

| ETF asset classes by YTD net asset flows | | | | | | | | | | | | | | Total | | | | | | | | | | | |
|------------------------------------------|--------|-------------------------|-----------------|------------------|--------------------|-----------------|------------|------------|------------|------------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|--|--|--|--|--|--|--|
| Asset Class | # ETPs | # Currently Active ETPs | 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) | | | | | | | |
| Equity | 1995 | 1449 | \$ 2,587 | \$ 16,119 | \$ 25,084 | \$ 334,281 | \$ 2,200 | \$ 12,627 | \$ 28,745 | \$ 99,384 | \$ 2,200 | \$ 20,041 | \$ 239,479 | \$ 688,697 | \$ 1,042,258 | \$ 1,534,040 | \$ 1,996,638 | \$ 2,904,414 | | | | | | | |
| Fixed Income | 456 | 355 | \$ 1,566 | \$ 8,661 | \$ 30,588 | \$ 121,166 | \$ 2,191 | \$ 5,868 | \$ 14,529 | \$ 60,509 | \$ 2,191 | \$ 6,894 | \$ 96,947 | \$ 290,956 | \$ 371,688 | \$ 562,742 | \$ 610,689 | \$ 600,486 | | | | | | | |
| Volatility | 37 | 17 | \$ (0,255) | \$ 0,496 | \$ 0,385 | \$ 2,223 | \$ 0,188 | \$ 0,240 | \$ 0,736 | \$ 2,550 | \$ 0,188 | \$ 0,189 | \$ 1,830 | \$ 7,443 | \$ 11,309 | \$ 21,608 | \$ 21,608 | \$ 2,884 | | | | | | | |
| Multi-Asset | 163 | 96 | \$ 0,057 | \$ 0,257 | \$ 0,953 | \$ 2,696 | \$ 0,015 | \$ 0,185 | \$ 0,442 | \$ 1,802 | \$ 0,015 | \$ 0,211 | \$ 2,909 | \$ 6,564 | \$ 10,446 | \$ 14,026 | \$ 14,301 | \$ 14,909 | | | | | | | |
| Hybrid | 20 | 18 | \$ 0,002 | \$ 1,116 | \$ 0,302 | \$ 5,631 | \$ 0,065 | \$ 0,179 | \$ 1,295 | \$ 0,962 | \$ 0,065 | \$ 0,281 | \$ 1,813 | \$ 15,009 | \$ 21,022 | \$ 35,292 | \$ 36,171 | \$ 36,798 | | | | | | | |
| Real Estate | 59 | 47 | \$ (0,005) | \$ 1,480 | \$ (0,043) | \$ 4,869 | \$ 0,280 | \$ 0,866 | \$ 2,346 | \$ (0,073) | \$ 0,280 | \$ 0,877 | \$ 1,202 | \$ 13,914 | \$ 24,902 | \$ 48,368 | \$ 59,657 | \$ 69,089 | | | | | | | |
| Currency | 55 | 38 | \$ 0,003 | \$ (0,068) | \$ (0,133) | \$ (0,795) | \$ 0,031 | \$ 0,015 | \$ (0,054) | \$ (0,216) | \$ 0,031 | \$ 0,020 | \$ (0,506) | \$ (2,030) | \$ (2,504) | \$ (3,538) | \$ 1,545 | \$ 2,140 | | | | | | | |
| Commodity | 214 | 129 | \$ (0,681) | \$ (1,210) | \$ (1,279) | \$ 3,035 | \$ (0,533) | \$ (1,974) | \$ (3,184) | \$ (3,003) | \$ (0,533) | \$ (2,219) | \$ (0,200) | \$ 11,827 | \$ 35,317 | \$ 70,903 | \$ 98,551 | \$ 63,385 | | | | | | | |

| Investment Philosophy by YTD net asset flows | | | | | | | | | | | | | | Total | | | | | | | | | | | |
|----------------------------------------------|--------|-------------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|------------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|--|--|--|--|--|--|--|
| Investment Philosophy | # ETPs | # Currently Active ETPs | 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) | | | | | | | |
| Passively Managed | 1668 | 1141 | \$ 0,829 | \$ 18,107 | \$ 32,219 | \$ 391,921 | \$ 3,672 | \$ 13,611 | \$ 31,718 | \$ 109,512 | \$ 3,672 | \$ 19,090 | \$ 253,724 | \$ 825,875 | \$ 1,180,193 | \$ 1,798,244 | \$ 2,267,349 | \$ 2,867,997 | | | | | | | |
| Enhanced Strategy | 1029 | 775 | \$ 1,929 | \$ 6,228 | \$ 16,745 | \$ 66,231 | \$ 0,421 | \$ 2,894 | \$ 9,122 | \$ 35,663 | \$ 0,421 | \$ 5,077 | \$ 66,553 | \$ 167,880 | \$ 288,312 | \$ 424,822 | \$ 510,830 | \$ 764,021 | | | | | | | |
| Actively managed | 298 | 233 | \$ 0,517 | \$ 2,515 | \$ 6,893 | \$ 14,954 | \$ 0,345 | \$ 1,500 | \$ 4,015 | \$ 16,740 | \$ 0,345 | \$ 2,127 | \$ 23,197 | \$ 38,623 | \$ 45,933 | \$ 60,374 | \$ 60,912 | \$ 62,087 | | | | | | | |

| Enhanced Strategy by YTD net asset flows | | | | | | | | | | | | | | Total | | | | | | | | | | | |
|------------------------------------------|--------|-------------------------|-----------------|------------------|--------------------|-----------------|------------|------------|------------|------------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|--|--|--|--|--|--|--|
| Enhanced ETF Type | # ETPs | # Currently Active ETPs | 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) | | | | | | | |
| Growth | 66 | 46 | \$ 0,295 | \$ 0,965 | \$ 6,511 | \$ 10,885 | \$ (0,162) | \$ 0,332 | \$ 1,296 | \$ 9,765 | \$ (0,162) | \$ (0,085) | \$ 13,589 | \$ 30,211 | \$ 49,680 | \$ 61,582 | \$ 98,586 | \$ 201,876 | | | | | | | |
| Value | 65 | 51 | \$ 0,640 | \$ 3,105 | \$ 3,963 | \$ 18,724 | \$ 0,505 | \$ 2,087 | \$ 5,191 | \$ 7,216 | \$ 0,505 | \$ 2,890 | \$ 17,326 | \$ 57,204 | \$ 76,044 | \$ 98,994 | \$ 124,802 | \$ 191,184 | | | | | | | |
| Multi-Factor | 132 | 117 | \$ 0,001 | \$ 0,515 | \$ 2,334 | \$ 6,945 | \$ 0,201 | \$ 0,472 | \$ 0,987 | \$ 6,417 | \$ 0,201 | \$ 0,694 | \$ 9,002 | \$ 20,019 | \$ 20,327 | \$ 20,361 | \$ 20,487 | \$ 23,151 | | | | | | | |
| Fundamentals | 136 | 118 | \$ 0,124 | \$ 0,663 | \$ 2,464 | \$ 6,482 | \$ 0,154 | \$ 0,417 | \$ 1,080 | \$ 6,357 | \$ 0,154 | \$ 0,583 | \$ 9,270 | \$ 11,505 | \$ 34,278 | \$ 44,865 | \$ 48,698 | \$ 66,431 | | | | | | | |
| Technical / Momentum | 59 | 45 | \$ 0,086 | \$ (0,391) | \$ 1,484 | \$ 3,329 | \$ 0,202 | \$ 0,438 | \$ 0,047 | \$ 4,388 | \$ 0,202 | \$ 0,387 | \$ 6,736 | \$ 7,451 | \$ 14,473 | \$ 16,376 | \$ 17,414 | \$ 21,829 | | | | | | | |
| Risk / Volatility | 106 | 80 | \$ 0,957 | \$ 0,727 | \$ 0,986 | \$ 5,660 | \$ (0,372) | \$ 0,408 | \$ 1,134 | \$ 2,143 | \$ (0,372) | \$ 0,919 | \$ 5,104 | \$ 24,186 | \$ 32,280 | \$ 44,232 | \$ 44,313 | \$ 56,515 | | | | | | | |
| Thematic | 24 | 18 | \$ (0,006) | \$ (0,057) | \$ 0,086 | \$ 1,941 | \$ (0,006) | \$ (0,009) | \$ (0,067) | \$ 1,769 | \$ (0,006) | \$ (0,022) | \$ 3,136 | \$ 3,820 | \$ 4,543 | \$ 4,549 | \$ 4,549 | \$ 5,016 | | | | | | | |
| Long-Short / Market Neutral | 22 | 14 | \$ 0,012 | \$ 0,032 | \$ 0,151 | \$ 0,172 | \$ (0,009) | \$ 0,017 | \$ 0,048 | \$ 0,375 | \$ (0,009) | \$ 0,020 | \$ 0,483 | \$ 0,584 | \$ 0,981 | \$ 1,424 | \$ 1,429 | \$ 1,681 | | | | | | | |
| Hedging | 13 | 10 | \$ - | \$ 0,067 | \$ 0,017 | \$ 0,285 | \$ 0,002 | \$ 0,027 | \$ 0,094 | \$ 0,330 | \$ 0,002 | \$ 0,030 | \$ 0,335 | \$ 0,599 | \$ 0,921 | \$ 1,141 | \$ 1,220 | \$ 1,055 | | | | | | | |
| Other | 111 | 53 | \$ 0,029 | \$ (0,092) | \$ 0,243 | \$ 1,636 | \$ (0,005) | \$ 0,003 | \$ (0,089) | \$ 0,239 | \$ (0,005) | \$ 0,016 | \$ 0,926 | \$ 2,466 | \$ 4,864 | \$ 5,147 | \$ 6,370 | \$ 6,226 | | | | | | | |
| Mergers & Acquisitions | 4 | 2 | \$ 0,002 | \$ 0,018 | \$ 0,060 | \$ 0,215 | \$ - | \$ 0,009 | \$ 0,027 | \$ 0,238 | \$ - | \$ 0,009 | \$ 0,339 | \$ 0,433 | \$ 0,473 | \$ 0,591 | \$ 0,591 | \$ 0,618 | | | | | | | |
| Contango / Backwardation | 71 | 36 | \$ (0,157) | \$ (0,345) | \$ 0,114 | \$ (0,949) | \$ (0,113) | \$ (0,326) | \$ (0,671) | \$ 0,140 | \$ (0,113) | \$ (0,331) | \$ 0,065 | \$ (0,536) | \$ (2,493) | \$ 3,351 | \$ 7,669 | \$ 5,128 | | | | | | | |
| Hedge Funds | 16 | 9 | \$ 0,003 | \$ (0,014) | \$ 0,083 | \$ (0,087) | \$ (0,000) | \$ 0,007 | \$ (0,007) | \$ 0,042 | \$ (0,000) | \$ 0,002 | \$ 0,110 | \$ (0,156) | \$ 0,656 | \$ 1,342 | \$ 1,342 | \$ 1,466 | | | | | | | |
| Insider Trading | 2 | 2 | \$ (0,004) | \$ 0,004 | \$ (0,003) | \$ (0,006) | \$ - | \$ (0,002) | \$ 0,002 | \$ (0,010) | \$ - | \$ (0,006) | \$ (0,013) | \$ 0,007 | \$ 0,082 | \$ 0,160 | \$ 0,188 | \$ 0,313 | | | | | | | |
| Quality | 34 | 29 | \$ 0,020 | \$ 0,026 | \$ (0,251) | \$ 1,037 | \$ 0,002 | \$ 0,013 | \$ 0,038 | \$ (0,013) | \$ 0,002 | \$ 0,040 | \$ 0,234 | \$ 2,036 | \$ 3,441 | \$ 4,711 | \$ 4,711 | \$ 5,360 | | | | | | | |
| Foreign Exchange | 2 | 1 | \$ - | \$ - | \$ (0,006) | \$ (0,011) | \$ - | \$ - | \$ - | \$ (0,015) | \$ - | \$ - | \$ (0,021) | \$ (0,069) | \$ (0,236) | \$ (0,489) | \$ 0,104 | \$ 0,024 | | | | | | | |
| Dividend / Income | 165 | 144 | \$ (0,072) | \$ 1,005 | \$ (1,490) | \$ 9,972 | \$ 0,022 | \$ (0,996) | \$ 0,008 | \$ (3,717) | \$ 0,022 | \$ (0,068) | \$ (0,069) | \$ 8,121 | \$ 48,001 | \$ 116,485 | \$ 128,355 | \$ 176,147 | | | | | | | |

Equity 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 NET Flows 1M | |
|----------------------------------------|------|------|-----------------|----------------|-----------------|-------------------|----------------|----------|----------|-----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-----------------------------|--------|
| iShares Core S&P 500 ETF | IVV | ETF | BlackRock, Inc. | \$ 0.98 | \$ 1.32 | \$ 3.76 | \$ 30.14 | \$ 0.71 | \$ 3.25 | \$ 1.93 | \$ 6.49 | \$ 0.71 | \$ 2.59 | \$ 15.49 | \$ 51.73 | \$ 65.03 | \$ 80.37 | \$ 96.26 | \$ 159.35 | 40.01% | |
| iShares Core MSCI Emerging Markets ETF | IEMG | ETF | BlackRock, Inc. | \$ - | \$ 1.41 | \$ 1.59 | \$ 16.53 | \$ 0.12 | \$ 0.96 | \$ 2.37 | \$ 10.31 | \$ 0.12 | \$ 1.93 | \$ 14.39 | \$ 37.44 | \$ 43.72 | \$ 45.73 | \$ 45.73 | \$ 47.72 | \$ 48.85 | 29.81% |
| iShares Core S&P Small-Cap ETF | IIR | ETF | BlackRock, Inc. | \$ 0.12 | \$ 0.65 | \$ 3.22 | \$ 6.03 | \$ 0.41 | \$ 0.82 | \$ 1.47 | \$ 5.12 | \$ 0.41 | \$ 0.89 | \$ 7.10 | \$ 17.06 | \$ 19.79 | \$ 23.14 | \$ 26.24 | \$ 47.72 | \$ 48.85 | 13.74% |
| iShares Russell 2000 ETF | IWM | ETF | BlackRock, Inc. | \$ 0.23 | \$ (0.97) | \$ 1.55 | \$ (1.20) | \$ 0.57 | \$ 0.29 | \$ (0.68) | \$ 0.61 | \$ 0.57 | \$ 0.77 | \$ 1.89 | \$ 7.40 | \$ 4.61 | \$ 10.95 | \$ 20.07 | \$ 48.31 | \$ 11.90% | |
| iShares China Large-Cap ETF | FXI | ETF | BlackRock, Inc. | \$ 0.26 | \$ (0.01) | \$ (0.01) | \$ 0.17 | \$ 0.41 | \$ 0.68 | \$ 0.67 | \$ 1.14 | \$ 0.41 | \$ 0.68 | \$ 1.46 | \$ (1.42) | \$ (0.52) | \$ (1.16) | \$ 2.46 | \$ 4.74 | \$ 10.46% | |

Top 5 Equity 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. | Equity | 285 | | 235 | \$ 1.39 | \$ (2.69) | \$ 2.48 | \$ 146.61 | \$ 2.13 | \$ 7.97 | \$ 5.29 | \$ 29.07 | \$ 2.13 | \$ 6.46 | \$ 81.04 | \$ 279.33 | \$ 390.27 | \$ 517.71 | \$ 726.33 | \$ 1,094.13 |
| Vanguard | Equity | 58 | | 58 | \$ 1.34 | \$ 4.59 | \$ 13.79 | \$ 96.31 | \$ 0.65 | \$ 3.74 | \$ 8.33 | \$ 39.78 | \$ 0.65 | \$ 5.30 | \$ 71.63 | \$ 218.49 | \$ 324.95 | \$ 475.12 | \$ 519.16 | \$ 733.00 |
| J.P.Morgan Investment Management Inc. | Equity | 20 | | 20 | \$ 1.87 | \$ 2.09 | \$ 0.23 | \$ 1.06 | \$ 1.21 | \$ 3.15 | \$ 5.24 | \$ 5.99 | \$ 1.21 | \$ 3.44 | \$ 6.46 | \$ 7.90 | \$ 8.10 | \$ 8.10 | \$ 8.10 | \$ 8.39 |
| Charles Schwab Investment Management | Equity | 17 | | 17 | \$ 0.65 | \$ 2.38 | \$ 4.48 | \$ 22.36 | \$ 0.30 | \$ 1.42 | \$ 3.79 | \$ 14.25 | \$ 0.30 | \$ 1.60 | \$ 21.73 | \$ 53.69 | \$ 70.16 | \$ 79.95 | \$ 79.95 | \$ 101.97 |
| Van Eck Associates Corp | Equity | 49 | | 37 | \$ 0.02 | \$ 0.86 | \$ 0.03 | \$ (1.36) | \$ 0.23 | \$ 0.52 | \$ 1.39 | \$ 2.58 | \$ 0.23 | \$ 1.04 | \$ 3.90 | \$ 6.40 | \$ 8.71 | \$ 32.36 | \$ 38.51 | \$ 22.29 |

Top 5 Equity 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 | Equity | 84 | | 58 | \$ (0.29) | \$ (0.63) | \$ (1.55) | \$ (0.07) | \$ (0.17) | \$ (0.59) | \$ (1.22) | \$ (5.04) | \$ (0.17) | \$ (0.89) | \$ (5.05) | \$ (21.99) | \$ 8.60 | \$ 30.79 | \$ 35.58 | \$ 39.20 |
| ALPS Advisors, Inc. | Equity | 22 | | 14 | \$ (0.04) | \$ (0.57) | \$ 0.85 | \$ 2.61 | \$ (0.04) | \$ 0.00 | \$ (0.57) | \$ (2.00) | \$ (0.04) | \$ (0.24) | \$ (0.82) | \$ 5.75 | \$ 9.86 | \$ 16.84 | \$ 16.84 | \$ 14.07 |
| Mirae Asset Global Investments Co., Ltd | Equity | 78 | | 52 | \$ (0.09) | \$ (0.03) | \$ 0.42 | \$ 4.31 | \$ (0.01) | \$ (0.20) | \$ (0.24) | \$ 0.01 | \$ (0.01) | \$ (0.17) | \$ 4.41 | \$ 6.83 | \$ 8.80 | \$ 11.48 | \$ 11.48 | \$ 9.77 |
| Bank of New York Mellon Corporation | Equity | 1 | | 1 | \$ (0.05) | \$ (0.17) | \$ 0.19 | \$ (0.89) | \$ 0.11 | \$ (0.10) | \$ (0.27) | \$ (0.75) | \$ 0.11 | \$ (0.07) | \$ 0.33 | \$ (0.37) | \$ (1.21) | \$ (0.60) | \$ 4.60 | \$ 21.13 |
| Exchange Traded Concepts | Equity | 20 | | 16 | \$ (0.01) | \$ (0.08) | \$ (0.12) | \$ 1.88 | \$ (0.03) | \$ (0.07) | \$ (0.15) | \$ 0.24 | \$ (0.03) | \$ (0.07) | \$ 1.08 | \$ 2.01 | \$ 2.56 | \$ 2.58 | \$ 2.58 | \$ 2.84 |

Top 5 Equity 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 (\$) | |
|----------------------------------------|------|------|---------------------------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|----------|
| Vanguard S&P 500 ETF | VOO | ETF | Vanguard | \$ 1.30 | \$ 0.64 | \$ 1.83 | \$ 14.79 | \$ 0.09 | \$ 2.08 | \$ 2.72 | \$ 8.51 | \$ 0.09 | \$ 2.68 | \$ 14.62 | \$ 40.66 | \$ 60.89 | \$ 70.06 | \$ 70.06 | \$ 99.05 | |
| iShares Core S&P 500 ETF | IVV | ETF | BlackRock, Inc. | \$ 0.98 | \$ (1.32) | \$ 3.76 | \$ 30.14 | \$ 0.71 | \$ 3.25 | \$ 1.93 | \$ 6.49 | \$ 0.71 | \$ 2.59 | \$ 15.49 | \$ 51.73 | \$ 65.03 | \$ 80.37 | \$ 96.26 | \$ 159.35 | |
| iShares Core MSCI Emerging Markets ETF | IEMG | ETF | BlackRock, Inc. | \$ - | \$ 1.41 | \$ 1.59 | \$ 16.53 | \$ 0.12 | \$ 0.96 | \$ 2.37 | \$ 10.31 | \$ 0.12 | \$ 1.93 | \$ 14.39 | \$ 37.44 | \$ 43.72 | \$ 45.73 | \$ 45.73 | \$ 47.72 | \$ 48.85 |
| JPMorgan BetaBuilders Canada ETF | BBCA | ETF | J.P.Morgan Investment Management Inc. | \$ 1.08 | NULL | NULL | NULL | \$ 0.38 | \$ 1.47 | \$ 1.47 | \$ 1.47 | \$ 0.38 | \$ 1.47 | \$ 1.47 | \$ 1.47 | \$ 1.47 | \$ 1.47 | \$ 1.47 | \$ 1.47 | \$ 1.48 |
| VanEck Vectors Gold Miners ETF | GDXX | ETF | Van Eck Associates Corp | \$ 0.10 | \$ 0.53 | \$ 0.12 | \$ (2.99) | \$ 0.16 | \$ 0.75 | \$ 1.28 | \$ 2.46 | \$ 0.16 | \$ 1.03 | \$ 2.50 | \$ 3.05 | \$ 5.40 | \$ 13.23 | \$ 15.24 | \$ 8.41 | |

Top 5 Equity 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 (\$) |
|-------------------------------------|-----|------|----------------------------|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|------------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Energy Select Sector SPDR Fund | XLE | ETF | SSGA Funds Management, Inc | \$ (0.15) | \$ (0.37) | \$ (0.18) | \$ 1.27 | \$ (0.13) | \$ (0.77) | \$ (1.13) | \$ (0.74) | \$ (0.13) | \$ (1.11) | \$ 0.67 | \$ 4.42 | \$ 11.77 | \$ 12.87 | \$ 14.82 | \$ 17.88 |
| iShares MSCI EAFE ETF | EFA | ETF | BlackRock, Inc. | \$ - | \$ (1.43) | \$ (2.69) | \$ 11.22 | \$ - | \$ (0.12) | \$ (1.55) | \$ (10.62) | \$ - | \$ (0.87) | \$ (8.89) | \$ 5.91 | \$ 20.92 | \$ 26.55 | \$ 61.70 | \$ 71.01 |
| iShares Russell 3000 ETF | IWW | ETF | BlackRock, Inc. | \$ - | \$ (0.80) | \$ 0.86 | \$ 0.01 | \$ - | \$ (0.01) | \$ (0.80) | \$ (0.14) | \$ - | \$ (0.83) | \$ (0.07) | \$ 0.28 | \$ 0.76 | \$ 1.41 | \$ 4.00 | \$ 9.02 |
| WisdomTree Japan Hedged Equity Fund | DWJ | ETF | WisdomTree Investments | \$ (0.20) | \$ (0.24) | \$ (0.38) | \$ (0.02) | \$ (0.22) | \$ (0.58) | \$ (0.82) | \$ (3.59) | \$ (0.22) | \$ (0.78) | \$ (3.34) | \$ (10.93) | \$ (5.39) | \$ 4.58 | \$ 4.62 | \$ 5.26 |
| iShares MSCI Brazil ETF | EWZ | ETF | BlackRock, Inc. | \$ (0.36) | \$ (0.34) | \$ 0.11 | \$ 2.44 | \$ (0.18) | \$ (0.72) | \$ (1.04) | \$ (0.42) | \$ (0.18) | \$ (0.74) | \$ 0.86 | \$ 3.31 | \$ 2.30 | \$ 2.94 | \$ 7.78 | \$ 5.53 |

Fixed Income ETFs

Top 5 Fixed Income 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 iBoxx \$ High Yield Corporate Bond ETF | HYG | ETF | BlackRock, Inc. | \$ 0.23 | \$ 1.51 | \$ (0.06) | \$ (1.43) | \$ 0.34 | \$ 1.26 | \$ 2.77 | \$ (0.53) | \$ 0.34 | \$ 1.55 | \$ (0.69) | \$ 4.43 | \$ 2.79 | \$ 15.08 | \$ 16.07 | \$ 17.07 | 56.61% |
| iShares J.P. Morgan USD Emerging Markets Bond ETF | EMB | ETF | BlackRock, Inc. | \$ 0.21 | \$ 0.93 | \$ 1.02 | \$ 3.81 | \$ 0.20 | \$ 0.26 | \$ 1.19 | \$ 2.40 | \$ 0.20 | \$ 0.55 | \$ 2.86 | \$ 9.93 | \$ 10.36 | \$ 14.12 | \$ 14.22 | \$ 13.74 | 19.95% |
| iShares 7-10 Year Treasury Bond ETF | IEF | ETF | BlackRock, Inc. | \$ (0.13) | \$ 0.20 | \$ 0.47 | \$ 0.18 | \$ (0.06) | \$ 0.30 | \$ 0.51 | \$ 1.57 | \$ (0.06) | \$ 0.30 | \$ 2.00 | \$ 2.12 | \$ 5.05 | \$ 6.09 | \$ 8.66 | \$ 9.15 | 11.05% |
| iShares Short Treasury Bond ETF | SHV | ETF | BlackRock, Inc. | \$ (0.06) | \$ 0.07 | \$ 3.35 | \$ 4.04 | \$ 0.18 | \$ 0.25 | \$ 0.32 | \$ 7.33 | \$ 0.18 | \$ 0.26 | \$ 9.53 | \$ 13.02 | \$ 11.45 | \$ 14.04 | \$ 15.27 | \$ 15.37 | 9.67% |
| iShares iBoxx \$ Investment Grade Corporate Bond ETF | LQD | ETF | BlackRock, Inc. | \$ 0.82 | \$ 0.87 | \$ 1.83 | \$ 10.78 | \$ 0.21 | \$ 0.35 | \$ 1.22 | \$ (2.65) | \$ 0.21 | \$ 0.26 | \$ (2.56) | \$ 13.83 | \$ 17.14 | \$ 28.74 | \$ 32.87 | \$ 34.92 | 9.38% |

Top 5 Fixed Income 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. | Fixed Income | 104 | | 84 | \$ 1.25 | \$ 5.12 | \$ 15.61 | \$ 53.61 | \$ 1.33 | \$ 3.03 | \$ 8.15 | \$ 27.23 | \$ 1.33 | \$ 2.74 | \$ 40.48 | \$ 135.77 | \$ 169.17 | \$ 245.32 | \$ 285.92 | \$ 290.25 |
| Vanguard | Fixed Income | 17 | | 17 | \$ (0.10) | \$ 1.48 | \$ 4.20 | \$ 39.42 | \$ 0.29 | \$ 1.02 | \$ 2.50 | \$ 11.02 | \$ 0.29 | \$ 1.07 | \$ 24.08 | \$ 83.50 | \$ 111.26 | \$ 155.59 | \$ 159.01 | \$ 156.42 |
| SSGA Funds Management, Inc | Fixed Income | 37 | | 30 | \$ 0.17 | \$ 0.21 | \$ 3.45 | \$ 7.55 | \$ 0.04 | \$ 0.60 | \$ 0.81 | \$ 5.81 | \$ 0.04 | \$ 0.92 | \$ 10.08 | \$ 21.55 | \$ 29.17 | \$ 50.93 | \$ 53.77 | \$ 52.42 |
| First Trust Advisors LP | Fixed Income | 11 | | 11 | \$ 0.20 | \$ 0.25 | \$ 0.92 | \$ 2.67 | \$ 0.11 | \$ 0.48 | \$ 0.73 | \$ 2.35 | \$ 0.11 | \$ 0.54 | \$ 3.27 | \$ 6.97 | \$ 7.83 | \$ 7.95 | \$ 7.95 | \$ 7.88 |
| Charles Schwab Investment Management | Fixed Income | 4 | | 4 | \$ 0.12 | \$ 0.33 | \$ 4.07 | \$ 3.97 | \$ 0.19 | \$ 0.48 | \$ 0.81 | \$ 5.87 | \$ 0.19 | \$ 0.53 | \$ 7.58 | \$ 13.22 | \$ 15.47 | \$ 17.03 | \$ 17.03 | \$ 16.83 |

Top 5 Fixed Income 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 | Fixed Income | 25 | | 15 | \$ (0.01) | \$ (0.12) | \$ (0.33) | \$ 0.33 | \$ 0.02 | \$ (0.05) | \$ (0.17) | \$ (0.11) | \$ 0.02 | \$ (0.13) | \$ (0.11) | \$ (0.73) | \$ 0.83 | \$ 11.10 | \$ 11.52 | \$ 3.55 |
| Northern Trust | Fixed Income | 7 | | 7 | \$ (0.02) | \$ (0.25) | \$ 0.18 | \$ 0.43 | \$ (0.02) | \$ (0.09) | \$ (0.34) | \$ (0.01) | \$ (0.02) | \$ (0.12) | \$ 0.05 | \$ 0.52 | \$ 0.85 | \$ 3.28 | \$ 3.28 | \$ 3.14 |
| Invesco PowerShares Capital Management | Fixed Income | 50 | | 48 | \$ (0.12) | \$ 0.40 | \$ (0.34) | \$ 5.41 | \$ 0.05 | \$ (0.32) | \$ 0.08 | \$ 0.48 | \$ 0.05 | \$ (0.07) | \$ 0.81 | \$ 14.71 | \$ 18.16 | \$ 28.26 | \$ 28.77 | \$ 27.90 |
| ALPS Advisors, Inc. | Fixed Income | 3 | | 3 | \$ - | \$ (0.01) | \$ 0.06 | \$ 0.07 | \$ - | \$ (0.04) | \$ (0.05) | \$ (0.03) | \$ - | \$ (0.04) | \$ 0.01 | \$ (0.13) | \$ 0.38 | \$ 0.38 | \$ 0.38 | \$ 0.37 |
| Vident Financial, LLC | Fixed Income | 1 | | 1 | \$ - | \$ (0.04) | \$ 0.01 | \$ 0.08 | \$ - | \$ (0.03) | \$ (0.07) | \$ (0.01) | \$ - | \$ (0.03) | \$ 0.01 | \$ 0.13 | \$ 0.56 | \$ 0.56 | \$ 0.56 | \$ 0.54 |

Top 5 Fixed Income 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 iBoxx \$ High Yield Corporate Bond ETF | HYG | ETF | BlackRock, Inc. | \$ 0.23 | \$ 1.51 | \$ (0.06) | \$ (1.43) | \$ 0.34 | \$ 1.26 | \$ 2.77 | \$ (0.53) | \$ 0.34 | \$ 1.55 | \$ (0.69) | \$ 4.43 | \$ 2.79 | \$ 15.08 | \$ 16.07 | \$ 17.07 |
| iShares J.P. Morgan USD Emerging Markets Bond ETF | EMB | ETF | BlackRock, Inc. | \$ 0.21 | \$ 0.93 | \$ 1.02 | \$ 3.81 | \$ 0.20 | \$ 0.26 | \$ 1.19 | \$ 2.40 | \$ 0.20 | \$ 0.55 | \$ 2.86 | \$ 9.93 | \$ 10.36 | \$ 14.12 | \$ 14.22 | \$ 13.74 |
| JPMorgan Ultra-Short Income ETF | JPST</ | | | | | | | | | | | | | | | | | | |

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 | | |
|-------------------------------------------------------------|------|------|-----------------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-----------------------------|---------|--------|
| GraniteShares Gold Trust | BAR | ETF | GraniteShares Advisors LLC. | \$ - | \$ 0.02 | \$ 0.25 | \$ 0.01 | \$ - | \$ 0.01 | \$ 0.03 | \$ 0.29 | \$ - | \$ 0.02 | \$ 0.29 | \$ 0.29 | \$ 0.29 | \$ 0.29 | \$ 0.29 | \$ 0.29 | \$ 0.27 | 86.61% | |
| GraniteShares Bloomberg Commodity Broad Strategy No K-1 ETF | COMB | ETF | GraniteShares Advisors LLC. | \$ - | \$ 0.01 | \$ 0.00 | \$ 0.01 | \$ 0.00 | \$ 0.00 | \$ 0.02 | \$ 0.04 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.04 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.04 | \$ 0.04 | 13.39% |

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 (\$) | |
|-----------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|---------|
| GraniteShares Advisors LLC. | Commodity | 4 | 4 | \$ - | \$ 0.03 | \$ 0.25 | \$ 0.02 | \$ 0.00 | \$ 0.02 | \$ 0.05 | \$ 0.33 | \$ 0.00 | \$ 0.03 | \$ 0.34 | \$ 0.35 | \$ 0.35 | \$ 0.35 | \$ 0.35 | \$ 0.35 | \$ 0.33 |
| Perth Mint | Commodity | 1 | 1 | \$ 0.01 | NULL | NULL | NULL | \$ - | \$ 0.01 | \$ 0.01 | \$ - | \$ - | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.01 |
| Dirivion Shares | Commodity | 3 | 1 | \$ - | \$ 0.00 | \$ 0.00 | \$ 0.03 | \$ - | \$ - | \$ 0.00 | \$ 0.02 | \$ - | \$ 0.00 | \$ 0.04 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 |
| Merck Investments, LLC | Commodity | 1 | 1 | \$ - | \$ 0.00 | \$ 0.01 | \$ 0.01 | \$ - | \$ - | \$ 0.00 | \$ 0.01 | \$ - | \$ 0.00 | \$ 0.02 | \$ 0.07 | \$ 0.15 | \$ 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 | \$ (0.53) | \$ (0.75) | \$ (1.07) | \$ 0.92 | \$ (0.29) | \$ (1.37) | \$ (2.12) | \$ (2.78) | \$ (0.29) | \$ (1.46) | \$ (1.11) | \$ 4.14 | \$ (4.86) | \$ 0.25 | \$ 12.58 | \$ 29.64 |
| United States Commodities Fund LLC | Commodity | 14 | 13 | \$ (0.02) | \$ 0.10 | \$ (0.19) | \$ (1.05) | \$ (0.07) | \$ (0.23) | \$ (0.13) | \$ (0.99) | \$ (0.07) | \$ (0.26) | \$ (1.81) | \$ (1.36) | \$ 1.75 | \$ 6.88 | \$ 8.78 | \$ 2.92 |
| Invesco Optimum Yield Diversified Commodity Strategy No K-1 ETF | Commodity | 10 | 9 | \$ (0.12) | \$ (0.29) | \$ 0.87 | \$ (0.46) | \$ (0.11) | \$ (0.15) | \$ (0.44) | \$ 1.51 | \$ (0.11) | \$ (0.14) | \$ 1.70 | \$ 1.68 | \$ (0.10) | \$ 4.96 | \$ 8.61 | \$ 6.27 |
| BlackRock, Inc. | Commodity | 6 | 6 | \$ (0.04) | \$ (0.14) | \$ (0.04) | \$ 1.92 | \$ 0.01 | \$ (0.10) | \$ (0.24) | \$ 0.87 | \$ 0.01 | \$ (0.10) | \$ 1.91 | \$ 4.99 | \$ 4.39 | \$ 12.59 | \$ 17.40 | \$ 16.42 |
| Barclays Bank PLC | Commodity | 58 | 23 | \$ (0.03) | \$ (0.15) | \$ (0.84) | \$ 0.07 | \$ (0.02) | \$ (0.09) | \$ (0.24) | \$ (1.18) | \$ (0.00) | \$ (0.08) | \$ (1.04) | \$ (1.00) | \$ (0.09) | \$ 0.31 | \$ 4.05 | \$ 1.31 |

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 (\$) | |
|-----------------------------------------------------------------|------|------|----------------------------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|---------|
| VelocityShares 3x Inverse Natural Gas | DGAZ | ETN | Credit Suisse AG | \$ 0.05 | \$ (0.15) | \$ 0.20 | \$ (0.14) | \$ 0.03 | \$ 0.20 | \$ 0.04 | \$ 0.25 | \$ 0.03 | \$ 0.20 | \$ 0.30 | \$ 0.46 | \$ 0.58 | \$ 0.61 | \$ 0.61 | \$ 0.37 | |
| Invesco Optimum Yield Diversified Commodity Strategy No K-1 ETF | PDBC | ETF | Invesco PowerShares Capital Management | \$ 0.02 | \$ 0.04 | \$ 0.81 | \$ 0.27 | \$ 0.01 | \$ 0.13 | \$ 0.17 | \$ 1.37 | \$ 0.01 | \$ 0.14 | \$ 1.60 | \$ 2.07 | \$ 2.08 | \$ 2.08 | \$ 2.08 | \$ 2.08 | \$ 2.12 |
| ETFs Physical Platinum Shares | PPLT | ETF | Aberdeen Standard Investments | \$ 0.02 | \$ 0.05 | \$ (0.05) | \$ 0.08 | \$ - | \$ 0.04 | \$ 0.09 | \$ 0.00 | \$ - | \$ 0.04 | \$ 0.05 | \$ 0.11 | \$ 0.03 | \$ 0.97 | \$ 0.97 | \$ 0.49 | |
| GraniteShares Gold Trust | BAR | ETF | GraniteShares Advisors LLC. | \$ - | \$ 0.02 | \$ 0.25 | \$ 0.01 | \$ - | \$ 0.01 | \$ 0.03 | \$ 0.29 | \$ - | \$ 0.02 | \$ 0.29 | \$ 0.29 | \$ 0.29 | \$ 0.29 | \$ 0.29 | \$ 0.29 | \$ 0.27 |
| ProShares UltraPro 3x Crude Oil ETF | OILL | ETF | ProShares Advisors LLC | \$ - | \$ (0.00) | \$ 0.02 | \$ 0.00 | \$ - | \$ 0.01 | \$ 0.01 | \$ 0.03 | \$ - | \$ 0.01 | \$ 0.02 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.05 |

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 | \$ (0.53) | \$ (0.75) | \$ (1.07) | \$ 0.92 | \$ (0.29) | \$ (1.37) | \$ (2.12) | \$ (2.78) | \$ (0.29) | \$ (1.46) | \$ (1.11) | \$ 4.14 | \$ (4.86) | \$ 0.25 | \$ 12.58 | \$ 29.64 |
| VelocityShares 3x Long Natural Gas | UGAZ | ETN | Credit Suisse AG | \$ (0.02) | \$ 0.19 | \$ (0.24) | \$ 1.75 | \$ (0.01) | \$ (0.19) | \$ (0.00) | \$ (0.65) | \$ (0.01) | \$ (0.24) | \$ 0.17 | \$ 1.36 | \$ 29.50 | \$ 33.38 | \$ 33.38 | \$ 0.32 |
| Invesco DB Commodity Index Tracking Fund | DBC | ETF | Invesco PowerShares Capital Management | \$ (0.06) | \$ (0.23) | \$ 0.16 | \$ (0.43) | \$ (0.03) | \$ (0.23) | \$ (0.46) | \$ 0.20 | \$ (0.03) | \$ (0.24) | \$ 0.33 | \$ (0.26) | \$ (1.90) | \$ 2.85 | \$ 4.22 | \$ 2.47 |
| United States Natural Gas Fund | UNG | ETF | United States Commodities Fund LLC | \$ (0.03) | \$ 0.07 | \$ (0.05) | \$ 0.34 | \$ 0.00 | \$ (0.11) | \$ (0.04) | \$ (0.41) | \$ 0.00 | \$ (0.11) | \$ (0.16) | \$ (0.04) | \$ (0.26) | \$ 4.26 | \$ 5.34 | \$ 0.30 |
| iPath Dow Jones-UBS Commodity ETN | DJP | ETN | Barclays Bank PLC | \$ (0.03) | \$ (0.16) | \$ 0.12 | \$ 0.00 | \$ (0.01) | \$ (0.10) | \$ (0.26) | \$ 0.04 | \$ (0.01) | \$ (0.09) | \$ 0.22 | \$ (0.08) | \$ 0.03 | \$ (0.34) | \$ 2.46 | \$ 0.90 |

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 |
|--------------------------------------------|-----|------|----------------------------------------|----------------|-----------------|-------------------|----------------|-----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-----------------------------|
| Invesco DB US Dollar Index Bullish Fund | UUP | ETF | Invesco PowerShares Capital Management | \$ 0.03 | \$ (0.01) | \$ (0.02) | \$ (0.25) | \$ 0.03 | \$ 0.06 | \$ 0.05 | \$ (0.00) | \$ 0.03 | \$ 0.05 | \$ (0.05) | \$ (0.78) | \$ (0.47) | \$ (0.36) | \$ 0.36 | \$ 0.56 | 146.32% |
| Invesco CurrencyShares* Japanese Yen Trust | FXJ | ETF | Invesco PowerShares Capital Management | \$ - | \$ (0.05) | \$ (0.01) | \$ (0.03) | \$ 0.01 | \$ 0.01 | \$ (0.03) | \$ 0.03 | \$ 0.01 | \$ 0.01 | \$ 0.02 | \$ (0.01) | \$ 0.01 | \$ (0.81) | \$ (0.09) | \$ 0.13 | 41.02% |
| Invesco CurrencyShares* Swiss Franc Trust | FXF | ETF | Invesco PowerShares Capital Management | \$ - | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ - | \$ 0.00 | \$ 0.01 | \$ 0.02 | \$ - | \$ 0.01 | \$ 0.02 | \$ 0.02 | \$ (0.08) | \$ (0.39) | \$ 0.15 | \$ 0.17 | 30.03% |
| Invesco DB US Dollar Index Bearish Fund | UDN | ETF | Invesco PowerShares Capital Management | \$ (0.00) | \$ 0.00 | \$ (0.00) | \$ 0.00 | \$ (0.00) | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ (0.00) | \$ 0.00 | \$ (0.01) | \$ (0.01) | \$ (0.02) | \$ (0.03) | \$ 0.04 | \$ 0.03 | 0.06% |

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 (\$) |
|----------------------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Invesco PowerShares Capital Management | Currency | 12 | 12 | \$ 0.01 | \$ (0.05) | \$ (0.11) | \$ (0.48) | \$ 0.03 | \$ 0.03 | \$ (0.03) | \$ (0.05) | \$ 0.03 | \$ 0.03 | \$ (0.29) | \$ (0.87) | \$ (1.03) | \$ (2.82) | \$ 1.35 | \$ 1.62 |

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 (\$) |
|------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|-----------|-----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| ProShares Advisors LLC | Currency | 7 | 6 | \$ (0.01) | \$ (0.01) | \$ (0.04) | \$ (0.23) | \$ 0.00 | \$ (0.01) | \$ (0.02) | \$ (0.11) | \$ 0.00 | \$ (0.01) | \$ (0.15) | \$ (0.74) | \$ (1.02) | \$ (0.08) | \$ (0.08) | \$ 0.27 |
| WisdomTree Investments | Currency | 8 | 4 | \$ - | \$ (0.00) | \$ 0.03 | \$ (0.12) | \$ - | \$ (0.00) | \$ (0.01) | \$ (0.05) | \$ - | \$ (0.00) | \$ (0.08) | \$ (0.40) | \$ (0.29) | \$ (0.12) | \$ 0.33 | \$ 0.17 |

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 | \$ 0.03 | \$ (0.01) | \$ (0.02) | \$ (0.25) | \$ 0.03 | \$ 0.06 | \$ 0.05 | \$ (0.00) | \$ 0.03 | \$ 0.05 | \$ (0.05) | \$ (0.78) | \$ (0.47) | \$ (0.36) | \$ 0.36 | \$ 0.56 |
| Invesco CurrencyShares* Japanese Yen Trust | FXJ | ETF | Invesco PowerShares Capital Management | \$ - | \$ (0.05) | \$ (0.01) | \$ (0.03) | \$ 0.01 | \$ 0.01 | \$ (0.03) | \$ 0.03 | \$ 0.01 | \$ 0.01 | \$ 0.02 | \$ (0.01) | \$ 0.01 | \$ (0.81) | \$ (0.09) | \$ 0.13 |
| Invesco CurrencyShares* Swiss Franc Trust | FXF | ETF | Invesco PowerShares Capital Management | \$ - | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ - | \$ 0.00 | \$ 0.01 | \$ 0.02 | \$ - | \$ 0.01 | \$ 0.02 | \$ 0.02 | \$ (0.08) | \$ (0.39) | \$ 0.15 | \$ 0.17 |
| Invesco DB US Dollar Index Bearish Fund | UDN | ETF | Invesco PowerShares Capital Management | \$ (0.00) | \$ 0.00 | \$ (0.00) | \$ 0.00 | \$ (0.00) | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ (0.00) | \$ 0.00 | \$ (0.01) | \$ (0.01) | \$ (0.02) | \$ (0.03) | \$ 0.04 | \$ 0.03 |

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) | \$ 0.00 | \$ (0.05) | \$ 0.01 | \$ - | \$ (0.03) | \$ (0.03) | \$ (0.02) | \$ - | \$ (0.02) | \$ (0.09) | \$ (0.00) | \$ 0.04 | \$ (0.59) | \$ 0.23 | \$ 0.24 |
| Invesco CurrencyShares* Canadian Dollar Trust | FXC | ETF | Invesco PowerShares Capital Management | \$ - | \$ (0.00) | \$ (0.00) | \$ (0.03) | \$ (0.00) | \$ (0.01) | \$ (0.01) | \$ (0.01) | \$ (0.00) | \$ (0.01) | \$ (0.03) | \$ (0.07) | \$ (0.16) | \$ (0.01) | \$ 0.19 | \$ 0.16 |
| Invesco CurrencyShares* Australian Dollar Trust | FXA | ETF | Invesco PowerShares Capital Management | \$ - | \$ 0.00 | \$ 0.00 | \$ (0.05) | \$ (0.01) | \$ (0.01) | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ (0.01) | \$ (0.04) | \$ (0.06) | \$ (0.19) | \$ (0.26) | \$ 0.12 | \$ 0.12 |
| WisdomTree Chinese Yuan Fund | CYB | ETF | WisdomTree Investments | \$ - | \$ 0.00 | \$ 0.00 | \$ (0.01) | \$ - | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ - | \$ (0.00) | \$ (0.01) | \$ (0.06) | \$ (0.18) | \$ (0.25) | \$ 0.03 | \$ 0.03 |
| ProShares UltraShort Yen | YCS | ETF | ProShares Advisors LLC | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ (0.12) | \$ - | \$ (0.00) | \$ (0.01) | \$ (0.05) | \$ - | \$ (0.00) | \$ (0.07) | \$ (0.30) | \$ (0.55) | \$ (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 (\$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 U.S. Real Estate ETF | IYR | ETF | BlackRock, Inc. | \$ (0.09) | \$ 0.32 | \$ (0.09) | \$ (0.45) | \$ 0.15 | \$ 0.52 | \$ 0.84 | \$ 0.69 | \$ 0.15 | \$ 0.46 | \$ 0.25 | \$ (0.00) | \$ (0.52) | \$ 1.12 | \$ 2.79 | \$ 4.66 | 75.36% | |
| iShares Global REIT ETF | REET | ETF | BlackRock, Inc. | \$ - | \$ 0.04 | \$ 0.20 | \$ 0.56 | \$ 0.04 | \$ 0.10 | \$ 0.14 | \$ 0.45 | \$ 0.04 | \$ 0.11 | \$ 0.85 | \$ 1.23 | \$ 1.26 | \$ 1.26 | \$ 1.26 | \$ 1.29 | \$ 1.29 | 18.13% |
| iShares Residential Real Estate ETF | REZ | ETF | BlackRock, Inc. | \$ 0.02 | \$ 0.00 | \$ (0.01) | \$ 0.00 | \$ 0.01 | \$ 0.03 | \$ 0.03 | \$ (0.04) | \$ 0.01 | \$ 0.03 | \$ (0.07) | \$ 0.06 | \$ (0.06) | \$ 0.24 | \$ 0.25 | \$ 0.33 | \$ 4.80% | |
| iShares Mortgage Real Estate ETF | REM | ETF | BlackRock, Inc. | \$ (0.00) | \$ 0.01 | \$ 0.07 | \$ (0.10) | \$ 0.01 | \$ 0.03 | \$ 0.03 | \$ 0.02 | \$ 0.01 | \$ 0.03 | \$ (0.12) | \$ 0.06 | \$ 0.30 | \$ 1.47 | \$ 1.51 | \$ 1.17 | \$ 4.77% | |
| iShares Cohen & Steers REIT ETF | ICF | ETF | BlackRock, Inc. | \$ 0.03 | \$ (0.02) | \$ (0.20) | \$ (0.49) | \$ - | \$ 0.01 | \$ (0.00) | \$ (0.42) | \$ - | \$ 0.01 | \$ (0.64) | \$ (0.75) | \$ (0.85) | \$ (0.62) | \$ 1.51 | \$ 2.61 | \$ 2.44% | |

Top 5 Real Estate 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. | Real Estate | 13 | | 9 | \$ (0.06) | \$ 0.53 | \$ 0.02 | \$ (0.03) | \$ 0.21 | \$ 0.65 | \$ 1.18 | \$ 1.01 | \$ 0.21 | \$ 0.61 | \$ 0.81 | \$ 0.79 | \$ 0.60 | \$ 4.48 | \$ 8.72 | \$ 11.51 |
| Vanguard | Real Estate | 2 | | 2 | \$ 0.00 | \$ 0.84 | \$ (0.22) | \$ 3.67 | \$ 0.13 | \$ 0.15 | \$ 0.99 | \$ (1.15) | \$ 0.13 | \$ 0.18 | \$ 0.20 | \$ 8.33 | \$ 15.99 | \$ 28.80 | \$ 31.40 | \$ 38.88 |
| Charles Schwab Investment Management | Real Estate | 1 | | 1 | \$ 0.10 | \$ 0.05 | \$ 0.19 | \$ 1.13 | \$ 0.01 | \$ 0.12 | \$ 0.18 | \$ 0.60 | \$ 0.01 | \$ 0.13 | \$ 0.97 | \$ 2.86 | \$ 3.73 | \$ 4.26 | \$ 4.26 | \$ 4.79 |
| Fidelity Management & Research | Real Estate | 1 | | 1 | \$ 0.00 | \$ 0.03 | \$ 0.12 | \$ 0.20 | \$ 0.00 | \$ 0.10 | \$ 0.13 | \$ 0.15 | \$ 0.00 | \$ 0.11 | \$ 0.20 | \$ 0.56 | \$ 0.59 | \$ 0.59 | \$ 0.59 | \$ 0.61 |
| UBS Global Asset Management | Real Estate | 4 | | 3 | \$ - | \$ 0.01 | \$ 0.02 | \$ 0.09 | \$ 0.00 | \$ 0.01 | \$ 0.02 | \$ 0.08 | \$ 0.00 | \$ 0.01 | \$ 0.11 | \$ 0.14 | \$ 0.48 | \$ 0.60 | \$ 0.60 | \$ 0.49 |

Top 5 Real Estate 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 | Real Estate | 5 | | 4 | \$ (0.05) | \$ (0.04) | \$ (0.26) | \$ (0.33) | \$ (0.09) | \$ (0.17) | \$ (0.21) | \$ (0.94) | \$ (0.09) | \$ (0.19) | \$ (1.24) | \$ 0.83 | \$ 3.30 | \$ 7.59 | \$ 10.30 | \$ 10.82 |
| First Trust Advisors LP | Real Estate | 3 | | 3 | \$ - | \$ 0.02 | \$ (0.04) | \$ (0.09) | \$ (0.00) | \$ (0.00) | \$ 0.02 | \$ (0.05) | \$ (0.00) | \$ (0.00) | \$ (0.10) | \$ (0.16) | \$ (0.18) | \$ 0.04 | \$ 0.05 | \$ 0.07 |
| Direxion Shares | Real Estate | 2 | | 2 | \$ - | \$ (0.00) | \$ (0.04) | \$ (0.01) | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ (0.06) | \$ (0.14) | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ 0.17 |
| IndexIQ Advisors | Real Estate | 1 | | 1 | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ 0.02 | \$ - | \$ (0.00) | \$ (0.00) | \$ (0.02) | \$ - | \$ (0.00) | \$ (0.03) | \$ (0.00) | \$ 0.04 | \$ 0.08 | \$ 0.08 | \$ 0.09 |
| ALPS Advisors, Inc. | Real Estate | 1 | | 1 | \$ - | \$ - | \$ (0.00) | \$ (0.02) | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ (0.05) | \$ (0.06) | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.06 |

Top 5 Real Estate 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 U.S. Real Estate ETF | IYR | ETF | BlackRock, Inc. | \$ (0.09) | \$ 0.32 | \$ (0.09) | \$ (0.45) | \$ 0.15 | \$ 0.52 | \$ 0.84 | \$ 0.69 | \$ 0.15 | \$ 0.46 | \$ 0.25 | \$ (0.00) | \$ (0.52) | \$ 1.12 | \$ 2.79 | \$ 4.66 | |
| Vanguard Real Estate Index Fund | VNQ | ETF | Vanguard | \$ 0.00 | \$ 0.85 | \$ (0.55) | \$ 1.97 | \$ 0.13 | \$ 0.18 | \$ 1.03 | \$ (1.73) | \$ 0.13 | \$ 0.21 | \$ 0.21 | \$ 5.78 | \$ 10.93 | \$ 22.93 | \$ 25.54 | \$ 32.94 | |
| Schwab US REIT ETF | SCHH | ETF | Charles Schwab Investment Management | \$ 0.10 | \$ 0.05 | \$ 0.19 | \$ 1.13 | \$ 0.01 | \$ 0.12 | \$ 0.18 | \$ 0.60 | \$ 0.01 | \$ 0.13 | \$ 0.97 | \$ 2.86 | \$ 3.73 | \$ 4.26 | \$ 4.26 | \$ 4.79 | |
| iShares Global REIT ETF | REET | ETF | BlackRock, Inc. | \$ - | \$ 0.04 | \$ 0.20 | \$ 0.56 | \$ 0.04 | \$ 0.10 | \$ 0.14 | \$ 0.45 | \$ 0.04 | \$ 0.11 | \$ 0.85 | \$ 1.23 | \$ 1.26 | \$ 1.26 | \$ 1.26 | \$ 1.29 | |
| Fidelity MSCI Real Estate Index ETF | FREL | ETF | Fidelity Management & Research | \$ 0.00 | \$ 0.03 | \$ 0.12 | \$ 0.20 | \$ 0.00 | \$ 0.10 | \$ 0.13 | \$ 0.15 | \$ 0.00 | \$ 0.11 | \$ 0.20 | \$ 0.56 | \$ 0.59 | \$ 0.59 | \$ 0.59 | \$ 0.59 | \$ 0.61 |

Top 5 Real Estate 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 Dow Jones REIT ETF | RWR | ETF | SSGA Funds Management, Inc | \$ (0.01) | \$ (0.01) | \$ (0.01) | \$ (0.51) | \$ - | \$ (0.07) | \$ (0.08) | \$ (0.33) | \$ - | \$ (0.11) | \$ (0.46) | \$ (0.64) | \$ (0.28) | \$ 0.28 | \$ 1.67 | \$ 2.54 | |
| SPDR DJ Wilshire International Real Estate ETF | RWX | ETF | SSGA Funds Management, Inc | \$ (0.02) | \$ (0.11) | \$ (0.02) | \$ (0.08) | \$ (0.05) | \$ (0.08) | \$ (0.19) | \$ (0.44) | \$ (0.05) | \$ (0.08) | \$ (0.57) | \$ (1.60) | \$ (0.39) | \$ 2.43 | \$ 3.74 | \$ 3.19 | |
| Vanguard Global ex-U.S. Real Estate Index Fund | VNQI | ETF | Vanguard | \$ 0.00 | \$ (0.02) | \$ 0.32 | \$ 1.70 | \$ - | \$ (0.03) | \$ (0.05) | \$ 0.59 | \$ - | \$ (0.03) | \$ 1.32 | \$ 2.55 | \$ 5.06 | \$ 5.86 | \$ 5.86 | \$ 5.94 | |
| iShares Core U.S. REIT ETF | USRT | ETF | BlackRock, Inc. | \$ (0.01) | \$ 0.18 | \$ 0.05 | \$ 0.27 | \$ 0.01 | \$ (0.03) | \$ 0.15 | \$ 0.38 | \$ 0.01 | \$ (0.02) | \$ 0.57 | \$ 0.64 | \$ 0.62 | \$ 0.68 | \$ 0.70 | \$ 0.75 | |
| Invesco China Real Estate ETF | TAO | ETF | Invesco PowerShares Capital Management | \$ (0.00) | \$ (0.02) | \$ 0.01 | \$ 0.01 | \$ (0.00) | \$ (0.01) | \$ (0.03) | \$ (0.01) | \$ (0.00) | \$ (0.01) | \$ (0.00) | \$ (0.00) | \$ 0.02 | \$ 0.01 | \$ 0.01 | \$ 0.05 | \$ 0.05 |

Multi-Asset ETFs

Top 5 Multi-Asset 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 | |
|-----------------------------------|------|------|---------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|-----------------------------|--------|
| Pacer Trendpliot US Large Cap ETF | PTLC | ETF | Pacer Advisors, Inc | \$ 0.01 | \$ 0.05 | \$ 0.18 | \$ 0.24 | \$ 0.01 | \$ 0.04 | \$ 0.09 | \$ 0.41 | \$ 0.01 | \$ 0.05 | \$ 0.56 | \$ 0.81 | \$ 1.05 | \$ 1.05 | \$ 1.05 | \$ 1.05 | \$ 1.23 | 45.82% |
| Pacer Trendpliot US Mid Cap ETF | PTMC | ETF | Pacer Advisors, Inc | \$ 0.01 | \$ 0.02 | \$ 0.06 | \$ 0.17 | \$ 0.01 | \$ 0.03 | \$ 0.05 | \$ 0.17 | \$ 0.01 | \$ 0.03 | \$ 0.23 | \$ 0.43 | \$ 0.53 | \$ 0.53 | \$ 0.53 | \$ 0.53 | \$ 0.64 | 32.50% |
| Pacer Trendpliot 100 ETF | PTNQ | ETF | Pacer Advisors, Inc | \$ 0.01 | \$ 0.02 | \$ 0.05 | \$ 0.06 | \$ 0.00 | \$ 0.01 | \$ 0.03 | \$ 0.13 | \$ 0.00 | \$ 0.02 | \$ 0.17 | \$ 0.21 | \$ 0.26 | \$ 0.26 | \$ 0.26 | \$ 0.26 | \$ 0.31 | 17.99% |
| Pacer WealthShield ETF | PWS | ETF | Pacer Advisors, Inc | \$ (0.00) | \$ 0.00 | \$ 0.02 | \$ 0.03 | \$ - | \$ 0.00 | \$ 0.01 | \$ 0.06 | \$ - | \$ 0.00 | \$ 0.08 | \$ 0.08 | \$ 0.08 | \$ 0.08 | \$ 0.08 | \$ 0.08 | \$ 0.09 | 3.68% |

Top 5 Multi-Asset 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) |
|-----------------------------------------|-------------|--------|-------------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|
| Pacer Advisors, Inc | Multi-Asset | 6 | | 5 | \$ 0.03 | \$ 0.09 | \$ 0.34 | \$ 0.55 | \$ 0.03 | \$ 0.09 | \$ 0.18 | \$ 0.87 | \$ 0.11 | \$ 1.19 | \$ 1.72 | \$ 2.11 | \$ 2.11 | \$ 2.11 | \$ 2.44 |
| Aptus Capital Advisors, LLC | Multi-Asset | 2 | | 2 | \$ 0.03 | \$ 0.00 | \$ 0.01 | \$ 0.01 | \$ - | \$ 0.05 | \$ 0.05 | \$ 0.08 | \$ - | \$ 0.05 | \$ 0.08 | \$ 0.11 | \$ 0.11 | \$ 0.11 | \$ 0.12 |
| SSGA Funds Management, Inc | Multi-Asset | 4 | | 4 | \$ 0.00 | \$ 0.07 | \$ 0.05 | \$ 0.05 | \$ - | \$ 0.03 | \$ 0.09 | \$ 0.17 | \$ - | \$ 0.03 | \$ 0.18 | \$ 0.22 | \$ 0.36 | \$ 0.54 | \$ 0.53 |
| Mirae Asset Global Investments Co., Ltd | Multi-Asset | 8 | | 5 | \$ 0.01 | \$ 0.00 | \$ 0.01 | \$ (0.02) | \$ 0.00 | \$ 0.01 | \$ 0.02 | \$ 0.00 | \$ 0.02 | \$ (0.01) | \$ (0.05) | \$ 0.04 | \$ 0.07 | \$ 0.07 | \$ 0.08 |
| WisdomTree Investments | Multi-Asset | 6 | | 6 | \$ - | \$ 0.01 | \$ 0.00 | \$ 0.24 | \$ (0.00) | \$ 0.01 | \$ 0.02 | \$ (0.07) | \$ (0.00) | \$ 0.03 | \$ 0.19 | \$ 0.27 | \$ 0.47 | \$ 0.47 | \$ 0.42 |

Top 5 Multi-Asset 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) |
|--------------------------|-------------|--------|-------------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|
| WBI Investments, Inc. | Multi-Asset | 2 | | 2 | \$ - | \$ (0.01) | \$ 0.00 | \$ 0.06 | \$ (0.02) | \$ (0.02) | \$ (0.03) | \$ (0.01) | \$ (0.02) | \$ (0.01) | \$ 0.05 | \$ 0.28 | \$ 0.28 | \$ 0.28 | \$ 0.27 |
| BlackRock, Inc. | Multi-Asset | 16 | | 6 | \$ (0.00) | \$ 0.06 | \$ 0.36 | \$ 0.45 | \$ (0.01) | \$ (0.01) | \$ 0.05 | \$ 0.52 | \$ (0.01) | \$ 0.99 | \$ 2.22 | \$ 3.20 | \$ 4.09 | \$ 4.09 | \$ 4.50 |
| Innovator Management LLC | Multi-Asset | 1 | | 1 | \$ (0.00) | \$ (0.00) | \$ (0.01) | \$ 0.03 | \$ - | \$ (0.00) | \$ (0.01) | \$ 0.02 | \$ - | \$ (0.00) | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 | \$ 0.05 |
| IndexIQ Advisors | Multi-Asset | 6 | | 6 | \$ - | \$ (0.01) | \$ 0.05 | \$ (0.10) | \$ - | \$ 0.00 | \$ (0.01) | \$ 0.02 | \$ - | \$ (0.00) | \$ 0.08 | \$ 0.13 | \$ 0.67 | \$ 1.19 | \$ 1.19 |
| Arrow Funds | Multi-Asset | 2 | | 2 | \$ - | \$ (0.00) | \$ (0.01) | \$ (0.01) | \$ - | \$ (0.00) | \$ (0.02) | \$ - | \$ (0.00) | \$ (0.03) | \$ (0.08) | \$ 0.07 | \$ 0.15 | \$ 0.15 | \$ 0.15 |

Top 5 Multi-Asset 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) | |
|-----------------------------------|------|------|-----------------------------|-----------------|------------------|--------------------|-----------------|-----------|-----------|-----------|-----------|--------------|---------------|--------------|--------------|--------------|---------------|-----------------------|-------------------|---------|
| Pacer Trendpliot US Large Cap ETF | PTLC | ETF | Pacer Advisors, Inc | \$ 0.01 | \$ 0.05 | \$ 0.18 | \$ 0.24 | \$ 0.01 | \$ 0.04 | \$ 0.09 | \$ 0.41 | \$ 0.01 | \$ 0.05 | \$ 0.56 | \$ 0.81 | \$ 1.05 | \$ 1.05 | \$ 1.05 | \$ 1.05 | \$ 1.23 |
| Aptus Defined Risk ETF | DRSK | ETF | Aptus Capital Advisors, LLC | \$ 0.02 | NULL | NULL | NULL | \$ - | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ - | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.04 | \$ 0.04 |
| Pacer Trendpliot US Mid Cap ETF | PTMC | ETF | Pacer Advisors, Inc | \$ 0.01 | \$ 0.02 | \$ 0.06 | \$ 0.17 | \$ 0.01 | \$ 0.03 | \$ 0.05 | \$ 0.17 | \$ 0.01 | \$ 0.03 | \$ 0.23 | \$ 0.43 | \$ 0.53 | \$ 0.53 | \$ 0.53 | \$ 0.53 | \$ 0.64 |
| SPDR Gold MiniShares Trust | GLDM | ETF | SSGA Funds Management, Inc | \$ - | \$ 0.06 | \$ 0.03 | NULL | \$ - | \$ 0.03 | \$ 0.09 | \$ 0.12 | \$ - | \$ 0.03 | \$ 0.12 | \$ 0.12 | \$ 0.12 | \$ 0.12 | \$ 0.12 | \$ 0.12 | \$ 0.11 |
| | | | | | | | | | | | | | | | | | | | | |

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 |
|----------------------------------|------|------|-----------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-----------------------------|
| iShares U.S. Preferred Stock ETF | PFF | ETF | BlackRock, Inc. | \$ (0.01) | \$ 0.52 | \$ (0.22) | \$ 0.82 | \$ 0.08 | \$ 0.10 | \$ 0.62 | \$ (0.46) | \$ 0.08 | \$ 0.14 | \$ (0.79) | \$ 4.46 | \$ 7.69 | \$ 16.96 | \$ 17.35 | \$ 17.12 | 93.34% |
| iShares Convertible Bond ETF | ICVT | ETF | BlackRock, Inc. | \$ 0.01 | \$ - | \$ (0.10) | \$ 0.33 | \$ - | \$ 0.01 | \$ 0.01 | \$ (0.17) | \$ - | \$ 0.01 | \$ (0.05) | \$ 0.15 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.21 | 7.85% |

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 (\$) |
|------------------------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|-----------|----------|----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| BlackRock, Inc. | Hybrid | 3 | | \$ 0.00 | \$ 0.51 | \$ (0.33) | \$ 1.16 | \$ 0.08 | \$ 0.11 | \$ 0.62 | \$ (0.65) | \$ 0.08 | \$ 0.15 | \$ (0.85) | \$ 4.63 | \$ 7.89 | \$ 17.22 | \$ 17.62 | \$ 17.40 |
| SSGA Funds Management, Inc | Hybrid | 2 | | \$ 0.00 | \$ 0.28 | \$ 0.30 | \$ 0.59 | \$ (0.04) | \$ 0.05 | \$ 0.32 | \$ 0.60 | \$ (0.04) | \$ 0.10 | \$ 0.69 | \$ 1.71 | \$ 3.17 | \$ 4.78 | \$ 4.78 | \$ 5.45 |
| First Trust Advisors LP | Hybrid | 3 | | \$ 0.00 | \$ 0.05 | \$ 0.10 | \$ 1.74 | \$ 0.02 | \$ 0.03 | \$ 0.08 | \$ 0.58 | \$ 0.02 | \$ 0.03 | \$ 1.23 | \$ 3.52 | \$ 3.79 | \$ 3.87 | \$ 3.87 | \$ 3.82 |
| Van Eck Associates Corp | Hybrid | 1 | | \$ 0.00 | \$ 0.01 | \$ 0.02 | \$ 0.10 | \$ 0.00 | \$ 0.01 | \$ 0.02 | \$ 0.03 | \$ 0.00 | \$ 0.01 | \$ 0.09 | \$ 0.29 | \$ 0.42 | \$ 0.58 | \$ 0.58 | \$ 0.55 |
| Mirage Asset Global Investments Co., Ltd | Hybrid | 3 | | \$ 0.00 | \$ 0.01 | \$ 0.07 | \$ 0.03 | \$ (0.00) | \$ 0.00 | \$ 0.02 | \$ 0.09 | \$ (0.00) | \$ 0.01 | \$ 0.10 | \$ 0.11 | \$ 0.32 | \$ 0.39 | \$ 0.39 | \$ 0.33 |

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 | | \$ (0.01) | \$ 0.25 | \$ 0.13 | \$ 1.94 | \$ 0.00 | \$ (0.02) | \$ 0.23 | \$ 0.29 | \$ 0.00 | \$ (0.02) | \$ 0.72 | \$ 4.65 | \$ 5.32 | \$ 8.35 | \$ 8.83 | \$ 9.15 |
| Innovator Management LLC | Hybrid | 1 | | \$ - | \$ 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 (\$) |
|-------------------------------------------------|------|------|------------------------------------------|----------------|-----------------|-------------------|----------------|-----------|----------|----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| iShares U.S. Preferred Stock ETF | PFF | ETF | BlackRock, Inc. | \$ (0.01) | \$ 0.52 | \$ (0.22) | \$ 0.82 | \$ 0.08 | \$ 0.10 | \$ 0.62 | \$ (0.46) | \$ 0.08 | \$ 0.14 | \$ (0.79) | \$ 4.46 | \$ 7.69 | \$ 16.96 | \$ 17.35 | \$ 17.12 |
| SPDR Barclays Capital Convertible Bond ETF | CWB | ETF | SSGA Funds Management, Inc | \$ - | \$ 0.19 | \$ 0.23 | \$ 0.51 | \$ (0.04) | \$ 0.05 | \$ 0.24 | \$ 0.52 | \$ (0.04) | \$ 0.10 | \$ 0.36 | \$ 1.32 | \$ 2.77 | \$ 4.09 | \$ 4.09 | \$ 4.78 |
| First Trust Preferred Securities and Income ETF | FPE | ETF | First Trust Advisors LP | \$ 0.00 | \$ 0.03 | \$ 0.04 | \$ 1.66 | \$ 0.02 | \$ 0.03 | \$ 0.06 | \$ 0.42 | \$ 0.02 | \$ 0.03 | \$ 1.05 | \$ 3.27 | \$ 3.53 | \$ 3.61 | \$ 3.61 | \$ 3.55 |
| iShares Convertible Bond ETF | ICVT | ETF | BlackRock, Inc. | \$ 0.01 | \$ - | \$ (0.10) | \$ 0.33 | \$ - | \$ 0.01 | \$ 0.01 | \$ (0.17) | \$ - | \$ 0.01 | \$ (0.05) | \$ 0.15 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.21 |
| Global X U.S. Preferred ETF | PPFD | ETF | Mirage Asset Global Investments Co., Ltd | \$ 0.00 | \$ 0.01 | \$ 0.08 | \$ 0.03 | \$ - | \$ 0.01 | \$ 0.02 | \$ 0.10 | \$ - | \$ 0.01 | \$ 0.13 | \$ 0.13 | \$ 0.13 | \$ 0.13 | \$ 0.13 | \$ 0.13 |

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 | PFF | ETF | BlackRock, Inc. | \$ (0.01) | \$ 0.52 | \$ (0.22) | \$ 0.82 | \$ 0.08 | \$ 0.10 | \$ 0.62 | \$ (0.46) | \$ 0.08 | \$ 0.14 | \$ (0.79) | \$ 4.46 | \$ 7.69 | \$ 16.96 | \$ 17.35 | \$ 17.12 |
| SPDR Barclays Capital Convertible Bond ETF | CWB | ETF | SSGA Funds Management, Inc | \$ - | \$ 0.19 | \$ 0.23 | \$ 0.51 | \$ (0.04) | \$ 0.05 | \$ 0.24 | \$ 0.52 | \$ (0.04) | \$ 0.10 | \$ 0.36 | \$ 1.32 | \$ 2.77 | \$ 4.09 | \$ 4.09 | \$ 4.78 |
| First Trust Preferred Securities and Income ETF | FPE | ETF | First Trust Advisors LP | \$ 0.00 | \$ 0.03 | \$ 0.04 | \$ 1.66 | \$ 0.02 | \$ 0.03 | \$ 0.06 | \$ 0.42 | \$ 0.02 | \$ 0.03 | \$ 1.05 | \$ 3.27 | \$ 3.53 | \$ 3.61 | \$ 3.61 | \$ 3.55 |
| iShares Convertible Bond ETF | ICVT | ETF | BlackRock, Inc. | \$ 0.01 | \$ - | \$ (0.10) | \$ 0.33 | \$ - | \$ 0.01 | \$ 0.01 | \$ (0.17) | \$ - | \$ 0.01 | \$ (0.05) | \$ 0.15 | \$ 0.17 | \$ 0.17 | \$ 0.17 | \$ 0.21 |
| Global X U.S. Preferred ETF | PPFD | ETF | Mirage Asset Global Investments Co., Ltd | \$ 0.00 | \$ 0.01 | \$ 0.08 | \$ 0.03 | \$ - | \$ 0.01 | \$ 0.02 | \$ 0.10 | \$ - | \$ 0.01 | \$ 0.13 | \$ 0.13 | \$ 0.13 | \$ 0.13 | \$ 0.13 | \$ 0.13 |

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 |
|--------------------------------------------------|------|------|------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|-------------------------|
| VelocityShares Daily 2x VIX Short Term ETN | TVIX | ETN | Credit Suisse AG | \$ - | \$ 0.03 | \$ 0.33 | \$ 0.61 | \$ 0.02 | \$ 0.18 | \$ 0.20 | \$ 0.58 | \$ 0.02 | \$ 0.18 | \$ 0.87 | \$ 2.20 | \$ 3.17 | \$ 4.46 | \$ 4.46 | \$ 4.53 | 99.51% |
| VelocityShares Daily Inverse VIX Medium Term ETN | ZIV | ETN | Credit Suisse AG | \$ 0.00 | \$ 0.00 | \$ (0.01) | \$ 0.06 | \$ - | \$ 0.01 | \$ 0.01 | \$ (0.04) | \$ - | \$ 0.01 | \$ (0.03) | \$ (0.02) | \$ 0.03 | \$ 0.06 | \$ 0.06 | \$ 0.14 | 4.37% |
| VelocityShares Daily Long VIX Short-Term ETN | VIXX | ETN | Credit Suisse AG | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.02 | \$ - | \$ 0.00 | \$ 0.01 | \$ 0.00 | \$ - | \$ 0.00 | \$ 0.00 | \$ 0.03 | \$ 0.04 | \$ 0.11 | \$ 0.11 | \$ 0.01 | 0.89% |

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 (\$) |
|--------------------------|-------------|--------|-------------------------|----------------|-----------------|-------------------|----------------|----------|----------|----------|----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| Credit Suisse AG | Volatility | 6 | | \$ (0.00) | \$ 0.03 | \$ 0.33 | \$ 0.38 | \$ 0.02 | \$ 0.18 | \$ 0.21 | \$ 1.18 | \$ 0.02 | \$ 0.18 | \$ 0.89 | \$ 1.69 | \$ 3.32 | \$ 4.82 | \$ 4.82 | \$ 0.68 |
| Barclays Bank PLC | Volatility | 10 | | \$ (0.03) | \$ 0.13 | \$ 0.11 | \$ 1.03 | \$ 0.10 | \$ 0.16 | \$ 0.29 | \$ 0.08 | \$ 0.10 | \$ 0.06 | \$ 0.25 | \$ 2.07 | \$ 3.44 | \$ 10.48 | \$ 10.48 | \$ 1.04 |
| Innovator Management LLC | Volatility | 2 | | \$ - | \$ NULL | \$ NULL | \$ NULL | \$ - | \$ 0.01 | \$ 0.01 | \$ 0.01 | \$ - | \$ 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 | | \$ (0.22) | \$ 0.34 | \$ (0.03) | \$ 0.73 | \$ 0.06 | \$ (0.10) | \$ 0.24 | \$ 1.36 | \$ 0.06 | \$ (0.04) | \$ 0.75 | \$ 3.60 | \$ 4.43 | \$ 6.12 | \$ 6.12 | \$ 1.13 |
| UBS Global Asset Management | Volatility | 10 | | \$ - | \$ (0.00) | \$ (0.02) | \$ 0.08 | \$ - | \$ (0.00) | \$ (0.01) | \$ (0.09) | \$ - | \$ (0.01) | \$ (0.07) | \$ 0.05 | \$ 0.05 | \$ 0.07 | \$ 0.07 | \$ 0.02 |
| REX Shares | Volatility | 2 | | \$ - | \$ (0.00) | \$ (0.00) | \$ 0.01 | \$ - | \$ (0.00) | \$ (0.00) | \$ 0.01 | \$ - | \$ (0.00) | \$ 0.00 | \$ 0.03 | \$ 0.03 | \$ 0.03 | \$ 0.03 | \$ 0.01 |

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 (\$) |
|--------------------------------------------------|------|------|------------------------|----------------|-----------------|-------------------|----------------|----------|-----------|----------|-----------|-------------|--------------|-------------|-------------|-------------|--------------|----------------------|------------------|
| VelocityShares Daily 2x VIX Short Term ETN | TVIX | ETN | Credit Suisse AG | \$ - | \$ 0.03 | \$ 0.33 | \$ 0.61 | \$ 0.02 | \$ 0.18 | \$ 0.20 | \$ 0.58 | \$ 0.02 | \$ 0.18 | \$ 0.87 | \$ 2.20 | \$ 3.17 | \$ 4.46 | \$ 4.46 | \$ 4.53 |
| iPath S&P 500 VIX Short-Term Futures ETN | VXX | ETN | Barclays Bank PLC | \$ (0.03) | \$ 0.13 | \$ 0.13 | \$ 1.00 | \$ 0.10 | \$ 0.16 | \$ 0.29 | \$ 0.01 | \$ 0.10 | \$ 0.06 | \$ 0.16 | \$ 1.98 | \$ 3.41 | \$ 9.81 | \$ 9.81 | \$ 0.90 |
| ProShares VIX Short-Term Futures ETF | VIXY | ETF | ProShares Advisors LLC | \$ - | \$ 0.04 | \$ 0.03 | \$ 0.16 | \$ 0.01 | \$ 0.01 | \$ 0.05 | \$ (0.04) | \$ 0.01 | \$ 0.02 | \$ (0.01) | \$ 0.30 | \$ 0.39 | \$ 0.82 | \$ 0.82 | \$ 0.13 |
| VelocityShares Daily Inverse VIX Medium Term ETN | ZIV | ETN | Credit Suisse AG | \$ 0.00 | \$ 0.00 | \$ (0.01) | \$ 0.06 | \$ - | \$ 0.01 | \$ 0.01 | \$ (0.04) | \$ - | \$ 0.01 | \$ (0.03) | \$ (0.02) | \$ 0.03 | \$ 0.06 | \$ 0.06 | \$ 0.14 |
| ProShares Ultra VIX Short-Term Futures | UVXY | ETF | ProShares Advisors LLC | \$ (0.22) | \$ 0.39 | \$ 0.19 | \$ 0.90 | \$ 0.08 | \$ (0.05) | \$ 0.34 | \$ (0.03) | \$ 0.08 | \$ 0.01 | \$ 0.52 | \$ 2.61 | \$ 3.39 | \$ 4.46 | \$ 4.46 | \$ 0.54 |

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 | \$ - | \$ (0.09) | \$ (0.23) | \$ (0.35) | \$ (0.03) | \$ (0.06) | \$ (0.15) | \$ 1.45 | \$ (0.03) | \$ (0.07) | \$ 0.26 | \$ 0.66 | \$ 0.66 | \$ 0.68 | \$ 0.68 | \$ 0.44 |
| VelocityShares Daily Long VIX Medium-Term ETN | VIIZ | ETN | Credit Suisse AG | \$ (0.01) | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ NULL | \$ (0.01) | \$ (0.00) | \$ (0.00) | \$ NULL | \$ (0.01) | \$ (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) | \$ (0.01) | \$ 0.03 | \$ - | \$ (0.00) | \$ (0.01) | \$ (0.03) | \$ - | \$ (0.01) | \$ (0.02) | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.02 |
| REX VolMAXX Long VIX Futures Strategy ETF | VMAX | ETF | REX Shares | \$ NULL | \$ (0.00) | \$ - | \$ 0.00 | \$ NULL | \$ NULL | \$ (0.00) | \$ (0.00) | \$ NULL | \$ (0.00) | \$ (0.00) | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ NULL |
| VelocityShares Daily 2x VIX Medium Term ETN | TVIZ | ETN | Credit Suisse AG | \$ (0.00) | \$ (0.00) | \$ - | \$ 0.01 | \$ NULL | \$ (0.00) | \$ (0.00) | \$ (0.00) | \$ NULL | \$ (0.00) | \$ (0.00) | \$ 0.00 | \$ 0.00 | \$ 0.01 | \$ 0.01 | \$ NULL |

| 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) | | |
| BMO REX MicroSectors FANG+ Index 3X Leveraged ETN | FNGU | ETN | BMO Asset Management | 50.84% | 269.65% | 0.00% | 49.28% | 258.95% | \$ 0.15 | 56.71% | |
| MicroSectors FANG+ Index 2X Leveraged ETN | FNGO | ETN | BMO Asset Management | 38.80% | 110.28% | 0.00% | 37.62% | 105.90% | \$ 0.05 | 43.29% | |

| 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) | |
| BMO Asset Management | Equity | 3 | 3 | 89.65% | 379.92% | 0.00% | 86.90% | 364.85% | \$ 0.26 | |
| J.P.Morgan Investment Management Inc. | Equity | 11 | 11 | 185.24% | 273.62% | 17.58% | 72.93% | 362.58% | \$ 8.15 | |
| TrimTabs Asset Management, LLC | Equity | 1 | 1 | 28.55% | 182.62% | 6.86% | 18.19% | 276.17% | \$ 0.12 | |
| Pacer Advisors, Inc | Equity | 2 | 2 | 42.48% | 131.14% | 3.43% | 15.24% | 196.16% | \$ 0.33 | |
| Hartford Funds Management Company, LLC | Equity | 3 | 3 | 19.50% | 258.13% | 1.02% | 13.27% | 410.86% | \$ 0.93 | |

| 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) | |
| AdvisorShares | Equity | 3 | 3 | -8.52% | -5.67% | -1.51% | -7.34% | 14.26% | \$ 0.43 | |
| Sprott Asset Management LP | Equity | 2 | 2 | -5.40% | -7.14% | -4.42% | -5.03% | -7.22% | \$ 0.24 | |
| Columbia Management Investment Advisers | Equity | 3 | 3 | -7.13% | -23.69% | -0.78% | -4.46% | -25.84% | \$ 0.75 | |
| Innovator Management LLC | Equity | 2 | 2 | 0.02% | 30.78% | -1.49% | -3.93% | 228.13% | \$ 0.66 | |
| Krane Funds Advisors LLC | Equity | 2 | 2 | -5.65% | 21.83% | 3.85% | -3.14% | 71.23% | \$ 1.55 | |

| 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) | |
| JP Morgan BetaBuilders Europe ETF | BBEU | ETF | J.P.Morgan Investment Management Inc. | 13380.96% | NULL | 65.12% | 290.74% | NULL | \$ 1.35 | |
| iShares MSCI United Kingdom Small-Cap ETF | EWUS | ETF | BlackRock, Inc. | 172.04% | 79.00% | 0.00% | 170.78% | 75.19% | \$ 0.06 | |
| BMO REX MicroSectors FANG+ Index 3X Leveraged ETN | FNGU | ETN | BMO Asset Management | 79.48% | NULL | 0.00% | 76.04% | NULL | \$ 0.15 | |
| iShares MSCI Turkey ETF | TUR | ETF | BlackRock, Inc. | 74.66% | 59.78% | 0.00% | 71.12% | 51.16% | \$ 0.42 | |
| Invesco S&P SmallCap Consumer Staples ETF | PSCC | ETF | Invesco PowerShares Capital Management | 78.49% | 47.90% | 0.00% | 64.19% | 43.04% | \$ 0.09 | |

| 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) | |
| Direxion Dally Gold Miners Bear 3X Shares | DUST | ETF | Direxion Shares | -62.17% | -110.52% | -8.63% | -47.22% | -120.77% | \$ 0.12 | |
| Global X China Consumer ETF | CHIQ | ETF | Mirae Asset Global Investments Co., Ltd | -39.40% | 10.59% | -0.85% | -39.73% | 127.11% | \$ 0.19 | |
| Direxion Dally S&P Oil & Gas Exploration & Production Bear 3x Shares | DRIP | ETF | Direxion Shares | -50.01% | 69.13% | 6.22% | -37.70% | 577.24% | \$ 0.05 | |
| Direxion Dally S&P Biotech Bear 3x Shares | LABD | ETF | Direxion Shares | -19.80% | 4.29% | 20.06% | -35.14% | 33.53% | \$ 0.06 | |
| iShares MSCI Japan Small Cap ETF | SCI | ETF | BlackRock, Inc. | -32.95% | 0.30% | 0.00% | -30.67% | 49.56% | \$ 0.28 | |

| 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) | | |
| NuShares Enhanced Yield U.S. Aggregate Bond ETF | NUAG | ETF | Nuveen Investments | 109.53% | 129.10% | 0.00% | 109.95% | 167.22% | \$ 0.15 | 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) | |
| Nuveen Investments | Fixed Income | 1 | 1 | 109.53% | 129.10% | 0.00% | 109.95% | 167.22% | \$ 0.15 | |
| J.P.Morgan Investment Management Inc. | Fixed Income | 4 | 4 | 49.18% | 663.42% | 5.56% | 26.52% | 1253.94% | \$ 2.48 | |
| Fidelity Management & Research | Fixed Income | 3 | 3 | 15.68% | 29.05% | 0.73% | 14.70% | 54.34% | \$ 0.68 | |
| Goldman Sachs Asset Management L.P. | Fixed Income | 2 | 2 | 25.28% | 84.47% | 1.09% | 12.04% | 77.82% | \$ 1.86 | |
| First Trust Advisors LP | Fixed Income | 7 | 7 | 10.30% | 41.54% | 1.38% | 7.33% | 68.68% | \$ 7.79 | |

| 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) | |
| ALPS Advisors, Inc. | Fixed Income | 3 | 3 | -11.80% | -6.65% | 0.00% | -10.71% | 3.52% | \$ 0.37 | |
| WBI Investments, Inc. | Fixed Income | 1 | 1 | -8.71% | -38.16% | -3.91% | -5.15% | -39.95% | \$ 0.09 | |
| Vident Financial, LLC | Fixed Income | 1 | 1 | -11.13% | -1.53% | 0.00% | -5.10% | 1.12% | \$ 0.54 | |
| IndexIQ Advisors | Fixed Income | 3 | 3 | -8.78% | -16.20% | -0.23% | -3.93% | 0.49% | \$ 0.42 | |
| ProShares Advisors LLC | Fixed Income | 9 | 9 | -5.32% | -4.57% | 0.27% | -3.88% | -2.56% | \$ 3.45 | |

| 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) | |
| NuShares Enhanced Yield U.S. Aggregate Bond ETF | NUAG | ETF | Nuveen Investments | 109.53% | 129.10% | 0.00% | 109.95% | 167.22% | \$ 0.15 | |
| Fidelity Limited Term Bond ETF | FLTB | ETF | Fidelity Management & Research | 75.15% | 77.71% | 0.00% | 74.98% | 85.63% | \$ 0.19 | |
| SPDR SSGA Ultra Short Term Bond ETF | ULST | ETF | SSGA Funds Management, Inc | 91.92% | 300.49% | 2.13% | 71.33% | 379.94% | \$ 0.10 | |
| JP Morgan Ultra-Short Income ETF | JPST | ETF | J.P.Morgan Investment Management Inc. | 60.64% | 1799.74% | 6.64% | 32.94% | 4542.93% | \$ 2.10 | |
| iShares Short Maturity Municipal Bond ETF | MEAR | ETF | BlackRock, Inc. | 20.69% | 45.87% | 0.00% | 29.62% | 132.77% | \$ 0.09 | |

| 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) | |
| RiverFront Dynamic Core Income ETF | RFCI | ETF | ALPS Advisors, Inc. | -28.38% | 84.47% | 0.00% | -30.16% | 156.51% | \$ 0.10 | |
| Invesco Chinese Yuan Dim Sum Bond ETF | DSUM | ETF | Invesco PowerShares Capital Management | -24.20% | 7.32% | 0.00% | -23.12% | 23.18% | \$ 0.08 | |
| ProShares Short 7-10 Year Treasury | TBY | ETF | ProShares Advisors LLC | -18.72% | 136.08% | -2.56% | -18.58% | 124.09% | \$ 0.08 | |
| VanEck Vectors Emerging Markets High Yield Bond ETF | HYEM | ETF | Van Eck Associates Corp | -16.36% | -17.31% | 0.00% | -16.33% | -12.53% | \$ 0.27 | |
| iShares Government/Credit Bond ETF | GBF | ETF | BlackRock, Inc. | -15.34% | 5.92% | 0.00% | -15.37% | -36.38% | \$ 0.12 | |

Commodity ETFs

| Top 5 Commodity ETFs from Top Fund Sponsor by 1M Relative Inflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |
|-------------------------------------------------------------------|-----|------|----------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|-----------------------------|
| Description | ETF | Type | Fund Sponsor | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | | |
| GranteShares Gold Trust | BAR | ETF | GranteShares Advisors LLC. | 12.15% | 5479.68% | 0.00% | 9.65% | NULL | \$ 0.27 | 100.00% |

| Top 5 Commodity ETF Fund Sponsors by 1M Relative Inflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) |
|----------------------------------------------------------|-------------|---------|--------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|
| Fund Sponsor | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | |
| GranteShares Advisors LLC. | Commodity | 1 | 1 | 12.15% | 5479.68% | 0.00% | 9.65% | NULL | \$ 0.27 |
| Direxion Shares | Commodity | 1 | 1 | 7.51% | 72.28% | 0.00% | 4.93% | 338.78% | \$ 0.05 |
| Merk Investments, LLC | Commodity | 1 | 1 | 0.07% | 7.84% | 0.00% | 0.03% | 11.72% | \$ 0.14 |

| Top 5 Commodity ETF Fund Sponsors by 1M Relative outflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) |
|-----------------------------------------------------------|-------------|---------|--------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|
| Fund Sponsor | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | |
| First Trust Advisors LP | Commodity | 1 | 1 | -21.63% | 27.29% | -2.17% | -15.17% | 67.87% | \$ 0.22 |
| UBS Global Asset Management | Commodity | 2 | 2 | -9.36% | -4.70% | -11.29% | -9.77% | -3.76% | \$ 0.16 |
| Citigroup | Commodity | 2 | 2 | -9.79% | 27.69% | -10.21% | -9.60% | -24.57% | \$ 0.38 |
| United States Commodities Fund LLC | Commodity | 5 | 5 | -4.39% | -29.09% | -2.52% | -8.60% | -48.72% | \$ 2.83 |
| Barclays Bank PLC | Commodity | 4 | 4 | -16.77% | 12.90% | -0.43% | -6.83% | 40.09% | \$ 1.12 |

| Top 5 Commodity ETFs by 1M Relative inflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) |
|-----------------------------------------------------------|------|------|----------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|
| Description | ETF | Type | Fund Sponsor | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | |
| VelocityShares 3x Inverse Natural Gas | DGAZ | ETN | Credit Suisse AG | 14.05% | 162.45% | 10.64% | 95.79% | 254.18% | \$ 0.37 |
| ProShares UltraPro 3x Crude Oil ETF | OILU | ETF | ProShares Advisors LLC | 33.07% | 279.82% | 0.00% | 42.78% | 93.48% | \$ 0.05 |
| iPath Series B Bloomberg Coffee Subindex Total Return ETN | BJO | ETN | Barclays Bank PLC | 34.64% | NULL | 12.93% | 15.28% | NULL | \$ 0.06 |
| GranteShares Gold Trust | BAR | ETF | GranteShares Advisors LLC. | 12.15% | 5479.68% | 0.00% | 9.65% | NULL | \$ 0.27 |
| VelocityShares 3x Long Gold ETN | UGLD | ETN | Credit Suisse AG | 16.44% | 35.94% | 0.00% | 8.83% | 58.58% | \$ 0.12 |

| Top 5 Commodity ETFs by 1M Relative outflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) |
|----------------------------------------------|------|------|------------------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|
| Description | ETF | Type | Fund Sponsor | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | |
| VelocityShares 3x Long Natural Gas | UGAZ | ETN | Credit Suisse AG | -0.48% | -64.62% | -1.99% | -50.19% | 27.82% | \$ 0.32 |
| United States Natural Gas Fund | UNG | ETF | United States Commodities Fund LLC | -12.21% | -60.97% | 0.75% | -28.92% | -33.44% | \$ 0.30 |
| VelocityShares 3x Inverse Crude Oil ETN | DWT | ETN | Citigroup | -50.42% | 49.35% | 6.71% | -24.26% | 236.94% | \$ 0.15 |
| E-TRACS DJ-UBS Commodity Index | DVQ | ETN | UBS Global Asset Management | -23.19% | -17.36% | -24.25% | -24.25% | -16.33% | \$ 0.06 |
| ProShares UltraShort Bloomberg Crude Oil | SCO | ETF | ProShares Advisors LLC | -23.66% | -5.60% | 1.01% | -18.08% | 45.59% | \$ 0.15 |

Currency ETFs

| Top 5 Currency ETFs from Top Fund Sponsor by 1M Relative Inflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |
|------------------------------------------------------------------|-----|------|----------------------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|-----------------------------|
| Description | ETF | Type | Fund Sponsor | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | | |
| Invesco DB US Dollar Index Bullish Fund | UUP | ETF | Invesco PowerShares Capital Management | 3.25% | -0.02% | 2.02% | 3.05% | -2.97% | \$ 0.56 | 146.40% |
| Invesco CurrencyShares* Japanese Yen Trust | FXJ | ETF | Invesco PowerShares Capital Management | -2.18% | 1.78% | 0.57% | 0.85% | 1.09% | \$ 0.13 | 41.04% |
| Invesco CurrencyShares* Swiss Franc Trust | FXF | ETF | Invesco PowerShares Capital Management | 0.60% | 1.54% | 0.00% | 0.63% | 1.08% | \$ 0.17 | 30.05% |

| Top 5 Currency ETF Fund Sponsors by 1M Relative Inflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) |
|---------------------------------------------------------|-------------|---------|--------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|
| Fund Sponsor | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | |
| Invesco PowerShares Capital Management | Currency | 7 | 7 | -1.46% | -1.34% | 1.85% | 2.08% | -14.02% | \$ 1.54 |

| Top 5 Currency ETF Fund Sponsors by 1M Relative outflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) |
|----------------------------------------------------------|-------------|---------|--------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|
| Fund Sponsor | Asset Class | # ETPs* | # Currently Active ETPs* | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | |
| ProShares Advisors LLC | Currency | 2 | 2 | -6.81% | -29.99% | 1.43% | -2.87% | -37.77% | \$ 0.25 |

| Top 5 Currency ETFs by 1M Relative inflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) |
|--------------------------------------------|-----|------|----------------------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|
| Description | ETF | Type | Fund Sponsor | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | |
| Invesco CurrencyShares* Japanese Yen Trust | FXJ | ETF | Invesco PowerShares Capital Management | -20.25% | 26.43% | 6.88% | 10.71% | 16.55% | \$ 0.13 |
| Invesco DB US Dollar Index Bullish Fund | UUP | ETF | Invesco PowerShares Capital Management | 10.00% | -0.05% | 5.65% | 8.94% | -9.00% | \$ 0.56 |
| Invesco CurrencyShares* Swiss Franc Trust | FXF | ETF | Invesco PowerShares Capital Management | 5.86% | 16.18% | 0.00% | 5.89% | 12.44% | \$ 0.17 |

| Top 5 Currency ETFs by 1M Relative outflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) |
|-------------------------------------------------|-----|------|----------------------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|
| Description | ETF | Type | Fund Sponsor | QTD (%NAV) | YTD (%NAV) | 1 week (%NAV) | 1 month (%NAV) | 1 year (%NAV) | |
| Invesco CurrencyShares* Euro Currency Trust | FXE | ETF | Invesco PowerShares Capital Management | -10.25% | -5.77% | 0.00% | -8.36% | -26.26% | \$ 0.24 |
| Invesco CurrencyShares* Australian Dollar Trust | FXA | ETF | Invesco PowerShares Capital Management | -2.91% | -2.81% | -5.74% | -5.66% | -24.77% | \$ 0.12 |
| Invesco CurrencyShares* Canadian Dollar Trust | FXC | ETF | Invesco PowerShares Capital Management | -6.87% | -4.55% | -2.39% | -4.70% | -14.42% | \$ 0.16 |
| ProShares UltraShort Yen | YCS | ETF | ProShares Advisors LLC | -8.90% | -36.69% | 0.00% | -4.51% | -49.27% | \$ 0.08 |
| ProShares UltraShort Euro | EUD | ETF | ProShares Advisors LLC | -5.83% | -24.42% | 2.07% | -2.08% | -30.69% | \$ 0.17 |

Real Estate ETFs

| Top 5 Real Estate ETFs from Top Fund Sponsor by 1M Relative Inflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |
|---------------------------------------------------------------------|------|------|--------------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|-----------------------------|
| Description | ETF | Type | Fund Sponsor | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | | |
| Fidelity MSCI Real Estate Index ETF | FREL | ETF | Fidelity Management & Research | 26.97% | 34.36% | 0.62% | 22.78% | 51.79% | \$ 0.61 | 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) |
|-----------------------------------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| Fidelity Management & Research | Real Estate | 1 | 1 | 26.97% | 34.36% | 0.62% | 22.78% | 51.79% | \$ 0.61 |
| Mirae Asset Global Investments Co., Ltd | Real Estate | 1 | 1 | 16.79% | 68.30% | 3.09% | 12.81% | 122.79% | \$ 0.10 |
| Exchange Traded Concepts | Real Estate | 1 | 1 | 39.33% | NULL | 1.77% | 9.96% | NULL | \$ 0.08 |
| BlackRock, Inc. | Real Estate | 8 | 8 | 11.74% | 9.67% | 1.89% | 5.79% | 7.58% | \$ 11.47 |
| Northern Trust | Real Estate | 1 | 1 | 6.78% | 17.10% | 0.00% | 4.43% | 20.56% | \$ 0.30 |

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) |
|----------------------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| Direxion Shares | Real Estate | 1 | 1 | -12.26% | -22.67% | -4.25% | -7.01% | -25.90% | \$ 0.05 |
| First Trust Advisors LP | Real Estate | 1 | 1 | 17.94% | -25.58% | -1.96% | -3.99% | -42.67% | \$ 0.12 |
| ALPS Advisors, Inc. | Real Estate | 1 | 1 | -3.76% | -10.04% | -3.71% | -3.78% | -15.91% | \$ 0.06 |
| IndexQ Advisors | Real Estate | 1 | 1 | -3.04% | -21.50% | 0.00% | -3.06% | -24.72% | \$ 0.09 |
| SSGA Funds Management, Inc | Real Estate | 4 | 4 | -1.96% | -7.94% | -0.78% | -1.80% | -10.51% | \$ 10.82 |

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) |
|-----------------------------------------|------|------|-----------------------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| Fidelity MSCI Real Estate Index ETF | FREL | ETF | Fidelity Management & Research | 26.97% | 34.36% | 0.62% | 22.78% | 51.79% | \$ 0.61 |
| Global X SuperDividend REIT ETF | SRET | ETF | Mirae Asset Global Investments Co., Ltd | 16.79% | 68.30% | 3.09% | 12.81% | 122.79% | \$ 0.10 |
| iShares U.S. Real Estate ETF | IYR | ETF | BlackRock, Inc. | 22.44% | 17.66% | 3.20% | 11.32% | 5.71% | \$ 4.66 |
| iShares Residential Real Estate ETF | REZ | ETF | BlackRock, Inc. | 9.90% | -10.79% | 3.00% | 10.03% | -17.45% | \$ 0.33 |
| PPTY - U.S. Diversified Real Estate ETF | PPTY | ETF | Exchange Traded Concepts | 39.33% | NULL | 1.77% | 9.96% | NULL | \$ 0.08 |

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) |
|-------------------------------------------|-----|------|----------------------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| Invesco China Real Estate ETF | TAD | ETF | Invesco PowerShares Capital Management | -33.56% | -20.37% | -5.24% | -15.42% | -6.15% | \$ 0.05 |
| Direxion Daily Real Estate Bull 3x Shares | DRN | ETF | Direxion Shares | -12.26% | -22.67% | -4.26% | -7.01% | -25.90% | \$ 0.05 |
| SPDR Dow Jones REIT ETF | RWR | ETF | SSGA Funds Management, Inc | -3.29% | -11.75% | 0.00% | -4.41% | -15.71% | \$ 2.54 |
| First Trust S&P REIT Index Fund | FBI | ETF | First Trust Advisors LP | 17.94% | -25.58% | -1.96% | -3.99% | -42.67% | \$ 0.12 |
| Cohen & Steers Global Realty Majors ETF | GRJ | ETF | ALPS Advisors, Inc. | -3.76% | -10.04% | -3.71% | -3.78% | -15.91% | \$ 0.06 |

Multi-Asset ETFs

| Top 5 Multi-Asset ETFs from Top Fund Sponsor by 1M Relative Inflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |
|---------------------------------------------------------------------|------|------|-----------------------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|-----------------------------|
| Description | ETF | Type | Fund Sponsor | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | | |
| Horizons S&P 500 Covered Call ETF | HSPX | ETF | Mirae Asset Global Investments Co., Ltd | 25.83% | -3.53% | 4.16% | 25.08% | 0.37% | \$ 0.07 | 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 | 25.83% | -3.53% | 4.16% | 25.08% | 0.37% | \$ 0.07 |
| Aptus Capital Advisors, LLC | Multi-Asset | 1 | 1 | 12.37% | 100.47% | 0.00% | 9.42% | 118.88% | \$ 0.08 |
| SSGA Funds Management, Inc | Multi-Asset | 3 | 3 | 21.51% | 48.06% | 0.00% | 5.53% | 54.35% | \$ 0.51 |
| Pacer Advisors, Inc | Multi-Asset | 5 | 5 | 8.36% | 61.48% | 1.09% | 4.66% | 118.12% | \$ 2.44 |
| UBS Global Asset Management | Multi-Asset | 1 | 1 | 2.94% | 2.94% | 0.00% | 2.91% | 5.22% | \$ 0.25 |

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 | -12.30% | -6.16% | -8.63% | -9.55% | -8.47% | \$ 0.24 |
| Arrow Funds | Multi-Asset | 1 | 1 | -1.93% | -19.13% | 0.00% | -1.91% | -25.91% | \$ 0.07 |
| Invesco PowerShares Capital Management | Multi-Asset | 4 | 4 | 0.58% | -0.10% | 0.19% | -0.42% | 3.34% | \$ 1.22 |
| IndexQ Advisors | Multi-Asset | 1 | 1 | -0.80% | -0.56% | 0.00% | -0.40% | 4.07% | \$ 1.15 |
| BlackRock, Inc. | Multi-Asset | 6 | 6 | 1.18% | 13.22% | -0.24% | -0.30% | 29.14% | \$ 4.50 |

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) |
|-----------------------------------|------|------|-----------------------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| SPDR Gold MiniShares Trust | GLOM | ETF | SSGA Funds Management, Inc | 318.80% | NULL | 0.00% | 28.93% | NULL | \$ 0.11 |
| Horizons S&P 500 Covered Call ETF | HSPX | ETF | Mirae Asset Global Investments Co., Ltd | 25.83% | -3.53% | 4.16% | 25.08% | 0.37% | \$ 0.07 |
| Aptus Behavioral Momentum ETF | BEMO | ETF | Aptus Capital Advisors, LLC | 12.37% | 100.47% | 0.00% | 9.42% | 118.88% | \$ 0.08 |
| Pacer Trendplot 100 ETF | PTNQ | ETF | Pacer Advisors, Inc | 11.95% | 91.13% | 1.16% | 6.69% | 173.33% | \$ 0.31 |
| Pacer Trendplot US Mid Cap ETF | PTMC | ETF | Pacer Advisors, Inc | 9.73% | 39.24% | 1.62% | 5.91% | 70.49% | \$ 0.64 |

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 | WBHI | ETF | WBI Investments, Inc. | -12.30% | -6.16% | -8.63% | -9.55% | -8.47% | \$ 0.24 |
| Invesco DWA Tactical Multi-Asset Income ETF | DWIN | ETF | Invesco PowerShares Capital Management | -5.77% | -31.98% | 0.00% | -3.77% | -37.42% | \$ 0.06 |
| Arrow Dow Jones Global Yield ETF | GYLD | ETF | Arrow Funds | -1.93% | -19.13% | 0.00% | -1.91% | -25.91% | \$ 0.07 |
| Invesco DWA Tactical Sector Rotation ETF | DWTR | ETF | Invesco PowerShares Capital Management | 22.59% | 18.06% | 0.00% | -1.80% | -3.49% | \$ 0.09 |
| First Trust Multi-Asset Diversified Income Index Fund | MDIV | ETF | First Trust Advisors LP | -2.16% | -9.61% | -0.13% | -1.62% | -17.86% | \$ 0.70 |

Hybrid ETFs

| Top 5 Hybrid ETFs from Top Fund Sponsor by 1M Relative Inflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |
|----------------------------------------------------------------|------|------|-----------------------------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|-----------------------------|
| Description | ETF | Type | Fund Sponsor | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | | |
| Global X U.S. Preferred ETF | PFFD | ETF | Mirae Asset Global Investments Co., Ltd | 6.65% | 40.98% | 0.00% | 3.40% | 52.88% | \$ 0.13 | 119.64% |

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 | 5.69% | 35.62% | -0.18% | 2.84% | 40.18% | \$ 0.33 |
| Van Eck Associates Corp | Hybrid | 1 | 1 | 3.69% | -6.43% | 0.36% | 1.99% | 18.13% | \$ 0.55 |
| SSGA Funds Management, Inc | Hybrid | 2 | 2 | 6.40% | 13.10% | -0.79% | 1.89% | 10.34% | \$ 5.45 |
| First Trust Advisors LP | Hybrid | 3 | 3 | 2.11% | 17.09% | 0.52% | 0.89% | 45.23% | \$ 3.82 |
| BlackRock, Inc. | Hybrid | 3 | 3 | 3.73% | -3.58% | 0.47% | 0.87% | -4.53% | \$ 17.40 |

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 | 2.58% | 3.18% | 0.05% | -0.24% | 8.32% | \$ 9.15 |

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 | 19.07% | 351.84% | 0.00% | 9.19% | NULL | \$ 0.13 |
| iShares Convertible Bond ETF | ICVT | ETF | BlackRock, Inc. | 5.96% | -46.62% | 0.00% | 5.89% | -21.80% | \$ 0.21 |
| First Trust Institutional Preferred Securities and Income ETF | FPEI | ETF | First Trust Advisors LP | 8.00% | 129.20% | 0.00% | 2.16% | 372.35% | \$ 0.09 |
| SPDR Barclays Capital Convertible Bond ETF | CWB | ETF | SSGA Funds Management, Inc | 5.40% | 12.92% | -0.90% | 2.07% | 8.61% | \$ 4.78 |
| VanEck Vectors Preferred Securities ex Financials ETF | PFXX | ETF | Van Eck Associates Corp | 3.69% | 6.43% | 0.36% | 1.99% | 18.13% | \$ 0.55 |

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. | -13.76% | -26.10% | 0.00% | -2.60% | -11.19% | \$ 0.07 |
| Global X SuperIncome Preferred ETF | SPFF | ETF | Mirae Asset Global Investments Co., Ltd | -1.47% | -6.06% | -0.30% | -0.89% | -12.70% | \$ 0.20 |
| Invesco Preferred ETF | PGX | ETF | Invesco PowerShares Capital Management | 2.28% | 0.30% | 0.08% | -0.39% | 4.65% | \$ 5.36 |
| Invesco Financial Preferred ETF | PGF | ETF | Invesco PowerShares Capital Management | 0.18% | -3.65% | 0.00% | -0.23% | -3.15% | \$ 1.57 |
| First Trust SSI Strategic Convertible Securities ETF | FCVT | ETF | First Trust Advisors LP | 4.50% | 170.37% | 0.89% | -0.10% | 202.86% | \$ 0.17 |

Volatility ETFs

| Top 5 Equity ETFs from Top Fund Sponsor by 1M Relative Inflows | | | | as % of initial (1 month ago) Fund Sponsor AUM | | | | | Current AUM (\$b) | % Fund Sponsor NET Flows 1M |
|----------------------------------------------------------------|------|------|------------------|------------------------------------------------|------------|---------------|----------------|---------------|-------------------|-----------------------------|
| Description | ETF | Type | Fund Sponsor | QTD (%AUM) | YTD (%AUM) | 1 week (%AUM) | 1 month (%AUM) | 1 year (%AUM) | | |
| VelocityShares Daily 2x VIX Short Term ETN | TVIX | ETN | Credit Suisse AG | 30.02% | 133.57% | 3.47% | 33.15% | 207.13% | \$ 0.53 | 95.80% |
| VelocityShares Daily Inverse VIX Medium Term ETN | ZIV | ETN | Credit Suisse AG | 1.44% | -8.91% | 0.00% | 1.45% | -7.74% | \$ 0.14 | 4.20% |

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) |
|-------------------|-------------|---------|--------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| Credit Suisse AG | Volatility | 2 | 2 | 31.46% | 124.66% | 3.47% | 34.60% | 199.39% | \$ 0.67 |
| Barclays Bank PLC | Volatility | 2 | 2 | 30.46% | 11.92% | 11.13% | 5.86% | 18.90% | \$ 1.01 |

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 | 24.09% | 103.28% | 5.81% | -3.63% | 39.65% | \$ 1.11 |

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) |
|--------------------------------------------------|------|------|------------------------|------------|------------|---------------|----------------|---------------|-------------------|
| VelocityShares Daily 2x VIX Short Term ETN | TVIX | ETN | Credit Suisse AG | 36.55% | 265.66% | 4.40% | 43.90% | 344.13% | \$ 0.53 |
| ProShares VIX Short-Term Futures ETF | VIXY | ETF | ProShares Advisors LLC | 41.13% | -32.59% | 5.59% | 21.03% | -4.76% | \$ 0.13 |
| iPath S&P 500 VIX Short-Term Futures ETN | VXX | ETN | Barclays Bank PLC | 35.56% | 1.09% | 12.56% | 6.52% | 11.72% | \$ 0.90 |
| VelocityShares Daily Inverse VIX Medium Term ETN | ZIV | ETN | Credit Suisse AG | 8.06% | -17.92% | 0.00% | 5.94% | -19.44% | \$ 0.14 |
| ProShares Ultra VIX Short-Term Futures | UVXY | ETF | ProShares Advisors LLC | 94.30% | -6.99% | 17.60% | 1.29% | 131.73% | \$ 0.54 |

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 | -27.92% | 179.34% | -6.14% | -14.82% | 19.48% | \$ 0.44 |

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