

| ETF asset classes by YTD net asset flows |        |                         |                |                 |                   |                |            |            |            |            |             |              |             | Total       |              |              |                      |                  |  |  |  |  |  |  |  |
|--|--------|-------------------------|----------------|-----------------|-------------------|----------------|------------|------------|------------|------------|-------------|--------------|-------------|-------------|--------------|--------------|----------------------|------------------|--|--|--|--|--|--|--|
| Asset Class                              | # ETPs | # Currently Active ETPs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)   | MTD (\$)   | QTD (\$)   | YTD (\$)   | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$)  | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |  |  |  |  |  |  |  |
| Equity                                   | 2011   | 1464                    | \$ 2,766       | \$ 19,835       | \$ 25,084         | \$ 334,285     | \$ (0.775) | \$ 1,991   | \$ 37,944  | \$ 108,581 | \$ (0.775)  | \$ 16,306    | \$ 230,597  | \$ 701,519  | \$ 1,045,485 | \$ 1,532,553 | \$ 2,005,875         | \$ 2,920,845     |  |  |  |  |  |  |  |
| Fixed Income                             | 459    | 355                     | \$ 3,485       | \$ 6,443        | \$ 30,588         | \$ 121,166     | \$ 2,354   | \$ 5,839   | \$ 20,942  | \$ 66,923  | \$ 2,354    | \$ 9,919     | \$ 95,156   | \$ 283,685  | \$ 373,907   | \$ 567,254   | \$ 616,901           | \$ 602,841       |  |  |  |  |  |  |  |
| Volatility                               | 38     | 18                      | \$ (0.051)     | \$ 0.393        | \$ 0.385          | \$ 2,223       | \$ (0.013) | \$ (0.064) | \$ 0.825   | \$ 2,638   | \$ (0.013)  | \$ 0.062     | \$ 1.467    | \$ 7,934    | \$ 11,111    | \$ 21,696    | \$ 21,696            | \$ 2,826         |  |  |  |  |  |  |  |
| Multi-Asset                              | 163    | 96                      | \$ 0.037       | \$ 0.246        | \$ 0.953          | \$ 2,691       | \$ 0.079   | \$ 0.116   | \$ 0.619   | \$ 1,979   | \$ 0.079    | \$ 0.202     | \$ 2,975    | \$ 6,738    | \$ 10,561    | \$ 14,186    | \$ 14,462            | \$ 15,067        |  |  |  |  |  |  |  |
| Hybrid                                   | 20     | 18                      | \$ (0.174)     | \$ 0.256        | \$ 0.302          | \$ 5,631       | \$ (0.069) | \$ (0.243) | \$ 1,129   | \$ 0,797   | \$ (0.069)  | \$ (0.083)   | \$ 1,416    | \$ 14,903   | \$ 21,188    | \$ 35,051    | \$ 36,006            | \$ 36,408        |  |  |  |  |  |  |  |
| Real Estate                              | 59     | 47                      | \$ 0.107       | \$ 0.530        | \$ (0.043)        | \$ 4,869       | \$ 0.330   | \$ 0.437   | \$ 2,448   | \$ 0,029   | \$ 0.330    | \$ 0.466     | \$ 0.976    | \$ 14,466   | \$ 25,343    | \$ 47,873    | \$ 59,758            | \$ 68,860        |  |  |  |  |  |  |  |
| Currency                                 | 55     | 38                      | \$ (0.005)     | \$ (0.018)      | \$ (0.133)        | \$ (0.795)     | \$ (0.019) | \$ (0.024) | \$ (0.110) | \$ (0.272) | \$ (0.019)  | \$ (0.015)   | \$ (0.564)  | \$ (1.705)  | \$ (2.397)   | \$ (3.614)   | \$ 1,488             | \$ 2,085         |  |  |  |  |  |  |  |
| Commodity                                | 214    | 126                     | \$ (0.398)     | \$ (2.465)      | \$ (1.279)        | \$ 3,035       | \$ (0.055) | \$ (0.453) | \$ (4.127) | \$ (3,946) | \$ (0.055)  | \$ (1.803)   | \$ (2.953)  | \$ 11,504   | \$ 34,654    | \$ 70,777    | \$ 97,607            | \$ 61,680        |  |  |  |  |  |  |  |

| Investment Philosophy by YTD net asset flows |        |                         |                |                 |                   |                |          |          |           |            |             |              |             | Total       |              |              |                      |                  |  |  |  |  |  |  |  |
|--|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|----------|-----------|------------|-------------|--------------|-------------|-------------|--------------|--------------|----------------------|------------------|--|--|--|--|--|--|--|
| Investment Philosophy                        | # ETPs | # Currently Active ETPs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$)  | YTD (\$)   | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$)  | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |  |  |  |  |  |  |  |
| Passively Managed                            | 1663   | 1135                    | \$ 3,186       | \$ 19,021       | \$ 32,034         | \$ 391,929     | \$ 0.025 | \$ 3,211 | \$ 40,532 | \$ 117,846 | \$ 0.025    | \$ 16,332    | \$ 238,484  | \$ 823,470  | \$ 1,180,458 | \$ 1,795,009 | \$ 2,272,903         | \$ 2,871,645     |  |  |  |  |  |  |  |
| Enhanced Strategy                            | 1052   | 793                     | \$ 1,877       | \$ 4,020        | \$ 16,929         | \$ 66,223      | \$ 1,260 | \$ 3,138 | \$ 13,193 | \$ 40,213  | \$ 1,260    | \$ 6,018     | \$ 66,386   | \$ 175,831  | \$ 291,849   | \$ 428,625   | \$ 518,181           | \$ 775,125       |  |  |  |  |  |  |  |
| Actively managed                             | 300    | 234                     | \$ 0.704       | \$ 2.179        | \$ 6.893          | \$ 14,954      | \$ 0.546 | \$ 1,250 | \$ 5,944  | \$ 18,669  | \$ 0.546    | \$ 2,704     | \$ 24,200   | \$ 39,742   | \$ 47,544    | \$ 62,141    | \$ 62,640            | \$ 63,842        |  |  |  |  |  |  |  |

| Enhanced Strategy by YTD net asset flows |        |                         |                |                 |                   |                |            |            |            |            |             |              |             | Total       |             |              |                      |                  |  |  |  |  |  |  |  |
|--|--------|-------------------------|----------------|-----------------|-------------------|----------------|------------|------------|------------|------------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|--|--|--|--|--|--|--|
| Enhanced ETF Type                        | # ETPs | # Currently Active ETPs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)   | MTD (\$)   | QTD (\$)   | YTD (\$)   | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |  |  |  |  |  |  |  |
| Growth                                   | 66     | 46                      | \$ 0.662       | \$ 0.635        | \$ 6.511          | \$ 10,885      | \$ (0.079) | \$ 0.583   | \$ 2,182   | \$ 10,651  | \$ (0.079)  | \$ 0.831     | \$ 13,289   | \$ 30,983   | \$ 49,947   | \$ 61,944    | \$ 99,494            | \$ 205,609       |  |  |  |  |  |  |  |
| Value                                    | 65     | 51                      | \$ 0.664       | \$ 2,402        | \$ 3,963          | \$ 18,724      | \$ 0.216   | \$ 0.880   | \$ 6,387   | \$ 8,411   | \$ 0.216    | \$ 2,128     | \$ 17,564   | \$ 58,479   | \$ 77,229   | \$ 99,694    | \$ 125,997           | \$ 193,129       |  |  |  |  |  |  |  |
| Multi-Factor                             | 140    | 125                     | \$ 0.115       | \$ 0.806        | \$ 2,409          | \$ 7,136       | \$ 0.207   | \$ 0.322   | \$ 1,761   | \$ 7,228   | \$ 0.207    | \$ 0.776     | \$ 9,594    | \$ 21,282   | \$ 21,663   | \$ 21,700    | \$ 21,826            | \$ 24,552        |  |  |  |  |  |  |  |
| Fundamentals                             | 141    | 123                     | \$ 0.389       | \$ 0.564        | \$ 2,464          | \$ 6,482       | \$ 0.185   | \$ 0.574   | \$ 1,802   | \$ 7,079   | \$ 0.185    | \$ 0.911     | \$ 9,573    | \$ 13,780   | \$ 34,445   | \$ 45,562    | \$ 49,421            | \$ 67,237        |  |  |  |  |  |  |  |
| Technical / Momentum                     | 60     | 46                      | \$ 0.117       | \$ 0.723        | \$ 1,484          | \$ 3,329       | \$ (0.179) | \$ (0.062) | \$ 0.270   | \$ 4,611   | \$ (0.179)  | \$ 0.476     | \$ 6,773    | \$ 7,849    | \$ 14,652   | \$ 16,558    | \$ 17,637            | \$ 22,282        |  |  |  |  |  |  |  |
| Risk / Volatility                        | 107    | 81                      | \$ 0.026       | \$ 0.304        | \$ 0.986          | \$ 5,660       | \$ 0.734   | \$ 0.760   | \$ 1,791   | \$ 2,799   | \$ 0.734    | \$ 1,166     | \$ 4,986    | \$ 24,869   | \$ 33,216   | \$ 44,888    | \$ 44,969            | \$ 57,537        |  |  |  |  |  |  |  |
| Thematic                                 | 25     | 19                      | \$ 0.021       | \$ (0.036)      | \$ 0.140          | \$ 1,941       | \$ (0.013) | \$ 0.009   | \$ (0.084) | \$ 1,806   | \$ (0.013)  | \$ (0.032)   | \$ 2,986    | \$ 3,855    | \$ 4,580    | \$ 4,586     | \$ 4,586             | \$ 5,106         |  |  |  |  |  |  |  |
| Long-Short / Market Neutral              | 22     | 14                      | \$ 0.025       | \$ 0.023        | \$ 0.151          | \$ 0.172       | \$ 0.013   | \$ 0.038   | \$ 0.092   | \$ 0,419   | \$ 0.013    | \$ 0.034     | \$ 0.529    | \$ 0.662    | \$ 0.990    | \$ 1,468     | \$ 1,473             | \$ 1,742         |  |  |  |  |  |  |  |
| Other                                    | 121    | 59                      | \$ (0.017)     | \$ (0.086)      | \$ 0.372          | \$ 1,655       | \$ 0.006   | \$ (0.011) | \$ (0.380) | \$ 0,367   | \$ 0.006    | \$ (0.049)   | \$ 1,065    | \$ 2,623    | \$ 5,116    | \$ 5,279     | \$ 9,303             | \$ 7,448         |  |  |  |  |  |  |  |
| Hedging                                  | 13     | 10                      | \$ -           | \$ (0.015)      | \$ 0.017          | \$ 0.285       | \$ 0.008   | \$ 0.008   | \$ 0.061   | \$ 0,296   | \$ 0.008    | \$ (0.032)   | \$ 0.295    | \$ 0.577    | \$ 0.874    | \$ 1,108     | \$ 1,187             | \$ 1,031         |  |  |  |  |  |  |  |
| Mergers & Acquisitions                   | 4      | 2                       | \$ 0.001       | \$ 0.011        | \$ 0.060          | \$ 0.215       | \$ (0.001) | \$ (0.001) | \$ 0.028   | \$ 0,239   | \$ (0.001)  | \$ 0.003     | \$ 0.334    | \$ 0.432    | \$ 0.477    | \$ 0.592     | \$ 0.592             | \$ 0.622         |  |  |  |  |  |  |  |
| Hedge Funds                              | 16     | 9                       | \$ -           | \$ 0.008        | \$ 0.083          | \$ (0.087)     | \$ 0.028   | \$ 0.028   | \$ 0.023   | \$ 0,072   | \$ 0.028    | \$ 0.029     | \$ 0.148    | \$ (0.131)  | \$ 0.646    | \$ 1,371     | \$ 1,371             | \$ 1,494         |  |  |  |  |  |  |  |
| Contango / Backwardation                 | 71     | 35                      | \$ (0.062)     | \$ (0.359)      | \$ 0.114          | \$ (0.949)     | \$ (0.017) | \$ (0.079) | \$ (0.782) | \$ 0,028   | \$ (0.017)  | \$ (0.360)   | \$ (0.107)  | \$ (0.592)  | \$ (2,941)  | \$ 3,496     | \$ 7,558             | \$ 4,999         |  |  |  |  |  |  |  |
| Insider Trading                          | 2      | 2                       | \$ -           | \$ (0.002)      | \$ (0.003)        | \$ (0.006)     | \$ 0.000   | \$ 0.000   | \$ 0.002   | \$ (0.010) | \$ 0.000    | \$ 0.000     | \$ (0.009)  | \$ (0.001)  | \$ 0.080    | \$ 0.160     | \$ 0.188             | \$ 0.311         |  |  |  |  |  |  |  |
| Foreign Exchange                         | 2      | 1                       | \$ -           | \$ -            | \$ (0.006)        | \$ (0.011)     | \$ -       | \$ -       | \$ -       | \$ (0.015) | \$ -        | \$ -         | \$ (0.021)  | \$ (0.069)  | \$ (0.192)  | \$ (0.480)   | \$ 0.104             | \$ 0.024         |  |  |  |  |  |  |  |
| Quality                                  | 31     | 26                      | \$ (0.019)     | \$ 0.004        | \$ (0.251)        | \$ 1,005       | \$ 0.008   | \$ (0.011) | \$ 0.021   | \$ (0.025) | \$ 0.008    | \$ (0.017)   | \$ 0.164    | \$ 2,004    | \$ 3,324    | \$ 4,622     | \$ 4,622             | \$ 5,244         |  |  |  |  |  |  |  |
| Dividend / Income                        | 165    | 144                     | \$ (0.045)     | \$ (0.962)      | \$ (1.564)        | \$ 9,786       | \$ 0.144   | \$ 0.099   | \$ 0.019   | \$ (3,743) | \$ 0.144    | \$ 0.154     | \$ (0.777)  | \$ 9,231    | \$ 47,748   | \$ 116,077   | \$ 127,854           | \$ 176,757       |  |  |  |  |  |  |  |

**Equity ETFs**

**Top 5 Equity ETFs from Top Fund Sponsor by 1M Inflows**

| Description                         | ETF | Type | Fund Sponsor | Last week (\$b) | Last month (\$b) | Last quarter (\$b) | Last year (\$b) | WTD (\$b) | MTD (\$b) | QTD (\$b) | YTD (\$b) | 1 week (\$b) | 1 month (\$b) | 1 year (\$b) | 3 year (\$b) | 5 year (\$b) | 10 year (\$b) | Since Inception (\$b) | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |       |
|-------------------------------------|-----|------|--------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|-----------------------------|-------|
| Vanguard S&P 500 ETF                | VOO | ETF  | Vanguard     | \$ 3.67         | \$ 1.93          | \$ 1.83            | \$ 14.79        | \$ 0.36   | \$ 4.04   | \$ 6.61   | \$ 12.40  | \$ 0.36      | \$ 5.25       | \$ 18.22     | \$ 43.07     | \$ 64.61     | \$ 73.95      | \$ 73.95              | \$ 104.15         | 62.62%                      |       |
| Vanguard Value ETF                  | VTV | ETF  | Vanguard     | \$ 0.15         | \$ 0.85          | \$ 2.79            | \$ 5.10         | \$ 0.03   | \$ 4.17   | \$ 5.56   | \$ 5.61   | \$ 0.03      | \$ 0.74       | \$ 6.54      | \$ 16.64     | \$ 21.49     | \$ 28.15      | \$ 30.64              | \$ 44.27          | \$ 30.64                    | 8.77% |
| Vanguard Total Stock Market ETF     | VTI | ETF  | Vanguard     | \$ 0.18         | \$ 0.43          | \$ 1.72            | \$ 8.31         | \$ 0.28   | \$ 0.46   | \$ 2.00   | \$ 5.29   | \$ 0.28      | \$ 0.50       | \$ 8.19      | \$ 21.89     | \$ 36.28     | \$ 50.45      | \$ 60.06              | \$ 106.34         | \$ 5.93%                    |       |
| Vanguard Healthcare ETF             | VHT | ETF  | Vanguard     | \$ (0.00)       | \$ 0.43          | \$ (0.02)          | \$ 0.50         | \$ 0.08   | \$ 0.55   | \$ 0.46   | \$ 0.08   | \$ 0.41      | \$ 0.49       | \$ 0.91      | \$ 3.68      | \$ 4.51      | \$ 5.11       | \$ 5.11               | \$ 8.73           | \$ 4.94%                    |       |
| Vanguard Extended Market Vipers ETF | VXF | ETF  | Vanguard     | \$ 0.04         | \$ 0.06          | \$ 0.26            | \$ 0.54         | \$ 0.25   | \$ 0.29   | \$ 0.33   | \$ 0.73   | \$ 0.25      | \$ 0.32       | \$ 0.71      | \$ 1.09      | \$ 2.37      | \$ 3.29       | \$ 3.91               | \$ 3.91           | \$ 7.15                     | 3.76% |

**Top 5 Equity ETF Fund Sponsors by 1M Inflows**

| Fund Sponsor                          | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$b) | Last month (\$b) | Last quarter (\$b) | Last year (\$b) | WTD (\$b) | MTD (\$b) | QTD (\$b) | YTD (\$b) | 1 week (\$b) | 1 month (\$b) | 1 year (\$b) | 3 year (\$b) | 5 year (\$b) | 10 year (\$b) | Since Inception (\$b) | Current AUM (\$b) |
|---------------------------------------|-------------|--------|-------------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|
| Vanguard                              | Equity      | 58     |                         | \$ 3.97         | \$ 4.16          | \$ 13.79           | \$ 96.31        | \$ 1.90   | \$ 5.87   | \$ 14.62  | \$ 46.07  | \$ 1.90      | \$ 8.39       | \$ 71.09     | \$ 225.75    | \$ 330.17    | \$ 480.66     | \$ 525.45             | \$ 742.47         |
| BlackRock, Inc.                       | Equity      | 285    |                         | \$ 2.35         | \$ 12.04         | \$ 2.48            | \$ 146.61       | \$ (0.10) | \$ 0.64   | \$ 9.99   | \$ 33.78  | \$ (0.10)    | \$ 7.82       | \$ 79.26     | \$ 284.25    | \$ 391.02    | \$ 520.05     | \$ 731.03             | \$ 1,099.20       |
| J.P.Morgan Investment Management Inc. | Equity      | 20     |                         | \$ 0.02         | \$ 3.17          | \$ 0.23            | \$ 1.06         | \$ 0.08   | \$ 0.11   | \$ 5.37   | \$ 6.12   | \$ 0.08      | \$ 3.14       | \$ 6.56      | \$ 8.04      | \$ 8.23      | \$ 8.23       | \$ 8.23               | \$ 8.46           |
| Charles Schwab Investment Management  | Equity      | 17     |                         | \$ 0.29         | \$ 1.74          | \$ 4.48            | \$ 22.36        | \$ 0.14   | \$ 0.43   | \$ 4.55   | \$ 15.01  | \$ 0.14      | \$ 1.48       | \$ 20.94     | \$ 54.11     | \$ 70.73     | \$ 80.70      | \$ 80.70              | \$ 102.99         |
| First Trust Advisors LP               | Equity      | 110    |                         | \$ (0.03)       | \$ 0.78          | \$ 2.46            | \$ 4.93         | \$ 0.24   | \$ 0.21   | \$ 2.40   | \$ 7.93   | \$ 0.24      | \$ 0.59       | \$ 10.05     | \$ 9.08      | \$ 30.94     | \$ 41.24      | \$ 42.45              | \$ 58.96          |

**Top 5 Equity ETF Fund Sponsors by 1M outflows**

| Fund Sponsor                            | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$b) | Last month (\$b) | Last quarter (\$b) | Last year (\$b) | WTD (\$b) | MTD (\$b) | QTD (\$b) | YTD (\$b)  | 1 week (\$b) | 1 month (\$b) | 1 year (\$b) | 3 year (\$b) | 5 year (\$b) | 10 year (\$b) | Since Inception (\$b) | Current AUM (\$b) |
|---|-------------|--------|-------------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|------------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|
| SSGA Funds Management, Inc              | Equity      | 130    |                         | \$ (2.54)       | \$ (6.25)        | \$ (2.99)          | \$ 33.16        | \$ (1.93) | \$ (4.56) | \$ (1.78) | \$ (17.67) | \$ (1.91)    | \$ (6.05)     | \$ 10.61     | \$ 66.88     | \$ 81.45     | \$ 175.63     | \$ 292.77             | \$ 519.20         |
| WisdomTree Investments                  | Equity      | 84     |                         | \$ 0.05         | \$ (0.62)        | \$ (1.55)          | \$ (0.07)       | \$ (0.22) | \$ (0.17) | \$ (1.41) | \$ (5.24)  | \$ (0.22)    | \$ (0.57)     | \$ (5.06)    | \$ (21.18)   | \$ 8.59      | \$ 30.61      | \$ 35.38              | \$ 38.83          |
| Mirae Asset Global Investments Co., Ltd | Equity      | 78     |                         | \$ (0.05)       | \$ (0.25)        | \$ 0.42            | \$ 4.31         | \$ (0.01) | \$ (0.06) | \$ (0.34) | \$ 1.90    | \$ (0.01)    | \$ (0.22)     | \$ 3.98      | \$ 6.83      | \$ 8.63      | \$ 11.38      | \$ 11.38              | \$ 9.56           |
| ALPS Advisors, Inc.                     | Equity      | 22     |                         | \$ 0.02         | \$ (0.10)        | \$ 0.85            | \$ 2.61         | \$ 0.02   | \$ 0.04   | \$ (0.63) | \$ (0.18)  | \$ 0.02      | \$ (0.14)     | \$ 0.65      | \$ 5.86      | \$ 9.66      | \$ 16.77      | \$ 16.77              | \$ 13.76          |
| Principal Management Corporation        | Equity      | 10     |                         | \$ -            | \$ 0.00          | \$ (0.05)          | \$ 1.47         | \$ (0.10) | \$ (0.10) | \$ (0.11) | \$ 0.89    | \$ (0.10)    | \$ (0.10)     | \$ 1.92      | \$ 2.61      | \$ 2.61      | \$ 2.61       | \$ 2.61               | \$ 2.92           |

**Top 5 Equity ETFs by 1M inflows**

| Description                       | ETF  | Type | Fund Sponsor                          | Last week (\$b) | Last month (\$b) | Last quarter (\$b) | Last year (\$b) | WTD (\$b) | MTD (\$b) | QTD (\$b) | YTD (\$b) | 1 week (\$b) | 1 month (\$b) | 1 year (\$b) | 3 year (\$b) | 5 year (\$b) | 10 year (\$b) | Since Inception (\$b) | Current AUM (\$b) |
|-----------------------------------|------|------|---------------------------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|
| Vanguard S&P 500 ETF              | VOO  | ETF  | Vanguard                              | \$ 3.67         | \$ 1.93          | \$ 1.83            | \$ 14.79        | \$ 0.36   | \$ 4.04   | \$ 6.61   | \$ 12.40  | \$ 0.36      | \$ 5.25       | \$ 18.22     | \$ 43.07     | \$ 64.61     | \$ 73.95      | \$ 73.95              | \$ 104.15         |
| iShares Core S&P 500 ETF          | IVV  | ETF  | BlackRock, Inc.                       | \$ (0.00)       | \$ 6.60          | \$ 3.76            | \$ 30.14        | \$ 0.26   | \$ 0.26   | \$ 5.54   | \$ 10.10  | \$ 0.26      | \$ 4.95       | \$ 16.20     | \$ 56.13     | \$ 68.43     | \$ 83.68      | \$ 99.87              | \$ 164.82         |
| JPMorgan BetaBuilders Canada ETF  | BBCA | ETF  | J.P.Morgan Investment Management Inc. | \$ 0.00         | \$ 1.48          | \$ NULL            | \$ NULL         | \$ 0.01   | \$ 0.01   | \$ 1.49   | \$ 1.49   | \$ 0.01      | \$ 1.48       | \$ 1.49      | \$ 1.49      | \$ 1.49      | \$ 1.49       | \$ 1.49               | \$ 1.49           |
| JPMorgan BetaBuilders Europe ETF  | BBEU | ETF  | J.P.Morgan Investment Management Inc. | \$ -            | \$ 0.93          | \$ 0.01            | \$ NULL         | \$ 0.02   | \$ 0.02   | \$ 1.33   | \$ 1.34   | \$ 0.02      | \$ 0.94       | \$ 1.34      | \$ 1.34      | \$ 1.34      | \$ 1.34       | \$ 1.34               | \$ 1.37           |
| iShares Edge MSCI Min Vol USA ETF | USMV | ETF  | BlackRock, Inc.                       | \$ 0.08         | \$ 0.57          | \$ 0.16            | \$ 0.74         | \$ 0.32   | \$ 0.40   | \$ 1.01   | \$ 0.48   | \$ 0.32      | \$ 0.88       | \$ 0.91      | \$ 6.37      | \$ 9.86      | \$ 11.68      | \$ 11.68              | \$ 16.86          |

**Top 5 Equity ETFs by 1M outflows**

| Description                     | ETF | Type | Fund Sponsor               | Last week (\$b) | Last month (\$b) | Last quarter (\$b) | Last year (\$b) | WTD (\$b) | MTD (\$b) | QTD (\$b) | YTD (\$b)  | 1 week (\$b) | 1 month (\$b) | 1 year (\$b) | 3 year (\$b) | 5 year (\$b) | 10 year (\$b) | Since Inception (\$b) | Current AUM (\$b) |
|---------------------------------|-----|------|----------------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|------------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|
| SPDR S&P 500 ETF                | SPY | ETF  | SSGA Funds Management, Inc | \$ (2.37)       | \$ (5.36)        | \$ (2.82)          | \$ 10.58        | \$ (2.17) | \$ (4.54) | \$ (7.09) | \$ (27.87) | \$ (2.17)    | \$ (7.98)     | \$ (12.09)   | \$ 16.46     | \$ 18.62     | \$ 58.07      | \$ 133.14             | \$ 270.95         |
| Energy Select Sector SPDR Fund  | XLE | ETF  | SSGA Funds Management, Inc | \$ (0.30)       | \$ (0.79)        | \$ (1.18)          | \$ 1.27         | \$ (0.19) | \$ (0.49) | \$ (1.65) | \$ (1.26)  | \$ (0.19)    | \$ (1.18)     | \$ (0.47)    | \$ 3.77      | \$ 10.00     | \$ 13.01      | \$ 14.31              | \$ 17.29          |
| iShares MSCI Japan ETF          | EWJ | ETF  | BlackRock, Inc.            | \$ (0.04)       | \$ (0.49)        | \$ (2.02)          | \$ 0.55         | \$ (0.34) | \$ (0.38) | \$ (2.02) | \$ (1.93)  | \$ (0.34)    | \$ (0.72)     | \$ (0.33)    | \$ (5.43)    | \$ 2.46      | \$ 6.90       | \$ 12.60              | \$ 16.49          |
| iShares Russell 1000 Growth ETF | IWF | ETF  | BlackRock, Inc.            | \$ 0.18         | \$ (0.17)        | \$ 0.01            | \$ (1.00)       | \$ (0.61) | \$ (0.43) | \$ (1.88) | \$ (1.86)  | \$ (0.61)    | \$ (0.64)     | \$ (1.18)    | \$ (1.40)    | \$ 1.52      | \$ 3.85       | \$ 17.00              | \$ 44.62          |
| iShares MSCI EAFE ETF           | EFA | ETF  | BlackRock, Inc.            | \$ (0.24)       | \$ (0.12)        | \$ (2.69)          | \$ 11.22        | \$ (0.36) | \$ (0.60) | \$ (2.15) | \$ (11.21) | \$ (0.36)    | \$ (0.60)     | \$ (0.48)    | \$ 5.28      | \$ 20.02     | \$ 26.26      | \$ 61.11              | \$ 69.82          |

**Fixed Income ETFs**

**Top 5 Fixed Income ETFs from Top Fund Sponsor by 1M Inflows**

| Description  | ETF  | Type | Fund Sponsor    | Last week (\$b) | Last month (\$b) | Last quarter (\$b) | Last year (\$b) | WTD (\$b) | MTD (\$b) | QTD (\$b) | YTD (\$b) | 1 week (\$b) | 1 month (\$b) | 1 year (\$b) | 3 year (\$b) | 5 year (\$b) | 10 year (\$b) | Since Inception (\$b) | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |
|--|------|------|-----------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|-----------------------------|
| iShares 20+ Year Treasury Bond ETF                   | TLT  | ETF  | BlackRock, Inc. | \$ 1.62         | \$ 0.13          | \$ 1.07            | \$ 1.62         | \$ 0.05   | \$ 1.67   | \$ 2.08   | \$ 2.71   | \$ 0.05      | \$ 1.95       | \$ 0.27      | \$ 3.36      | \$ 5.91      | \$ 6.96       | \$ 8.58               | \$ 9.29           | 36.88%                      |
| iShares iBoxx \$ Investment Grade Corporate Bond ETF | LQD  | ETF  | BlackRock, Inc. | \$ 0.63         | \$ (0.83)        | \$ 1.83            | \$ 10.78        | \$ 0.60   | \$ 1.23   | \$ 1.27   | \$ (2.60) | \$ 0.60      | \$ 0.86       | \$ (1.13)    | \$ 13.16     | \$ 17.63     | \$ 28.64      | \$ 32.92              | \$ 34.63          | 16.26%                      |
| iShares TIPS Bond ETF                                | TIP  | ETF  | BlackRock, Inc. | \$ 0.48         | \$ 0.03          | \$ (0.35)          | \$ 2.62         | \$ (0.12) | \$ 0.36   | \$ 0.72   | \$ (0.12) | \$ 0.69      | \$ 1.42       | \$ 10.89     | \$ 10.39     | \$ 14.36     | \$ 22.56      | \$ 22.56              | \$ 24.15          | 13.13%                      |
| iShares J.P. Morgan USD Emerging Markets Bond ETF    | EMB  | ETF  | BlackRock, Inc. | \$ 0.24         | \$ 0.25          | \$ 1.02            | \$ 3.81         | \$ 0.17   | \$ 0.41   | \$ 1.59   | \$ 2.80   | \$ 0.17      | \$ 0.68       | \$ 3.13      | \$ 10.13     | \$ 10.74     | \$ 14.49      | \$ 14.62              | \$ 14.05          | 12.80%                      |
| iShares 0-5 Year High Yield Corporate Bond ETF       | SHYG | ETF  | BlackRock, Inc. | \$ 0.21         | \$ 0.13          | \$ (1.23)          | \$ 2.02         | \$ 0.12   | \$ 0.32   | \$ 0.57   | \$ 0.57   | \$ 0.12      | \$ 0.42       | \$ (0.17)    | \$ 2.20      | \$ 3.10      | \$ 3.10       | \$ 3.10               | \$ 3.10           | 8.05%                       |

**Top 5 Fixed Income ETF Fund Sponsors by 1M Inflows**

| Fund Sponsor               | Asset Class  | # ETFs | # Currently Active ETFs | Last week (\$b) | Last month (\$b) | Last quarter (\$b) | Last year (\$b) | WTD (\$b) | MTD (\$b) | QTD (\$b) | YTD (\$b) | 1 week (\$b) | 1 month (\$b) | 1 year (\$b) | 3 year (\$b) | 5 year (\$b) | 10 year (\$b) | Since Inception (\$b) | Current AUM (\$b) |
|----------------------------|--------------|--------|-------------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|
| BlackRock, Inc.            | Fixed Income | 104    |                         | \$ 2.88         | \$ 2.85          | \$ 15.61           | \$ 53.61        | \$ 0.64   | \$ 3.51   | \$ 11.47  | \$ 30.55  | \$ 0.64      | \$ 5.28       | \$ 39.38     | \$ 130.29    | \$ 170.82    | \$ 247.40     | \$ 289.25             | \$ 291.17         |
| SSGA Funds Management, Inc | Fixed Income | 37     |                         | \$ (0.21)       | \$ 0.67          | \$ 3.45            | \$ 7.55         | \$ 1.25   | \$ 1.04   | \$ 1.92   | \$ 6.92   | \$ 1.25      | \$ 1.41       | \$ 10.76     | \$ 20.82     | \$ 29.65     | \$ 51.89      | \$ 54.89              | \$ 53.31          |
| Vanguard                   | Fixed Income | 18     |                         | \$ 0.40         | \$ 1.09          | \$ 4.20            | \$ 39.42        | \$ 0.17   | \$ 0.57   | \$ 3.14   | \$ 11.66  | \$ 0.17      | \$ 1.00       | \$ 22.53     | \$ 81.74     | \$ 111.76    | \$ 155.94     | \$ 159.65             | \$ 155.91         |
| PIMCO Funds                | Fixed Income | 21     |                         | \$ 0.41         | \$ 0.26          | \$ 0.42            | \$ 1.98         | \$ 0.06   | \$ 0.47   | \$ 1.17   | \$ 2.40   | \$ 0.06      | \$ 0.68       | \$ 2.89      | \$ 4.97      | \$ 3.65      | \$ 17.15      | \$ 17.15              | \$ 16.93          |
| First Trust Advisors LP    | Fixed Income | 11     |                         | \$ 0.04         | \$ 0.60          | \$ 0.92            | \$ 2.67         | \$ 0.14   | \$ 0.18   | \$ 1.03   | \$ 2.64   | \$ 0.14      | \$ 0.54       | \$ 3.49      | \$ 7.19      | \$ 8.12      | \$ 8.25       | \$ 8.25               | \$ 8.16           |

**Top 5 Fixed Income ETF Fund Sponsors by 1M outflows**

| Fund Sponsor           | Asset Class  | # ETFs | # Currently Active ETFs | Last week (\$b) | Last month (\$b) | Last quarter (\$b) | Last year (\$b) | WTD (\$b) | MTD (\$b) | QTD (\$b) | YTD (\$b) | 1 week (\$b) | 1 month (\$b) | 1 year (\$b) | 3 year (\$b) | 5 year (\$b) | 10 year (\$b) | Since Inception (\$b) | Current AUM (\$b) |
|------------------------|--------------|--------|-------------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|
| ProShares Advisors LLC | Fixed Income | 25     |                         | \$ (0.09)       | \$ (0.11)        | \$ (0.33)          | \$ 0.33         | \$ (0.04) | \$ (0.13) | \$ (0.36) | \$ (0.30) | \$ (0.04)    | \$ (0.18)     | \$ (0.43)    | \$ (0.77)    | \$ (0.16)    | \$ 10.90      | \$ 11.33              | \$ 3.49           |
| Northern Trust         | Fixed Income | 7      |                         | \$ (0.01)       | \$ (0.10)        | \$ 0.18            | \$ 0.43         | \$ (0.03) | \$ (0.04) | \$ (0.39) | \$ (0.06) | \$ (0.03)    | \$ (0.09)     | \$ (0.01)    | \$ 0.50      | \$ 0.73      | \$ 3.23       | \$ 3.23               | \$ 3.06           |
| Deutsche Bank AG       | Fixed Income | 23     |                         | \$ (0.12)       | \$ 0.05          | \$ 0.59            | \$ 0.38         | \$ 0.07   | \$ (0.06) | \$ 0.13   | \$ 1.55   | \$ 0.07      | \$ (0.05)     | \$ 1.85      | \$ 2.00      | \$ 1.93      | \$ 2.14       | \$ 2.14               | \$ 2.15           |
| IndexIQ Advisors       | Fixed Income | 5      |                         | \$ -            | \$ (0.02)        | \$ (0.02)          | \$ 0.28         | \$ (0.02) | \$ (0.02) | \$ (0.06) | \$ (0.10) | \$ (0.02)    | \$ (0.02)     | \$ 0.02      | \$ 0.48      | \$ 0.48      | \$ 0.48       | \$ 0.48               | \$ 0.45           |
| Direxion Shares        | Fixed Income | 13     |                         | \$ (0.02)       | \$ 0.02          | \$ (0.03)          | \$ 0.00         | \$ (0.02) | \$ (0.04) | \$ (0.03) | \$ (0.00) | \$ (0.02)    | \$ (0.01)     | \$ (0.02)    | \$ 0.50      | \$ 0.50      | \$ 1.66       | \$ 1.66               | \$ 0.52           |

**Top 5 Fixed Income ETFs by 1M inflows**

| Description  | ETF | Type | Fund Sponsor    | Last week (\$b) | Last month (\$b) | Last quarter (\$b) | Last year (\$b) | WTD (\$b) | MTD (\$b) | QTD (\$b) | YTD (\$b) | 1 week (\$b) | 1 month (\$b) | 1 year (\$b) | 3 year (\$b) | 5 year (\$b) | 10 year (\$b) | Since Inception (\$b) | Current AUM (\$b) |
|--|-----|------|-----------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|
| iShares 20+ Year Treasury Bond ETF                   | TLT | ETF  | BlackRock, Inc. | \$ 1.62         | \$ 0.13          | \$ 1.07            | \$ 1.62         | \$ 0.05   | \$ 1.67   | \$ 2.08   | \$ 2.71   | \$ 0.05      | \$ 1.95       | \$ 0.27      | \$ 3.36      | \$ 5.91      | \$ 6.96       | \$ 8.58               | \$ 9.29           |
| iShares iBoxx \$ Investment Grade Corporate Bond ETF | LQD | ETF  | BlackRock, Inc. | \$ 0.63         | \$ (0.83)        | \$ 1.83            | \$ 10.78        | \$ 0.60   | \$ 1.23   | \$ 1.27   | \$ (2.60) | \$ 0.60      | \$ 0.86       | \$ (1.13)    | \$ 13.16     | \$ 17.63     | \$ 28.64      | \$ 32.92              | \$ 34.63          |
| iShares TIPS Bond ETF                                | TIP | ETF  | BlackRock, Inc  |                 |                  |                    |                 |           |           |           |           |              |               |              |              |              |               |                       |                   |

**Commodity ETFs**

**Top 5 Commodity ETFs from Top Fund Sponsor by 1M Inflows**

| Description          | ETF | Type | Fund Sponsor    | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$)  | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) | % Fund Sponsor NET Flows 1M |
|----------------------|-----|------|-----------------|----------------|-----------------|-------------------|----------------|----------|----------|-----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-----------------------------|
| iShares Gold Trust   | IAU | ETF  | BlackRock, Inc. | \$ 0.02        | \$ 0.05         | \$ (0.06)         | \$ 1.96        | \$ 0.07  | \$ 0.09  | \$ (0.13) | \$ 1.01  | \$ 0.07     | \$ 0.16      | \$ 1.95     | \$ 4.51     | \$ 3.89     | \$ 9.60      | \$ 10.74             | \$ 10.21         | 71.59%                      |
| iShares Silver Trust | SLV | ETF  | BlackRock, Inc. | \$ 0.04        | \$ 0.01         | \$ 0.04           | \$ (0.31)      | \$ 0.03  | \$ 0.07  | \$ 0.21   | \$ 0.18  | \$ 0.03     | \$ 0.11      | \$ 0.11     | \$ 0.29     | \$ 0.09     | \$ 2.00      | \$ 4.98              | \$ 4.71          | 51.75%                      |

**Top 5 Commodity ETF Fund Sponsors by 1M Inflows**

| Fund Sponsor                | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |       |
|-----------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-------|
| BlackRock, Inc.             | Commodity   | 6      |                         | 6              | 0.06            | (0.02)            | 0.04           | 1.92     | 0.10     | 0.16     | 0.00     | 1.11        | 0.10         | 0.22        | 2.03        | 5.35        | 4.57         | 12.90                | 17.64            | 16.34 |
| Perth Mint                  | Commodity   | 1      |                         | 1              | 0.01            | 0.02              | NULL           | NULL     | -        | 0.01     | 0.03     | 0.03        | -            | 0.03        | 0.03        | 0.03        | 0.03         | 0.03                 | 0.03             | 0.03  |
| GraniteShares Advisors LLC. | Commodity   | 4      |                         | 4              | -               | 0.02              | 0.25           | 0.02     | -        | -        | 0.05     | 0.33        | -            | 0.00        | 0.34        | 0.35        | 0.35         | 0.35                 | 0.35             | 0.32  |
| Merck Investments, LLC      | Commodity   | 1      |                         | 1              | 0.00            | -                 | 0.01           | 0.01     | -        | 0.00     | 0.00     | 0.01        | -            | 0.00        | 0.01        | 0.06        | 0.15         | 0.15                 | 0.15             | 0.14  |

**Top 5 Commodity ETF Fund Sponsors by 1M Outflows**

| Fund Sponsor                           | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |       |
|--|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-------|
| World Gold Trust Services, LLC         | Commodity   | 1      |                         | 1              | (0.38)          | (1.73)            | (1.07)         | 0.92     | (0.10)   | (0.48)   | (2.96)   | (3.63)      | (0.10)       | (1.30)      | (3.61)      | 3.39        | (5.31)       | 0.34                 | 11.74            | 28.50 |
| Invesco PowerShares Capital Management | Commodity   | 10     |                         | 9              | (0.05)          | (0.16)            | 0.87           | (0.46)   | 0.02     | (0.04)   | (0.48)   | 1.47        | 0.02         | (0.26)      | 1.58        | 1.68        | (0.39)       | 5.08                 | 8.56             | 6.23  |
| United States Commodities Fund LLC     | Commodity   | 14     |                         | 10             | 0.02            | (0.37)            | (0.19)         | (1.05)   | 0.00     | 0.02     | (0.25)   | (1.11)      | 0.00         | (0.18)      | (1.86)      | (1.20)      | 1.64         | 6.21                 | 8.66             | 2.79  |
| ProShares Advisors LLC                 | Commodity   | 15     |                         | 12             | (0.02)          | (0.03)            | (0.03)         | (0.36)   | (0.01)   | (0.03)   | (0.06)   | (0.32)      | (0.01)       | (0.08)      | (0.52)      | (0.26)      | 0.51         | 2.71                 | 2.71             | 0.95  |
| Barclays Bank PLC                      | Commodity   | 58     |                         | 23             | (0.01)          | (0.10)            | (0.84)         | 0.07     | (0.02)   | (0.03)   | (0.28)   | (1.22)      | (0.02)       | (0.07)      | (1.13)      | (1.01)      | (0.18)       | 0.37                 | 4.01             | 1.25  |

**Top 5 Commodity ETFs by 1M Inflows**

| Description   | ETF  | Type | Fund Sponsor                           | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |         |
|---|------|------|--|----------------|-----------------|-------------------|----------------|----------|----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|---------|
| iShares Gold Trust  | IAU  | ETF  | BlackRock, Inc.                        | \$ 0.02        | \$ 0.05         | \$ (0.06)         | \$ 1.96        | \$ 0.07  | \$ 0.09  | \$ (0.13) | \$ 1.01   | \$ 0.07     | \$ 0.16      | \$ 1.95     | \$ 4.51     | \$ 3.89     | \$ 9.60      | \$ 10.74             | \$ 10.21         |         |
| iShares Silver Trust  | SLV  | ETF  | BlackRock, Inc.                        | \$ 0.04        | \$ 0.01         | \$ 0.04           | \$ (0.31)      | \$ 0.03  | \$ 0.07  | \$ 0.21   | \$ 0.18   | \$ 0.03     | \$ 0.11      | \$ 0.11     | \$ 0.29     | \$ 0.09     | \$ 2.00      | \$ 4.98              | \$ 4.71          |         |
| Invesco Optimum Yield Diversified Commodity Strategy No K-1 ETF | PDBC | ETF  | Invesco PowerShares Capital Management | \$ 0.01        | \$ 0.15         | \$ 0.81           | \$ 0.27        | \$ 0.04  | \$ 0.04  | \$ 0.23   | \$ 1.43   | \$ 0.04     | \$ 0.08      | \$ 1.64     | \$ 2.13     | \$ 2.14     | \$ 2.14      | \$ 2.14              | \$ 2.14          | \$ 2.18 |
| VelocityShares 3x Long Natural Gas                              | UGAZ | ETN  | Credit Suisse AG                       | \$ 0.03        | \$ (0.16)       | \$ (0.24)         | \$ 1.75        | \$ 0.02  | \$ 0.05  | \$ 0.07   | \$ (0.57) | \$ 0.02     | \$ 0.05      | \$ 0.33     | \$ 1.43     | \$ 29.92    | \$ 33.46     | \$ 33.46             | \$ 33.46         | \$ 0.34 |
| Perth Mint Physical Gold ETF                                    | AAAU | ETF  | Perth Mint                             | \$ 0.01        | \$ 0.02         | NULL              | NULL           | \$ -     | \$ 0.01  | \$ 0.03   | \$ 0.03   | \$ -        | \$ 0.03      | \$ 0.03     | \$ 0.03     | \$ 0.03     | \$ 0.03      | \$ 0.03              | \$ 0.03          | \$ 0.03 |

**Top 5 Commodity ETFs by 1M Outflows**

| Description                              | ETF  | Type | Fund Sponsor                           | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |         |
|--|------|------|--|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|---------|
| SPDR Gold Trust                          | GLD  | ETF  | World Gold Trust Services, LLC         | \$ (0.38)      | \$ (1.73)       | \$ (1.07)         | \$ 0.92        | \$ (0.10) | \$ (0.48) | \$ (2.96) | \$ (3.63) | \$ (0.10)   | \$ (1.30)    | \$ (3.61)   | \$ 3.39     | \$ (5.31)   | \$ 0.34      | \$ 11.74             | \$ 28.50         |         |
| United States Oil Fund                   | USO  | ETF  | United States Commodities Fund LLC     | \$ 0.02        | \$ (0.20)       | \$ (0.24)         | \$ (1.14)      | \$ (0.02) | \$ 0.00   | \$ (0.15) | \$ (0.77) | \$ (0.02)   | \$ (0.17)    | \$ (1.66)   | \$ (1.25)   | \$ 1.55     | \$ 1.07      | \$ 2.20              | \$ 1.64          |         |
| Invesco DB Oil Fund                      | DBO  | ETF  | Invesco PowerShares Capital Management | \$ (0.01)      | \$ (0.14)       | \$ 0.00           | \$ (0.14)      | \$ (0.00) | \$ (0.00) | \$ (0.02) | \$ (0.05) | \$ (0.00)   | \$ (0.16)    | \$ (0.16)   | \$ (0.17)   | \$ 0.21     | \$ 0.46      | \$ 0.46              | \$ 0.49          | \$ 0.38 |
| VelocityShares 3x Inverse Natural Gas    | DGAZ | ETN  | Credit Suisse AG                       | \$ (0.07)      | \$ 0.14         | \$ 0.20           | \$ (0.14)      | \$ (0.03) | \$ (0.09) | \$ (0.11) | \$ 0.10   | \$ (0.03)   | \$ (0.10)    | \$ 0.09     | \$ 0.31     | \$ 0.42     | \$ 0.46      | \$ 0.46              | \$ 0.46          | \$ 0.26 |
| Invesco DB Commodity Index Tracking Fund | DBC  | ETF  | Invesco PowerShares Capital Management | \$ (0.00)      | \$ (0.24)       | \$ 0.16           | \$ (0.43)      | \$ -      | \$ (0.00) | \$ (0.46) | \$ 0.19   | \$ -        | \$ (0.08)    | \$ 0.32     | \$ (0.23)   | \$ (2.06)   | \$ 2.91      | \$ 4.22              | \$ 2.46          |         |

**Currency ETFs**

**Top 5 Currency ETFs from Top Fund Sponsor by 1M Inflows**

| Description | ETF | Type | Fund Sponsor | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) | % Fund Sponsor NET Flows 1M |
|-------------|-----|------|--------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-----------------------------|
|             |     |      |              |                |                 |                   |                |          |          |          |          |             |              |             |             |             |              |                      |                  |                             |

**Top 5 Currency ETF Fund Sponsors by 1M Inflows**

| Fund Sponsor | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|--------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
|              |             |        |                         |                |                 |                   |                |          |          |          |          |             |              |             |             |             |              |                      |                  |

**Top 5 Currency ETF Fund Sponsors by 1M Outflows**

| Fund Sponsor                           | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |      |
|--|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|------|
| WisdomTree Investments                 | Currency    | 8      |                         | 4              | -               | (0.01)            | 0.03           | (0.12)   | (0.00)   | (0.00)   | (0.02)   | (0.06)      | (0.00)       | (0.01)      | (0.09)      | (0.33)      | (0.29)       | (0.10)               | 0.32             | 0.16 |
| Invesco PowerShares Capital Management | Currency    | 12     |                         | 12             | (0.01)          | 0.00              | (0.11)         | (0.48)   | (0.01)   | (0.02)   | (0.07)   | (0.05)      | (0.01)       | (0.33)      | (0.73)      | (1.00)      | (2.94)       | 1.30                 | 1.58             |      |
| Citigroup                              | Currency    | 12     |                         | 12             | -               | -                 | (0.00)         | 0.05     | (0.00)   | (0.00)   | (0.00)   | (0.00)      | (0.00)       | 0.04        | 0.05        | 0.05        | 0.05         | 0.05                 | 0.06             |      |
| ProShares Advisors LLC                 | Currency    | 7      |                         | 6              | 0.00            | (0.01)            | (0.04)         | (0.23)   | 0.00     | 0.00     | (0.02)   | (0.11)      | 0.00         | (0.16)      | (0.62)      | (0.99)      | (0.09)       | (0.09)               | 0.27             |      |

**Top 5 Currency ETFs by 1M Inflows**

| Description                                   | ETF | Type | Fund Sponsor                           | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|---|-----|------|--|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Invesco DB US Dollar Index Bullish Fund       | UUP | ETF  | Invesco PowerShares Capital Management | \$ 0.01        | \$ 0.04         | \$ (0.02)         | \$ (0.25)      | \$ (0.01) | \$ 0.00   | \$ 0.04   | \$ (0.02) | \$ (0.01)   | \$ 0.04      | \$ (0.06)   | \$ (0.55)   | \$ (0.45)   | \$ (0.52)    | \$ 0.35              | \$ 0.55          |
| Invesco CurrencyShares* Japanese Yen Trust    | FXY | ETF  | Invesco PowerShares Capital Management | \$ (0.00)      | \$ 0.01         | \$ (0.01)         | \$ (0.03)      | \$ -      | \$ (0.00) | \$ (0.04) | \$ 0.02   | \$ -        | \$ 0.00      | \$ 0.02     | \$ (0.03)   | \$ (0.00)   | \$ (0.81)    | \$ (0.09)            | \$ 0.13          |
| ProShares UltraShort Euro                     | EUO | ETF  | ProShares Advisors LLC                 | \$ 0.00        | \$ (0.01)       | \$ (0.03)         | \$ (0.09)      | \$ 0.00   | \$ 0.00   | \$ (0.01) | \$ (0.05) | \$ 0.00     | \$ 0.00      | \$ (0.07)   | \$ (0.38)   | \$ (0.43)   | \$ 0.01      | \$ 0.01              | \$ 0.17          |
| WisdomTree Brazilian Real Fund                | BZF | ETF  | WisdomTree Investments                 | \$ -           | \$ -            | \$ (0.00)         | \$ (0.01)      | \$ 0.00   | \$ 0.00   | \$ 0.00   | \$ (0.00) | \$ 0.00     | \$ 0.00      | \$ (0.01)   | \$ (0.01)   | \$ 0.01     | \$ 0.01      | \$ 0.11              | \$ 0.01          |
| Invesco CurrencyShares* Canadian Dollar Trust | CCW | ETF  | Invesco PowerShares Capital Management | \$ -           | \$ (0.00)       | \$ (0.00)         | \$ (0.03)      | \$ -      | \$ -      | \$ (0.01) | \$ (0.00) | \$ -        | \$ 0.00      | \$ (0.02)   | \$ (0.07)   | \$ (0.13)   | \$ 0.00      | \$ 0.20              | \$ 0.16          |

**Top 5 Currency ETFs by 1M Outflows**

| Description  | ETF | Type | Fund Sponsor                           | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|--|-----|------|--|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Invesco CurrencyShares* Euro Currency Trust          | FXE | ETF  | Invesco PowerShares Capital Management | \$ (0.01)      | \$ (0.04)       | \$ (0.05)         | \$ 0.01        | \$ 0.01   | \$ (0.01) | \$ (0.05) | \$ (0.04) | \$ 0.01     | \$ (0.03)    | \$ (0.12)   | \$ (0.06)   | \$ 0.03     | \$ (0.58)    | \$ 0.20              | \$ 0.22          |
| Invesco CurrencyShares* Australian Dollar Trust      | FXA | ETF  | Invesco PowerShares Capital Management | \$ -           | \$ (0.01)       | \$ 0.00           | \$ (0.05)      | \$ -      | \$ -      | \$ (0.00) | \$ (0.00) | \$ -        | \$ (0.01)    | \$ (0.04)   | \$ (0.05)   | \$ (0.22)   | \$ (0.22)    | \$ 0.12              | \$ 0.12          |
| Invesco CurrencyShares* British Pound Sterling Trust | FXB | ETF  | Invesco PowerShares Capital Management | \$ -           | \$ -            | \$ (0.02)         | \$ (0.11)      | \$ (0.01) | \$ (0.01) | \$ (0.01) | \$ (0.05) | \$ (0.01)   | \$ (0.01)    | \$ (0.08)   | \$ 0.11     | \$ 0.10     | \$ (0.01)    | \$ 0.19              | \$ 0.15          |
| WisdomTree Emerging Currency Fund                    | CEW | ETF  | WisdomTree Investments                 | \$ -           | \$ -            | \$ 0.00           | \$ (0.00)      | \$ (0.01) | \$ (0.01) | \$ (0.02) | \$ (0.03) | \$ (0.01)   | \$ (0.01)    | \$ (0.03)   | \$ (0.03)   | \$ (0.16)   | \$ 0.08      | \$ 0.08              | \$ 0.02          |
| ProShares UltraShort Yen                             | YCS | ETF  | ProShares Advisors LLC                 | \$ -           | \$ (0.01)       | \$ (0.01)         | \$ (0.12)      | \$ -      | \$ -      | \$ (0.01) | \$ (0.05) | \$ -        | \$ (0.00)    | \$ (0.08)   | \$ (0.22)   | \$ (0.54)   | \$ (0.12)    | \$ (0.12)            | \$ 0.08          |

**Real Estate ETFs**

**Top 5 Real Estate ETFs from Top Fund Sponsor by 1M Inflows**

| Description  | ETF  | Type | Fund Sponsor | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) | % Fund Sponsor NET Flows 1M |        |
|--|------|------|--------------|----------------|-----------------|-------------------|----------------|----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-----------------------------|--------|
| Vanguard Real Estate Index Fund                    | VNQ  | ETF  | Vanguard     | \$ (0.03)      | \$ 0.07         | \$ (0.55)         | \$ 1.97        | \$ 0.01  | \$ (0.02) | \$ 0.91   | \$ (1.86) | \$ 0.01     | \$ 0.08      | \$ (1.33)   | \$ 5.99     | \$ 10.95    | \$ 22.78     | \$ 25.42             | \$ 32.71         | 63.13%                      |        |
| Vanguard Global ex-U.S. Real Estate Index Fund ETF | VNQI | ETF  | Vanguard     | \$ -           | \$ (0.03)       | \$ 0.32           | \$ 1.70        | \$ 0.04  | \$ 0.04   | \$ (0.00) | \$ 0.63   | \$ 0.04     | \$ 0.04      | \$ 0.04     | \$ 1.30     | \$ 2.62     | \$ 5.10      | \$ 5.91              | \$ 5.91          | \$ 5.87                     | 36.87% |

**Top 5 Real Estate ETF Fund Sponsors by 1M Inflows**

| Fund Sponsor                         | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|--------------------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Vanguard                             | Real Estate | 2      | 2                       | \$ (0.03)      | \$ 0.04         | \$ (0.22)         | \$ 3.67        | \$ 0.05  | \$ 0.03  | \$ 0.91   | \$ (1.23) | \$ 0.05     | \$ 0.12      | \$ (0.03)   | \$ 8.61     | \$ 16.05    | \$ 28.69     | \$ 31.32             | \$ 38.58         |
| Charles Schwab Investment Management | Real Estate | 1      | 1                       | \$ 0.02        | \$ 0.14         | \$ 0.19           | \$ 1.13        | \$ 0.02  | \$ 0.03  | \$ 0.22   | \$ 0.65   | \$ 0.02     | \$ 0.09      | \$ 0.04     | \$ 2.92     | \$ 3.78     | \$ 4.30      | \$ 4.30              | \$ 4.81          |
| SSGA Funds Management, Inc           | Real Estate | 5      | 4                       | \$ 0.02        | \$ (0.17)       | \$ (0.26)         | \$ (0.33)      | \$ 0.18  | \$ 0.21  | \$ (0.01) | \$ (0.73) | \$ 0.18     | \$ 0.09      | \$ (0.94)   | \$ 1.05     | \$ 3.47     | \$ 7.78      | \$ 10.51             | \$ 10.96         |
| BlackRock, Inc.                      | Real Estate | 13     | 9                       | \$ 0.05        | \$ 0.40         | \$ 0.02           | \$ (0.03)      | \$ 0.04  | \$ 0.09  | \$ 1.02   | \$ 0.85   | \$ 0.04     | \$ 0.07      | \$ 0.47     | \$ 0.76     | \$ 0.62     | \$ 4.13      | \$ 8.57              | \$ 11.33         |
| Fidelity Management & Research       | Real Estate | 1      | 1                       | \$ 0.01        | \$ 0.10         | \$ 0.12           | \$ 0.20        | \$ 0.01  | \$ 0.02  | \$ 0.15   | \$ 0.17   | \$ 0.01     | \$ 0.03      | \$ 0.20     | \$ 0.58     | \$ 0.61     | \$ 0.61      | \$ 0.61              | \$ 0.63          |

**Top 5 Real Estate ETF Fund Sponsors by 1M Outflows**

| Fund Sponsor           | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| ProShares Advisors LLC | Real Estate | 3      | 3                       | \$ (0.00)      | \$ (0.02)       | \$ (0.02)         | \$ (0.05)      | \$ 0.00  | \$ (0.00) | \$ (0.00) | \$ (0.04) | \$ 0.00     | \$ (0.00)    | \$ (0.04)   | \$ (0.21)   | \$ (0.41)   | \$ 0.27      | \$ 2.14              | \$ 0.17          |
| Dimension Shares       | Real Estate | 2      | 2                       | \$ -           | \$ (0.00)       | \$ (0.04)         | \$ (0.01)      | \$ -     | \$ (0.00) | \$ (0.01) | \$ (0.01) | \$ -        | \$ (0.00)    | \$ (0.01)   | \$ (0.06)   | \$ (0.15)   | \$ 0.01      | \$ 0.01              | \$ 0.07          |
| ALPS Advisors, Inc.    | Real Estate | 1      | 1                       | \$ -           | \$ (0.00)       | \$ (0.00)         | \$ (0.02)      | \$ -     | \$ (0.00) | \$ (0.01) | \$ (0.01) | \$ -        | \$ (0.00)    | \$ (0.01)   | \$ (0.05)   | \$ (0.06)   | \$ 0.04      | \$ 0.04              | \$ 0.06          |
| IndexIQ Advisors       | Real Estate | 1      | 1                       | \$ -           | \$ (0.00)       | \$ (0.01)         | \$ 0.02        | \$ -     | \$ (0.00) | \$ (0.02) | \$ (0.02) | \$ -        | \$ (0.00)    | \$ (0.03)   | \$ (0.00)   | \$ 0.05     | \$ 0.08      | \$ 0.08              | \$ 0.09          |

**Top 5 Real Estate ETFs by 1M Inflows**

| Description                         | ETF  | Type | Fund Sponsor                         | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$)  | QTD (\$) | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|-------------------------------------|------|------|--------------------------------------|----------------|-----------------|-------------------|----------------|----------|-----------|----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Real Estate Select Sector SPDR Fund | XLRE | ETF  | SSGA Funds Management, Inc           | \$ 0.03        | \$ 0.10         | \$ 0.12           | \$ (0.11)      | \$ 0.12  | \$ 0.15   | \$ 0.32  | \$ 0.51   | \$ 0.12     | \$ 0.20      | \$ 0.46     | \$ 3.02     | \$ 3.02     | \$ 3.02      | \$ 3.02              | \$ 3.02          |
| Schwab US REIT ETF                  | SCHE | ETF  | Charles Schwab Investment Management | \$ 0.02        | \$ 0.14         | \$ 0.19           | \$ 1.13        | \$ 0.02  | \$ 0.03   | \$ 0.22  | \$ 0.65   | \$ 0.02     | \$ 0.09      | \$ 0.94     | \$ 2.92     | \$ 3.78     | \$ 4.30      | \$ 4.30              | \$ 4.81          |
| Vanguard Real Estate Index Fund     | VNQ  | ETF  | Vanguard                             | \$ (0.03)      | \$ 0.07         | \$ (0.55)         | \$ 1.97        | \$ 0.01  | \$ (0.02) | \$ 0.91  | \$ (1.86) | \$ 0.01     | \$ 0.08      | \$ (1.33)   | \$ 5.99     | \$ 10.95    | \$ 22.78     | \$ 25.42             | \$ 32.71         |
| iShares Core U.S. REIT ETF          | USRT | ETF  | BlackRock, Inc.                      | \$ 0.01        | \$ 0.02         | \$ 0.05           | \$ 0.27        | \$ 0.00  | \$ 0.01   | \$ 0.21  | \$ 0.44   | \$ 0.00     | \$ 0.07      | \$ 0.63     | \$ 0.70     | \$ 0.69     | \$ 0.74      | \$ 0.77              | \$ 0.82          |
| iShares Mortgage Real Estate ETF    | REM  | ETF  | BlackRock, Inc.                      | \$ 0.05        | \$ 0.03         | \$ 0.07           | \$ (0.10)      | \$ 0.01  | \$ 0.06   | \$ 0.10  | \$ 0.09   | \$ 0.01     | \$ 0.07      | \$ (0.01)   | \$ 0.15     | \$ 0.35     | \$ 1.53      | \$ 1.58              | \$ 1.23          |

**Top 5 Real Estate ETFs by 1M Outflows**

| Description                                     | ETF  | Type | Fund Sponsor               | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|---|------|------|----------------------------|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| SPDR DJ Wilshire International Real Estate ETF  | RWX  | ETF  | SSGA Funds Management, Inc | \$ (0.01)      | \$ (0.18)       | \$ (0.02)         | \$ (0.08)      | \$ (0.01) | \$ (0.02) | \$ (0.31) | \$ (0.55) | \$ (0.01)   | \$ (0.16)    | \$ (0.69)   | \$ (1.70)   | \$ (0.56)   | \$ 2.30      | \$ 3.62              | \$ 3.04          |
| iShares U.S. Real Estate ETF                    | IYR  | ETF  | BlackRock, Inc.            | \$ (0.02)      | \$ 0.23         | \$ (0.09)         | \$ (0.45)      | \$ 0.05   | \$ 0.04   | \$ 0.59   | \$ 0.45   | \$ 0.05     | \$ (0.11)    | \$ (0.26)   | \$ (0.19)   | \$ (0.65)   | \$ 0.60      | \$ 2.54              | \$ 4.40          |
| iShares Cohen & Steers REIT ETF                 | ICF  | ETF  | BlackRock, Inc.            | \$ -           | \$ (0.01)       | \$ (0.20)         | \$ (0.49)      | \$ (0.02) | \$ (0.02) | \$ (0.04) | \$ (0.45) | \$ (0.02)   | \$ (0.04)    | \$ (0.63)   | \$ (0.76)   | \$ (0.84)   | \$ (0.58)    | \$ 1.47              | \$ 2.58          |
| iShares International Developed Real Estate ETF | IFGL | ETF  | BlackRock, Inc.            | \$ -           | \$ (0.01)       | \$ (0.01)         | \$ 0.19        | \$ (0.02) | \$ (0.02) | \$ (0.03) | \$ (0.14) | \$ (0.02)   | \$ (0.02)    | \$ (0.08)   | \$ (0.44)   | \$ (0.12)   | \$ 0.26      | \$ 0.44              | \$ 0.47          |
| SPDR DJ Wilshire Global Real Estate ETF         | RWD  | ETF  | SSGA Funds Management, Inc | \$ -           | \$ -            | \$ (0.35)         | \$ 0.38        | \$ (0.01) | \$ (0.01) | \$ (0.01) | \$ (0.44) | \$ (0.01)   | \$ (0.01)    | \$ (0.38)   | \$ 0.32     | \$ 1.20     | \$ 2.11      | \$ 2.12              | \$ 2.35          |

**Multi-Asset ETFs**

**Top 5 Multi-Asset ETFs from Top Fund Sponsor by 1M Inflows**

| Description                      | ETF  | Type | Fund Sponsor        | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) | % Fund Sponsor NET Flows 1M |
|----------------------------------|------|------|---------------------|----------------|-----------------|-------------------|----------------|-----------|-----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-----------------------------|
| Pacer Trendplot US Large Cap ETF | PTLC | ETF  | Pacer Advisors, Inc | \$ 0.00        | \$ 0.05         | \$ 0.18           | \$ 0.24        | \$ 0.02   | \$ 0.02   | \$ 0.12  | \$ 0.45  | \$ 0.02     | \$ 0.05      | \$ 0.59     | \$ 0.83     | \$ 1.08     | \$ 1.08      | \$ 1.08              | \$ 1.08          | 1.27                        |
| Pacer Trendplot US Mid Cap ETF   | PTMC | ETF  | Pacer Advisors, Inc | \$ 0.00        | \$ 0.03         | \$ 0.06           | \$ 0.17        | \$ 0.01   | \$ 0.01   | \$ 0.07  | \$ 0.18  | \$ 0.01     | \$ 0.02      | \$ 0.22     | \$ 0.43     | \$ 0.54     | \$ 0.54      | \$ 0.54              | \$ 0.54          | 0.65                        |
| Pacer Trendplot 100 ETF          | PTNQ | ETF  | Pacer Advisors, Inc | \$ -           | \$ 0.03         | \$ 0.05           | \$ 0.06        | \$ (0.00) | \$ (0.00) | \$ 0.04  | \$ 0.14  | \$ (0.00)   | \$ 0.02      | \$ 0.17     | \$ 0.22     | \$ 0.27     | \$ 0.27      | \$ 0.27              | \$ 0.27          | 0.32                        |

**Top 5 Multi-Asset ETF Fund Sponsors by 1M Inflows**

| Fund Sponsor                            | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|---|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Pacer Advisors, Inc                     | Multi-Asset | 6      | 5                       | \$ 0.00        | \$ 0.11         | \$ 0.34           | \$ 0.55        | \$ 0.02  | \$ 0.03  | \$ 0.24  | \$ 0.93  | \$ 0.02     | \$ 0.08      | \$ 1.20     | \$ 1.75     | \$ 2.16     | \$ 2.16      | \$ 2.16              | \$ 2.51          |
| First Trust Advisors LP                 | Multi-Asset | 6      | 6                       | \$ 0.02        | \$ 0.02         | \$ 0.03           | \$ 0.07        | \$ 0.01  | \$ 0.02  | \$ 0.05  | \$ 0.13  | \$ 0.01     | \$ 0.04      | \$ 0.08     | \$ 0.43     | \$ 1.00     | \$ 1.52      | \$ 1.52              | \$ 1.50          |
| IndexIQ Advisors                        | Multi-Asset | 6      | 6                       | \$ -           | \$ 0.00         | \$ 0.05           | \$ (0.10)      | \$ 0.03  | \$ 0.03  | \$ 0.02  | \$ 0.05  | \$ 0.03     | \$ 0.03      | \$ 0.11     | \$ 0.13     | \$ 0.68     | \$ 1.21      | \$ 1.21              | \$ 1.30          |
| Mirae Asset Global Investments Co., Ltd | Multi-Asset | 8      | 5                       | \$ -           | \$ 0.03         | \$ 0.01           | \$ (0.02)      | \$ -     | \$ -     | \$ 0.03  | \$ 0.01  | \$ -        | \$ 0.02      | \$ 0.00     | \$ (0.03)   | \$ 0.05     | \$ 0.08      | \$ 0.08              | \$ 0.09          |
| SSGA Funds Management, Inc              | Multi-Asset | 4      | 4                       | \$ -           | \$ 0.03         | \$ 0.05           | \$ 0.05        | \$ 0.01  | \$ 0.01  | \$ 0.11  | \$ 0.19  | \$ 0.01     | \$ 0.01      | \$ 0.20     | \$ 0.23     | \$ 0.37     | \$ 0.56      | \$ 0.56              | \$ 0.55          |

**Top 5 Multi-Asset ETF Fund Sponsors by 1M Outflows**

| Fund Sponsor                       | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|------------------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| BlackRock, Inc.                    | Multi-Asset | 16     | 6                       | \$ (0.00)      | \$ (0.01)       | \$ 0.36           | \$ 0.45        | \$ (0.00) | \$ (0.01) | \$ 0.04   | \$ 0.51   | \$ (0.00)   | \$ (0.02)    | \$ 0.91     | \$ 2.19     | \$ 3.19     | \$ 4.08      | \$ 4.08              | \$ 4.47          |
| WBI Investments, Inc.              | Multi-Asset | 2      | 2                       | \$ 0.01        | \$ (0.02)       | \$ 0.00           | \$ 0.06        | \$ 0.00   | \$ 0.01   | \$ (0.02) | \$ 0.00   | \$ 0.00     | \$ (0.01)    | \$ (0.01)   | \$ 0.05     | \$ 0.29     | \$ 0.29      | \$ 0.29              | \$ 0.28          |
| Transamerica Asset Management, Inc | Multi-Asset | 4      | 4                       | \$ (0.01)      | \$ -            | \$ (0.01)         | \$ 0.79        | \$ -      | \$ (0.01) | \$ (0.00) | \$ (0.06) | \$ -        | \$ (0.01)    | \$ (0.06)   | \$ 0.73     | \$ 0.73     | \$ 0.73      | \$ 0.73              | \$ 0.82          |
| Innovator Management LLC           | Multi-Asset | 1      | 1                       | \$ (0.00)      | \$ (0.01)       | \$ (0.01)         | \$ 0.03        | \$ -      | \$ (0.00) | \$ (0.01) | \$ 0.02   | \$ -        | \$ (0.00)    | \$ 0.05     | \$ 0.05     | \$ 0.05     | \$ 0.05      | \$ 0.05              | \$ 0.04          |
| Credit Suisse AG                   | Multi-Asset | 4      | 4                       | \$ (0.00)      | \$ -            | \$ (0.00)         | \$ 0.01        | \$ (0.00) | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ (0.00)   | \$ (0.00)    | \$ (0.02)   | \$ 0.05     | \$ 0.09     | \$ 0.14      | \$ 0.14              | \$ 0.08          |

**Top 5 Multi-Asset ETFs by 1M Inflows**

| Description                                   | ETF  | Type | Fund Sponsor                            | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$) | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|---|------|------|---|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Pacer Trendplot US Large Cap ETF              | PTLC | ETF  | Pacer Advisors, Inc                     | \$ 0.00        | \$ 0.05         | \$ 0.18           | \$ 0.24        | \$ 0.02  | \$ 0.02  | \$ 0.12  | \$ 0.45  | \$ 0.02     | \$ 0.05      | \$ 0.59     | \$ 0.83     | \$ 1.08     | \$ 1.08      | \$ 1.08              | \$ 1.08          |
| First Trust Dorsey Wright Dynamic Focus S ETF | FVC  | ETF  | First Trust Advisors LP                 | \$ 0.02        | \$ 0.02         | \$ 0.08           | \$ 0.06        | \$ 0.00  | \$ 0.02  | \$ 0.05  | \$ 0.15  | \$ 0.00     | \$ 0.03      | \$ 0.21     | \$ 0.50     | \$ 0.50     | \$ 0.50      | \$ 0.50              | \$ 0.62          |
| IQ Hedge Multi-Strategy Tracker ETF           | QAI  | ETF  | IndexIQ Advisors                        | \$ -           | \$ 0.00         | \$ 0.04           | \$ (0.11)      | \$ 0.03  | \$ 0.03  | \$ 0.02  | \$ 0.03  | \$ 0.03     | \$ 0.03      | \$ 0.08     | \$ 0.07     | \$ 0.64     | \$ 1.11      | \$ 1.11              | \$ 1.18          |
| Horizons S&P 500 Covered Call ETF             | HSPX | ETF  | Mirae Asset Global Investments Co., Ltd | \$ -           | \$ 0.03         | \$ 0.00           | \$ (0.00)      | \$ -     | \$ 0.03  | \$ 0.02  | \$ 0.01  | \$ -        | \$ 0.02      | \$ 0.01     | \$ (0.00)   | \$ 0.05     | \$ 0.07      | \$ 0.07              | \$ 0.08          |
| Pacer Trendplot US Mid Cap ETF                | PTMC | ETF  | Pacer Advisors, Inc                     | \$ 0.00        | \$ 0.03         | \$ 0.06           | \$ 0.17        | \$ 0.01  | \$ 0.01  | \$ 0.07  | \$ 0.18  | \$ 0.01     | \$ 0.02      | \$ 0.22     | \$ 0.43     | \$ 0.54     | \$ 0.54      | \$ 0.54              | \$ 0.65          |

**Top 5 Multi-Asset ETFs by 1M Outflows**

| Description                                 | ETF  | Type | Fund Sponsor                           | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|---|------|------|--|----------------|-----------------|-------------------|----------------|----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| WBI Bull/Bear Global High Income ETF        | WBH  | ETF  | WBI Investments, Inc.                  | \$ (0.01)      | \$ (0.03)       | \$ 0.00           | \$ 0.06        | \$ 0.00  | \$ (0.00) | \$ (0.04) | \$ (0.02) | \$ 0.00     | \$ (0.03)    | \$ 0.01     | \$ 0.25     | \$ 0.25     | \$ 0.25      | \$ 0.25              | \$ 0.24          |
| iShares Commodities Select Strategy ETF     | COMT | ETF  | BlackRock, Inc.                        | \$ (0.00)      | \$ (0.02)       | \$ 0.33           | \$ 0.07        | \$ -     | \$ (0.00) | \$ 0.04   | \$ 0.44   | \$ -        | \$ (0.02)    | \$ 0.52     | \$ 0.44     | \$ 0.77     | \$ 0.77      | \$ 0.77              | \$ 0.75          |
| DefinixShares S&P 500 Managed Risk ETF      | DMRL | ETF  | Transamerica Asset Management, Inc     | \$ (0.01)      | \$ -            | \$ 0.03           | \$ 0.39        | \$ -     | \$ (0.01) | \$ (0.01) | \$ (0.01) | \$ -        | \$ (0.01)    | \$ (0.01)   | \$ 0.38     | \$ 0.38     | \$ 0.38      | \$ 0.38              | \$ 0.44          |
| Invesco DNA Tactical Multi-Asset Income ETF | DWIN | ETF  | Invesco PowerShares Capital Management | \$ -           | \$ (0.01)       | \$ (0.01)         | \$ (0.01)      | \$ -     | \$ -      | \$ (0.01) | \$ (0.04) | \$ -        | \$ (0.01)    | \$ (0.05)   | \$ 0.07     | \$ 0.07     | \$ 0.07      |                      |                  |

**Hybrid ETFs**

**Top 5 Hybrid ETFs from Top Fund Sponsor by 1M Inflows**

| Description   | ETF  | Type | Fund Sponsor            | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$) | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) | % Fund Sponsor NET Flows 1M |        |
|---|------|------|-------------------------|----------------|-----------------|-------------------|----------------|-----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-----------------------------|--------|
| First Trust Preferred Securities and Income ETF               | FPE  | ETF  | First Trust Advisors LP | \$ 0.01        | \$ 0.04         | \$ 0.04           | \$ 1.66        | \$ (0.01) | \$ 0.00  | \$ 0.08  | \$ 0.43  | \$ (0.01)   | \$ 0.03      | \$ 0.98     | \$ 3.27     | \$ 3.55     | \$ 3.63      | \$ 3.63              | \$ 3.54          | 79.08%                      |        |
| First Trust SSI Strategic Convertible Securities ETF          | FCVT | ETF  | First Trust Advisors LP | \$ 0.00        | \$ (0.00)       | \$ 0.05           | \$ 0.04        | \$ -      | \$ 0.00  | \$ 0.01  | \$ 0.11  | \$ -        | \$ 0.01      | \$ 0.12     | \$ 0.17     | \$ 0.17     | \$ 0.17      | \$ 0.17              | \$ 0.17          | \$ 0.18                     | 18.60% |
| First Trust Institutional Preferred Securities and Income ETF | FPEI | ETF  | First Trust Advisors LP | \$ -           | \$ 0.00         | \$ 0.01           | \$ 0.04        | \$ -      | \$ -     | \$ 0.01  | \$ 0.05  | \$ -        | \$ 0.00      | \$ 0.07     | \$ 0.09     | \$ 0.09     | \$ 0.09      | \$ 0.09              | \$ 0.09          | \$ 0.09                     | 2.32%  |

**Top 5 Hybrid ETF Fund Sponsors by 1M Inflows**

| Fund Sponsor                            | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$) | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|---|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|-----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| First Trust Advisors LP                 | Hybrid      | 3      |                         | \$ 0.01        | \$ 0.04         | \$ 0.10           | \$ 1.74        | \$ (0.01) | \$ 0.01  | \$ 0.10  | \$ 0.60  | \$ (0.01)   | \$ 0.04      | \$ 1.17     | \$ 3.53     | \$ 3.81     | \$ 3.89      | \$ 3.89              | \$ 3.82          |
| Mirae Asset Global Investments Co., Ltd | Hybrid      | 3      |                         | \$ 0.00        | \$ 0.01         | \$ 0.07           | \$ 0.03        | \$ 0.01   | \$ 0.01  | \$ 0.03  | \$ 0.10  | \$ 0.01     | \$ 0.02      | \$ 0.11     | \$ 0.13     | \$ 0.33     | \$ 0.40      | \$ 0.40              | \$ 0.34          |
| Van Eck Associates Corp                 | Hybrid      | 1      |                         | \$ 0.01        | \$ 0.01         | \$ 0.02           | \$ 0.10        | \$ -      | \$ 0.01  | \$ 0.03  | \$ 0.04  | \$ -        | \$ 0.01      | \$ 0.09     | \$ 0.30     | \$ 0.43     | \$ 0.59      | \$ 0.59              | \$ 0.56          |
| Infrastructure Capital Advisors, LLC    | Hybrid      | 2      |                         | \$ -           | \$ 0.00         | \$ 0.00           | \$ 0.02        | \$ -      | \$ -     | \$ 0.00  | \$ 0.01  | \$ -        | \$ 0.00      | \$ 0.01     | \$ 0.03     | \$ 0.03     | \$ 0.03      | \$ 0.03              | \$ 0.03          |

**Top 5 Hybrid ETF Fund Sponsors by 1M outflows**

| Fund Sponsor                           | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|--|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Invesco PowerShares Capital Management | Hybrid      | 4      |                         | \$ (0.02)      | \$ (0.06)       | \$ 0.13           | \$ 1.94        | \$ (0.03) | \$ (0.04) | \$ 0.15   | \$ 0.21   | \$ (0.03)   | \$ (0.07)    | \$ 0.57     | \$ 4.57     | \$ 5.28     | \$ 8.22      | \$ 8.76              | \$ 9.05          |
| BlackRock, Inc.                        | Hybrid      | 3      |                         | \$ (0.13)      | \$ 0.18         | \$ (0.33)         | \$ 1.16        | \$ (0.08) | \$ (0.20) | \$ 0.49   | \$ (0.79) | \$ (0.08)   | \$ (0.05)    | \$ (1.20)   | \$ 4.44     | \$ 8.16     | \$ 17.06     | \$ 17.48             | \$ 17.07         |
| SSGA Funds Management, Inc             | Hybrid      | 2      |                         | \$ (0.05)      | \$ 0.07         | \$ 0.30           | \$ 0.59        | \$ (0.03) | \$ (0.02) | \$ 0.33   | \$ 0.63   | \$ 0.03     | \$ (0.04)    | \$ 0.65     | \$ 1.83     | \$ 3.06     | \$ 4.79      | \$ 4.79              | \$ 5.47          |
| Innovator Management LLC               | Hybrid      | 1      |                         | \$ (0.00)      | \$ (0.00)       | \$ -              | \$ 0.01        | \$ -      | \$ (0.00) | \$ (0.00) | \$ (0.00) | \$ -        | \$ (0.00)    | \$ (0.00)   | \$ 0.02     | \$ 0.02     | \$ 0.02      | \$ 0.02              | \$ 0.02          |

**Top 5 Hybrid ETFs by 1M inflows**

| Description   | ETF  | Type | Fund Sponsor                            | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$) | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|---|------|------|---|----------------|-----------------|-------------------|----------------|-----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| First Trust Preferred Securities and Income ETF       | FPE  | ETF  | First Trust Advisors LP                 | \$ 0.01        | \$ 0.04         | \$ 0.04           | \$ 1.66        | \$ (0.01) | \$ 0.00  | \$ 0.08  | \$ 0.43  | \$ (0.01)   | \$ 0.03      | \$ 0.98     | \$ 3.27     | \$ 3.55     | \$ 3.63      | \$ 3.63              | \$ 3.54          |
| iShares Convertible Bond ETF                          | ICVT | ETF  | BlackRock, Inc.                         | \$ 0.01        | \$ 0.01         | \$ (0.10)         | \$ 0.33        | \$ 0.01   | \$ 0.02  | \$ 0.03  | \$ 0.15  | \$ 0.01     | \$ 0.02      | \$ (0.14)   | \$ 0.17     | \$ 0.19     | \$ 0.19      | \$ 0.19              | \$ 0.23          |
| SPDR Wells Fargo Preferred Stock ETF                  | PSK  | ETF  | SSGA Funds Management, Inc              | \$ 0.00        | \$ 0.00         | \$ 0.07           | \$ 0.08        | \$ 0.01   | \$ 0.01  | \$ 0.10  | \$ 0.10  | \$ 0.01     | \$ 0.02      | \$ 0.14     | \$ 0.41     | \$ 0.42     | \$ 0.71      | \$ 0.71              | \$ 0.67          |
| Global X U.S. Preferred ETF                           | PPFD | ETF  | Mirae Asset Global Investments Co., Ltd | \$ 0.00        | \$ 0.01         | \$ 0.08           | \$ 0.03        | \$ 0.01   | \$ 0.01  | \$ 0.03  | \$ 0.11  | \$ 0.01     | \$ 0.02      | \$ 0.14     | \$ 0.14     | \$ 0.14     | \$ 0.14      | \$ 0.14              | \$ 0.14          |
| VanEck Vectors Preferred Securities ex Financials ETF | PPXF | ETF  | Van Eck Associates Corp                 | \$ 0.01        | \$ 0.01         | \$ 0.02           | \$ 0.10        | \$ -      | \$ 0.01  | \$ 0.03  | \$ 0.04  | \$ -        | \$ 0.01      | \$ 0.09     | \$ 0.30     | \$ 0.43     | \$ 0.59      | \$ 0.59              | \$ 0.56          |

**Top 5 Hybrid ETFs by 1M outflows**

| Description                                | ETF | Type | Fund Sponsor                           | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|--|-----|------|--|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| iShares U.S. Preferred Stock ETF           | PPF | ETF  | BlackRock, Inc.                        | \$ (0.13)      | \$ 0.17         | \$ (0.22)         | \$ 0.82        | \$ (0.09) | \$ (0.22) | \$ 0.47   | \$ (0.61) | \$ (0.09)   | \$ (0.06)    | \$ (1.04)   | \$ 4.24     | \$ 7.92     | \$ 16.78     | \$ 17.20             | \$ 16.77         |
| SPDR Barclays Capital Convertible Bond ETF | CWB | ETF  | SSGA Funds Management, Inc             | \$ (0.05)      | \$ 0.07         | \$ 0.23           | \$ 0.51        | \$ 0.02   | \$ (0.03) | \$ 0.23   | \$ 0.51   | \$ 0.02     | \$ (0.05)    | \$ 0.51     | \$ 1.41     | \$ 2.64     | \$ 4.08      | \$ 4.08              | \$ 4.79          |
| Invesco Variable Rate Preferred ETF        | VRP | ETF  | Invesco PowerShares Capital Management | \$ (0.01)      | \$ (0.03)       | \$ 0.03           | \$ 0.96        | \$ -      | \$ (0.01) | \$ 0.06   | \$ 0.29   | \$ -        | \$ (0.04)    | \$ 0.41     | \$ 1.83     | \$ 2.19     | \$ 2.19      | \$ 2.19              | \$ 2.17          |
| Invesco Financial Preferred ETF            | PGF | ETF  | Invesco PowerShares Capital Management | \$ -           | \$ (0.00)       | \$ (0.01)         | \$ (0.09)      | \$ (0.02) | \$ (0.02) | \$ (0.02) | \$ (0.09) | \$ (0.02)   | \$ (0.02)    | \$ (0.08)   | \$ 0.13     | \$ (0.04)   | \$ 0.84      | \$ 1.21              | \$ 1.53          |
| Invesco Preferred ETF                      | PGX | ETF  | Invesco PowerShares Capital Management | \$ (0.00)      | \$ (0.02)       | \$ 0.11           | \$ 1.07        | \$ (0.00) | \$ (0.01) | \$ 0.11   | \$ 0.01   | \$ (0.00)   | \$ (0.01)    | \$ 0.23     | \$ 2.61     | \$ 3.14     | \$ 5.19      | \$ 5.35              | \$ 5.34          |

**Volatility ETFs**

**Top 5 Equity ETFs from Top Fund Sponsor by 1M Inflows**

| Description                                       | ETF  | Type | Fund Sponsor      | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) | % Fund Sponsor Flows 1M |
|---|------|------|-------------------|----------------|-----------------|-------------------|----------------|-----------|-----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-------------------------|
| iPath S&P 500 VIX Short-Term Futures ETN          | VXX  | ETN  | Barclays Bank PLC | \$ (0.04)      | \$ 0.23         | \$ 0.13           | \$ 1.00        | \$ 0.02   | \$ (0.02) | \$ 0.34  | \$ 0.06  | \$ 0.02     | \$ 0.12      | \$ 0.32     | \$ 3.15     | \$ 3.30     | \$ 9.86      | \$ 9.86              | \$ 0.90          | 100.63%                 |
| iPath Series B S&P 500 VIX Short-Term Futures ETN | VXXB | ETN  | Barclays Bank PLC | \$ 0.00        | \$ 0.00         | \$ (0.00)         | NULL           | \$ (0.00) | \$ (0.00) | \$ 0.00  | \$ 0.10  | \$ (0.00)   | \$ 0.00      | \$ 0.10     | \$ 0.10     | \$ 0.10     | \$ 0.10      | \$ 0.10              | \$ 0.10          | 0.30%                   |

**Top 5 Volatility ETF Fund Sponsors by 1M Inflows**

| Fund Sponsor             | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$)  | QTD (\$) | YTD (\$) | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|--------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|-----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Barclays Bank PLC        | Volatility  | 10     |                         | \$ (0.04)      | \$ 0.23         | \$ 0.11           | \$ 1.03        | \$ 0.02  | \$ (0.02) | \$ 0.34  | \$ 0.14  | \$ 0.02     | \$ 0.12      | \$ 0.41     | \$ 3.24     | \$ 3.32     | \$ 10.53     | \$ 10.53             | \$ 1.04          |
| Credit Suisse AG         | Volatility  | 6      |                         | \$ 0.00        | \$ 0.18         | \$ 0.33           | \$ 0.38        | \$ -     | \$ 0.00   | \$ 0.22  | \$ 1.18  | \$ -        | \$ 0.02      | \$ 0.57     | \$ 1.20     | \$ 3.24     | \$ 4.82      | \$ 4.82              | \$ 0.63          |
| Innovator Management LLC | Volatility  | 3      |                         | \$ 0.00        | \$ 0.01         | NULL              | NULL           | \$ 0.00  | \$ 0.00   | \$ 0.01  | \$ 0.01  | \$ 0.00     | \$ 0.01      | \$ 0.01     | \$ 0.01     | \$ 0.01     | \$ 0.01      | \$ 0.01              | \$ 0.01          |

**Top 5 Volatility ETF Fund Sponsors by 1M outflows**

| Fund Sponsor                | Asset Class | # ETFs | # Currently Active ETFs | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|-----------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| ProShares Advisors LLC      | Volatility  | 4      |                         | \$ (0.01)      | \$ (0.02)       | \$ (0.03)         | \$ 0.73        | \$ (0.04) | \$ (0.05) | \$ 0.27   | \$ 1.39   | \$ (0.04)   | \$ (0.09)    | \$ 0.53     | \$ 3.40     | \$ 4.42     | \$ 6.15      | \$ 6.15              | \$ 1.11          |
| UBS Global Asset Management | Volatility  | 10     |                         | \$ (0.00)      | \$ (0.00)       | \$ (0.02)         | \$ 0.08        | \$ -      | \$ (0.00) | \$ (0.01) | \$ (0.09) | \$ -        | \$ (0.00)    | \$ (0.07)   | \$ 0.05     | \$ 0.05     | \$ 0.07      | \$ 0.07              | \$ 0.02          |

**Top 5 Volatility ETFs by 1M inflows**

| Description                                      | ETF  | Type | Fund Sponsor             | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$) | MTD (\$)  | QTD (\$) | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|--|------|------|--------------------------|----------------|-----------------|-------------------|----------------|----------|-----------|----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| iPath S&P 500 VIX Short-Term Futures ETN         | VXX  | ETN  | Barclays Bank PLC        | \$ (0.04)      | \$ 0.23         | \$ 0.13           | \$ 1.00        | \$ 0.02  | \$ (0.02) | \$ 0.34  | \$ 0.06   | \$ 0.02     | \$ 0.12      | \$ 0.32     | \$ 3.15     | \$ 3.30     | \$ 9.86      | \$ 9.86              | \$ 0.90          |
| ProShares VIX Short-Term Futures ETF             | VIXY | ETF  | ProShares Advisors LLC   | \$ -           | \$ 0.03         | \$ 0.03           | \$ 0.16        | \$ 0.01  | \$ 0.01   | \$ 0.07  | \$ (0.02) | \$ 0.01     | \$ 0.03      | \$ (0.01)   | \$ 0.43     | \$ 0.41     | \$ 0.84      | \$ 0.84              | \$ 0.47          |
| VelocityShares Daily 2x VIX Short Term ETN       | TVIX | ETN  | Credit Suisse AG         | \$ -           | \$ 0.18         | \$ 0.33           | \$ 0.61        | \$ -     | \$ -      | \$ 0.20  | \$ 0.53   | \$ -        | \$ 0.02      | \$ 0.69     | \$ 2.31     | \$ 3.16     | \$ 4.46      | \$ 4.46              | \$ 0.15          |
| Innovator S&P 500 Buffer ETF                     | BIUL | ETF  | Innovator Management LLC | \$ 0.00        | \$ 0.00         | NULL              | NULL           | \$ 0.00  | \$ 0.00   | \$ 0.00  | \$ 0.00   | \$ 0.00     | \$ 0.00      | \$ 0.00     | \$ 0.00     | \$ 0.00     | \$ 0.00      | \$ 0.00              | \$ 0.00          |
| VelocityShares Daily Inverse VIX Medium Term ETN | ZIV  | ETN  | Credit Suisse AG         | \$ -           | \$ 0.01         | \$ (0.01)         | \$ 0.06        | \$ -     | \$ -      | \$ 0.01  | \$ (0.04) | \$ -        | \$ 0.00      | \$ (0.03)   | \$ (0.01)   | \$ 0.03     | \$ 0.06      | \$ 0.06              | \$ 0.15          |

**Top 5 Volatility ETFs by 1M outflows**

| Description  | ETF  | Type | Fund Sponsor                | Last week (\$) | Last month (\$) | Last quarter (\$) | Last year (\$) | WTD (\$)  | MTD (\$)  | QTD (\$)  | YTD (\$)  | 1 week (\$) | 1 month (\$) | 1 year (\$) | 3 year (\$) | 5 year (\$) | 10 year (\$) | Since Inception (\$) | Current AUM (\$) |
|--|------|------|-----------------------------|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| ProShares Short VIX Short-Term Futures             | SVXY | ETF  | ProShares Advisors LLC      | \$ -           | \$ (0.06)       | \$ (0.23)         | \$ (0.35)      | \$ (0.05) | \$ (0.05) | \$ (0.19) | \$ 1.40   | \$ (0.05)   | \$ (0.07)    | \$ 0.33     | \$ 0.12     | \$ 0.60     | \$ 0.63      | \$ 0.63              | \$ 0.40          |
| ProShares Ultra VIX Short-Term Futures             | UVXY | ETF  | ProShares Advisors LLC      | \$ (0.01)      | \$ 0.01         | \$ 0.19           | \$ 0.90        | \$ 0.00   | \$ (0.01) | \$ 0.39   | \$ 0.02   | \$ 0.00     | \$ (0.04)    | \$ 0.23     | \$ 2.82     | \$ 3.44     | \$ 4.51      | \$ 4.51              | \$ 0.55          |
| VelocityShares Daily Long VIX Medium-Term ETN      | VIUZ | ETN  | Credit Suisse AG            | NULL           | \$ (0.01)       | \$ 0.00           | \$ 0.00        | NULL      | NULL      | \$ (0.00) | \$ (0.00) | NULL        | \$ (0.01)    | \$ (0.00)   | \$ 0.00     | \$ 0.01     | \$ 0.01      | NULL                 | NULL             |
| VelocityShares Daily 2x VIX Medium Term ETN        | TVIZ | ETN  | Credit Suisse AG            | NULL           | \$ (0.00)       | \$ -              | \$ 0.01        | NULL      | NULL      | \$ (0.00) | \$ (0.00) | NULL        | \$ (0.00)    | \$ 0.00     | \$ 0.00     | \$ 0.00     | \$ 0.01      | \$ 0.01              | NULL             |
| VelocityShares 1X Daily Inverse VSTOXX Futures ETN | EXIV | ETN  | UBS Global Asset Management | \$ (0.00)      | \$ (0.00)       | \$ (0.01)         | \$ 0.03        | \$ -      | \$ (0.00) | \$ (0.01) | \$ (0.03) | \$ -        | \$ (0.00)    | \$ (0.02)   | \$ 0.00     | \$ 0.00     | \$ 0.00      | \$ 0.00              | \$ 0.01          |

| Equity ETFs  |      |      |                                       |  |            |               |                |               |                   |      |                             |
|--|------|------|---------------------------------------|--|------------|---------------|----------------|---------------|-------------------|------|-----------------------------|
| Top 5 Equity ETFs from Top Fund Sponsor by 1M Relative Inflows |      |      |                                       |  |            |               |                |               |                   |      |                             |
| Description  | ETF  | Type | Fund Sponsor                          | as % of initial (1 month ago) Fund Sponsor AUM |            |               |                |               |                   |      | % Fund Sponsor NET Flows 1M |
|  |      |      |                                       | QTD (%AUM)                                     | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |      |                             |
| JPMorgan BetaBuilders Canada ETF                               | BBCA | ETF  | J.P.Morgan Investment Management Inc. | 52.58%   | 68.15%     | 0.09%         | 29.32%         | 83.12%        | \$                | 1.47 | 47.08%                      |
| JPMorgan BetaBuilders Europe ETF                               | BBEU | ETF  | J.P.Morgan Investment Management Inc. | 47.13%   | 61.54%     | 0.24%         | 18.73%         | 75.06%        | \$                | 1.35 | 30.07%                      |
| JPMorgan BetaBuilders Developed Asia ex-Japan ETF              | BBAK | ETF  | J.P.Morgan Investment Management Inc. | 21.93%   | 28.42%     | 0.00%         | 12.21%         | 34.67%        | \$                | 0.61 | 19.60%                      |
| JPMorgan BetaBuilders Japan ETF                                | BBJP | ETF  | J.P.Morgan Investment Management Inc. | 66.35%   | 86.44%     | 0.47%         | 1.21%          | 105.44%       | \$                | 1.89 | 2.11%                       |
| JPMorgan Diversified Return International Equity ETF           | JPIN | ETF  | J.P.Morgan Investment Management Inc. | 0.61%  | 17.02%     | 0.21%         | 0.34%          | 29.33%        | \$                | 1.56 | 0.54%                       |

| Top 5 Equity ETF Fund Sponsors by 1M Relative Inflows |             |         |                          |            |            |               |                |               |                   |      |
|---|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|------|
| Fund Sponsor  | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |      |
| J.P.Morgan Investment Management Inc.                 | Equity      | 11      | 11                       | 189.53%    | 279.18%    | 1.01%         | 62.28%         | 358.05%       | \$                | 8.22 |
| Tierra Funds  | Equity      | 1       | 1                        | 24.00%     | 65.01%     | 6.76%         | 32.23%         | 8322.34%      | \$                | 0.56 |
| WBI Investments, Inc.                                 | Equity      | 4       | 4                        | 22.34%     | 35.89%     | -0.27%        | 22.49%         | 33.58%        | \$                | 0.34 |
| Strategy Shares, Inc.                                 | Equity      | 2       | 2                        | 188.40%    | 303.10%    | -0.32%        | 22.13%         | 375.36%       | \$                | 0.32 |
| ETF Managers Capital LLC                              | Equity      | 1       | 1                        | 36.12%     | 110.73%    | 5.27%         | 19.42%         | NULL          | \$                | 0.21 |

| Top 5 Equity ETF Fund Sponsors by 1M Relative outflows |             |         |                          |            |            |               |                |               |                   |      |
|--|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|------|
| Fund Sponsor   | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |      |
| Realty Shares, Inc.                                    | Equity      | 2       | 2                        | -6.20%     | 220.79%    | -0.90%        | -7.59%         | 249.93%       | \$                | 0.19 |
| AdvisorShares  | Equity      | 3       | 3                        | -11.23%    | 2.77%      | -0.62%        | -6.21%         | 12.49%        | \$                | 0.41 |
| Sprott Asset Management LP                             | Equity      | 2       | 2                        | -7.07%     | -8.61%     | -1.89%        | -6.07%         | -7.10%        | \$                | 0.22 |
| Columbia Management Investment Advisers                | Equity      | 3       | 3                        | -10.10%    | -25.78%    | -2.03%        | -4.73%         | -27.33%       | \$                | 0.68 |
| Principal Management Corporation                       | Equity      | 4       | 4                        | -4.01%     | 48.54%     | -3.59%        | -3.64%         | 254.98%       | \$                | 2.83 |

| Top 5 Equity ETFs by 1M Relative inflows          |      |      |                                       |            |            |               |                |               |                   |      |
|---|------|------|---------------------------------------|------------|------------|---------------|----------------|---------------|-------------------|------|
| Description                                       | ETF  | Type | Fund Sponsor                          | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |      |
| JPMorgan BetaBuilders Canada ETF                  | BBCA | ETF  | J.P.Morgan Investment Management Inc. | NULL       | NULL       | 0.50%         | 14864.84%      | NULL          | \$                | 1.47 |
| JPMorgan BetaBuilders Developed Asia ex-Japan ETF | BBAK | ETF  | J.P.Morgan Investment Management Inc. | NULL       | NULL       | 0.00%         | 12299.55%      | NULL          | \$                | 0.61 |
| Ecological Strategy ETF                           | HECO | ETF  | Strategy Shares, Inc.                 | 792.40%    | 789.53%    | 0.00%         | 756.70%        | 794.91%       | \$                | 0.08 |
| JPMorgan BetaBuilders Europe ETF                  | BBEU | ETF  | J.P.Morgan Investment Management Inc. | 13576.05%  | NULL       | 1.47%         | 241.51%        | NULL          | \$                | 1.35 |
| WBI Power Factor High Dividend ETF                | WBIY | ETF  | WBI Investments, Inc.                 | 136.55%    | 190.20%    | 0.00%         | 117.30%        | 223.73%       | \$                | 0.13 |

| Top 5 Equity ETFs by 1M Relative outflows              |      |      |   |            |            |               |                |               |                   |      |
|--|------|------|---|------------|------------|---------------|----------------|---------------|-------------------|------|
| Description  | ETF  | Type | Fund Sponsor                            | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |      |
| Invesco S&P Emerging Markets Low Volatility ETF        | EELV | ETF  | Invesco PowerShares Capital Management  | -54.22%    | 33.12%     | -32.23%       | -53.02%        | 27.50%        | \$                | 0.32 |
| Direxion Daily Gold Miners Bear 3X Shares              | DUST | ETF  | Direxion Shares                         | -81.41%    | -120.17%   | -27.29%       | -40.90%        | -124.33%      | \$                | 0.12 |
| Global X China Consumer ETF                            | CHIQ | ETF  | Mirae Asset Global Investments Co., Ltd | -47.50%    | -2.78%     | -2.36%        | -40.35%        | 45.46%        | \$                | 0.15 |
| WBI Bull Bear Rising Income 1000 ETF                   | WBIE | ETF  | WBI Investments, Inc.                   | -38.94%    | -4.79%     | -9.82%        | -35.71%        | -10.14%       | \$                | 0.05 |
| Direxion Daily Junior Gold Miners Index Bear 3X Shares | IDST | ETF  | Direxion Shares                         | -73.36%    | -103.57%   | -14.50%       | -32.14%        | -117.10%      | \$                | 0.05 |

| Fixed Income ETFs  |      |      |  |  |            |               |                |               |                   |      |                             |
|--|------|------|--|--|------------|---------------|----------------|---------------|-------------------|------|-----------------------------|
| Top 5 Fixed Income ETFs from Top Fund Sponsor by 1M Relative Inflows |      |      |  |  |            |               |                |               |                   |      |                             |
| Description  | ETF  | Type | Fund Sponsor                           | as % of initial (1 month ago) Fund Sponsor AUM |            |               |                |               |                   |      | % Fund Sponsor NET Flows 1M |
|  |      |      |  | QTD (%AUM)                                     | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |      |                             |
| Hartford Total Return Bond ETF                                       | HTRB | ETF  | Hartford Funds Management Company, LLC | 260.67%  | 253.25%    | 0.00%         | 56.48%         | NULL          | \$                | 0.07 | 100.00%                     |

| Top 5 Fixed Income ETF Fund Sponsors by 1M Relative inflows |              |         |                          |            |            |               |                |               |                   |      |
|---|--------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|------|
| Fund Sponsor  | Asset Class  | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |      |
| Hartford Funds Management Company, LLC                      | Fixed Income | 1       | 1                        | 260.67%    | 253.25%    | 0.00%         | 56.48%         | NULL          | \$                | 0.07 |
| BOCI-Prudential Asset Management                            | Fixed Income | 1       | 1                        | 66.61%     | NULL       | 7.14%         | 36.38%         | NULL          | \$                | 0.06 |
| J.P.Morgan Investment Management Inc.                       | Fixed Income | 4       | 4                        | 61.31%     | 725.18%    | 0.28%         | 20.03%         | 1228.11%      | \$                | 2.68 |
| WisdomTree Investments                                      | Fixed Income | 6       | 6                        | 18.40%     | 113.12%    | 2.43%         | 10.40%         | 157.79%       | \$                | 1.31 |
| ALPS Advisors, Inc.   | Fixed Income | 3       | 3                        | -4.33%     | 0.99%      | 7.67%         | 8.41%          | 10.00%        | \$                | 0.40 |

| Top 5 Fixed Income ETF Fund Sponsors by 1M Relative outflows |              |         |                          |            |            |               |                |               |                   |      |
|--|--------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|------|
| Fund Sponsor   | Asset Class  | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |      |
| WBI Investments, Inc.  | Fixed Income | 1       | 1                        | -12.44%    | -40.47%    | -1.39%        | -7.82%         | -41.97%       | \$                | 0.09 |
| ProShares Advisors LLC                                       | Fixed Income | 9       | 9                        | -10.01%    | -9.53%     | -1.46%        | -4.85%         | -10.99%       | \$                | 3.40 |
| IndexIQ Advisors   | Fixed Income | 3       | 3                        | -12.50%    | -19.45%    | -4.07%        | -4.72%         | -6.13%        | \$                | 0.40 |
| Northern Trust   | Fixed Income | 5       | 5                        | -11.47%    | -2.99%     | -0.91%        | -2.92%         | -1.87%        | \$                | 3.00 |
| Deutsche Bank AG   | Fixed Income | 4       | 4                        | 6.41%      | 263.13%    | 3.43%         | -2.50%         | 647.63%       | \$                | 2.08 |

| Top 5 Fixed Income ETFs by 1M Relative inflows   |      |      |  |            |            |               |                |               |                   |      |
|--|------|------|--|------------|------------|---------------|----------------|---------------|-------------------|------|
| Description                                      | ETF  | Type | Fund Sponsor                           | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |      |
| First Trust TCW Unconstrained Plus Bond ETF      | UCON | ETF  | First Trust Advisors LP                | 145.35%    | NULL       | 133.17%       | 144.71%        | NULL          | \$                | 0.06 |
| SPDR SSGA Ultra Short Term Bond ETF              | ULST | ETF  | SSGA Funds Management, Inc             | 95.91%     | 308.84%    | 0.00%         | 63.31%         | 389.65%       | \$                | 0.10 |
| Hartford Total Return Bond ETF                   | HTRB | ETF  | Hartford Funds Management Company, LLC | 260.67%    | 253.25%    | 0.00%         | 56.48%         | NULL          | \$                | 0.07 |
| WisdomTree Bloomberg Floating Rate Treasury Fund | USFR | ETF  | WisdomTree Investments                 | 94.97%     | 27077.26%  | 8.40%         | 46.45%         | 27023.28%     | \$                | 0.34 |
| PGIM Ultra Short Bond ETF                        | PULS | ETF  | BOCI-Prudential Asset Management       | 66.61%     | NULL       | 7.14%         | 36.38%         | NULL          | \$                | 0.06 |

| Top 5 Fixed Income ETFs by 1M Relative outflows        |      |      |                            |            |            |               |                |               |                   |      |
|--|------|------|----------------------------|------------|------------|---------------|----------------|---------------|-------------------|------|
| Description  | ETF  | Type | Fund Sponsor               | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |      |
| SPDR Barclays Capital Mortgage Backed Bond ETF         | MBG  | ETF  | SSGA Funds Management, Inc | -15.54%    | -14.30%    | -1.30%        | -12.64%        | -4.51%        | \$                | 0.19 |
| Vaneck Vectors International High Yield Bond ETF       | IHY  | ETF  | Van Eck Associates Corp    | -12.01%    | -14.02%    | -12.18%       | -12.21%        | -2.57%        | \$                | 0.14 |
| iShares Emerging Markets Corporate Bond ETF            | CEMB | ETF  | BlackRock, Inc.            | -11.69%    | -10.84%    | 0.00%         | -11.85%        | -2.14%        | \$                | 0.07 |
| iShares International High Yield Corporate Bond ETF    | IHYU | ETF  | BlackRock, Inc.            | -11.57%    | -14.87%    | 0.00%         | -11.72%        | -10.17%       | \$                | 0.08 |
| SPDR Barclays Capital International Corporate Bond ETF | IBND | ETF  | SSGA Funds Management, Inc | -16.11%    | 6.33%      | 0.00%         | -9.69%         | 21.56%        | \$                | 0.19 |

**Commodity ETFs**

| Top 5 Commodity ETFs from Top Fund Sponsor by 1M Relative Inflows |     |      |                 | as % of initial (1 month ago) Fund Sponsor AUM |            |               |                |               |                   |                             |
|---|-----|------|-----------------|--|------------|---------------|----------------|---------------|-------------------|-----------------------------|
| Description   | ETF | Type | Fund Sponsor    | QTD (%AUM)                                     | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |
| iShares Gold Trust  | IAU | ETF  | BlackRock, Inc. | -0.73%   | 5.91%      | 0.42%         | 0.96%          | 11.85%        | \$ 10.21          | 71.03%                      |
| iShares Silver Trust  | SLV | ETF  | BlackRock, Inc. | 1.20%  | 1.03%      | 0.20%         | 0.69%          | 0.70%         | \$ 4.71           | 51.34%                      |

**Top 5 Commodity ETF Fund Sponsors by 1M Relative Inflows**

| Fund Sponsor           | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|------------------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| BlackRock, Inc.        | Commodity   | 3       | 3                        | 0.05%      | 6.23%      | 0.61%         | 1.35%          | 12.17%        | \$ 16.28          |
| Merck Investments, LLC | Commodity   | 1       | 1                        | 0.10%      | 7.87%      | 0.00%         | 0.04%          | 9.76%         | \$ 0.14           |

**Top 5 Commodity ETF Fund Sponsors by 1M Relative outflows**

| Fund Sponsor                | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|-----------------------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| Citigroup                   | Commodity   | 2       | 2                        | -15.26%    | 20.96%     | -7.44%        | -13.95%        | -23.64%       | \$ 0.36           |
| UBS Global Asset Management | Commodity   | 2       | 2                        | -9.36%     | -4.70%     | 0.00%         | -11.22%        | -4.77%        | \$ 0.16           |
| ProShares Advisors LLC      | Commodity   | 4       | 4                        | -5.06%     | -26.42%    | -1.53%        | -6.79%         | -42.02%       | \$ 0.80           |
| Barclays Bank PLC           | Commodity   | 4       | 4                        | -19.14%    | 9.66%      | -1.29%        | -6.15%         | 28.02%        | \$ 1.07           |
| Deutsche Bank AG            | Commodity   | 1       | 1                        | -5.47%     | -17.52%    | 0.00%         | -6.05%         | -20.08%       | \$ 0.08           |

**Top 5 Commodity ETFs by 1M Relative inflows**

| Description   | ETF  | Type | Fund Sponsor                       | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|---|------|------|------------------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| VelocityShares 3x Long Natural Gas                        | UGAZ | ETN  | Credit Suisse AG                   | 23.80%     | -57.13%    | 5.36%         | 14.16%         | 59.05%        | \$ 0.34           |
| iPath Series B Bloomberg Coffee Subindex Total Return ETN | BJO  | ETN  | Barclays Bank PLC                  | 36.20%     | NULL       | 1.48%         | 14.10%         | NULL          | \$ 0.06           |
| VelocityShares 3x Long Silver ETN                         | USLV | ETN  | Credit Suisse AG                   | 22.66%     | 54.74%     | -0.85%        | 6.77%          | 94.52%        | \$ 0.28           |
| United States Natural Gas Fund                            | UNG  | ETF  | United States Commodities Fund LLC | -4.07%     | -56.93%    | 8.81%         | 6.41%          | -29.97%       | \$ 0.31           |
| VelocityShares 3x Inverse Crude Oil ETN                   | DWT  | ETN  | Citigroup                          | -38.00%    | 65.04%     | 0.00%         | 3.91%          | 264.26%       | \$ 0.17           |

**Top 5 Commodity ETFs by 1M Relative outflows**

| Description                           | ETF  | Type | Fund Sponsor                           | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|---------------------------------------|------|------|--|------------|------------|---------------|----------------|---------------|-------------------|
| VelocityShares 3x Inverse Natural Gas | DGAZ | ETN  | Credit Suisse AG                       | -33.75%    | 65.71%     | -9.41%        | -32.71%        | 55.68%        | \$ 0.26           |
| Invesco DB Oil Fund                   | DBO  | ETF  | Invesco PowerShares Capital Management | -4.61%     | -14.99%    | -1.32%        | -31.21%        | -42.22%       | \$ 0.38           |
| VelocityShares 3x Long Crude Oil ETN  | UWT  | ETN  | Citigroup                              | 14.37%     | -33.28%    | -14.23%       | -28.84%        | -104.16%      | \$ 0.18           |
| E-TRACS DJ-UBS Commodity Index        | DVQ  | ETN  | UBS Global Asset Management            | -23.19%    | -17.36%    | 0.00%         | -24.23%        | -18.04%       | \$ 0.06           |
| ProShares Ultra Bloomberg Crude Oil   | UCO  | ETF  | ProShares Advisors LLC                 | -9.48%     | -55.02%    | -2.96%        | -14.50%        | -94.62%       | \$ 0.39           |

**Currency ETFs**

| Top 5 Currency ETFs from Top Fund Sponsor by 1M Relative Inflows |     |      |              | as % of initial (1 month ago) Fund Sponsor AUM |            |               |                |               |                   |                             |
|--|-----|------|--------------|--|------------|---------------|----------------|---------------|-------------------|-----------------------------|
| Description  | ETF | Type | Fund Sponsor | QTD (%AUM)                                     | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |

**Top 5 Currency ETF Fund Sponsors by 1M Relative Inflows**

| Fund Sponsor | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|--------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
|--------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|

**Top 5 Currency ETF Fund Sponsors by 1M Relative outflows**

| Fund Sponsor                           | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|--|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| WisdomTree Investments                 | Currency    | 1       | 1                        | 9.71%      | -15.06%    | 0.00%         | -2.82%         | -35.17%       | \$ 0.09           |
| Invesco PowerShares Capital Management | Currency    | 7       | 7                        | -4.29%     | -4.15%     | -0.39%        | -0.44%         | -16.09%       | \$ 1.50           |
| ProShares Advisors LLC                 | Currency    | 2       | 2                        | -8.22%     | -31.10%    | 0.48%         | -0.04%         | -40.01%       | \$ 0.25           |

**Top 5 Currency ETFs by 1M Relative inflows**

| Description                                   | ETF  | Type | Fund Sponsor                           | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|---|------|------|--|------------|------------|---------------|----------------|---------------|-------------------|
| Invesco DB US Dollar Index Bullish Fund       | UIUP | ETF  | Invesco PowerShares Capital Management | 7.03%      | -2.85%     | -0.91%        | 6.87%          | -10.96%       | \$ 0.55           |
| Invesco CurrencyShares* Japanese Yen Trust    | FXY  | ETF  | Invesco PowerShares Capital Management | -22.79%    | 22.40%     | 0.00%         | 3.48%          | 13.05%        | \$ 0.13           |
| ProShares UltraShort Euro                     | EUO  | ETF  | ProShares Advisors LLC                 | -5.77%     | -24.38%    | 0.68%         | 2.09%          | -32.12%       | \$ 0.17           |
| Invesco CurrencyShares* Canadian Dollar Trust | FXC  | ETF  | Invesco PowerShares Capital Management | -4.56%     | -2.29%     | 0.00%         | 0.02%          | -12.00%       | \$ 0.16           |

**Top 5 Currency ETFs by 1M Relative outflows**

| Description  | ETF  | Type | Fund Sponsor                           | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|--|------|------|--|------------|------------|---------------|----------------|---------------|-------------------|
| Invesco CurrencyShares* Euro Currency Trust          | FXE  | ETF  | Invesco PowerShares Capital Management | -18.58%    | -14.01%    | 2.64%         | -13.58%        | -33.62%       | \$ 0.22           |
| Invesco CurrencyShares* Australian Dollar Trust      | FXA  | ETF  | Invesco PowerShares Capital Management | -2.91%     | -2.81%     | 0.00%         | -5.80%         | -24.44%       | \$ 0.12           |
| ProShares UltraShort Yen                             | YCS  | ETF  | ProShares Advisors LLC                 | -13.36%    | -41.47%    | 0.00%         | -4.82%         | -52.26%       | \$ 0.08           |
| Invesco CurrencyShares* British Pound Sterling Trust | FXB  | ETF  | Invesco PowerShares Capital Management | -7.66%     | -25.03%    | -4.02%        | -4.09%         | -33.47%       | \$ 0.15           |
| WisdomTree Bloomberg U.S. Dollar Bullish Fund        | USDU | ETF  | WisdomTree Investments                 | 9.71%      | -15.06%    | 0.00%         | -2.82%         | -35.17%       | \$ 0.09           |

## Real Estate ETFs

| Top 5 Real Estate ETFs from Top Fund Sponsor by 1M Relative Inflows |      |      |                                       |  |            |               |                |               |                   |                             |
|---|------|------|---------------------------------------|--|------------|---------------|----------------|---------------|-------------------|-----------------------------|
| Description   | ETF  | Type | Fund Sponsor                          | as % of initial (1 month ago) Fund Sponsor AUM |            |               |                |               |                   |                             |
|   |      |      |                                       | QTD (%AUM)                                     | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |
| JPMorgan BetaBuilders MSCI US REIT ETF                              | BBRE | ETF  | J.P.Morgan Investment Management Inc. | 11.47%   | NULL       | 11.14%        | 11.27%         | NULL          | \$ 0.06           | 100.00%                     |

## Top 5 Real Estate ETF Fund Sponsors by 1M Relative Inflows

| Fund Sponsor                            | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|---|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| J.P.Morgan Investment Management Inc.   | Real Estate | 1       | 1                        | 11.47%     | NULL       | 11.14%        | 11.27%         | NULL          | \$ 0.06           |
| Mirae Asset Global Investments Co., Ltd | Real Estate | 1       | 1                        | 25.74%     | 81.18%     | 2.88%         | 11.00%         | 128.71%       | \$ 0.11           |
| WisdomTree Investments                  | Real Estate | 1       | 1                        | 7.48%      | 17.93%     | 1.44%         | 7.60%          | 29.16%        | \$ 0.10           |
| First Trust Advisors LP                 | Real Estate | 1       | 1                        | 29.00%     | -18.87%    | 2.86%         | 7.10%          | -39.95%       | \$ 0.13           |
| Exchange Traded Concepts                | Real Estate | 1       | 1                        | 41.82%     | NULL       | 0.00%         | 5.53%          | NULL          | \$ 0.08           |

## Top 5 Real Estate ETF Fund Sponsors by 1M Relative outflows

| Fund Sponsor           | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|------------------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| ALPS Advisors, Inc.    | Real Estate | 1       | 1                        | -3.76%     | -10.04%    | 0.00%         | -3.78%         | -15.68%       | \$ 0.06           |
| ProShares Advisors LLC | Real Estate | 1       | 1                        | -0.88%     | -13.44%    | 0.03%         | -2.81%         | -18.27%       | \$ 0.14           |
| IndexIQ Advisors       | Real Estate | 1       | 1                        | -3.04%     | -21.50%    | 0.00%         | -1.54%         | -24.31%       | \$ 0.09           |

## Top 5 Real Estate ETFs by 1M Relative inflows

| Description                              | ETF  | Type | Fund Sponsor                            | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|--|------|------|---|------------|------------|---------------|----------------|---------------|-------------------|
| JPMorgan BetaBuilders MSCI US REIT ETF   | BBRE | ETF  | J.P.Morgan Investment Management Inc.   | 11.47%     | NULL       | 11.14%        | 11.27%         | NULL          | \$ 0.06           |
| Global X SuperDividend REIT ETF          | SRET | ETF  | Mirae Asset Global Investments Co., Ltd | 25.74%     | 81.18%     | 2.88%         | 11.00%         | 128.71%       | \$ 0.11           |
| iShares Residential Real Estate ETF      | REZ  | ETF  | BlackRock, Inc.                         | 11.00%     | -9.90%     | 0.00%         | 10.85%         | -15.83%       | \$ 0.33           |
| iShares Core U.S. REIT ETF               | USRT | ETF  | BlackRock, Inc.                         | 36.40%     | 128.44%    | 0.31%         | 10.06%         | 391.16%       | \$ 0.82           |
| WisdomTree Global ex-US Real Estate Fund | DRW  | ETF  | WisdomTree Investments                  | 7.48%      | 17.93%     | 1.44%         | 7.60%          | 29.16%        | \$ 0.10           |

## Top 5 Real Estate ETFs by 1M Relative outflows

| Description                                     | ETF  | Type | Fund Sponsor               | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|---|------|------|----------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| SPDR DJ Wilshire International Real Estate ETF  | RWX  | ETF  | SSGA Funds Management, Inc | -9.06%     | -14.75%    | -0.26%        | -5.17%         | -18.19%       | \$ 3.04           |
| iShares International Developed Real Estate ETF | IFGL | ETF  | BlackRock, Inc.            | -6.28%     | -21.65%    | -4.72%        | -4.69%         | -14.60%       | \$ 0.47           |
| Cohen & Steers Global Realty Majors ETF         | GRI  | ETF  | ALPS Advisors, Inc.        | -3.76%     | -10.04%    | 0.00%         | -3.78%         | -15.68%       | \$ 0.06           |
| ProShares Ultra Real Estate                     | URE  | ETF  | ProShares Advisors LLC     | -0.88%     | -13.44%    | 0.03%         | -2.81%         | -18.27%       | \$ 0.14           |
| iShares U.S. Real Estate ETF                    | IYR  | ETF  | BlackRock, Inc.            | 15.78%     | 11.35%     | 1.24%         | -2.51%         | -5.46%        | \$ 4.40           |

## Multi-Asset ETFs

| Top 5 Multi-Asset ETFs from Top Fund Sponsor by 1M Relative Inflows |      |      |   |  |            |               |                |               |                   |                             |
|---|------|------|---|--|------------|---------------|----------------|---------------|-------------------|-----------------------------|
| Description   | ETF  | Type | Fund Sponsor                            | as % of initial (1 month ago) Fund Sponsor AUM |            |               |                |               |                   |                             |
|   |      |      |   | QTD (%AUM)                                     | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |
| Horizons S&P 500 Covered Call ETF                                   | HSPX | ETF  | Mirae Asset Global Investments Co., Ltd | 52.01%   | 16.49%     | 0.00%         | 43.09%         | 21.70%        | \$ 0.08           | 100.00%                     |

## Top 5 Multi-Asset ETF Fund Sponsors by 1M Relative inflows

| Fund Sponsor                            | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|---|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| Mirae Asset Global Investments Co., Ltd | Multi-Asset | 1       | 1                        | 52.01%     | 16.49%     | 0.00%         | 43.09%         | 21.70%        | \$ 0.08           |
| Pacer Advisors, Inc                     | Multi-Asset | 5       | 5                        | 10.93%     | 65.38%     | 0.97%         | 3.53%          | 112.45%       | \$ 2.51           |
| UBS Global Asset Management             | Multi-Asset | 1       | 1                        | 6.30%      | 5.83%      | 1.58%         | 3.24%          | 8.14%         | \$ 0.25           |
| IndexIQ Advisors                        | Multi-Asset | 1       | 1                        | 1.99%      | 2.22%      | 2.39%         | 2.80%          | 7.32%         | \$ 1.18           |
| SSGA Funds Management, Inc              | Multi-Asset | 3       | 3                        | 24.39%     | 51.56%     | 1.92%         | 2.40%          | 57.49%        | \$ 0.52           |

## Top 5 Multi-Asset ETF Fund Sponsors by 1M Relative outflows

| Fund Sponsor                          | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|---------------------------------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| WBI Investments, Inc.                 | Multi-Asset | 1       | 1                        | -13.61%    | -7.51%     | 1.52%         | -9.98%         | -9.74%        | \$ 0.24           |
| Transamerica Asset Management, Inc    | Multi-Asset | 3       | 3                        | -0.86%     | -5.53%     | 0.00%         | -0.84%         | -5.93%        | \$ 0.78           |
| Cambria Investment Management, LP     | Multi-Asset | 2       | 2                        | -1.45%     | 28.00%     | -0.75%        | -0.75%         | 48.93%        | \$ 0.18           |
| BlackRock, Inc.                       | Multi-Asset | 6       | 6                        | 0.97%      | 13.00%     | -0.05%        | -0.50%         | 25.67%        | \$ 4.47           |
| J.P.Morgan Investment Management Inc. | Multi-Asset | 2       | 2                        | -2.38%     | 25.30%     | -0.49%        | -0.49%         | 82.46%        | \$ 0.25           |

## Top 5 Multi-Asset ETFs by 1M Relative inflows

| Description                                   | ETF  | Type | Fund Sponsor                            | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|---|------|------|---|------------|------------|---------------|----------------|---------------|-------------------|
| Horizons S&P 500 Covered Call ETF             | HSPX | ETF  | Mirae Asset Global Investments Co., Ltd | 52.01%     | 16.49%     | 0.00%         | 43.09%         | 21.70%        | \$ 0.08           |
| SPDR Gold MiniShares Trust                    | GLDM | ETF  | SSGA Funds Management, Inc              | 358.21%    | NULL       | 7.45%         | 9.78%          | NULL          | \$ 0.12           |
| Pacer Trendplot 100 ETF                       | PTNQ | ETF  | Pacer Advisors, Inc                     | 16.08%     | 98.64%     | -0.58%        | 5.90%          | 168.69%       | \$ 0.32           |
| First Trust Dorsey Wright Dynamic Focus 5 ETF | FVC  | ETF  | First Trust Advisors LP                 | 9.71%      | 51.69%     | 0.47%         | 5.81%          | 63.30%        | \$ 0.62           |
| WisdomTree Managed Futures Strategy Fund      | WTMF | ETF  | WisdomTree Investments                  | 3.81%      | 0.22%      | 0.00%         | 5.05%          | -2.11%        | \$ 0.17           |

## Top 5 Multi-Asset ETFs by 1M Relative outflows

| Description                                 | ETF  | Type | Fund Sponsor                           | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|---|------|------|--|------------|------------|---------------|----------------|---------------|-------------------|
| WBI Bull Bear Global High Income ETF        | WBIH | ETF  | WBI Investments, Inc.                  | -13.61%    | -7.51%     | 1.52%         | -9.98%         | -9.74%        | \$ 0.24           |
| Invesco DWA Tactical Multi-Asset Income ETF | DWIN | ETF  | Invesco PowerShares Capital Management | -9.28%     | -34.45%    | 0.00%         | -7.59%         | -38.87%       | \$ 0.06           |
| Pacer WealthShield ETF                      | PWS  | ETF  | Pacer Advisors, Inc                    | 10.10%     | 214.46%    | 0.00%         | -2.93%         | NULL          | \$ 0.09           |
| First Trust Strategic Income ETF            | FDIV | ETF  | First Trust Advisors LP                | -0.03%     | -10.01%    | 0.00%         | -2.87%         | -14.40%       | \$ 0.08           |
| DeltaShares S&P 500 Managed Risk ETF        | DMRL | ETF  | Transamerica Asset Management, Inc     | -2.72%     | -2.47%     | 0.00%         | -2.62%         | -2.69%        | \$ 0.44           |



**Hybrid ETFs**

| Top 5 Hybrid ETFs from Top Fund Sponsor by 1M Relative Inflows |      |      |   | as % of initial (1 month ago) Fund Sponsor AUM |            |               |                |               |                   |                             |  |
|--|------|------|---|--|------------|---------------|----------------|---------------|-------------------|-----------------------------|--|
| Description  | ETF  | Type | Fund Sponsor                            | QTD (%AUM)                                     | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |  |
| Global X U.S. Preferred ETF                                    | PFFD | ETF  | Mirae Asset Global Investments Co., Ltd | 10.96%   | 46.44%     | 2.56%         | 4.86%          | 56.53%        | \$ 0.14           | 103.94%                     |  |

**Top 5 Hybrid ETF Fund Sponsors by 1M Relative Inflows**

| Fund Sponsor                            | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|---|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| Mirae Asset Global Investments Co., Ltd | Hybrid      | 2       | 2                        | 10.00%     | 41.08%     | 2.56%         | 4.67%          | 43.75%        | \$ 0.34           |
| Van Eck Associates Corp                 | Hybrid      | 1       | 1                        | 5.74%      | 8.52%      | 0.00%         | 2.55%          | 18.44%        | \$ 0.56           |
| First Trust Advisors LP                 | Hybrid      | 3       | 3                        | 2.62%      | 17.64%     | -0.18%        | 1.09%          | 41.54%        | \$ 3.82           |

**Top 5 Hybrid ETF Fund Sponsors by 1M Relative outflows**

| Fund Sponsor                           | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|--|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| Invesco PowerShares Capital Management | Hybrid      | 3       | 3                        | 1.72%      | 2.33%      | -0.31%        | -0.89%         | 6.43%         | \$ 9.05           |
| SSGA Funds Management, Inc             | Hybrid      | 2       | 2                        | 6.49%      | 13.20%     | 0.60%         | -0.67%         | 14.03%        | \$ 5.47           |
| BlackRock, Inc.                        | Hybrid      | 3       | 3                        | 2.92%      | -4.32%     | -0.45%        | -0.27%         | -6.32%        | \$ 17.07          |

**Top 5 Hybrid ETFs by 1M Relative inflows**

| Description   | ETF  | Type | Fund Sponsor                            | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|---|------|------|---|------------|------------|---------------|----------------|---------------|-------------------|
| Global X U.S. Preferred ETF                           | PFFD | ETF  | Mirae Asset Global Investments Co., Ltd | 31.42%     | 398.71%    | 6.34%         | 12.53%         | 5575.34%      | \$ 0.14           |
| iShares Convertible Bond ETF                          | ICVT | ETF  | BlackRock, Inc.                         | 14.97%     | -41.72%    | 5.39%         | 8.40%          | -41.23%       | \$ 0.23           |
| First Trust SSI Strategic Convertible Securities ETF  | FCVT | ETF  | First Trust Advisors LP                 | 8.31%      | 180.41%    | 0.00%         | 4.52%          | 219.04%       | \$ 0.18           |
| SPDR Wells Fargo Preferred Stock ETF                  | PSK  | ETF  | SSGA Funds Management, Inc              | 16.69%     | 16.91%     | 1.62%         | 2.62%          | 24.28%        | \$ 0.67           |
| VanEck Vectors Preferred Securities ex Financials ETF | PFXF | ETF  | Van Eck Associates Corp                 | 5.74%      | 8.52%      | 0.00%         | 2.55%          | 18.44%        | \$ 0.56           |

**Top 5 Hybrid ETFs by 1M Relative outflows**

| Description                                | ETF  | Type | Fund Sponsor                           | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|--|------|------|--|------------|------------|---------------|----------------|---------------|-------------------|
| iShares International Preferred Stock ETF  | IPFF | ETF  | BlackRock, Inc.                        | -16.09%    | -27.93%    | 0.00%         | -2.69%         | -21.72%       | \$ 0.07           |
| Invesco Variable Rate Preferred Bond       | VRP  | ETF  | Invesco PowerShares Capital Management | 3.07%      | 14.97%     | 0.00%         | -1.92%         | 22.45%        | \$ 2.17           |
| Invesco Financial Preferred ETF            | PGF  | ETF  | Invesco PowerShares Capital Management | -1.39%     | -5.13%     | -1.59%        | -1.58%         | -4.55%        | \$ 1.53           |
| SPDR Barclays Capital Convertible Bond ETF | CWB  | ETF  | SSGA Funds Management, Inc             | 5.15%      | 12.65%     | 0.46%         | -1.12%         | 12.59%        | \$ 4.79           |
| iShares U.S. Preferred Stock ETF           | PFF  | ETF  | BlackRock, Inc.                        | 2.87%      | -3.43%     | -0.52%        | -0.37%         | -5.59%        | \$ 16.77          |

**Volatility ETFs**

| Top 5 Equity ETFs from Top Fund Sponsor by 1M Relative Inflows |      |      |                   | as % of initial (1 month ago) Fund Sponsor AUM |            |               |                |               |                   |                             |  |
|--|------|------|-------------------|--|------------|---------------|----------------|---------------|-------------------|-----------------------------|--|
| Description  | ETF  | Type | Fund Sponsor      | QTD (%AUM)                                     | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |  |
| iPath S&P 500 VIX Short-Term Futures ETN                       | VXX  | ETN  | Barclays Bank PLC | 35.97%   | 6.70%      | 1.93%         | 12.62%         | 28.05%        | \$ 0.90           | 99.70%                      |  |
| iPath Series B S&P 500 VIX Short-Term Futures ETN              | VXXB | ETN  | Barclays Bank PLC | 0.12%  | 10.90%     | -0.10%        | 0.04%          | 8.80%         | \$ 0.10           | 0.30%                       |  |

**Top 5 Volatility ETF Fund Sponsors by 1M Relative Inflows**

| Fund Sponsor      | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|-------------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| Barclays Bank PLC | Volatility  | 2       | 2                        | 36.09%     | 17.60%     | 1.83%         | 12.66%         | 36.86%        | \$ 1.01           |
| Credit Suisse AG  | Volatility  | 2       | 2                        | 31.76%     | 125.12%    | 0.00%         | 3.93%          | 124.19%       | \$ 0.62           |

**Top 5 Volatility ETF Fund Sponsors by 1M Relative outflows**

| Fund Sponsor           | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | Current AUM (\$b) |
|------------------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| ProShares Advisors LLC | Volatility  | 3       | 3                        | 26.87%     | 105.37%    | -2.90%        | -6.92%         | 25.01%        | \$ 1.10           |

**Top 5 Volatility ETFs by 1M Relative inflows**

| Description                                       | ETF  | Type | Fund Sponsor           | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|---|------|------|------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| ProShares VIX Short-Term Futures ETF              | VIXY | ETF  | ProShares Advisors LLC | 61.79%     | -15.27%    | 6.07%         | 23.55%         | -3.42%        | \$ 0.15           |
| iPath S&P 500 VIX Short-Term Futures ETN          | VXX  | ETN  | Barclays Bank PLC      | 42.05%     | 6.70%      | 2.16%         | 14.25%         | 28.05%        | \$ 0.90           |
| VelocityShares Daily 2x VIX Short Term ETN        | TVIX | ETN  | Credit Suisse AG       | 36.55%     | 265.66%    | 0.00%         | 4.21%          | 189.68%       | \$ 0.47           |
| VelocityShares Daily Inverse VIX Medium Term ETN  | ZIV  | ETN  | Credit Suisse AG       | 9.70%      | -17.00%    | 0.00%         | 2.82%          | -16.95%       | \$ 0.15           |
| iPath Series B S&P 500 VIX Short-Term Futures ETN | VXXB | ETN  | Barclays Bank PLC      | 0.81%      | NULL       | -0.96%        | 0.33%          | NULL          | \$ 0.10           |

**Top 5 Volatility ETFs by 1M Relative outflows**

| Description                            | ETF  | Type | Fund Sponsor           | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | Current AUM (\$b) |
|--|------|------|------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| ProShares Short VIX Short-Term Futures | SVXY | ETF  | ProShares Advisors LLC | -36.69%    | 173.62%    | -10.91%       | -16.25%        | 23.63%        | \$ 0.40           |
| ProShares Ultra VIX Short-Term Futures | UVXY | ETF  | ProShares Advisors LLC | 108.20%    | 5.95%      | 0.15%         | -6.48%         | 37.22%        | \$ 0.55           |

\*# of ETPs represents ETPs > \$50M AUM Only