%	0.54%	-1.04%
YTD	-0.16%	0.59%	-1.17%
6-months	-0.43%	0.04%	-1.61%
2-yr*	-0.82%	-0.17%	-3.38%
3-yr*	-0.58%	-0.07%	-2.33%
4-yr*	-0.64%	-0.11%	-2.57%
5-yr*	-0.58%	-0.07%	-2.57%

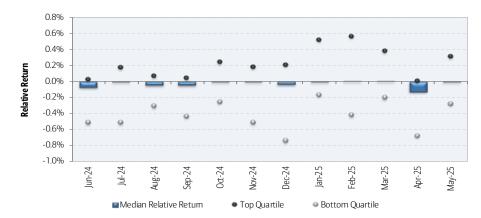
Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return



Funds by FUM > \$10bn

Chart 69: Relative returns of funds managing > \$10bn - Last 12 months

> \$10000m funds have underperformed by -0.01% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 70: Relative returns of funds managing > \$10bn : Periodic returns

> \$10000m have underperformed by -0.01% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

BofA GLOBAL RESEARCH

Table 27: Relative returns of funds managing > \$10bn: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	-0.01%	0.30%	-0.29%
3-months	-0.10%	0.32%	-0.63%
YTD	-0.12%	0.32%	-0.63%
6-months	-0.20%	0.19%	-1.02%
2-yr*	-0.43%	-0.10%	-1.49%
3-yr*	-0.33%	-0.06%	-1.11%
4-yr*	-0.41%	-0.09%	-1.54%
5-yr*	-0.28%	-0.06%	-1.15%

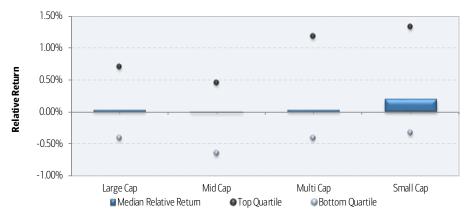
 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^{\star}\ relative\ annualized\ return$



Funds by Market Cap of Stocks

Chart 71: Relative returns of Funds by MCAP: Last month

The narrowest margin between the top and bottom quartile was for Mid Cap funds

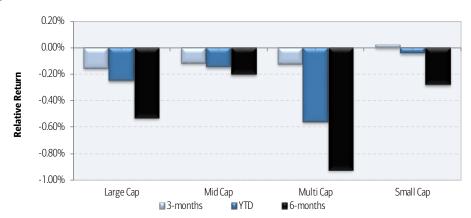


Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

BofA GLOBAL RESEARCH

Chart 72: Relative returns of Funds by MCAP: Periodic returns

Mid Cap funds have performed the best in the last 6m

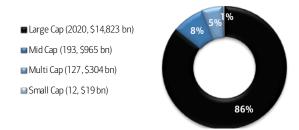


 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 73: Percentage of Funds by MCAP

Large Cap funds constitutes 86% of this fund group



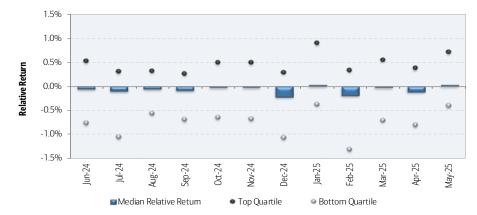
Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices



Funds by Market Cap: LARGE CAP

Chart 74: Relative returns of LARGE CAP funds - Last 12 months

Large Cap funds have outperformed by 0.03% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 75: Relative returns of LARGE CAP funds: Periodic returns

Large Cap have outperformed by 0.03% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ *relative\ annualized\ return$

BofA GLOBAL RESEARCH

Table 28: Relative returns of LARGE CAP funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.03%	0.71%	-0.41%
3-months	-0.15%	0.77%	-1.13%
YTD	-0.25%	0.72%	-1.57%
6-months	-0.53%	0.17%	-2.18%
2-yr*	-0.95%	-0.14%	-4.01%
3-yr*	-0.81%	-0.12%	-3.01%
4-yr*	-1.03%	-0.27%	-3.49%
5-yr*	-0.88%	-0.14%	-3.01%

 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ Strategy \ Factset, Bloomberg, Benchmark \ Factset, Bloomberg, Bloomberg, Bloomberg, Benchmark \ Factset, Bloomberg, Bloomberg$



Funds by Market Cap: MULTI CAP

Chart 76: Relative returns of MULTI CAP funds - Last 12 months

Multi Cap funds have outperformed by 0.03% last month

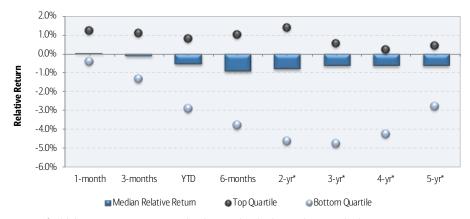


 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 77: Relative returns of MULTI CAP funds: Periodic returns

Multi Cap have outperformed by 0.03% in the last 1-month



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ Strategy \ Factset, Bloomberg, Benchmark \ Indices. \ * relative \ Annualized \ return \ Factset, Bloomberg, Benchmark \ Factset, Bloomberg, Bloomb$

BofA GLOBAL RESEARCH

Table 29: Relative returns of MULTI CAP funds : Periodic returns

Median, Top and Bottom Quartile returns for various periods

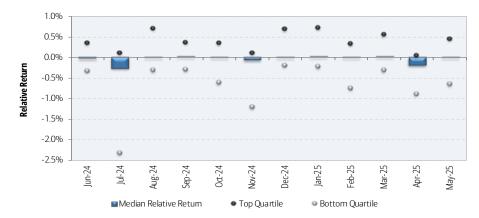
Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.03%	1.17%	-0.42%
3-months	-0.12%	1.05%	-1.35%
YTD	-0.56%	0.78%	-2.93%
6-months	-0.92%	0.96%	-3.83%
2-yr*	-0.79%	1.34%	-4.63%
3-yr*	-0.64%	0.50%	-4.78%
4-yr*	-0.62%	0.18%	-4.27%
5-yr*	-0.61%	0.40%	-2.82%

 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$



Funds by Market Cap: MID CAP

Mid Cap funds have underperformed by -0.01% last month

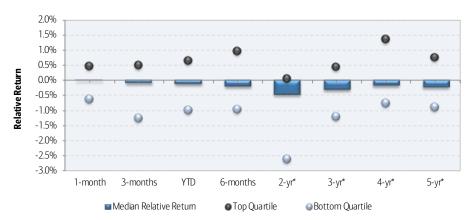


 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 79: Relative returns of MID CAP funds : Periodic returns

Mid Cap have underperformed by -0.01% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

BofA GLOBAL RESEARCH

Table 30: Relative returns of MID CAP funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	-0.01%	0.44%	-0.65%
3-months	-0.11%	0.48%	-1.27%
YTD	-0.15%	0.63%	-1.00%
6-months	-0.21%	0.96%	-0.99%
2-yr*	-0.49%	0.03%	-2.62%
3-yr*	-0.31%	0.43%	-1.22%
4-yr*	-0.19%	1.33%	-0.79%
5-yr*	-0.24%	0.75%	-0.89%

 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ an$



Funds by Market Cap: SMALL CAP

Chart 80: Relative returns of SMALL CAP funds - Last 12 months

Small Cap funds have outperformed by 0.19% last month



 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

BofA GLOBAL RESEARCH

Chart 81: Relative returns of SMALL CAP funds: Periodic returns

Small Cap have outperformed by 0.27% in the last 4-yr*



 $Source: Bof A\,Global\,\,Quantitative\,\,Strategy,\,Factset,\,Bloomberg,\,Benchmark\,\,Indices$

BofA GLOBAL RESEARCH

Table 31: Relative returns of SMALL CAP funds : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.19%	1.32%	-0.34%
3-months	0.02%	1.30%	-0.35%
YTD	-0.04%	1.47%	-1.69%
6-months	-0.28%	0.71%	-1.41%
2-yr*	-1.20%	0.13%	-4.63%
3-yr*	-0.58%	-0.20%	-1.86%
4-yr*	0.27%	2.26%	-4.67%
5-yr*	-0.40%	4.07%	-3.03%

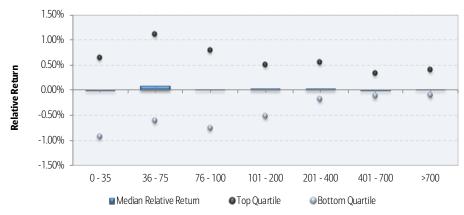
 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$



Funds by Portfolio Size (# stocks)

Chart 82: Relative returns of Funds by Portfolio Size (# of stocks): Last month

The narrowest margin between the top and bottom quartile was for 401 - 700 funds

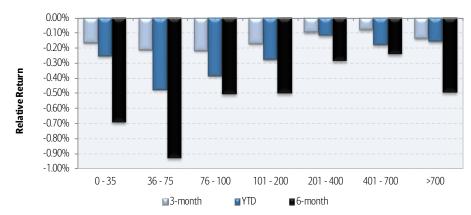


Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

BofA GLOBAL RESEARCH

Chart 83: Relative returns of Funds by Portfolio Size (# of stocks): Periodic returns

201 - 400 funds have performed best in the last 5m



 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

BofA GLOBAL RESEARCH

Chart 84: Percentage of Funds by Portfolio Size (# of stocks)

36 - 75 funds constitutes 37% of this fund group

- 36 75 (859, \$2,571 bn)
- 101 200 (326, \$2,452 bn)
- 201 400 (260, \$2,339 bn)
- 0 35 (245, \$663 bn)
- 401 700 (227, \$4,280 bn)
- 76 100 (217,\$990 bn)
- 76 100 (217,\$990 bn)



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$



Funds by Portfolio Size (< 35 stocks)

Chart 85: Relative returns of funds with <= 35 stocks - Last 12 months

0 - 35 funds have underperformed by -0.02% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 86: Relative returns of funds with <= 35 stocks : Periodic returns

0 - 35 have underperformed by -0.02% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^{\star}\ relative\ annualized\ return$

BofA GLOBAL RESEARCH

Table 32: Relative returns of funds with <= 35 stocks : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	-0.02%	0.64%	-0.93%
3-month	-0.16%	1.34%	-1.53%
YTD	-0.25%	1.69%	-2.61%
6-month	-0.69%	0.65%	-3.43%
2-yr*	-2.27%	-0.13%	-7.40%
3-yr*	-1.55%	-0.10%	-4.76%
4-yr*	-1.96%	-0.28%	-5.38%
5-yr*	-1.59%	-0.21%	-4.86%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*relative\ annualized\ return$



Funds by Portfolio Size (36-75 stocks)

Chart 87: Relative returns of funds managing > 35 and <=75 stocks - Last 12 months

36 - 75 funds have outperformed by 0.08% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 88: Relative returns of funds managing > 35 and <=75 stocks : Periodic returns

36 - 75 have outperformed by 0.08% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^\star\ relative\ annualized\ return$

BofA GLOBAL RESEARCH

Table 33: Relative returns of funds managing > 35 and <=75 stocks : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.08%	1.11%	-0.62%
3-month	-0.21%	1.04%	-1.71%
YTD	-0.47%	1.28%	-2.72%
6-month	-0.93%	0.48%	-3.33%
2-yr*	-2.43%	-0.14%	-5.98%
3-yr*	-1.65%	-0.08%	-4.49%
4-yr*	-2.42%	-0.42%	-5.05%
5-yr*	-1.70%	-0.25%	-3.87%

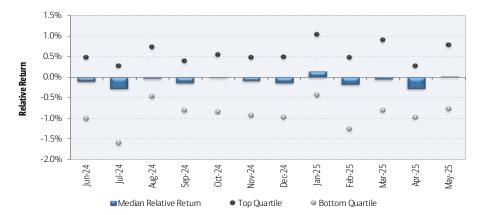
 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^{\star}\ relative\ annualized\ return$



Funds by Portfolio Size (76-100 stocks)

Chart 89: Relative returns of funds managing > 75 and <= 100 stocks - Last 12 months

76 - 100 funds have outperformed by 0.02% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 90: Relative returns of funds managing > 75 and <= 100 stocks : Periodic returns

76 - 100 have outperformed by 0.02% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ {}^{\star}\ relative\ annualized\ return$

BofA GLOBAL RESEARCH

Table 34: Relative returns of funds managing > 75 and <=100 stocks : Periodic returns Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.02%	0.78%	-0.78%
3-month	-0.22%	0.77%	-1.50%
YTD	-0.38%	0.86%	-2.06%
6-month	-0.50%	0.55%	-2.34%
2-yr*	-1.39%	-0.11%	-4.48%
3-yr*	-1.20%	-0.08%	-3.26%
4-yr*	-1.17%	-0.21%	-3.94%
5-vr*	-1.08%	-0.09%	-3 26%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$



Funds by Portfolio Size (101-200 stocks)

Chart 91: Relative returns of funds managing > 100 and <=200 stocks - Last 12 months

101 - 200 funds have outperformed by 0.03% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 92: Relative returns of funds managing > 100 and <=200 stocks : Periodic returns

101 - 200 have outperformed by 0.03% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

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Table 35: Relative returns of funds managing > 100 and <=200 stocks : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.03%	0.51%	-0.54%
3-month	-0.17%	0.58%	-1.15%
YTD	-0.28%	0.58%	-1.74%
6-month	-0.50%	0.24%	-1.99%
2-yr*	-0.75%	-0.06%	-3.01%
3-yr*	-0.59%	-0.09%	-2.12%
4-yr*	-0.71%	-0.02%	-2.10%
5-yr*	-0.55%	0.08%	-2.07%

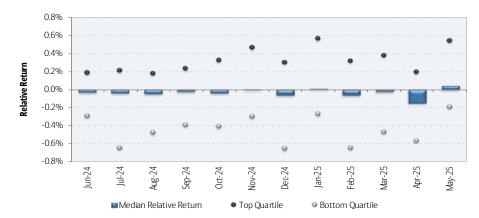
 $Source: Bof A\,Global\,\,Quantitative\,\,Strategy,\,Factset,\,Bloomberg,\,Benchmark\,\,Indices.\,\,\,^{\star}\,relative\,annualized\,\,return$



Funds by Portfolio Size (201-400 stocks)

Chart 93: Relative returns of funds managing > 200 and <=400 stocks - Last 12 months

201 - 400 funds have outperformed by 0.04% last month



 $Source: Bof A\,Global\,Quantitative\,Strategy, Factset, Bloomberg, Benchmark\,Indices$

BofA GLOBAL RESEARCH

Chart 94: Relative returns of funds managing > 200 and <=400 stocks: Periodic returns

201 - 400 have outperformed by 0.04% in the last 1-month



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * \ relative \ annualized \ return \ Source \ Factset, Bloomberg, Benchmark \ Factset, Bloomberg, B$

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Table 36: Relative returns of funds managing > 200 and <=400 stocks : Periodic returns Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.04%	0.54%	-0.20%
3-month	-0.09%	0.35%	-0.80%
YTD	-0.12%	0.66%	-0.81%
6-month	-0.28%	0.36%	-1.06%
2-yr*	-0.49%	-0.07%	-1.54%
3-yr*	-0.44%	-0.01%	-1.26%
4-yr*	-0.45%	-0.06%	-1.43%

-0.41%

Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return

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-1.16%

0.10%

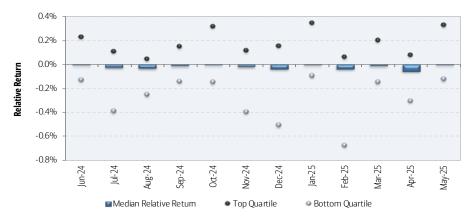


5-yr*

Funds by Portfolio Size (401-700 stocks)

Chart 95: Relative returns of funds managing > 400 and <=700 stocks - Last 12 months

401 - 700 funds have underperformed by 0.00% last month

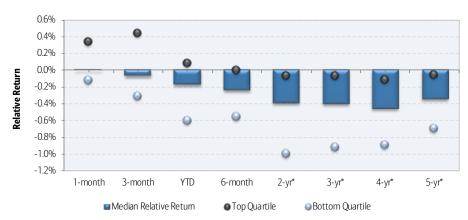


 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 96: Relative returns of funds managing > 400 and <=700 stocks : Periodic returns

401 - 700 have underperformed by 0.00% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy, Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*\ relative\ annualized\ return$

BofA GLOBAL RESEARCH

Table 37: Relative returns of funds managing > 400 and <=700 stocks : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.00%	0.33%	-0.13%
3-month	-0.08%	0.44%	-0.32%
YTD	-0.18%	0.08%	-0.60%
6-month	-0.24%	0.00%	-0.56%
2-yr*	-0.40%	-0.07%	-1.00%
3-yr*	-0.40%	-0.07%	-0.93%
4-yr*	-0.46%	-0.12%	-0.90%
5-yr*	-0.34%	-0.06%	-0.70%

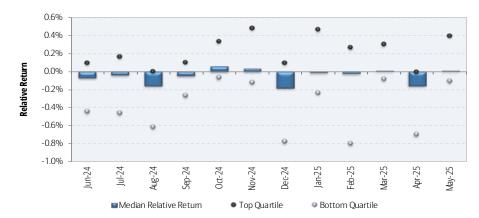
 $Source: Bof A\,Global\,\,Quantitative\,\,Strategy,\,Factset,\,Bloomberg,\,Benchmark\,\,Indices.\,\,\,^{\star}\,relative\,annualized\,\,return$



Funds by Portfolio Size (> 700 stocks)

Chart 97: Relative returns of funds with > 700 stocks - Last 12 months

>700 funds have outperformed by 0.00% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 98: Relative returns of funds with > 700 stocks : Periodic returns

>700 have outperformed by 0.00% in the last 1-month



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ return \ annualized \ return \ annualized \ return \ annualized \ return \ re$

BofA GLOBAL RESEARCH

Table 38: Relative returns of funds with > 700 stocks : Periodic returns

 $\label{eq:median} \mbox{Median, Top and Bottom Quartile returns for various periods}$

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.00%	0.39%	-0.11%
3-month	-0.13%	0.35%	-0.50%
YTD	-0.16%	0.07%	-0.63%
6-month	-0.50%	-0.14%	-0.98%
2-yr*	-0.54%	-0.17%	-0.95%
3-yr*	-0.45%	-0.16%	-0.81%
4-yr*	-0.53%	-0.16%	-0.89%
5-yr*	-0.47%	-0.17%	-0.75%

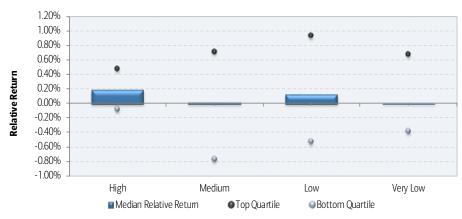
 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*relative\ annualized\ return$



Funds by Turnover

Chart 99: Relative returns of Funds by Turnover: Last month

Best fund group based on median 1-m returns was High

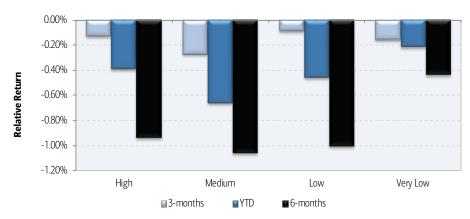


Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

BofA GLOBAL RESEARCH

Chart 100: Relative returns of Funds by Turnover: Periodic returns

Very Low funds have performed the best in the last 6m

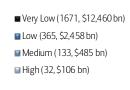


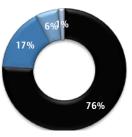
 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

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Chart 101: Percentage of Funds by Turnover

Very Low funds constitutes 76% of this fund group





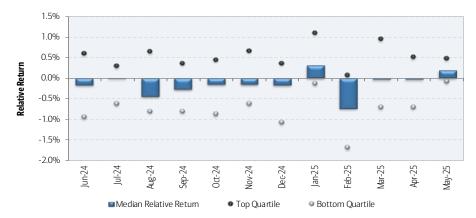
 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$



Funds by Turnover: HIGH

Chart 102: Relative returns of HIGH turnover funds - Last 12 months

High funds have outperformed by 0.18% last month



 $Source: Bof A\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 103: Relative returns of HIGH turnover funds: Periodic returns

High have outperformed by 0.18% in the last 1-month



 $Source: Bof A \ Global \ Quantitative \ Strategy, Factset, Bloomberg, Benchmark \ Indices. \ * relative \ annualized \ return \ return \ annualized \ return \ annualized \ return \ annualized \ return \ re$

BofA GLOBAL RESEARCH

Table 39: Relative returns of HIGH turnover funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.18%	0.47%	-0.09%
3-months	-0.13%	0.65%	-0.53%
YTD	-0.39%	0.69%	-1.72%
6-months	-0.93%	0.50%	-2.63%
2-yr*	-1.08%	-0.23%	-3.98%
3-yr*	-0.78%	-0.25%	-3.68%
4-yr*	-1.13%	-0.71%	-3.02%
5-yr*	-0.87%	-0.39%	-2.67%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*relative\ annualized\ return$



Funds by Turnover: MEDIUM

Chart 104: Relative returns of MEDIUM turnover funds - Last 12 months

Medium funds have outperformed by 0.03% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

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Chart 105: Relative returns of MEDIUM turnover funds: Periodic returns

Medium have outperformed by 0.03% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ *relative\ annualized\ return$

BofA GLOBAL RESEARCH

Table 40: Relative returns of MEDIUM turnover funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.03%	0.71%	-0.78%
3-months	-0.27%	0.59%	-1.93%
YTD	-0.66%	0.52%	-3.25%
6-months	-1.06%	-0.05%	-3.62%
2-yr*	-0.97%	0.56%	-4.08%
3-yr*	-0.81%	0.27%	-4.47%
4-yr*	-1.12%	-0.04%	-3.59%
5-yr*	-0.75%	0.15%	-3.02%

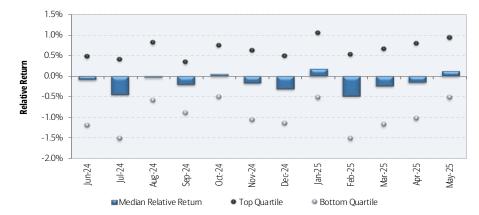
 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*relative\ annualized\ return$



Funds by Turnover: LOW

Chart 106: Relative returns of LOW turnover funds - Last 12 months

Low funds have outperformed by 0.13% last month



 $Source: Bof A \ Global \ Quantitative \ Strategy, \ Factset, \ Bloomberg, \ Benchmark \ Indices$

BofA GLOBAL RESEARCH

Chart 107: Relative returns of LOW turnover funds: Periodic returns

Low have outperformed by 0.13% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*relative\ annualized\ return$

BofA GLOBAL RESEARCH

Table 41: Relative returns of LOW turnover funds : Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.13%	0.93%	-0.53%
3-months	-0.08%	1.11%	-1.51%
YTD	-0.46%	1.36%	-2.26%
6-months	-1.01%	0.91%	-2.90%
2-yr*	-1.58%	0.40%	-4.75%
3-yr*	-1.20%	0.25%	-3.72%
4-yr*	-1.97%	-0.12%	-4.53%
5-yr*	-1.56%	0.25%	-3.78%

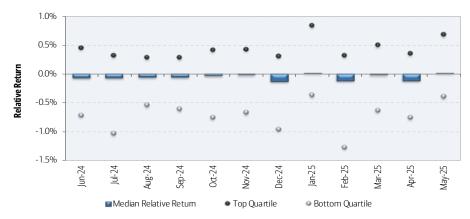
 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*relative\ annualized\ return$



Funds by Turnover: VERY LOW

Chart 108: Relative returns of VERY LOW turnover funds - Last 12 months

Very Low funds have outperformed by 0.01% last month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices$

BofA GLOBAL RESEARCH

Chart 109: Relative returns of VERY LOW turnover funds : Periodic returns

Very Low have outperformed by 0.01% in the last 1-month



 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ *relative\ annualized\ return$

BofA GLOBAL RESEARCH

Table 42: Relative returns of VERY LOW turnover funds: Periodic returns

Median, Top and Bottom Quartile returns for various periods

Period	Median Relative Return	Top Quartile	Bottom Quartile
1-month	0.01%	0.67%	-0.40%
3-months	-0.15%	0.66%	-1.09%
YTD	-0.21%	0.65%	-1.41%
6-months	-0.44%	0.17%	-1.87%
2-yr*	-0.86%	-0.14%	-3.73%
3-yr*	-0.70%	-0.09%	-2.78%
4-yr*	-0.80%	-0.17%	-3.23%
5-yr*	-0.72%	-0.10%	-2.63%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ \ ^*relative\ annualized\ return$



Summary Table: Median Relative Returns

Table 43: Median relative returns matrix

Relative returns of all fund groups for various periods

Group	Sub-Group	1m	3m	6m	YTD	12m	2-yr*	3-yr*	4-yr*	5-yr*
Fund by ASR	0-20%	-0.01%	-0.12%	-0.28%	-0.17%	-0.42%	-0.47%	-0.42%	-0.45%	-0.43%
Fund by ASR	21-40%	0.04%	-0.21%	-0.72%	-0.71%	-0.92%	-0.67%	-0.63%	-0.77%	-0.74%
Fund by ASR	41-60%	0.14%	-0.13%	-0.98%	-0.48%	-2.02%	-0.96%	-1.04%	-1.59%	-1.37%
Fund by ASR	61-80%	0.35%	-0.28%	-1.12%	-0.49%	-2.52%	-2.27%	-1.72%	-2.42%	-1.75%
Fund by ASR	81-100%	-0.12%	-0.35%	-0.96%	-0.19%	-3.87%	-4.03%	-2.66%	-2.74%	-1.95%
Fund by FUM(\$)	0 - \$750 m	0.05%	-0.23%	-0.71%	-0.37%	-1.35%	-1.43%	-1.20%	-1.51%	-1.30%
Fund by FUM(\$)	\$750m - \$1bn	0.00%	-0.07%	-0.68%	-0.43%	-1.11%	-1.05%	-1.04%	-1.01%	-0.76%
Fund by FUM(\$)	\$1.0bn- 1.5bn	0.01%	-0.24%	-0.68%	-0.32%	-1.61%	-1.38%	-0.97%	-1.10%	-1.00%
Fund by FUM(\$)	\$1.5bn - \$2.0bn	0.13%	-0.08%	-0.56%	-0.35%	-1.54%	-0.96%	-0.96%	-1.08%	-0.90%
Fund by FUM(\$)	\$2.0bn - \$5.0bn	0.02%	-0.15%	-0.43%	-0.24%	-1.01%	-0.76%	-0.64%	-0.81%	-0.68%
Fund by FUM(\$)	\$5.0bn - \$10.0bn	0.02%	-0.15%	-0.43%	-0.16%	-0.77%	-0.82%	-0.58%	-0.64%	-0.58%
Fund by FUM(\$)	>\$10.0bn	-0.01%	-0.10%	-0.20%	-0.12%	-0.44%	-0.43%	-0.33%	-0.41%	-0.28%
Fund by MCAP	Large Cap	0.03%	-0.15%	-0.53%	-0.25%	-1.14%	-0.95%	-0.81%	-1.03%	-0.88%
Fund by MCAP	Mid Cap	-0.01%	-0.11%	-0.21%	-0.15%	-0.53%	-0.49%	-0.31%	-0.19%	-0.24%
Fund by MCAP	Small Cap	0.19%	0.02%	-0.28%	-0.04%	-4.79%	-1.20%	-0.58%	0.27%	-0.40%
Fund by MCAP	Multi Cap	0.03%	-0.12%	-0.92%	-0.56%	-0.71%	-0.79%	-0.64%	-0.62%	-0.61%
Fund by Investment Style	Value	0.19%	0.03%	-0.36%	0.32%	-2.78%	-0.85%	-0.20%	0.27%	0.55%
Fund by Investment Style	Growth	0.17%	-0.40%	-1.23%	-0.80%	-2.83%	-2.68%	-1.95%	-2.77%	-2.40%
Fund by Investment Style	GARP	0.01%	-0.16%	-0.69%	-0.01%	-0.98%	-1.82%	-1.00%	-1.79%	-1.15%
Fund by Investment Style	Yield	-0.42%	0.38%	0.27%	0.86%	-0.90%	-1.41%	-1.66%	-0.81%	-0.75%
Fund by Investment Style	Index	0.00%	-0.12%	-0.31%	-0.17%	-0.42%	-0.47%	-0.44%	-0.47%	-0.43%
Fund by Manager Type	Active	0.12%	-0.25%	-1.00%	-0.55%	-2.63%	-2.27%	-1.69%	-2.25%	-1.76%
Fund by Manager Type	Passive	0.00%	-0.12%	-0.31%	-0.17%	-0.42%	-0.47%	-0.44%	-0.47%	-0.43%
Fund by Portfolio Size (# stocks)	0 - 35	-0.02%	-0.16%	-0.69%	-0.25%	-1.63%	-2.27%	-1.55%	-1.96%	-1.59%
Fund by Portfolio Size (# stocks)	36 - 75	0.08%	-0.21%	-0.93%	-0.47%	-2.58%	-2.43%	-1.65%	-2.42%	-1.70%
Fund by Portfolio Size (# stocks)	76 - 100	0.02%	-0.22%	-0.50%	-0.38%	-1.51%	-1.39%	-1.20%	-1.17%	-1.08%
Fund by Portfolio Size (# stocks)	101 - 200	0.03%	-0.17%	-0.50%	-0.28%	-1.28%	-0.75%	-0.59%	-0.71%	-0.55%
Fund by Portfolio Size (# stocks)	201 - 400	0.04%	-0.09%	-0.28%	-0.12%	-0.58%	-0.49%	-0.44%	-0.45%	-0.41%
Fund by Portfolio Size (# stocks)	401 - 700	0.00%	-0.08%	-0.24%	-0.18%	-0.38%	-0.40%	-0.40%	-0.46%	-0.34%
Fund by Portfolio Size (# stocks)	>700	0.00%	-0.13%	-0.50%	-0.16%	-0.56%	-0.54%	-0.45%	-0.53%	-0.47%
Fund by Turnover	High	0.18%	-0.13%	-0.93%	-0.39%	-0.65%	-1.08%	-0.78%	-1.13%	-0.87%
Fund by Turnover	Medium	0.03%	-0.27%	-1.06%	-0.66%	-2.63%	-0.97%	-0.81%	-1.12%	-0.75%
Fund by Turnover	Low	0.13%	-0.08%	-1.01%	-0.46%	-2.35%	-1.58%	-1.20%	-1.97%	-1.56%
Fund by Turnover	Very Low	0.01%	-0.15%	-0.44%	-0.21%	-0.95%	-0.86%	-0.70%	-0.80%	-0.72%
Fund by Region	Global (DM+EM)	0.27%	-0.01%	-0.69%	-0.17%	-1.16%	-1.83%	-1.02%	-2.10%	-2.02%
Fund by Region	Global (DM)	0.07%	0.24%	-0.59%	-0.22%	-1.58%	-1.78%	-1.35%	-1.65%	-1.17%
Fund by Region	EAFE	0.16%	-0.59%	-0.76%	0.09%	-0.96%	-0.86%	-0.64%	-0.64%	-0.61%
Fund by Region	USA	-0.01%	-0.12%	-0.31%	-0.21%	-0.73%	-0.58%	-0.50%	-0.56%	-0.46%
Fund by Region	Europe	0.02%	-0.26%	-0.64%	-0.63%	-0.98%	-1.02%	-0.97%	-0.91%	-1.04%
Fund by Region	Japan	-0.01%	-0.25%	-0.26%	-0.04%	-0.42%	-0.46%	-0.42%	-0.59%	-0.44%
Fund by Region	APXJ	0.03%	-0.65%	-1.02%	-0.65%	-1.64%	-1.77%	-1.17%	-1.23%	-1.06%
Fund by Region	EM	0.44%	-0.21%	-0.86%	0.14%	-1.70%	-1.17%	-0.63%	-0.99%	-0.87%
,	, =	2		2.2270	2/0	2 /0		2.22 /0	2.22 /0	2.2. 70

Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return. Empty cell suggests no data is available for that period.



Table 44: Median relative returns matrix: Global (DM+EM)Relative returns of all fund groups in Global (DM+EM) for various periods

Group	Sub-Group	Fund Count	1m	3m	6m	YTD	12m	2-yr*	3-yr*	4-yr*	5-yr*
Fund by ASR	0-20%	28	0.00%	-0.20%	-0.57%	-0.21%	-0.65%	-0.68%	-0.45%	-0.51%	-0.51%
Fund by ASR	21-40%	16	0.23%	0.03%	-0.58%	-0.22%	-0.27%	-0.59%	-0.63%	-0.59%	-0.49%
Fund by ASR	41-60%	14	0.16%	0.21%	-0.59%	-0.17%	-1.24%	-0.15%	-0.39%	-1.87%	-1.83%
Fund by ASR	61-80%	47	0.56%	-0.78%	-1.09%	-0.75%	-2.56%	-2.17%	-0.90%	-2.77%	-1.87%
Fund by ASR	81-100%	110	0.21%	0.36%	-1.19%	0.11%	-3.51%	-4.95%	-2.94%	-3.92%	-3.74%
Fund by FUM(\$)	0 - \$750 m	16	0.33%	0.01%	-0.49%	0.01%	-0.52%	-0.86%	-0.60%	-6.00%	-5.51%
Fund by FUM(\$)	\$750m - \$1bn	21	0.01%	0.00%	-1.09%	-0.35%	-3.81%	-3.88%	-3.57%	-5.08%	-2.41%
Fund by FUM(\$)	\$1.0bn- 1.5bn	46	0.06%	-0.22%	-0.88%	-0.23%	-2.18%	-3.88%	-2.14%	-2.56%	-1.99%
Fund by FUM(\$)	\$1.5bn - \$2.0bn	15	0.15%	0.52%	-0.90%	-0.11%	-2.07%	-1.00%	-0.69%	-1.32%	-0.58%
Fund by FUM(\$)	\$2.0bn - \$5.0bn	71	0.37%	-0.09%	-0.59%	0.09%	-1.00%	-1.64%	-1.12%	-1.90%	-1.74%
Fund by FUM(\$)	\$5.0bn - \$10.0bn	28	0.83%	0.19%	-0.69%	-0.43%	-2.22%	-2.66%	-0.76%	-2.41%	-2.34%
Fund by FUM(\$)	>\$10.0bn	18	0.23%	-0.31%	-0.62%	-0.14%	-1.02%	-0.89%	-0.56%	-1.32%	-1.23%
Fund by MCAP	Large Cap	196	0.36%	0.01%	-0.67%	-0.14%	-1.30%	-2.15%	-1.17%	-2.36%	-2.26%
Fund by MCAP	Mid Cap	5	-0.09%	-1.57%	-2.03%	-0.64%	-1.07%	-1.82%	-0.65%	-0.66%	-1.25%
Fund by MCAP	Small Cap	3	0.01%	-0.29%	-0.93%	0.84%	-1.04%	-0.84%	-0.55%	-0.50%	-0.61%
Fund by MCAP	Multi Cap	11	0.01%	0.08%	-0.62%	-0.99%	-0.66%	-1.09%	-0.84%	-0.98%	-0.83%
Fund by Investment Style	Value	13	0.40%	-0.03%	-0.95%	1.17%	-4.69%	-4.58%	-2.90%	-3.69%	-2.64%
Fund by Investment Style	Growth	138	0.54%	0.04%	-1.27%	-0.36%	-2.94%	-3.56%	-1.52%	-4.10%	-3.30%
Fund by Investment Style	GARP	4	-0.94%	0.88%	0.48%	1.77%	-0.23%	-2.16%	-1.97%	-1.84%	1.66%
Fund by Investment Style	Yield	11	-0.68%	0.58%	0.55%	2.06%	-0.64%	-4.03%	-2.76%	-2.35%	-1.52%
Fund by Investment Style	Index	49	0.10%	-0.14%	-0.56%	-0.25%	-0.47%	-0.59%	-0.48%	-0.51%	-0.45%
Fund by Manager Type	Active	166	0.44%	0.17%	-1.10%	-0.11%	-2.94%	-3.74%	-1.97%	-3.75%	-3.11%
Fund by Manager Type	Passive	49	0.10%	-0.14%	-0.56%	-0.25%	-0.47%	-0.59%	-0.48%	-0.51%	-0.45%
Fund by Portfolio Size (# stocks)	0 - 35	25	0.12%	1.44%	0.39%	2.66%	-0.20%	-3.88%	-2.98%	-3.89%	-3.55%
Fund by Portfolio Size (# stocks)	36 - 75	102	0.40%	0.17%	-0.85%	0.24%	-2.94%	-3.80%	-1.48%	-3.69%	-3.10%
Fund by Portfolio Size (# stocks)	76 - 100	18	0.18%	-0.12%	-0.96%	-0.22%	-0.77%	-1.50%	-0.76%	-3.23%	-1.55%
Fund by Portfolio Size (# stocks)	101 - 200	23	0.41%	-0.78%	-1.49%	-1.14%	-3.46%	-2.47%	-0.68%	-1.81%	-1.68%
Fund by Portfolio Size (# stocks)	201 - 400	14	0.49%	-0.30%	-0.77%	-0.27%	-1.35%	-1.22%	-0.74%	-1.26%	-1.54%
Fund by Portfolio Size (# stocks)	401 - 700	8	0.05%	0.08%	-0.15%	-0.05%	-0.60%	-0.63%	-0.39%	-0.76%	-0.49%
Fund by Portfolio Size (# stocks)	>700	25	0.14%	-0.29%	-0.64%	-0.31%	-0.99%	-0.70%	-0.55%	-0.62%	-0.57%
Fund by Turnover	High	1	0.00%	2.60%	1.71%	3.08%	-0.82%	-3.88%	-3.57%		
Fund by Turnover	Medium	16	0.31%	0.07%	-1.36%	-0.65%	-0.58%	-0.67%	-0.69%	-0.76%	-1.55%
Fund by Turnover	Low	44	0.60%	-0.18%	-0.93%	-0.14%	-2.94%	-2.74%	-1.21%	-2.99%	-2.87%
Fund by Turnover	Very Low	147	0.15%	0.00%	-0.63%	-0.18%	-1.07%	-1.93%	-1.19%	-2.04%	-1.82%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ ^* relative\ annualized\ return.\ Empty\ cell\ suggests\ no\ data\ is\ available\ for\ that\ period.$



Table 45: Median relative returns matrix: Global (DM)Relative returns of all fund groups in Global (DM) for various periods

Fund by ASR	Group	Sub-Group	Fund Count	1m	3m	6m	YTD	12m	2-yr*	3-yr*	4-yr*	5-yr*
Fund by ASR	Fund by ASR	0-20%	58	0.20%	0.22%	-0.55%	-0.22%	-0.26%	-0.57%	-0.55%	-0.66%	-0.57%
Fund by ASR 81-100% 81 -0.65% 0.66% 0.47% 0.25% 5.52% 6.59% 5.52% 6.95% 0.33%	Fund by ASR	21-40%	15	0.32%	1.01%	-0.29%	-0.35%	0.03%	-0.76%	-0.39%	-0.82%	-0.74%
Fund by ASR 81-100% 81 -0.65% 0.66% -0.47% 0.55% -5.52% -6.95% -5.54% -4.48% -3.32% -5.47 -4.48% -3.32% -5.47 -4.48% -3.32% -5.47 -4.48% -3.32% -4.48% -3.32% -4.48% -3.48% -4.48% -3.32% -4.48	Fund by ASR	41-60%	24	0.34%	-0.07%	-0.97%	-0.51%	-1.75%	-0.63%	-0.72%	-0.84%	-0.74%
Fund by FUM(S) 0 - \$750 m 10 0 - 0.52% 1.55% 1.19% 1.37% 1.23% 0-0.28% 0-0.33% 0-0.67% 1-0.60% Fund by FUM(S) \$750 m - \$510 m 25 0.009% 0.28% 0.99% 0.04% 1-1.77% 1-0.69% 1-0.29% 1-1.83% 1-1.88% 0.04% 0.05% 0-0.66% 0.06% 0-0.66% 0.06% 0-0.65% 0-0.62% 0-2.44% 0-2.83% 1-0.64% 0-1.44% 0.05% 0-0.62% 0-2.44% 0-2.83% 1-0.64% 0-1.44% 0.05% 0-0.62% 0-0.62% 0-0.62% 0-0.62% 0-1.66% 0-1.65% 0-0.62%	Fund by ASR	61-80%	64	0.29%	-0.03%	-0.84%	-0.72%	-2.74%	-2.48%	-1.77%	-2.45%	-1.77%
Fund by FUM(S) \$750m - S1bn 25	Fund by ASR	81-100%	81	-0.65%	0.66%	-0.47%	0.55%	-5.52%	-6.95%	-5.54%	-4.48%	-3.32%
Fund by FUM(S) \$1.0bn 1.5bn 42 0.07% 0.21% 0.64% 0.06% 2.54% 3.31% 2.23% 2.25% 2.02% 1.44% 1.54% 1.54% 1.44%	Fund by FUM(\$)	0 - \$750 m	10	-0.52%	1.55%	1.19%	1.37%	-1.23%	-0.28%	-0.33%	-0.67%	-1.60%
Fund by FUM(S) \$1.5bn - \$2.0bn 37 0.29% 0.46% 0.56% 0.62% 0.24% 0.28% 0.164% 0.154% 0.154% 0.154% 0.104% 0.104% 0.105% 0.22% 0.166% 0.166% 0.166% 0.105% 0.109% 0.109% 0.106% 0.166% 0.166% 0.105% 0.109% 0.109% 0.106% 0.109% 0.1	Fund by FUM(\$)	\$750m - \$1bn	25	-0.09%	0.28%	-0.99%	0.04%	-1.77%	-1.69%	-1.02%	-1.33%	-1.18%
Fund by FUM(\$) \$2.0bn -\$5.0bn 83 0.07% 0.04% -0.65% -0.22% -1.66% -1.36% -1.20% -1.45% -1.08% Fund by FUM(\$) \$5.0bn -\$110.0bn 28 0.33% 0.22% -0.63% -0.51% -0.51% -0.51% -0.27% 0.065% -0.65% -0.79% -0.66% -0.65% -0.79% -0.66% -0.65% -0.79% -0.66% -0.65% -0.66% -0.65% -0.65% -0.66% -	Fund by FUM(\$)	\$1.0bn- 1.5bn	42	0.07%	0.21%	-0.64%	-0.06%	-2.54%	-3.31%	-2.37%	-2.56%	-2.02%
Fund by FUM(s) \$5.0bn - \$10.0bn 28 0.33% 0.22% -0.63% -0.51% -0.91% -2.37% -0.70% -0.86% -0.79% Fund by FUM(s) > \$10.0bn 16 0.08% 0.29% -0.39% -0.16% -0.12% -0.65% -0.65% -0.65% -0.65% -0.65% -0.65% -0.65% -0.65% -0.65% -0.66% -0.69% -0.49% -0.44% -0.44% -0.44% -0.44% -0.44% -0.44% -0.44% -0.44% -0.44% -0.44% -0.44% -0.44% -0.44% -0.14% -0.64% -0.64% -0.64% -0.64% -0.64% -0.14% -0.26%	Fund by FUM(\$)	\$1.5bn - \$2.0bn	37	0.29%	0.46%	-0.56%	-0.62%	-2.44%	-2.83%	-1.64%	-1.54%	-1.44%
Fund by FUM(\$) >\$10.0bn	Fund by FUM(\$)	\$2.0bn - \$5.0bn	83	0.07%	0.04%	-0.65%	-0.22%	-1.66%	-1.36%	-1.20%	-1.45%	-1.08%
Fund by MCAP Large Cap Nid Cap 7 0.28% 0.07% 0.28% 0.05% 0.02% 0.69% 0.72% 0.66% 0.0	Fund by FUM(\$)	\$5.0bn - \$10.0bn		0.33%	0.22%	-0.63%	-0.51%	-0.91%	-2.37%	-0.70%	-0.86%	-0.79%
Fund by MCAP Mid Cap 7 0.28% 0.02% -0.69% -0.72% -0.66% -0.66% -0.66% -0.66% -0.66% -0.46% -0	Fund by FUM(\$)	>\$10.0bn	16	0.08%	0.29%	-0.39%	-0.16%	-0.61%	-0.72%	-0.65%	-0.68%	-0.57%
Fund by MCAP Small Cap Fund by MCAP Multi Cap 2 -4.53% -4.76% -7.07% -4.57% -9.49% -14.81% -7.58% -11.99% -9.15% Fund by Investment Style Value 20 -0.77% 0.52% -0.07% 1.40% -2.60% 3.17% -4.20% -2.86% 1.20% Fund by Investment Style Growth 120 0.08% 0.09% -0.92% -0.66% -3.73% -3.48% -2.21% -2.92% -2.21% Fund by Investment Style GARP 13 -0.56% 0.07% -0.32% 0.08% -4.54% -3.11% -2.04% -2.92% -2.21% Fund by Investment Style Yield 20 -1.83% 0.06% -0.50% 3.36% -1.72% 3.39% -4.24% -2.25% -1.79% Fund by Investment Style Index 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Manager Type Active 173 -0.09% 0.15% -0.69% -0.14% -3.25% -3.43% -2.71% -2.78% -2.12% Fund by Manager Type Passive 69 0.21% 0.35% -0.69% -0.66% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Portfolio Size (# stocks) 0 -35 27 -0.69% 1.03% -0.56% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Portfolio Size (# stocks) 36 - 75 77 0.07% 0.05% -1.80% -1.00% -1.00% -1.00% -1.00% -1.00% -1.00% -1.00% -1.00% -1.00% -1.00% -1.00% -1.00% -0.56% -2.72% -4.13% -4.65% -3.56% -2.90% Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% -0.69% -0.66% -0.56% -0.72% -1.13% -1.43% -1.43% -1.49% Fund by Portfolio Size (# stocks) 201 - 400 22 0.05% 0.02% -0.67% -0.67% -0.05% -0.56% -0.57% -1.00% -0.76% -0.57% -0.05%	Fund by MCAP	Large Cap	233	0.07%	0.28%	-0.56%	-0.20%	-1.53%	-1.82%	-1.37%	-1.74%	-1.20%
Fund by MCAP Multi Cap 2 -4.53% -4.76% -7.07% -4.57% -9.49% -14.81% -7.58% -11.99% -9.15% Fund by Investment Style Value 20 -0.77% 0.52% -0.07% 1.40% -2.60% -3.17% -4.20% -2.86% -1.20% Fund by Investment Style GARP 13 -0.56% 0.77% -0.32% 0.08% -4.54% -3.11% -2.04% -3.01% -3.16% Fund by Investment Style Yield 20 -1.83% 0.06% -0.50% 3.36% -1.72% -3.92% -4.24% -2.31% -3.16% Fund by Investment Style Index 69 0.21% 0.35% -0.56% -0.26% -0.66% -0.56% -0.26% -0.66% -0.58% -0.57% -0.61% Fund by Investment Style Index 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.26% -0.58% -0.71% -0.61% Fund by Manager Type Passive 69	Fund by MCAP	Mid Cap	7	0.28%	0.02%	-0.69%	-0.72%	-0.66%	-0.66%	-0.60%	-0.56%	-0.49%
Fund by Investment Style Value 20 -0.77% 0.52% -0.07% 1.40% -2.60% -3.17% -4.20% -2.86% -1.20% Fund by Investment Style Growth 120 0.08% 0.09% -0.92% -0.68% -3.73% -3.48% -2.21% -2.92% -2.21% Fund by Investment Style GARP 13 -0.56% 0.77% -0.32% 0.08% -4.54% -3.11% -2.04% -3.01% -3.16% Fund by Investment Style Yield 20 -1.83% 0.06% -0.50% 3.36% -1.72% -3.92% -4.24% -2.35% -1.79% Fund by Investment Style Index 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.26% -0.63% -0.58% -2.71% -2.12% Fund by Manager Type Active 173 -0.09% 0.15% -0.69% -0.14% -3.25% -3.43% -2.71% -2.78% -2.12% Fund by Manager Type Passive 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Portfolio Size (# stocks) 0 -35 27 -0.69% 1.03% -0.23% 0.53% -2.86% -5.99% -4.25% -4.97% -4.53% Fund by Portfolio Size (# stocks) 36 - 75 77 0.07% 0.05% -1.80% -1.02% -5.06% -4.35% -3.44% -3.33% -2.26% Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% 0.69% -0.56% -0.56% -2.58% -1.85% -1.34% -1.43% -1.49% Fund by Portfolio Size (# stocks) 101 - 200 22 0.05% 0.02% 0.06% -0.66% -0.56% -0.56% -0.25% -0.11% -0.66%	Fund by MCAP	Small Cap										
Fund by Investment Style Growth 120 0.08% 0.09% -0.92% -0.68% -3.73% -3.48% -2.21% -2.92% -2.21% Fund by Investment Style GARP 13 -0.56% 0.77% -0.32% 0.08% -4.54% -3.11% -2.04% -3.01% -3.16% Fund by Investment Style Yield 20 -1.83% 0.06% -0.50% 3.36% -1.72% -3.92% -4.24% -2.35% -1.79% Fund by Investment Style Index 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Manager Type Active 173 -0.09% 0.15% -0.69% -0.14% -3.25% -3.43% -2.71% -2.78% -2.12% Fund by Manager Type Passive 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Portfolio Size (# stocks) 0.35 27 -0.69% 1.03% -0.23% 0.53% -2.86% -5.99% -4.25% -4.97% -4.53% Fund by Portfolio Size (# stocks) 36 -75 77 0.07% 0.05% -1.80% -1.00% 0.76% -2.72% -4.13% -3.33% -2.26% Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% -0.69% -0.56% -0.56% -0.56% -0.58% -1.85% -1.85% -1.34% -1.43% -1.49% Fund by Portfolio Size (# stocks) 201 - 400 22 0.05% 0.02% -0.67% 0.07% -0.05% -0.05% -0.05% -0.70% -0.05% -0.07% -0.05% -0.05% -0.05% -0.07% -0.05% -0.05% -0.05% -0.00% -0.05%	Fund by MCAP	Multi Cap	2	-4.53%	-4.76%	-7.07%	-4.57%	-9.49%	-14.81%	-7.58%	-11.99%	-9.15%
Fund by Investment Style GARP 13 -0.56% 0.77% -0.32% 0.08% -4.54% -3.11% -2.04% -3.01% -3.16% Fund by Investment Style Yield 20 -1.83% 0.06% -0.50% 3.36% -1.72% -3.92% -4.24% -2.35% -1.79% Fund by Investment Style Index 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Manager Type Active 173 -0.09% 0.15% -0.69% -0.14% -3.25% -3.43% -2.71% -2.78% -2.12% Fund by Manager Type Passive 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Portfolio Size (# stocks) 0 - 35 27 -0.69% 1.03% -0.23% 0.53% -2.86% -5.99% -4.25% -4.97% -4.53% Fund by Portfolio Size (# stocks) 36 - 75 77 0.07% 0.05% -1.80% -1.02% -5.06% -2.72% -4.13% -4.65% -3.56% -2.90% Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% -0.69% -0.66% -0.26% -0.72% -1.85% -1.34% -1.43% -1.49% Fund by Portfolio Size (# stocks) 201 -400 22 0.05% 0.02% -0.67% 0.07% -0.56% -2.58% -0.72% -0.71% -0.78% -0.57% Fund by Portfolio Size (# stocks) 401 -700 24 -0.10% 0.78% -0.11% 0.02% -0.55% -0.25% -0.75% -0.25% -0.33% -0.83% -0.83% -0.11% 0.02% -0.55% -0.25% -0.25% -0.33% -0.33% -0.23% -0.25% -	Fund by Investment Style	Value	20	-0.77%	0.52%	-0.07%	1.40%	-2.60%	-3.17%	-4.20%	-2.86%	-1.20%
Fund by Investment Style Yield 20 -1.83% 0.06% -0.50% 3.36% -1.72% -3.92% -4.24% -2.35% -1.79% Fund by Investment Style Index 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Manager Type Active 173 -0.09% 0.15% -0.69% -0.14% -3.25% -3.43% -2.71% -2.78% -2.12% Fund by Manager Type Passive 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Portfolio Size (# stocks) 0 - 35 27 -0.69% 1.03% -0.23% 0.53% -2.86% -5.99% -4.25% -4.97% -4.53% Fund by Portfolio Size (# stocks) 36 - 75 77 0.07% 0.05% -1.80% -1.02% -5.06% -4.35% -3.44% -3.33% -2.26% Fund by Portfolio Size (# stocks) 76 - 100 20 -1.10% -1.04% -0.40% 0.76% -2.72% -4.13% -4.65% -3.56% -2.90% Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% -0.69% -0.56% -2.58% -1.85% -1.34% -1.43% -1.49% Fund by Portfolio Size (# stocks) 201 - 400 22 0.05% 0.02% -0.67% 0.07% -0.48% -0.72% -0.71% -0.78% -0.57% Fund by Portfolio Size (# stocks) 401 - 700 24 -0.10% 0.78% -0.11% 0.02% -0.57% -1.00% -0.76% -0.83% -0.83% Fund by Portfolio Size (# stocks) Fund by Portfolio Size (# stocks) 700 56 0.24% 0.34% -0.57% -0.27% -0.26% -0.57% -0.58% -0.74% -0.62% Fund by Turnover High 7 0.18% 0.61% -0.48% -0.12% -0.32% -1.21% -1.02% -2.03% -1.20% Fund by Turnover Medium 12 -0.22% -0.44% -1.58% -1.89% -4.28% -3.55% -2.35% -2.33% -2.33% Fund by Turnover Low 33 0.24% 0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99%	Fund by Investment Style	Growth	120	0.08%	0.09%	-0.92%	-0.68%	-3.73%	-3.48%	-2.21%	-2.92%	-2.21%
Fund by Investment Style Index 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Manager Type Active 173 -0.09% 0.15% -0.69% -0.14% -3.25% -3.43% -2.71% -2.78% -2.12% Fund by Manager Type Passive 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Portfolio Size (# stocks) 0 - 35 27 -0.69% 1.03% -0.23% 0.53% -2.86% -5.99% -4.25% -4.97% -4.53% Fund by Portfolio Size (# stocks) 36 - 75 77 0.07% 0.05% -1.80% -1.02% -5.06% -4.35% -3.44% -3.33% -2.26% Fund by Portfolio Size (# stocks) 76 - 100 20 -1.10% -1.04% -0.40% 0.76% -2.72% -4.13% -4.65% -3.56% -2.90% Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% -0.69% -0.56% -2.58% -1.85% -1.34% -1.43% -1.49% Fund by Portfolio Size (# stocks) 201 - 400 22 0.05% 0.02% -0.67% 0.07% -0.48% -0.72% -0.71% -0.78% -0.57% Fund by Portfolio Size (# stocks) 401 - 700 24 -0.10% 0.78% -0.11% 0.02% -0.57% -1.00% -0.76% -0.83% -0.83% Fund by Portfolio Size (# stocks) >700 56 0.24% 0.34% -0.57% -0.27% -0.26% -0.57% -0.26% -0.55% -0.25% -0.25% -0.23% -1.20% -0.62% Fund by Turnover High 7 0.18% 0.61% -0.48% -0.12% -0.32% -1.21% -1.02% -2.03% -1.20% -0.32% -1.21% -1.02% -2.33% -2.33% -2.33% -2.33% -0.44% 0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99% -0.25% -0.44% -0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99% -0.25% -0.41% -0.45% -0.41% -0.47% -0.47% -0.47% -0.25% -0.25% -0.25% -0.25% -0.25% -0.25% -0.25% -0.23% -0.23% -0.23% -0.23% -0.23% -0.23% -0.23% -0.24% -0.45% -0.44% -0.45% -0.44% -0.45% -0.44% -0.45% -0.44% -0.45% -0.44% -0.45% -0.44% -0.45% -0.44% -0.45% -0.45% -0.25% -0.25% -0.25% -0.25% -0.25% -0.23% -0.23% -0.23% -0.23% -0.23% -0.23% -0.23% -0.24% -0.44% -0.45% -0.44% -0.4	Fund by Investment Style	GARP	13	-0.56%	0.77%	-0.32%	0.08%	-4.54%	-3.11%	-2.04%	-3.01%	-3.16%
Fund by Manager Type	Fund by Investment Style	Yield	20	-1.83%	0.06%	-0.50%	3.36%	-1.72%	-3.92%	-4.24%	-2.35%	-1.79%
Fund by Manager Type Passive 69 0.21% 0.35% -0.56% -0.26% -0.26% -0.63% -0.58% -0.71% -0.61% Fund by Portfolio Size (# stocks) 0 - 35 27 -0.69% 1.03% -0.23% 0.53% -2.86% -5.99% -4.25% -4.97% -4.53% Fund by Portfolio Size (# stocks) 36 - 75 77 0.07% 0.05% -1.80% -1.02% -5.06% -5.06% -4.35% -3.44% -3.33% -2.26% Fund by Portfolio Size (# stocks) 76 - 100 20 -1.10% -1.04% -0.40% 0.76% -2.72% -4.13% -4.65% -3.56% -2.90% Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% -0.69% -0.56% -2.58% -1.85% -1.85% -1.34% -1.43% -1.49% Fund by Portfolio Size (# stocks) 201 - 400 22 0.05% 0.02% -0.67% 0.07% -0.48% -0.72% -0.71% -0.78% -0.57% Fund by Portfolio Size (# stocks) 401 - 700 24 -0.10% 0.78% -0.11% 0.02% -0.57% -1.00% -0.76% -0.83% -0.83% Fund by Portfolio Size (# stocks) >700 56 0.24% 0.34% -0.57% -0.27% -0.26% -0.57% -0.26% -0.57% -0.58% -0.74% -0.62% Fund by Turnover High 7 0.18% 0.61% -0.48% -0.12% -0.32% -1.21% -1.02% -2.03% -1.20% Fund by Turnover Medium 12 -0.22% -0.44% -1.58% -1.89% -4.28% -3.55% -2.35% -2.33% -2.33% Fund by Turnover Low 33 0.24% 0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99%	Fund by Investment Style	Index	69	0.21%	0.35%	-0.56%	-0.26%	-0.26%	-0.63%	-0.58%	-0.71%	-0.61%
Fund by Portfolio Size (# stocks) 0 - 35 27 -0.69% 1.03% -0.23% 0.53% -2.86% -5.99% -4.25% -4.97% -4.53% Fund by Portfolio Size (# stocks) 36 - 75 77 0.07% 0.05% -1.80% -1.02% -5.06% -4.35% -3.44% -3.33% -2.26% Fund by Portfolio Size (# stocks) 76 - 100 20 -1.10% -1.04% -0.40% 0.76% -2.72% -4.13% -4.65% -3.56% -2.90% Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% -0.69% -0.56% -2.58% -1.85% -1.34% -1.43% -1.49% Fund by Portfolio Size (# stocks) 201 - 400 22 0.05% 0.02% -0.67% 0.07% -0.48% -0.72% -0.71% -0.78% -0.57% Fund by Portfolio Size (# stocks) 401 - 700 24 -0.10% 0.78% -0.11% 0.02% -0.57% -0.26% -0.58% -0.74% -0.83% Fund by Portfolio Size (# stocks)	Fund by Manager Type	Active	173	-0.09%	0.15%	-0.69%	-0.14%	-3.25%	-3.43%	-2.71%	-2.78%	-2.12%
Fund by Portfolio Size (# stocks) 36 - 75 77 0.07% 0.05% -1.80% -1.02% -5.06% -4.35% -3.44% -3.33% -2.26% Fund by Portfolio Size (# stocks) 76 - 100 20 -1.10% -1.04% -0.40% 0.76% -2.72% -4.13% -4.65% -3.56% -2.90% Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% -0.69% -0.56% -2.58% -1.85% -1.34% -1.43% -1.49% Fund by Portfolio Size (# stocks) 201 - 400 22 0.05% 0.02% -0.67% 0.07% -0.48% -0.72% -0.71% -0.78% -0.57% Fund by Portfolio Size (# stocks) 401 - 700 24 -0.10% 0.78% -0.11% 0.02% -0.57% -1.00% -0.76% -0.83% -0.83% Fund by Portfolio Size (# stocks) >700 56 0.24% 0.34% -0.57% -0.27% -0.26% -0.57% -0.58% -0.74% -0.62% Fund by Turnover High 7 0.18% 0.61% -0.48% -0.12% -0.32% -1.21% -1.02% -2.03% -1.20% Fund by Turnover Medium 12 -0.22% -0.44% -1.58% -1.89% -4.28% -3.55% -2.35% -2.33% -2.33% Fund by Turnover Low 33 0.24% 0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99%	Fund by Manager Type	Passive	69	0.21%	0.35%	-0.56%	-0.26%	-0.26%	-0.63%	-0.58%	-0.71%	-0.61%
Fund by Portfolio Size (# stocks) 76 - 100 20 -1.10% -1.04% -0.40% 0.76% -2.72% -4.13% -4.65% -3.56% -2.90% Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% -0.69% -0.56% -2.58% -1.85% -1.34% -1.43% -1.49% Fund by Portfolio Size (# stocks) 201 - 400 22 0.05% 0.02% -0.67% 0.07% -0.48% -0.72% -0.71% -0.78% -0.57% Fund by Portfolio Size (# stocks) 401 - 700 24 -0.10% 0.78% -0.11% 0.02% -0.57% -1.00% -0.76% -0.83% -0.83% Fund by Portfolio Size (# stocks) >700 56 0.24% 0.34% -0.57% -0.27% -0.26% -0.57% -0.58% -0.74% -0.62% Fund by Turnover High 7 0.18% 0.61% -0.48% -0.12% -0.32% -1.21% -1.02% -2.03% -1.20% Fund by Turnover Medium 12 -0.22% -0.44% -1.58% -1.89% -4.28% -3.55% -2.35% -2.33% -2.33% Fund by Turnover Low 33 0.24% 0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99%	Fund by Portfolio Size (# stocks)	0 - 35	27	-0.69%	1.03%	-0.23%	0.53%	-2.86%	-5.99%	-4.25%	-4.97%	-4.53%
Fund by Portfolio Size (# stocks) 101 - 200 15 0.24% 0.53% -0.69% -0.56% -2.58% -1.85% -1.34% -1.43% -1.49% Fund by Portfolio Size (# stocks) 201 - 400 22 0.05% 0.02% -0.67% 0.07% -0.48% -0.72% -0.71% -0.78% -0.57% Fund by Portfolio Size (# stocks) 401 - 700 24 -0.10% 0.78% -0.11% 0.02% -0.57% -0.26% -0.57% -0.26% -0.57% -0.58% -0.74% -0.62% Fund by Portfolio Size (# stocks) >700 56 0.24% 0.34% -0.57% -0.27% -0.26% -0.58% -0.74% -0.62% Fund by Turnover High 7 0.18% 0.61% -0.48% -0.12% -0.32% -1.21% -1.02% -2.03% -1.20% Fund by Turnover Medium 12 -0.22% -0.44% -1.58% -1.89% -4.28% -3.55% -2.35% -2.33% -2.33% Fund by Turnover Lo	Fund by Portfolio Size (# stocks)	36 - 75	77	0.07%	0.05%	-1.80%	-1.02%	-5.06%	-4.35%	-3.44%	-3.33%	-2.26%
Fund by Portfolio Size (# stocks) 201 - 400 22 0.05% 0.02% -0.67% 0.07% -0.48% -0.72% -0.71% -0.78% -0.57% Fund by Portfolio Size (# stocks) 401 - 700 24 -0.10% 0.78% -0.11% 0.02% -0.57% -1.00% -0.76% -0.83% -0.83% Fund by Portfolio Size (# stocks) >700 56 0.24% 0.34% -0.57% -0.26% -0.57% -0.58% -0.74% -0.62% Fund by Turnover High 7 0.18% 0.61% -0.48% -0.12% -0.32% -1.21% -1.02% -2.03% -1.20% Fund by Turnover Medium 12 -0.22% -0.44% -1.58% -1.89% -4.28% -3.55% -2.35% -2.33% -2.33% Fund by Turnover Low 33 0.24% 0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99%	Fund by Portfolio Size (# stocks)	76 - 100	20	-1.10%	-1.04%	-0.40%	0.76%	-2.72%	-4.13%	-4.65%	-3.56%	-2.90%
Fund by Portfolio Size (# stocks) 401 - 700 24 -0.10% 0.78% -0.11% 0.02% -0.57% -1.00% -0.76% -0.83% -0.83% Fund by Portfolio Size (# stocks) >700 56 0.24% 0.34% -0.57% -0.27% -0.26% -0.57% -0.58% -0.74% -0.62% Fund by Turnover High 7 0.18% 0.61% -0.48% -0.12% -0.32% -1.21% -1.02% -2.03% -1.20% Fund by Turnover Medium 12 -0.22% -0.44% -1.58% -1.89% -4.28% -3.55% -2.35% -2.33% -2.33% Fund by Turnover Low 33 0.24% 0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99%	Fund by Portfolio Size (# stocks)	101 - 200	15	0.24%	0.53%	-0.69%	-0.56%	-2.58%	-1.85%	-1.34%	-1.43%	-1.49%
Fund by Portfolio Size (# stocks) >700 56 0.24% 0.34% -0.57% -0.27% -0.26% -0.57% -0.58% -0.74% -0.62% Fund by Turnover High 7 0.18% 0.61% -0.48% -0.12% -0.32% -1.21% -1.02% -2.03% -1.20% Fund by Turnover Medium 12 -0.22% -0.44% -1.58% -1.89% -4.28% -3.55% -2.35% -2.33% -2.33% Fund by Turnover Low 33 0.24% 0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99%	Fund by Portfolio Size (# stocks)	201 - 400	22	0.05%	0.02%	-0.67%	0.07%	-0.48%	-0.72%	-0.71%	-0.78%	-0.57%
Fund by Turnover High 7 0.18% 0.61% -0.48% -0.12% -0.32% -1.21% -1.02% -2.03% -1.20% Fund by Turnover Medium 12 -0.22% -0.44% -1.58% -1.89% -4.28% -3.55% -2.35% -2.33% -2.33% Fund by Turnover Low 33 0.24% 0.45% -0.41% -0.47% -2.27% -1.75% -2.83% -1.99%	Fund by Portfolio Size (# stocks)	401 - 700	24	-0.10%	0.78%	-0.11%	0.02%	-0.57%	-1.00%	-0.76%	-0.83%	-0.83%
Fund by Turnover Medium 12 -0.22% -0.44% -1.58% -1.89% -4.28% -3.55% -2.35% -2.33% -2.33% Fund by Turnover Low 33 0.24% 0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99%	Fund by Portfolio Size (# stocks)	>700	56	0.24%	0.34%	-0.57%	-0.27%	-0.26%	-0.57%	-0.58%	-0.74%	-0.62%
Fund by Turnover Low 33 0.24% 0.45% -0.41% -0.47% -2.78% -2.27% -1.75% -2.83% -1.99%	Fund by Turnover	High	7	0.18%	0.61%	-0.48%	-0.12%	-0.32%	-1.21%	-1.02%	-2.03%	-1.20%
	Fund by Turnover	Medium	12	-0.22%	-0.44%	-1.58%	-1.89%	-4.28%	-3.55%	-2.35%	-2.33%	-2.33%
Fund by Turnover Very Low 179 0.05% 0.12% -0.56% -0.21% -1.53% -1.66% -1.16% -1.33% -0.98%	Fund by Turnover	Low	33	0.24%	0.45%	-0.41%	-0.47%	-2.78%	-2.27%	-1.75%	-2.83%	-1.99%
	Fund by Turnover	Very Low	179	0.05%	0.12%	-0.56%	-0.21%	-1.53%	-1.66%	-1.16%	-1.33%	-0.98%

Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return. Empty cell suggests no data is available for that period.



Table 46: Median relative returns matrix: EAFERelative returns of all fund groups in EAFE for various periods

Group	Sub-Group	Fund Count	1m	3m	6m	YTD	12m	2-yr*	3-yr*	4-yr*	5-yr*
Fund by ASR	0-20%	23	0.03%	-0.39%	-0.60%	0.18%	-0.90%	-0.80%	-0.57%	-0.56%	-0.55%
Fund by ASR	21-40%										
Fund by ASR	41-60%	4	0.33%	-0.13%	0.49%	1.27%	-0.74%	-0.86%	-0.29%	2.81%	2.66%
Fund by ASR	61-80%	22	0.40%	-0.95%	-2.20%	-0.78%	-0.91%	-1.01%	-0.82%	-1.01%	-0.72%
Fund by ASR	81-100%	16	0.38%	-1.01%	-1.00%	-0.47%	-4.06%	-5.13%	-2.17%	-2.66%	-1.12%
Fund by FUM(\$)	0 - \$750 m	2	-0.22%	-0.05%	3.66%	3.47%	-0.99%	-1.70%	-1.18%	-1.25%	0.44%
Fund by FUM(\$)	\$750m - \$1bn	6	-0.13%	0.80%	-0.46%	0.62%	-1.33%	-0.36%	-0.73%	-1.11%	-0.78%
Fund by FUM(\$)	\$1.0bn- 1.5bn	12	0.24%	-0.70%	-1.88%	-0.56%	-1.32%	-1.06%	-1.04%	-1.50%	-1.25%
Fund by FUM(\$)	\$1.5bn - \$2.0bn	3	0.65%	0.29%	1.28%	1.74%	-0.91%	-0.32%	1.91%	0.73%	2.17%
Fund by FUM(\$)	\$2.0bn - \$5.0bn	10	0.49%	-0.97%	-1.74%	-0.71%	-1.17%	-1.25%	-1.11%	-0.98%	-0.70%
Fund by FUM(\$)	\$5.0bn - \$10.0bn	12	0.20%	-0.56%	-0.73%	0.17%	-0.83%	-0.85%	-0.58%	-0.54%	-0.49%
Fund by FUM(\$)	>\$10.0bn	20	0.08%	-0.50%	-0.71%	0.13%	-0.93%	-0.77%	-0.60%	-0.35%	-0.34%
Fund by MCAP	Large Cap	57	0.15%	-0.64%	-0.76%	0.07%	-0.91%	-0.86%	-0.64%	-0.64%	-0.61%
Fund by MCAP	Mid Cap	6	0.47%	0.05%	-0.93%	0.11%	-1.08%	-0.87%	-0.64%	-0.64%	-0.58%
Fund by MCAP	Small Cap										
Fund by MCAP	Multi Cap	2	1.08%	1.35%	3.46%	3.61%	-3.64%	-3.42%	-3.13%	-2.63%	-1.43%
Fund by Investment Style	Value	2	1.26%	1.77%	3.51%	3.48%	3.40%	4.28%	2.89%	3.21%	3.19%
Fund by Investment Style	Growth	35	0.41%	-0.94%	-2.04%	-0.78%	-1.65%	-1.59%	-1.39%	-1.60%	-1.08%
Fund by Investment Style	GARP										
Fund by Investment Style	Yield	3	-0.89%	1.05%	5.00%	5.19%	-0.27%	0.59%	-0.50%	-0.99%	0.60%
Fund by Investment Style	Index	25	0.03%	-0.39%	-0.60%	0.18%	-0.89%	-0.80%	-0.57%	-0.54%	-0.52%
Fund by Manager Type	Active	40	0.39%	-0.89%	-1.57%	-0.63%	-1.50%	-1.43%	-1.34%	-1.47%	-0.92%
Fund by Manager Type	Passive	25	0.03%	-0.39%	-0.60%	0.18%	-0.89%	-0.80%	-0.57%	-0.54%	-0.52%
Fund by Portfolio Size (# stocks)	0 - 35	5	0.03%	-3.28%	-8.75%	-7.45%	-8.37%	-8.22%	-4.76%	-7.72%	-5.59%
Fund by Portfolio Size (# stocks)	36 - 75	10	0.39%	-1.10%	-0.51%	-0.30%	-1.70%	-1.05%	-1.30%	-1.77%	-0.53%
Fund by Portfolio Size (# stocks)	76 - 100	7	0.43%	-0.67%	-1.57%	-0.18%	0.18%	-0.76%	-0.57%	-1.03%	-1.08%
Fund by Portfolio Size (# stocks)	101 - 200	12	0.36%	-1.00%	-1.44%	-0.74%	-1.62%	-1.28%	-1.09%	-1.51%	-1.16%
Fund by Portfolio Size (# stocks)	201 - 400	6	0.62%	0.00%	0.34%	1.04%	-0.02%	-0.90%	-1.24%	-0.65%	-0.67%
Fund by Portfolio Size (# stocks)	401 - 700	4	-0.12%	-0.13%	-0.29%	0.42%	0.12%	-0.50%	0.23%	2.81%	2.02%
Fund by Portfolio Size (# stocks)	>700	21	0.06%	-0.44%	-0.67%	0.17%	-0.89%	-0.64%	-0.49%	-0.42%	-0.49%
Fund by Turnover	High										
Fund by Turnover	Medium	2	0.78%	0.52%	-0.13%	0.76%	-0.43%	1.18%	1.28%	1.35%	0.79%
Fund by Turnover	Low	8	0.50%	-1.01%	-1.42%	0.12%	-2.33%	-1.73%	-1.35%	-1.73%	-0.14%
Fund by Turnover	Very Low	54	0.13%	-0.51%	-0.72%	0.11%	-0.93%	-0.86%	-0.60%	-0.64%	-0.66%

Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return. Empty cell suggests no data is available for that period.



Table 47: Median relative returns matrix: USARelative returns of all fund groups in the USA for various periods

Group	Sub-Group	Fund Count	1m	3m	6m	YTD	12m	2-yr*	3-yr*	4-yr*	5-yr*
Fund by ASR	0-20%	294	0.00%	-0.07%	-0.21%	-0.18%	-0.29%	-0.31%	-0.29%	-0.32%	-0.25%
Fund by ASR	21-40%	99	0.02%	-0.35%	-0.71%	-0.87%	-1.24%	-0.65%	-0.70%	-0.97%	-0.52%
Fund by ASR	41-60%	176	0.17%	-0.12%	-0.50%	-0.35%	-1.83%	-0.80%	-0.78%	-1.53%	-1.53%
Fund by ASR	61-80%	189	-0.03%	-0.03%	-0.70%	0.07%	-2.67%	-2.34%	-1.75%	-1.69%	-1.21%
Fund by ASR	81-100%	222	-0.69%	-0.80%	-0.83%	-0.46%	-3.68%	-2.64%	-1.33%	-1.07%	-0.74%
Fund by FUM(\$)	0 - \$750 m	159	0.06%	-0.08%	-0.37%	-0.27%	-0.61%	-0.71%	-1.02%	-0.83%	-0.99%
Fund by FUM(\$)	\$750m - \$1bn	87	-0.03%	-0.15%	-0.47%	-0.41%	-0.86%	-0.50%	-0.44%	-0.42%	-0.36%
Fund by FUM(\$)	\$1.0bn- 1.5bn	123	-0.05%	-0.35%	-0.51%	-0.29%	-2.28%	-0.95%	-0.71%	-0.66%	-0.62%
Fund by FUM(\$)	\$1.5bn - \$2.0bn	104	0.02%	-0.07%	-0.42%	-0.36%	-1.92%	-0.95%	-1.06%	-1.04%	-0.98%
Fund by FUM(\$)	\$2.0bn - \$5.0bn	222	-0.01%	-0.12%	-0.32%	-0.25%	-0.80%	-0.57%	-0.47%	-0.65%	-0.49%
Fund by FUM(\$)	\$5.0bn - \$10.0bn	111	-0.02%	-0.13%	-0.31%	-0.16%	-0.56%	-0.74%	-0.60%	-0.54%	-0.45%
Fund by FUM(\$)	>\$10.0bn	173	-0.01%	-0.08%	-0.17%	-0.13%	-0.35%	-0.29%	-0.22%	-0.25%	-0.18%
Fund by MCAP	Large Cap	798	-0.01%	-0.12%	-0.37%	-0.24%	-0.84%	-0.66%	-0.57%	-0.84%	-0.57%
Fund by MCAP	Mid Cap	135	-0.01%	-0.08%	-0.18%	-0.10%	-0.50%	-0.39%	-0.20%	-0.06%	-0.14%
Fund by MCAP	Small Cap	6	0.85%	0.00%	-0.28%	-1.81%	-4.79%	-1.07%	-1.03%	1.48%	3.06%
Fund by MCAP	Multi Cap	40	0.00%	-0.49%	-1.70%	-1.36%	-0.65%	-0.78%	-0.82%	-0.32%	-0.30%
Fund by Investment Style	Value	145	-0.05%	-0.29%	-0.61%	-0.35%	-2.78%	-0.74%	0.15%	0.36%	0.69%
Fund by Investment Style	Growth	390	0.02%	-0.21%	-0.75%	-0.38%	-2.53%	-1.63%	-1.54%	-2.22%	-2.27%
Fund by Investment Style	GARP	13	-1.15%	-1.38%	-1.53%	-0.39%	-4.38%	-4.57%	-2.49%	-3.06%	-2.23%
Fund by Investment Style	Yield	57	-0.53%	-0.74%	-0.37%	0.18%	-1.63%	-2.40%	-1.84%	-1.01%	-1.40%
Fund by Investment Style	Index	375	0.00%	-0.08%	-0.24%	-0.20%	-0.32%	-0.33%	-0.32%	-0.33%	-0.24%
Fund by Manager Type	Active	605	-0.05%	-0.30%	-0.68%	-0.34%	-2.57%	-1.45%	-1.24%	-1.54%	-1.38%
Fund by Manager Type	Passive	375	0.00%	-0.08%	-0.24%	-0.20%	-0.32%	-0.33%	-0.32%	-0.33%	-0.24%
Fund by Portfolio Size (# stocks)	0-35	91	-0.09%	-0.13%	-0.63%	-0.25%	-1.56%	-1.12%	-1.53%	-1.24%	-0.99%
Fund by Portfolio Size (# stocks)	36 - 75	276	-0.03%	-0.18%	-0.67%	-0.28%	-2.36%	-1.52%	-1.16%	-2.25%	-1.78%
Fund by Portfolio Size (# stocks)	76 - 100	96	0.01%	-0.17%	-0.28%	-0.37%	-1.58%	-1.10%	-0.69%	-0.76%	-0.56%
Fund by Portfolio Size (# stocks)	101 - 200	193	0.00%	-0.26%	-0.46%	-0.27%	-1.68%	-0.68%	-0.58%	-0.36%	-0.27%
Fund by Portfolio Size (# stocks)	201 - 400	114	-0.01%	-0.05%	-0.20%	-0.18%	-0.54%	-0.35%	-0.38%	-0.24%	-0.19%
Fund by Portfolio Size (# stocks)	401 - 700	143	0.00%	-0.06%	-0.22%	-0.19%	-0.26%	-0.33%	-0.33%	-0.38%	-0.22%
Fund by Portfolio Size (# stocks)	>700	66	-0.01%	-0.07%	-0.16%	-0.14%	-0.32%	-0.21%	-0.20%	-0.15%	-0.19%
Fund by Turnover	High	10	0.45%	-0.33%	-0.48%	-0.66%	0.76%	0.71%	-0.18%	-0.26%	-0.14%
Fund by Turnover	Medium	65	-0.04%	-0.53%	-0.83%	-0.53%	-2.70%	-0.80%	-0.82%	-0.91%	-0.58%
Fund by Turnover	Low	161	0.03%	-0.13%	-0.61%	-0.21%	-1.45%	-0.54%	-0.46%	-0.74%	-0.52%
Fund by Turnover	Very Low	677	-0.01%	-0.11%	-0.29%	-0.20%	-0.62%	-0.59%	-0.50%	-0.54%	-0.46%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ ^* relative\ annualized\ return.\ Empty\ cell\ suggests\ no\ data\ is\ available\ for\ that\ period.$



Table 48: Median relative returns matrix: EUROPERelative returns of all fund groups in Europe for various periods

Group	Sub-Group	Fund Count	1m	3m	6m	YTD	12m	2-yr*	3-yr*	4-yr*	5-yr*
Fund by ASR	0-20%	122	-0.09%	-0.22%	-0.30%	-0.14%	-0.54%	-0.59%	-0.56%	-0.54%	-0.62%
Fund by ASR	21-40%	50	-0.02%	-0.47%	-0.96%	-0.81%	-0.86%	-0.51%	-0.79%	-0.84%	-1.06%
Fund by ASR	41-60%	65	0.09%	-0.65%	-1.60%	-0.76%	-2.65%	-1.63%	-1.39%	-1.59%	-1.43%
Fund by ASR	61-80%	111	0.33%	-0.19%	-2.56%	-1.85%	-2.57%	-3.46%	-1.95%	-2.61%	-2.31%
Fund by ASR	81-100%	50	0.47%	-0.31%	-3.38%	-3.19%	-6.53%	-5.69%	-4.14%	-4.68%	-4.24%
Fund by FUM(\$)	0 - \$750 m	125	0.02%	-0.38%	-1.17%	-1.03%	-1.88%	-2.52%	-1.89%	-1.95%	-1.47%
Fund by FUM(\$)	\$750m - \$1bn	66	0.09%	-0.20%	-1.09%	-0.56%	-1.09%	-1.00%	-1.16%	-1.51%	-1.22%
Fund by FUM(\$)	\$1.0bn- 1.5bn	65	-0.02%	-0.39%	-0.49%	-0.56%	-0.58%	-0.58%	-0.67%	-0.78%	-0.72%
Fund by FUM(\$)	\$1.5bn - \$2.0bn	50	0.13%	-0.37%	-0.61%	-0.76%	-0.62%	-0.90%	-0.74%	-0.77%	-1.05%
Fund by FUM(\$)	\$2.0bn - \$5.0bn	69	0.01%	-0.11%	-0.33%	-0.31%	-0.56%	-0.48%	-0.46%	-0.56%	-0.68%
Fund by FUM(\$)	\$5.0bn - \$10.0bn	22	-0.06%	-0.26%	-0.28%	-0.39%	-0.46%	-0.57%	-0.46%	-0.43%	-0.45%
Fund by FUM(\$)	>\$10.0bn	1	-0.87%	-0.92%	-1.01%	-1.04%	-1.08%	-1.11%	-1.06%	-0.91%	-1.02%
Fund by MCAP	Large Cap	324	0.02%	-0.27%	-0.64%	-0.70%	-1.07%	-1.08%	-1.06%	-1.05%	-1.06%
Fund by MCAP	Mid Cap	22	-0.06%	-0.65%	-0.85%	-0.67%	-1.28%	-1.55%	-1.58%	-3.59%	-1.02%
Fund by MCAP	Small Cap	2	0.44%	4.57%	3.15%	4.33%	-2.25%	-4.91%	-2.27%	-1.59%	-0.51%
Fund by MCAP	Multi Cap	50	0.17%	-0.12%	-0.58%	-0.51%	-0.44%	-0.45%	-0.43%	-0.66%	-0.78%
Fund by Investment Style	Value	11	3.13%	4.17%	3.31%	2.24%	0.93%	1.46%	-0.82%	1.12%	3.94%
Fund by Investment Style	Growth	204	0.22%	-0.88%	-2.58%	-2.32%	-3.65%	-3.84%	-2.39%	-3.00%	-2.71%
Fund by Investment Style	GARP	7	-0.01%	-0.04%	-1.61%	-0.71%	-1.75%	-0.98%	-0.97%	-1.38%	-1.09%
Fund by Investment Style	Yield	29	0.40%	1.51%	0.86%	0.54%	2.35%	2.23%	0.25%	0.44%	1.22%
Fund by Investment Style	Index	147	-0.10%	-0.21%	-0.29%	-0.08%	-0.54%	-0.58%	-0.58%	-0.59%	-0.63%
Fund by Manager Type	Active	251	0.26%	-0.40%	-2.03%	-1.64%	-2.74%	-2.73%	-1.99%	-2.52%	-2.11%
Fund by Manager Type	Passive	147	-0.10%	-0.21%	-0.29%	-0.08%	-0.54%	-0.58%	-0.58%	-0.59%	-0.63%
Fund by Portfolio Size (# stocks)	0-35	63	0.10%	-0.60%	-1.45%	-0.75%	-1.61%	-1.59%	-1.22%	-1.63%	-1.25%
Fund by Portfolio Size (# stocks)	36 - 75	201	0.11%	-0.30%	-1.20%	-1.29%	-1.49%	-2.02%	-1.66%	-1.92%	-1.31%
Fund by Portfolio Size (# stocks)	76 - 100	30	0.00%	-0.17%	-0.72%	-0.40%	-1.03%	-1.01%	-0.93%	-0.91%	-1.27%
Fund by Portfolio Size (# stocks)	101 - 200	35	-0.02%	-0.11%	-0.20%	-0.14%	-0.45%	-0.39%	-0.66%	-0.78%	-0.74%
Fund by Portfolio Size (# stocks)	201 - 400	43	0.04%	-0.16%	-0.31%	-0.45%	-0.40%	-0.42%	-0.50%	-0.66%	-0.70%
Fund by Portfolio Size (# stocks)	401 - 700	25	-0.10%	-0.26%	-0.34%	-0.30%	-0.41%	-0.57%	-0.51%	-0.51%	-0.53%
Fund by Portfolio Size (# stocks)	>700	1	-0.25%	-0.21%	-0.55%	0.59%	-0.37%	-0.47%	-0.43%	-0.52%	-0.32%
Fund by Turnover	High	8	0.07%	-0.43%	-2.99%	-2.69%	-5.44%	-4.21%	-3.83%	-2.53%	-2.39%
Fund by Turnover	Medium	16	0.28%	0.52%	-0.66%	-0.06%	-0.52%	-1.77%	-2.34%	-1.66%	-1.72%
Fund by Turnover	Low	44	-0.05%	-0.07%	-1.90%	-1.05%	-1.60%	-1.60%	-2.14%	-2.03%	-2.07%
Fund by Turnover	Very Low	290	0.05%	-0.28%	-0.62%	-0.59%	-1.01%	-1.01%	-0.89%	-0.82%	-0.87%

Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return. Empty cell suggests no data is available for that period.



Table 49: Median relative returns matrix: JapanRelative returns of all fund groups in Japan for various periods

Group	Sub-Group	Fund Count	1m	3m	6m	YTD	12m	2-yr*	3-yr*	4-yr*	5-yr*
Fund by ASR	0-20%	42	-0.09%	-0.25%	-0.16%	-0.03%	-0.50%	-0.34%	-0.37%	-0.32%	-0.40%
Fund by ASR	21-40%	4	-0.88%	-2.12%	-2.48%	-1.04%	-1.04%	-2.37%	-1.97%	-1.55%	-1.64%
Fund by ASR	41-60%	4	-0.17%	-2.03%	-1.89%	-1.13%	-2.15%	-3.27%	-4.25%	-3.58%	-1.41%
Fund by ASR	61-80%	22	1.25%	0.40%	-0.28%	0.28%	1.78%	2.17%	1.37%	-1.56%	-0.17%
Fund by ASR	81-100%	9	0.05%	-0.91%	-1.58%	0.95%	2.04%	-4.46%	-5.06%	-4.17%	-3.15%
Fund by FUM(\$)	0 - \$750 m	25	-0.04%	-0.86%	-0.95%	0.13%	-0.11%	-0.93%	-0.79%	-0.83%	-0.66%
Fund by FUM(\$)	\$750m - \$1bn	11	-0.04%	-0.19%	-0.18%	-0.61%	-1.51%	-1.63%	-1.59%	-0.73%	-0.15%
Fund by FUM(\$)	\$1.0bn- 1.5bn	10	0.27%	-0.28%	-0.46%	-0.71%	-0.69%	-1.58%	-0.56%	-2.09%	-1.37%
Fund by FUM(\$)	\$1.5bn - \$2.0bn	7	0.66%	0.19%	-0.05%	0.57%	-0.32%	-0.13%	-0.30%	-0.69%	-0.42%
Fund by FUM(\$)	\$2.0bn - \$5.0bn	20	0.01%	-0.60%	-0.21%	0.02%	-0.30%	-0.29%	-0.20%	-0.41%	-0.41%
Fund by FUM(\$)	\$5.0bn - \$10.0bn	3	-0.20%	-0.55%	-0.30%	-0.23%	-0.18%	-0.24%	-0.22%	-0.29%	-0.17%
Fund by FUM(\$)	>\$10.0bn	6	-0.09%	-0.06%	0.38%	-0.21%	-0.39%	-0.25%	-0.19%	-0.24%	-0.17%
Fund by MCAP	Large Cap	74	-0.01%	-0.42%	-0.29%	-0.04%	-0.50%	-0.49%	-0.42%	-0.60%	-0.44%
Fund by MCAP	Mid Cap	5	-0.44%	0.84%	-0.02%	-0.50%	2.51%	0.12%	-0.18%	-0.25%	-0.31%
Fund by MCAP	Small Cap										
Fund by MCAP	Multi Cap	3	3.04%	1.46%	5.35%	0.04%	2.04%	-0.44%	7.09%	6.49%	8.09%
Fund by Investment Style	Value	1	1.20%	7.07%	10.40%	6.13%	3.94%	20.56%	18.55%	14.33%	13.85%
Fund by Investment Style	Growth	2	1.95%	3.30%	2.92%	3.82%	2.92%	-4.63%	-5.41%	-4.82%	-3.19%
Fund by Investment Style	GARP	34	0.60%	-0.20%	-0.90%	-0.34%	1.53%	-1.10%	-0.32%	-1.84%	-0.48%
Fund by Investment Style	Yield										
Fund by Investment Style	Index	45	-0.12%	-0.35%	-0.17%	0.03%	-0.55%	-0.36%	-0.42%	-0.37%	-0.43%
Fund by Manager Type	Active	37	0.63%	-0.19%	-0.74%	-0.21%	1.73%	-1.73%	-0.32%	-1.84%	-0.48%
Fund by Manager Type	Passive	45	-0.12%	-0.35%	-0.17%	0.03%	-0.55%	-0.36%	-0.42%	-0.37%	-0.43%
Fund by Portfolio Size (# stocks)	0-35	6	0.74%	-2.60%	-5.78%	-3.14%	-1.58%	-6.83%	-4.92%	-5.88%	-6.20%
Fund by Portfolio Size (# stocks)	36 - 75	28	0.60%	0.05%	-0.35%	0.42%	0.61%	-0.35%	-0.18%	-1.34%	-0.40%
Fund by Portfolio Size (# stocks)	76 - 100	7	0.55%	0.63%	0.17%	-0.61%	2.04%	4.73%	5.43%	3.08%	5.26%
Fund by Portfolio Size (# stocks)	101 - 200	5	-0.25%	-0.86%	-1.60%	-0.21%	-0.87%	-1.92%	-1.84%	-0.73%	-0.53%
Fund by Portfolio Size (# stocks)	201 - 400	24	-0.08%	-0.59%	-0.22%	-0.09%	-0.64%	-0.31%	-0.36%	-0.30%	-0.39%
Fund by Portfolio Size (# stocks)	401 - 700	6	-0.01%	0.01%	-0.04%	0.22%	-0.10%	-0.34%	-0.40%	-0.45%	-0.40%
Fund by Portfolio Size (# stocks)	>700	6	-0.21%	-0.93%	0.04%	0.04%	-0.35%	-0.24%	-0.16%	-0.20%	-0.16%
Fund by Turnover	High	2	-0.01%	-0.12%	2.61%	3.39%	3.15%	-5.57%	-4.34%	-8.90%	-7.61%
Fund by Turnover	Medium	5	1.15%	0.59%	2.84%	-0.81%	1.32%	7.84%	8.01%	5.58%	6.89%
Fund by Turnover	Low	8	1.21%	-0.92%	-1.80%	-2.00%	-0.53%	1.95%	1.53%	-1.18%	-0.56%
Fund by Turnover	Very Low	60	-0.03%	-0.25%	-0.21%	0.00%	-0.50%	-0.46%	-0.42%	-0.60%	-0.45%

Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. * relative annualized return. Empty cell suggests no data is available for that period.



Table 50: Median relative returns matrix: Asia Pac ex-JapanRelative returns of all fund groups in Asia Pac ex-Japan for various periods

Group	Sub-Group	Fund Count	1m	3m	6m	YTD	12m	2-yr*	3-yr*	4-yr*	5-yr*
Fund by ASR	0-20%	64	0.06%	-0.10%	-0.30%	-0.20%	-1.04%	-0.66%	-0.46%	-0.56%	-0.47%
Fund by ASR	21-40%	8	0.16%	-0.31%	-0.17%	-0.72%	-1.18%	-0.85%	-0.48%	-0.72%	-0.59%
Fund by ASR	41-60%	32	-0.16%	-0.90%	-1.61%	-1.38%	-2.37%	-3.75%	-2.72%	-2.73%	-1.76%
Fund by ASR	61-80%	78	0.11%	-1.26%	-1.82%	-1.35%	-3.42%	-3.10%	-3.13%	-4.01%	-2.43%
Fund by ASR	81-100%	17	-0.72%	-0.40%	-2.53%	-3.04%	-2.38%	-6.94%	-2.34%	-0.60%	-0.08%
Fund by FUM(\$)	0 - \$750 m	64	0.02%	-1.08%	-1.51%	-0.74%	-2.19%	-2.06%	-1.73%	-2.09%	-1.20%
Fund by FUM(\$)	\$750m - \$1bn	21	-0.01%	-0.01%	-1.34%	-1.30%	-1.43%	-3.45%	-2.17%	-0.60%	-0.64%
Fund by FUM(\$)	\$1.0bn- 1.5bn	29	0.03%	-0.66%	-1.24%	-0.61%	-1.83%	-1.76%	-1.01%	-1.07%	-1.00%
Fund by FUM(\$)	\$1.5bn - \$2.0bn	16	0.05%	-0.31%	-0.86%	-0.66%	-1.29%	-2.42%	-2.74%	-3.91%	-1.93%
Fund by FUM(\$)	\$2.0bn - \$5.0bn	45	-0.04%	-0.78%	-0.87%	-0.77%	-1.60%	-0.98%	-0.98%	-1.34%	-1.02%
Fund by FUM(\$)	\$5.0bn - \$10.0bn	18	0.14%	-0.85%	-0.41%	0.03%	-0.60%	-1.50%	-0.62%	-0.35%	-0.93%
Fund by FUM(\$)	>\$10.0bn	7	0.18%	0.09%	0.12%	0.25%	-0.89%	-0.67%	-0.44%	-0.46%	-0.53%
Fund by MCAP	Large Cap	177	0.05%	-0.54%	-1.01%	-0.61%	-1.67%	-1.78%	-1.17%	-1.29%	-1.10%
Fund by MCAP	Mid Cap	11	-0.20%	-0.77%	-0.19%	-0.89%	0.03%	-0.36%	-0.12%	-1.21%	-0.79%
Fund by MCAP	Small Cap										
Fund by MCAP	Multi Cap	12	-0.26%	-1.72%	-2.65%	-1.38%	-3.00%	-2.31%	-1.65%	-2.26%	-1.45%
Fund by Investment Style	Value	6	-0.22%	0.35%	-1.59%	-1.77%	-6.93%	-4.05%	-1.54%	-1.90%	-0.99%
Fund by Investment Style	Growth	113	-0.05%	-1.26%	-1.91%	-1.46%	-3.19%	-3.81%	-2.99%	-3.38%	-2.11%
Fund by Investment Style	GARP	3	0.24%	-1.28%	-2.34%	0.69%	-7.97%	-3.77%	-0.02%	-1.07%	1.20%
Fund by Investment Style	Yield	3	-0.72%	-0.01%	-1.31%	-1.16%	-1.53%	-2.75%	-1.18%	-1.16%	0.27%
Fund by Investment Style	Index	75	0.06%	-0.10%	-0.27%	-0.20%	-0.99%	-0.48%	-0.46%	-0.57%	-0.39%
Fund by Manager Type	Active	125	-0.09%	-1.25%	-1.79%	-1.39%	-3.19%	-3.78%	-2.89%	-3.23%	-1.96%
Fund by Manager Type	Passive	75	0.06%	-0.10%	-0.27%	-0.20%	-0.99%	-0.48%	-0.46%	-0.57%	-0.39%
Fund by Portfolio Size (# stocks)	0 - 35	20	0.02%	-0.35%	-1.15%	-0.41%	-1.46%	-0.76%	-0.94%	-1.76%	-1.03%
Fund by Portfolio Size (# stocks)	36 - 75	109	0.04%	-0.94%	-1.23%	-1.16%	-2.27%	-3.26%	-2.50%	-2.55%	-1.59%
Fund by Portfolio Size (# stocks)	76 - 100	16	-0.19%	-0.43%	-2.44%	-1.38%	-5.09%	-4.07%	-3.36%	-4.28%	-3.24%
Fund by Portfolio Size (# stocks)	101 - 200	22	0.03%	-0.02%	-0.11%	-0.14%	-0.45%	-0.43%	-0.40%	-0.30%	-0.37%
Fund by Portfolio Size (# stocks)	201 - 400	17	0.14%	-0.01%	-0.11%	-0.01%	-0.51%	-0.40%	-0.28%	-0.38%	-0.36%
Fund by Portfolio Size (# stocks)	401 - 700	10	0.11%	-1.60%	-1.83%	-0.60%	-1.81%	-0.52%	-0.63%	-0.78%	-0.30%
Fund by Portfolio Size (# stocks)	>700	6	-0.48%	-1.00%	-1.36%	-0.53%	-1.72%	-1.19%	-0.86%	-1.04%	-0.91%
Fund by Turnover	High										
Fund by Turnover	Medium	9	-0.09%	-2.27%	-4.77%	-3.90%	-6.70%	-6.85%	-4.00%	-4.36%	-3.00%
Fund by Turnover	Low	34	-0.30%	-1.18%	-2.54%	-1.49%	-6.69%	-5.91%	-4.41%	-4.74%	-3.32%
Fund by Turnover	Very Low	145	0.06%	-0.54%	-0.69%	-0.48%	-1.32%	-1.19%	-0.90%	-0.85%	-0.90%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ ^* relative\ annualized\ return.\ Empty\ cell\ suggests\ no\ data\ is\ available\ for\ that\ period.$



Table 51: Median relative returns matrix: Emerging MarketsRelative returns of all fund groups in Emerging Markets for various periods

Group	Sub-Group	Fund Count	1m	3m	6m	YTD	12m	2-yr*	3-yr*	4-yr*	5-yr*
Fund by ASR	0-20%	38	-0.06%	-0.44%	-0.81%	-0.17%	-1.18%	-0.92%	-0.64%	-0.87%	-0.73%
Fund by ASR	21-40%	10	0.27%	-0.33%	-0.71%	0.43%	-1.55%	-0.83%	0.00%	-0.04%	-0.13%
Fund by ASR	41-60%	24	0.62%	0.10%	-1.20%	-0.18%	-2.06%	-0.55%	-0.24%	-0.58%	-0.32%
Fund by ASR	61-80%	76	0.90%	-0.03%	-0.42%	0.51%	-2.36%	-1.85%	-1.03%	-3.01%	-1.97%
Fund by ASR	81-100%	19	0.16%	0.56%	-1.15%	0.55%	-2.40%	-0.76%	-0.38%	-0.68%	-0.79%
Fund by FUM(\$)	0 - \$750 m	45	0.51%	-0.48%	-0.49%	0.40%	-1.47%	-1.32%	-0.90%	-1.50%	-1.57%
Fund by FUM(\$)	\$750m - \$1bn	17	0.75%	0.17%	-0.37%	0.27%	-1.41%	-1.26%	-0.63%	-1.24%	-1.19%
Fund by FUM(\$)	\$1.0bn- 1.5bn	29	0.50%	-0.21%	-0.89%	0.19%	-2.20%	-1.31%	-0.38%	-1.70%	-1.00%
Fund by FUM(\$)	\$1.5bn - \$2.0bn	17	0.79%	0.25%	-1.20%	-0.04%	-1.19%	-0.45%	-0.54%	-0.59%	0.47%
Fund by FUM(\$)	\$2.0bn - \$5.0bn	38	-0.01%	-0.24%	-1.11%	0.00%	-1.66%	-1.02%	-0.61%	-0.87%	-0.69%
Fund by FUM(\$)	\$5.0bn - \$10.0bn	16	0.15%	-0.25%	-1.04%	0.62%	-2.50%	-0.54%	-0.35%	-1.01%	-0.55%
Fund by FUM(\$)	>\$10.0bn	7	-0.09%	-0.61%	-1.43%	-0.29%	-1.35%	-1.06%	-0.78%	-0.97%	-0.81%
Fund by MCAP	Large Cap	158	0.48%	-0.21%	-0.88%	0.04%	-1.70%	-1.06%	-0.63%	-1.01%	-0.87%
Fund by MCAP	Mid Cap	3	-0.77%	-0.48%	-0.01%	0.63%	-1.47%	-3.05%	0.05%	-0.42%	-1.07%
Fund by MCAP	Small Cap	1	-0.25%	-0.13%	-2.56%	0.67%	-11.08%	-3.77%	-0.25%	-6.06%	-6.92%
Fund by MCAP	Multi Cap	7	0.44%	-0.08%	-0.98%	0.46%	-1.88%	-1.01%	-0.59%	-0.03%	0.14%
Fund by Investment Style	Value	22	1.02%	0.49%	-0.49%	0.60%	-2.52%	-0.13%	1.10%	1.21%	1.19%
Fund by Investment Style	Growth	88	0.62%	-0.03%	-1.23%	0.00%	-2.71%	-2.17%	-1.25%	-2.93%	-1.98%
Fund by Investment Style	GARP	4	1.90%	1.62%	2.52%	1.91%	3.04%	2.01%	3.45%	2.69%	2.37%
Fund by Investment Style	Yield	2	0.26%	2.37%	3.76%	5.01%	2.28%	5.13%	4.98%	5.75%	4.48%
Fund by Investment Style	Index	53	-0.04%	-0.44%	-0.89%	-0.03%	-0.98%	-0.79%	-0.63%	-0.80%	-0.68%
Fund by Manager Type	Active	116	0.69%	0.28%	-0.80%	0.32%	-2.40%	-1.50%	-0.69%	-1.93%	-1.43%
Fund by Manager Type	Passive	53	-0.04%	-0.44%	-0.89%	-0.03%	-0.98%	-0.79%	-0.63%	-0.80%	-0.68%
Fund by Portfolio Size (# stocks)	0 - 35	8	0.18%	-0.21%	0.60%	1.44%	-1.48%	-1.20%	-0.60%	-0.36%	-0.77%
Fund by Portfolio Size (# stocks)	36 - 75	54	1.04%	0.19%	-0.88%	0.58%	-2.97%	-2.40%	-0.88%	-2.45%	-1.49%
Fund by Portfolio Size (# stocks)	76 - 100	23	0.39%	-1.19%	-1.35%	-0.38%	-2.20%	-0.44%	-1.95%	-3.87%	-2.03%
Fund by Portfolio Size (# stocks)	101 - 200	21	0.40%	0.54%	-1.12%	0.49%	-1.73%	-1.79%	-0.39%	-1.45%	-1.20%
Fund by Portfolio Size (# stocks)	201 - 400	19	0.54%	-0.18%	-0.73%	0.23%	-1.62%	-0.18%	-0.03%	-0.20%	0.52%
Fund by Portfolio Size (# stocks)	401 - 700	8	-0.26%	-0.73%	-0.96%	-0.27%	-1.70%	-2.03%	-1.31%	-1.28%	-1.80%
Fund by Portfolio Size (# stocks)	>700	36	0.02%	-0.25%	-1.07%	-0.24%	-1.27%	-0.74%	-0.43%	-0.81%	-0.68%
Fund by Turnover	High	4	0.07%	-0.21%	-1.49%	0.29%	-0.94%	-0.51%	-0.39%	-0.91%	-0.83%
Fund by Turnover	Medium	9	-0.01%	-0.08%	-1.56%	0.11%	-4.01%	-0.31%	-0.39%	-0.86%	-0.50%
Fund by Turnover	Low	31	0.55%	0.41%	-1.04%	0.23%	-2.29%	-1.33%	-1.05%	-2.66%	-1.65%
Fund by Turnover	Very Low	119	0.46%	-0.22%	-0.54%	0.24%	-1.54%	-1.22%	-0.63%	-0.97%	-0.85%

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ ^* relative\ annualized\ return.\ Empty\ cell\ suggests\ no\ data\ is\ available\ for\ that\ period.$



Summary Table: Proportion of Funds Outperforming

Table 52: Proportion of Funds Outperforming their Benchmark

Hit rate of funds

	% of Funds Outperforming											
Group	Sub-Group	# Funds	FUM \$US billions	1m	3m	6m	YTD	12m	2-yr	3-yr	4-yr	5-yr
Fund by ASR	0-20%	670	8,659	45%	27%	16%	27%	16%	10%	10%	7%	8%
Fund by ASR	21-40%	202	1,015	53%	38%	23%	28%	26%	29%	30%	22%	25%
Fund by ASR	41-60%	344	2,223	56%	46%	31%	38%	29%	33%	33%	19%	23%
Fund by ASR	61-80%	609	2,571	60%	43%	37%	43%	28%	28%	27%	23%	28%
Fund by ASR	81-100%	524	1,636	47%	46%	37%	48%	25%	22%	25%	27%	31%
Fund by FUM(\$)	0 - \$750 m	446	222	53%	39%	30%	38%	26%	21%	20%	17%	19%
Fund by FUM(\$)	\$750m - \$1bn	254	219	49%	44%	25%	33%	25%	24%	22%	18%	25%
Fund by FUM(\$)	\$1.0bn- 1.5bn	356	437	51%	37%	30%	39%	24%	23%	25%	19%	22%
Fund by FUM(\$)	\$1.5bn - \$2.0bn	249	432	59%	45%	30%	34%	24%	24%	24%	20%	24%
Fund by FUM(\$)	\$2.0bn - \$5.0bn	559	1,773	52%	40%	30%	40%	24%	24%	25%	21%	23%
Fund by FUM(\$)	\$5.0bn - \$10.0bn	238	1,686	52%	39%	26%	40%	25%	19%	22%	19%	22%
Fund by FUM(\$)	>\$10.0bn	249	11,341	45%	31%	27%	36%	19%	18%	21%	15%	19%
Fund by MCAP	Large Cap	2020	14,823	52%	39%	28%	38%	23%	21%	21%	16%	20%
Fund by MCAP	Mid Cap	193	965	46%	37%	35%	39%	28%	27%	33%	39%	37%
Fund by MCAP	Small Cap	12	19	67%	50%	50%	42%	17%	33%	18%	50%	40%
Fund by MCAP	Multi Cap	127	304	54%	44%	30%	35%	29%	34%	31%	31%	31%
Fund by Investment Style	Value	220	837	54%	50%	45%	53%	25%	39%	48%	54%	59%
Fund by Investment Style	Growth	1091	5,305	57%	41%	31%	37%	24%	23%	23%	15%	18%
Fund by Investment Style	GARP	78	191	50%	44%	39%	49%	39%	36%	36%	26%	38%
Fund by Investment Style	Yield	125	425	35%	56%	50%	60%	34%	29%	26%	32%	37%
Fund by Investment Style	Index	839	9,353	47%	31%	18%	30%	21%	15%	14%	11%	14%
Fund by Manager Type	Active	1514	6,758	54%	44%	35%	42%	26%	26%	28%	23%	27%
Fund by Manager Type	Passive	839	9,353	47%	31%	18%	30%	21%	15%	14%	11%	14%
Fund by Portfolio Size (# stocks)	0-35	245	663	48%	41%	31%	42%	26%	24%	24%	17%	20%
Fund by Portfolio Size (# stocks)	36 - 75	859	2,571	54%	41%	31%	40%	24%	24%	24%	18%	22%
Fund by Portfolio Size (# stocks)	76 - 100	217	990	51%	37%	31%	37%	24%	23%	24%	21%	23%
Fund by Portfolio Size (# stocks)	101 - 200	326	2,452	52%	38%	28%	37%	22%	24%	23%	24%	26%
Fund by Portfolio Size (# stocks)	201 - 400	260	2,339	53%	39%	33%	40%	27%	22%	25%	23%	27%
Fund by Portfolio Size (# stocks)	401 - 700	227	4,280	47%	37%	25%	30%	30%	20%	20%	13%	19%
Fund by Portfolio Size (# stocks)	>700	217	2,816	50%	35%	16%	30%	17%	16%	15%	13%	14%
Fund by Turnover	High	32	106	63%	41%	31%	44%	38%	22%	13%	10%	17%
Fund by Turnover	Medium	133	485	53%	41%	25%	32%	26%	31%	28%	24%	28%
Fund by Turnover	Low	365	2,458	55%	46%	35%	43%	27%	29%	29%	23%	27%
Fund by Turnover	Very Low	1671	12,460	51%	38%	28%	37%	23%	21%	22%	18%	21%
Fund by Region	Global (DM+EM)	215	1,374	62%	50%	33%	45%	28%	23%	23%	15%	17%
Fund by Region	Global (DM)	242	945	52%	57%	31%	42%	25%	15%	16%	9%	14%
Fund by Region	EAFE	65	929	66%	23%	22%	57%	25%	22%	16%	19%	27%
Fund by Region	USA	980	10,708	47%	37%	29%	34%	23%	26%	26%	22%	26%
Fund by Region	Europe	398	670	51%	36%	25%	33%	25%	20%	17%	15%	17%
Fund by Region	Japan	82	362	49%	35%	39%	49%	30%	29%	27%	19%	24%
Fund by Region	APXJ	200	496	52%	30%	24%	30%	22%	18%	21%	20%	20%
Fund by Region	EM	169	609	60%	41%	32%	53%	22%	20%	32%	25%	29%
All Funds				52%	39%	29%	38%	24%	22%	23%	19%	22%
All I dilus				52%	2270	25%0	20%	24%	22%	23%	1 3%0	2270

 $Source: BofA \ Global \ Quantitative \ Strategy, Factset, \ Bloomberg, \ Benchmark \ Indices. \ 0\% \ means \ no funds \ outperformed \ their benchmark \ and \ empty \ cell \ suggests \ no \ data \ is \ available.$



Summary Table: Spread of returns

Table 53: Spread of returns (difference between 75th and 25th percentile)

Difference between the returns of the top and bottom quartile of funds by performance

			9	Spread of	f Returns	(differer	nce betw	een 75th	and 25th	percent	ile)	
Group	Sub-Group	# Funds	FUM \$US billions	1m	3m	6m	YTD	12m	2-yr	3-yr	4-yr	5-yr
Fund by ASR	0-20%	670	8,659	0.29%	0.37%	0.54%	0.51%	0.83%	0.62%	0.54%	0.54%	0.54%
Fund by ASR	21-40%	202	1,015	0.75%	1.59%	1.84%	1.81%	3.00%	1.97%	2.06%	1.95%	1.95%
Fund by ASR	41-60%	344	2,223	1.46%	2.13%	2.89%	2.81%	4.89%	4.20%	3.36%	3.27%	3.27%
Fund by ASR	61-80%	609	2,571	1.81%	3.05%	4.53%	4.36%	6.86%	5.71%	4.42%	3.88%	3.88%
Fund by ASR	81-100%	524	1,636	2.38%	3.85%	5.43%	5.60%	8.40%	7.43%	5.75%	5.49%	5.49%
Fund by FUM(\$)	0 - \$750 m	446	222	1.31%	2.41%	3.37%	2.90%	5.51%	4.83%	4.04%	3.59%	3.59%
Fund by FUM(\$)	\$750m - \$1bn	254	219	1.37%	2.13%	2.65%	2.19%	5.46%	4.26%	3.45%	2.96%	2.96%
Fund by FUM(\$)	\$1.0bn- 1.5bn	356	437	1.06%	2.18%	2.67%	2.99%	5.09%	4.96%	3.28%	3.03%	3.03%
Fund by FUM(\$)	\$1.5bn - \$2.0bn	249	432	1.20%	1.76%	2.02%	2.40%	4.62%	4.01%	2.86%	2.89%	2.89%
Fund by FUM(\$)	\$2.0bn - \$5.0bn	559	1,773	1.10%	1.89%	2.30%	2.10%	3.79%	3.33%	2.46%	2.73%	2.73%
Fund by FUM(\$)	\$5.0bn - \$10.0bn	238	1,686	0.93%	1.58%	1.64%	1.76%	3.57%	3.21%	2.26%	2.49%	2.49%
Fund by FUM(\$)	>\$10.0bn	249	11,341	0.59%	0.95%	1.21%	0.95%	2.26%	1.40%	1.05%	1.09%	1.09%
Fund by MCAP	Large Cap	2020	14,823	1.12%	1.90%	2.35%	2.30%	4.40%	3.87%	2.89%	2.87%	2.87%
Fund by MCAP	Mid Cap	193	965	1.09%	1.74%	1.94%	1.63%	3.14%	2.65%	1.65%	1.64%	1.64%
Fund by MCAP	Small Cap	12	19	1.65%	1.65%	2.12%	3.16%	7.86%	4.76%	1.66%	7.09%	7.09%
Fund by MCAP	Multi Cap	127	304	1.59%	2.40%	4.79%	3.71%	6.46%	5.97%	5.28%	3.22%	3.22%
Fund by Investment Style	Value	220	837	2.00%	2.50%	3.90%	3.81%	5.23%	5.04%	4.45%	3.86%	3.86%
Fund by Investment Style	Growth	1091	5,305	1.71%	2.93%	3.81%	3.91%	6.47%	6.02%	4.26%	3.65%	3.65%
Fund by Investment Style	GARP	78	191	2.03%	2.31%	3.82%	3.20%	7.20%	7.88%	6.83%	5.04%	5.04%
Fund by Investment Style	Yield	125	425	1.97%	2.81%	4.20%	4.16%	5.27%	5.26%	4.83%	3.46%	3.46%
Fund by Investment Style	Index	839	9,353	0.38%	0.55%	0.70%	0.66%	1.01%	0.75%	0.65%	0.61%	0.61%
Fund by Manager Type	Active	1514	6,758	1.84%	2.82%	3.87%	3.89%	6.22%	5.62%	4.46%	4.00%	4.00%
Fund by Manager Type	Passive	839	9,353	0.38%	0.55%	0.70%	0.66%	1.01%	0.75%	0.65%	0.61%	0.61%
Fund by Portfolio Size (# stocks)	0-35	245	663	1.57%	2.88%	4.08%	4.31%	6.76%	7.26%	4.66%	4.66%	4.66%
Fund by Portfolio Size (# stocks)	36 - 75	859	2,571	1.72%	2.75%	3.81%	3.99%	6.42%	5.84%	4.41%	3.63%	3.63%
Fund by Portfolio Size (# stocks)	76 - 100	217	990	1.56%	2.26%	2.90%	2.92%	5.23%	4.37%	3.18%	3.17%	3.17%
Fund by Portfolio Size (# stocks)	101 - 200	326	2,452	1.04%	1.73%	2.23%	2.31%	3.62%	2.94%	2.04%	2.15%	2.15%
Fund by Portfolio Size (# stocks)	201 - 400	260	2,339	0.74%	1.15%	1.42%	1.47%	2.13%	1.47%	1.26%	1.27%	1.27%
Fund by Portfolio Size (# stocks)	401 - 700	227	4,280	0.46%	0.75%	0.56%	0.68%	1.29%	0.92%	0.86%	0.64%	0.64%
Fund by Portfolio Size (# stocks)	>700	217	2,816	0.50%	0.85%	0.84%	0.70%	1.28%	0.77%	0.65%	0.58%	0.58%
Fund by Turnover	High	32	106	0.57%	1.18%	3.13%	2.41%	3.80%	3.75%	3.43%	2.29%	2.29%
Fund by Turnover	Medium	133	485	1.49%	2.52%	3.57%	3.77%	6.38%	4.63%	4.74%	3.17%	3.17%
Fund by Turnover	Low	365	2,458	1.46%	2.62%	3.81%	3.63%	6.00%	5.15%	3.98%	4.03%	4.03%
Fund by Turnover	Very Low	1671	12,460	1.07%	1.75%	2.04%	2.06%	3.91%	3.59%	2.69%	2.53%	2.53%
Fund by Region	Global (DM+EM)	215	1,374	1.46%	2.87%	3.90%	3.94%	6.63%	5.57%	3.79%	4.29%	4.29%
Fund by Region	Global (DM)	242	945	1.33%	1.95%	1.99%	2.85%	5.47%	4.65%	4.03%	3.21%	3.21%
Fund by Region	EAFE	65	929	0.63%	1.01%	2.13%	2.45%	1.89%	1.70%	1.35%	1.29%	1.29%
Fund by Region	USA	980	10,708	1.22%	1.64%	1.90%	1.98%	3.92%	3.17%	2.51%	2.37%	2.37%
Fund by Region	Europe	398	670	0.88%	1.94%	3.28%	3.17%	4.57%	4.21%	2.94%	2.94%	2.94%
Fund by Region	Japan	82	362	1.14%	1.89%	2.01%	1.72%	1.67%	1.98%	1.63%	1.30%	1.30%
Fund by Region	APXJ	200	496	1.15%	1.97%	2.74%	2.45%	5.75%	5.23%	3.79%	2.95%	2.95%
Fund by Region	EM	169	609	1.47%	1.69%	2.12%	2.24%	3.53%	2.26%	2.04%	2.69%	2.69%

Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices. Empty cell suggests no data is available for that period.



Methodology

In this report we analyse relative returns of large long-only equity funds which declare portfolio holdings on a regular basis (frequency differs by fund, but is typically monthly or quarterly), manage more than US\$500m in any one region, for which we have identified and have access to their benchmark, and which have a ready-made "fund price" available from various data sources (Factset, Bloomberg). The table below summarizes the total number of funds, their funds under management and number of unique benchmarks used in this analysis.

Table 54: Summary Stats for Fund Returns

Information on the funds used in this analysis

Numb	er of Funds	Total FUM (\$US millions)	Unique Benchmarks
	2353	16,770,152	514

Source: BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

BofA GLOBAL RESEARCH

Table 55: Average and Median Fund characteristics

Aggregate ASR, FUM, # stocks statistics

	Average	Median
ASR	49.17%	58.07%
FUM	6,853	1,713
# of stocks	303	82

Source : BofA Global Quantitative Strategy, Factset, Bloomberg, Benchmark Indices

BofA GLOBAL RESEARCH

We divide funds by type based on various characteristics, including Region, Investment Style, Active / Passive, Active Share Ratio (ASR), Funds Under Management (FUM), Market Cap of Stocks, Portfolio Size (# of stocks in the fund), and Turnover.

For each period of return we currently include in the report (1m, 3m, 6m, 12m, Year-to-date, 2yr, 3yr) we only include funds which were in our analysis and have price return for the entire period in question. We calculate relative returns of each fund for each period. Relative return is defined as the difference between a fund's return and the benchmark return. We calculate Median, Top Quartile, and Bottom Quartile relative returns across all funds for each group of fund in the analysis.

The data in this report is based on the most recent month-end data. The number of funds may change each month based on data availability and an annual refresh of the funds included in this analysis.

These "Benchmark Indices" are managed by MSCI, S&P, FTSE and Country Indices such as NSE, CNX among others.



Table 56: Definitions Fund Group definitions

#	Group	Definition
1	Region	Based on the region of the Benchmark. E.g. Funds benchmarked to MSCI All Country World Index are classified as Global (DM+EM), while Funds benchmarked to MSCI World are classified as Global (DM).
2	Investment Style	Determined by Factset.
3	Active/Passive	Determined by Factset.
4	Active Share Ratio (ASR)	We calculate the Active Share Ratio (ASR) as the sum of the absolute value of the differences of the weight of each holding in the manager's portfolio versus the weight of each holding in the benchmark index and then dividing by two.
5	Funds Under Management (FUN We calculate FUM as the total value of a fund's holding as of the latest month-end in USD.
6	Market Cap of Stocks	Determined by Factset.
7	Portfolio Size (# stocks)	We count the number of stocks within each fund.
8	Turnover	Determined by Factset.

 $Source: BofA\ Global\ Quantitative\ Strategy,\ Factset,\ Bloomberg,\ Benchmark\ Indices.\ The\ group\ definitions\ may\ vary\ from\ the\ fund's\ own\ definition/description.$



Global Quant Publications

Monthly reports schedule

Day 1: Contenders & Defenders

A popular visual stock selection model. For each stock, this report graphically shows how consensus earnings expectations have changed over the long term versus the market, and whether recent earnings revisions appear to have been reflected in relative share price performance. Popular ways of using this analysis include 1) reviewing the Contenders (buys) and Defenders (Sells) lists, 2) perusing individual stock charts, 3) monitoring region, country and sector themes using the "quadrant charts", and 4) reviewing stock rankings. Regional versions are published monthly in these linked reports for Global Contenders & Defenders and Asia Pac ex-Japan Contenders & Defenders.

Day 1: Global Performance Monitor

The above linked monthly report analysing the performance of global regions, countries, sectors and identifying the major stock contributors to global equity market performance.

Day 2/3: Quantessential Style

Style rotation. Different investment styles outperform at various stages of the cycle. This investment style analysis relates performance of seven Quantessential Styles (Value, Growth, Quality, Risk, Momentum, Dividend and Size) to trends in global macro data. Popular uses include 1) when to buy "Deep Value", "Growthiest of Growth", and other styles, 2) identifying stocks with various style characteristics, 3) monitoring style performance, and 4) explaining out/under-performance due to style tilts. Regional versions are published in these linked monthly reports for Global Quantessential Style and Asia Pac ex-Japan Quantessential Style.

Week 1: Global Fund Performance Monitor

The above linked monthly report analysing the relative returns of large long-only equity funds in order to help fund managers understand how returns have been affected by fund characteristics. Funds are grouped by Region, Investment Style, Active/Passive, Active Share Ratio, Funds Under Management, Stock Size, Number of Stocks, and Portfolio Turnover.

Week 1: Triple Momentum Allocator

The above linked monthly report highlights the benefits of combining three types of momentum, namely Earnings Momentum, Price Momentum, and News Momentum. Popular uses include 1) Using Triple Momentum for Global Sector Allocation and Region-Sector Allocation, 2) changes in Triple Momentum highlight which signals are fading and when new opportunities are emerging, and 3) trend in Triple Momentum shows which sectors and region-sectors have been in vogue at any point in time in the past.

Week 2: Global Wave

The Global Wave (report link above) quantifies turning points and multi-year trends in global economic activity. The direction of the global cycle influences equity market performance, regional allocation, country allocation, style allocation, and stock selection. The Bunkers are stocks for a downturn and the Boosters are stocks for an upturn.

Week 2: Positioning in Stocks

Quantifies how large investors are positioned in terms of stocks, regions, countries and sectors. Popular uses include 1) identifying extreme positioning for contrarian trade ideas, and 2) identifying developing trends in investor positioning. Regional versions are published in these linked monthly reports for <u>Global Positioning in Stocks</u> and <u>Pacific Positioning</u>.



Disclosures

Important Disclosures

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R1}

Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. Coverage Cluster is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

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