

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

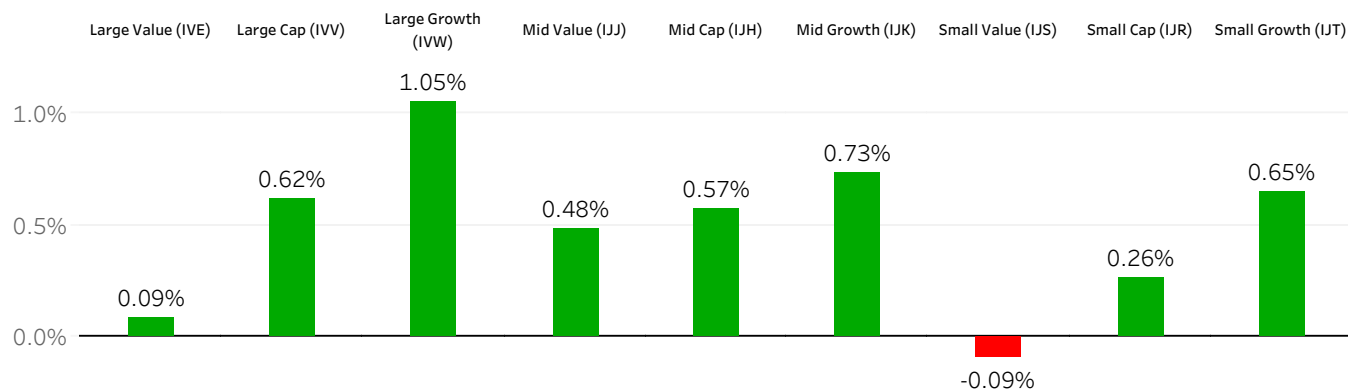


Small Cap Blend (S&P 600) IJR



■ Closing Price ■ 50 Day Moving Average ■ 200 Day Moving Average

U.S. Size & Style 1-Day Performance



Size & Style 1-Day Performance Leaders

| Ticker | Fund                                                   | 1-Day Performance |
|--------|--------------------------------------------------------|-------------------|
| IPO    | Renaissance IPO ETF                                    | 2.97%             |
| NUMG   | Nuveen ESG Mid-Cap Growth ETF                          | 1.61%             |
| DFNV   | TrimTabs Donoghue Forlines Risk Managed Innovation E.. | 1.61%             |
| IWP    | iShares Russell Mid-Cap Growth ETF                     | 1.51%             |
| QQEW   | First Trust Nasdaq-100 Equal Weighted Index Fund       | 1.46%             |
| QQH    | HCM Defender 100 Index ETF                             | 1.44%             |
| QQQE   | Direxion NASDAQ-100 Equal Weighted Index Shares        | 1.43%             |
| FPX    | First Trust US Equity Opportunities ETF                | 1.43%             |
| QQQN   | VictoryShares Nasdaq Next 50 ETF                       | 1.39%             |
| IWO    | iShares Russell 2000 Growth ETF                        | 1.39%             |

Size & Style Most Overbought

| Ticker | Fund                                                | Value |
|--------|-----------------------------------------------------|-------|
| SPC    | CrossingBridge Pre-Merger SPAC ETF                  | 61.86 |
| LVHD   | Legg Mason Low Volatility High Dividend ETF         | 53.68 |
| XMLV   | Invesco S&P MidCap Low Volatility ETF               | 52.52 |
| SPHD   | Invesco S&P 500 High Dividend Low Volatility ETF    | 52.12 |
| DJD    | Invesco Dow Jones Industrial Average Dividend ETF   | 51.91 |
| HUSV   | First Trust Horizon Managed Volatility Domestic ETF | 51.23 |
| SPLV   | Invesco S&P 500 Low Volatility ETF                  | 51.22 |
| VSDA   | VictoryShares Dividend Accelerator ETF              | 49.83 |
| RDIV   | Invesco S&P Ultra Dividend Revenue ETF              | 49.80 |
| DURA   | VanEck Morningstar Durable Dividend ETF             | 49.58 |

Size & Style 1-Day Performance Laggards

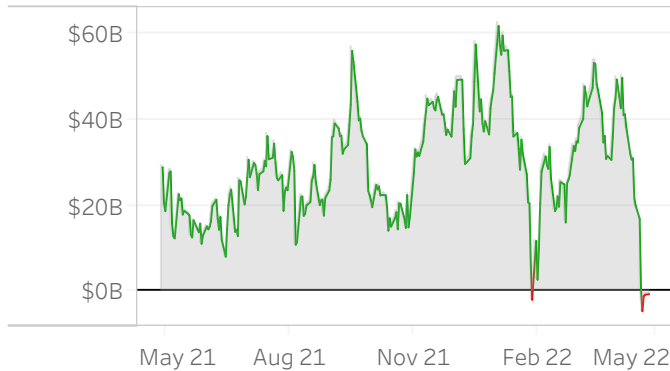
| Ticker | Fund                                            | 1-Day Performance |
|--------|-------------------------------------------------|-------------------|
| RBUS   | Nationwide Risk-Based U.S. Equity ETF           | -3.94%            |
| QVML   | Invesco S&P 500 QVM Multi-factor ETF            | -3.80%            |
| ACSI   | American Customer Satisfaction ETF              | -3.77%            |
| BBSC   | JPMorgan BetaBuilders U.S. Small Cap Equity ETF | -3.12%            |
| SIXL   | ETC 6 Meridian Low Beta Equity ETF              | -2.43%            |
| QVMM   | Invesco S&P MidCap 400 QVM Multi-factor ETF     | -2.21%            |
| PABU   | iShares Paris-Aligned Climate MSCI USA ETF      | -1.82%            |
| MMTM   | SPDR S&P 1500 Momentum Tilt ETF                 | -1.62%            |
| SIXA   | ETC 6 Meridian Mega Cap Equity ETF              | -1.29%            |
| HKND   | Humankind US Stock ETF                          | -1.05%            |

Size & Style Most Oversold

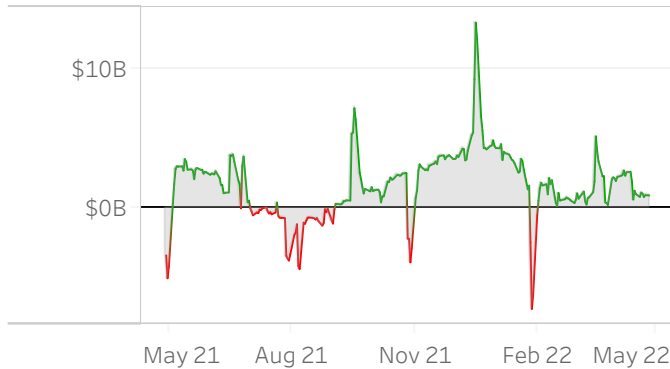
| Ticker | Fund                                               | Value |
|--------|----------------------------------------------------|-------|
| QVML   | Invesco S&P 500 QVM Multi-factor ETF               | 24.24 |
| FFTY   | Innovator IBD 50 ETF                               | 28.76 |
| MMTM   | SPDR S&P 1500 Momentum Tilt ETF                    | 32.68 |
| LGH    | HCM Defender 500 Index ETF                         | 34.08 |
| RBUS   | Nationwide Risk-Based U.S. Equity ETF              | 34.86 |
| HKND   | Humankind US Stock ETF                             | 35.04 |
| QQH    | HCM Defender 100 Index ETF                         | 35.16 |
| MXDU   | Nationwide Maximum Diversification US Core Equit.. | 35.79 |
| SHE    | SPDR SSGA Gender Diversity Index ETF               | 36.06 |
| BBSC   | JPMorgan BetaBuilders U.S. Small Cap Equity ETF    | 36.09 |

\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

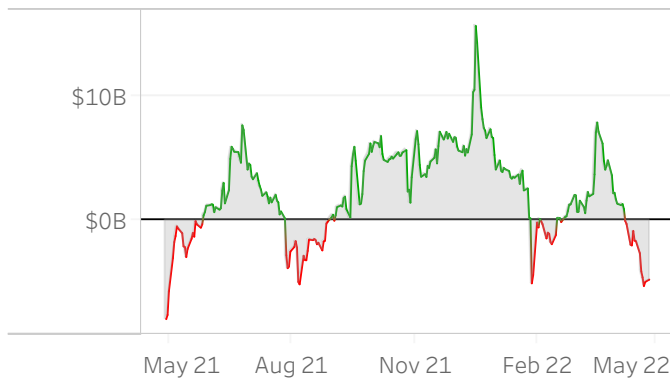
Large-Cap 30-Day Rolling Flows



Mid-Cap 30-Day Rolling Flows



Small-Cap 30-Day Rolling Flows



U.S. Size & Style Landscape Flows

|                                      | Funds | AUM      | 1 Week    | 3 Month   | 6 Month   | 1 Year    |
|--------------------------------------|-------|----------|-----------|-----------|-----------|-----------|
| Large Cap, Beta Growth, Beta         | 26    | \$1,261B | (\$2.33B) | \$11.03B  | \$55.55B  | \$122.64B |
| Large Cap, Beta Growth, Beta: Growth | 10    | \$232B   | (\$1.47B) | \$3.15B   | \$4.33B   | \$13.12B  |
| Large Cap, Beta Growth, Beta: Value  | 11    | \$224B   | (\$0.63B) | \$9.36B   | \$17.06B  | \$29.83B  |
| Mid Cap, Beta, Beta                  | 10    | \$183B   | \$0.12B   | \$1.61B   | \$7.57B   | \$10.58B  |
| Mid Cap, Beta, Beta: Growth          | 6     | \$34B    | (\$0.09B) | (\$0.40B) | \$0.23B   | (\$0.48B) |
| Mid Cap, Beta, Beta: Value           | 6     | \$42B    | (\$0.10B) | (\$0.29B) | \$0.24B   | \$1.46B   |
| Small Cap, Beta, Beta                | 12    | \$202B   | \$0.48B   | (\$1.73B) | \$5.52B   | \$12.35B  |
| Small Cap, Beta, Beta: Growth        | 7     | \$32B    | (\$0.05B) | \$0.16B   | \$0.67B   | \$0.50B   |
| Small Cap, Beta, Beta: Value         | 7     | \$53B    | (\$0.09B) | (\$3.17B) | (\$1.94B) | (\$1.30B) |

U.S. Size & Style Flow Leaders

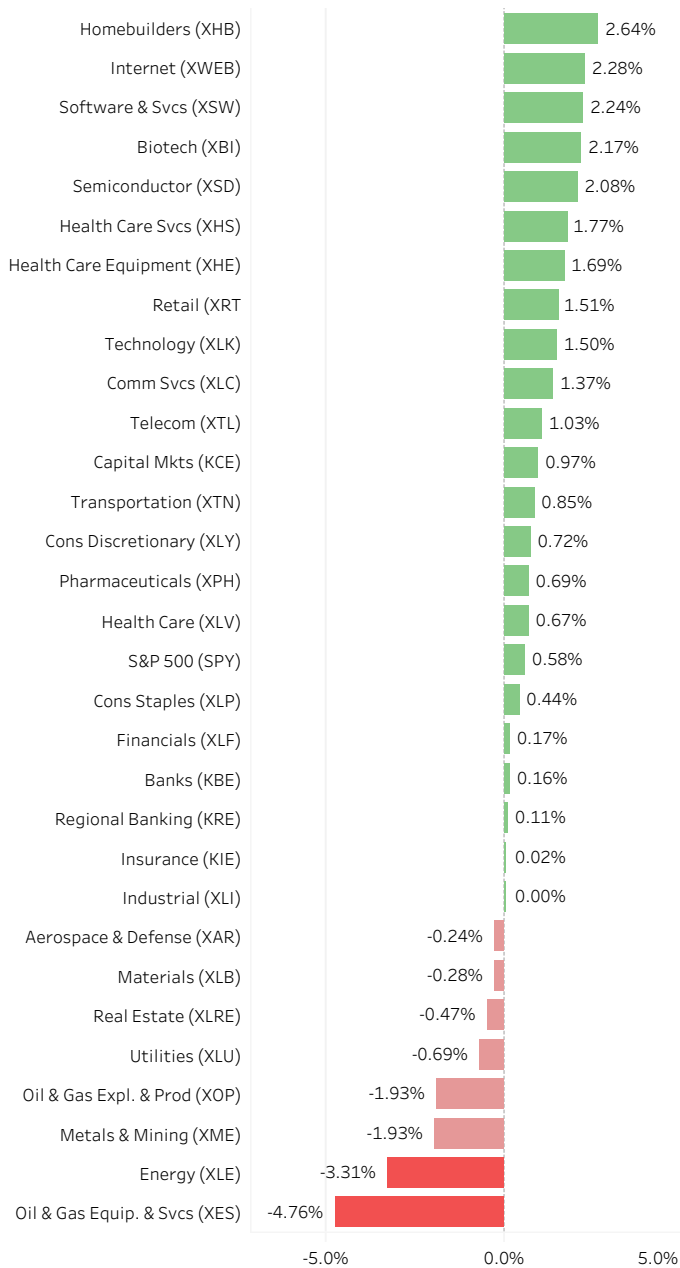
| Ticker | Fund                                           | 1 Week  | 3 Month    | 6 Month   | 1 Year    | AUM       |
|--------|------------------------------------------------|---------|------------|-----------|-----------|-----------|
| SPY    | SPDR S&P 500 ETF Trust                         | \$4.35B | (\$10.25B) | \$4.95B   | \$25.89B  | \$387.98B |
| IWM    | iShares Russell 2000 ETF                       | \$0.61B | (\$3.39B)  | (\$3.03B) | (\$2.14B) | \$56.57B  |
| VTI    | Vanguard Total Stock Market ETF                | \$0.56B | \$6.05B    | \$19.43B  | \$40.70B  | \$274.68B |
| HDV    | iShares Core High Dividend ETF                 | \$0.27B | \$1.86B    | \$1.90B   | \$2.36B   | \$9.96B   |
| COWZ   | Pacer US Cash Cows 100 ETF                     | \$0.27B | \$2.74B    | \$3.47B   | \$3.93B   | \$4.48B   |
| VYM    | Vanguard High Dividend Yield Index ETF         | \$0.25B | \$2.46B    | \$4.30B   | \$5.89B   | \$44.86B  |
| SCHD   | Schwab US Dividend Equity ETF                  | \$0.25B | \$3.35B    | \$5.43B   | \$11.39B  | \$34.84B  |
| FDL    | First Trust Morningstar Dividend Leaders Ind.. | \$0.20B | \$0.51B    | \$0.56B   | \$0.59B   | \$2.43B   |
| VTV    | Vanguard Value ETF                             | \$0.16B | \$7.87B    | \$11.71B  | \$19.49B  | \$101.31B |
| MTUM   | iShares MSCI USA Momentum Factor ETF           | \$0.15B | (\$0.69B)  | (\$2.71B) | (\$2.31B) | \$11.18B  |

U.S. Size & Style Flow Laggards

| Ticker | Fund                              | 1 Week    | 3 Month   | 6 Month   | 1 Year    | AUM       |
|--------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|
| VOO    | Vanguard S&P 500 ETF              | (\$4.48B) | \$11.56B  | \$18.07B  | \$40.69B  | \$264.31B |
| IVV    | iShares Core S&P 500 ETF          | (\$2.08B) | \$4.32B   | \$17.63B  | \$20.07B  | \$302.56B |
| IVW    | iShares S&P 500 Growth ETF        | (\$0.97B) | (\$0.35B) | (\$0.71B) | (\$0.46B) | \$32.29B  |
| SPYV   | SPDR Portfolio S&P 500 Value ETF  | (\$0.61B) | \$0.57B   | \$0.63B   | \$2.29B   | \$13.78B  |
| IWF    | iShares Russell 1000 Growth ETF   | (\$0.48B) | (\$0.65B) | (\$2.26B) | (\$1.92B) | \$63.44B  |
| IWD    | iShares Russell 1000 Value ETF    | (\$0.23B) | (\$1.12B) | \$0.13B   | \$1.24B   | \$55.75B  |
| IWB    | iShares Russell 1000 ETF          | (\$0.20B) | (\$0.37B) | (\$0.81B) | (\$0.46B) | \$28.27B  |
| IUSG   | iShares Core S&P U.S. Growth ETF  | (\$0.14B) | \$0.31B   | \$0.34B   | \$0.61B   | \$11.60B  |
| IJR    | iShares Core S&P Small Cap ETF    | (\$0.14B) | \$0.02B   | \$3.83B   | \$4.62B   | \$68.71B  |
| SPYG   | SPDR Portfolio S&P 500 Growth ETF | (\$0.13B) | \$0.37B   | \$0.70B   | \$2.86B   | \$12.97B  |

\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

## S&P Sector & Industry 1 Day Performance



## Select Sector SPDRs Technicals

| Ticker | Fund Name                                      | % From 52W High | % From 52W Low | % Abv/Below 50 SMA | % Abv/Below 200 SMA | RSI (14D) |
|--------|------------------------------------------------|-----------------|----------------|--------------------|---------------------|-----------|
| XLP    | Consumer Staples Select Sector SPDR Fund       | -1.22%          | 15.68%         | 4.86%              | 8.01%               | 63.38     |
| XLU    | Utilities Select Sector SPDR Fund              | -4.18%          | 16.62%         | 2.69%              | 7.27%               | 45.79     |
| XLRE   | Real Estate Select Sector SPDR Fund            | -5.15%          | 19.74%         | 4.08%              | 3.54%               | 53.89     |
| XLB    | Materials Select Sector SPDR Fund              | -5.64%          | 8.08%          | -0.36%             | 0.05%               | 40.24     |
| XLV    | Health Care Select Sector SPDR Fund            | -5.78%          | 10.91%         | 0.26%              | 0.99%               | 43.88     |
| XLI    | Industrial Select Sector SPDR Fund             | -8.11%          | 2.96%          | -1.87%             | -4.02%              | 39.69     |
| XLE    | Energy Select Sector SPDR Fund                 | -9.06%          | 60.91%         | -1.60%             | 21.96%              | 39.61     |
| SPY    | SPDR S&P 500 ETF Trust                         | -10.30%         | 5.70%          | -2.39%             | -4.60%              | 39.22     |
| XLF    | Financial Select Sector SPDR Fund              | -12.53%         | 3.19%          | -4.70%             | -6.25%              | 35.83     |
| XLY    | Consumer Discretionary Select Sector SPDR Fund | -16.24%         | 8.52%          | -0.72%             | -5.82%              | 45.71     |
| XLK    | Technology Select Sector SPDR Fund             | -17.79%         | 10.60%         | -4.50%             | -8.45%              | 40.23     |
| XLC    | Communication Services Select Sector SPDR Fund | -27.76%         | 1.37%          | -7.51%             | -18.58%             | 34.05     |

## Sector & Industry 1 Day Performance Leaders

| Ticker | Fund                                              | 1 Day Performance |
|--------|---------------------------------------------------|-------------------|
| ITB    | iShares U.S. Home Construction ETF                | 3.17%             |
| PKB    | Invesco Dynamic Building & Construction ETF       | 2.66%             |
| XHB    | SPDR S&P Homebuilders ETF                         | 2.64%             |
| QTEC   | First Trust NASDAQ-100 Technology Sector Index .. | 2.42%             |
| FDN    | First Trust Dow Jones Internet Index Fund         | 2.27%             |
| XSW    | SPDR S&P Software & Services ETF                  | 2.24%             |
| XBI    | SPDR S&P BIOTECH ETF                              | 2.17%             |
| FTXL   | First Trust Nasdaq Semiconductor ETF              | 2.09%             |
| XSD    | SPDR S&P Semiconductor ETF                        | 2.08%             |
| PTF    | Invesco DWA Technology Momentum ETF               | 2.02%             |

## Sector & Industry Most Overbought

| Ticker | Fund                                              | Value |
|--------|---------------------------------------------------|-------|
| RHS    | Invesco S&P 500 Equal Weight Consumer Staples ETF | 66.99 |
| IYK    | iShares U.S. Consumer Staples ETF                 | 64.24 |
| XLP    | Consumer Staples Select Sector SPDR Fund          | 63.38 |
| FSTA   | FIDELITY COVINGTON TRUST MSCI CONSUMER STAPLES..  | 62.49 |
| VDC    | Vanguard Consumer Staples ETF                     | 61.37 |
| FXG    | First Trust Consumer Staples AlphaDEX Fund        | 59.82 |
| PBJ    | Invesco Dynamic Food & Beverage ETF               | 56.70 |
| NURE   | Nuveen Short-Term REIT ETF                        | 56.48 |
| FTXG   | First Trust Nasdaq Food & Beverage ETF            | 55.57 |
| PSR    | Invesco Active U.S. Real Estate Fund              | 55.50 |

## Sector & Industry 1 Day Performance Laggards

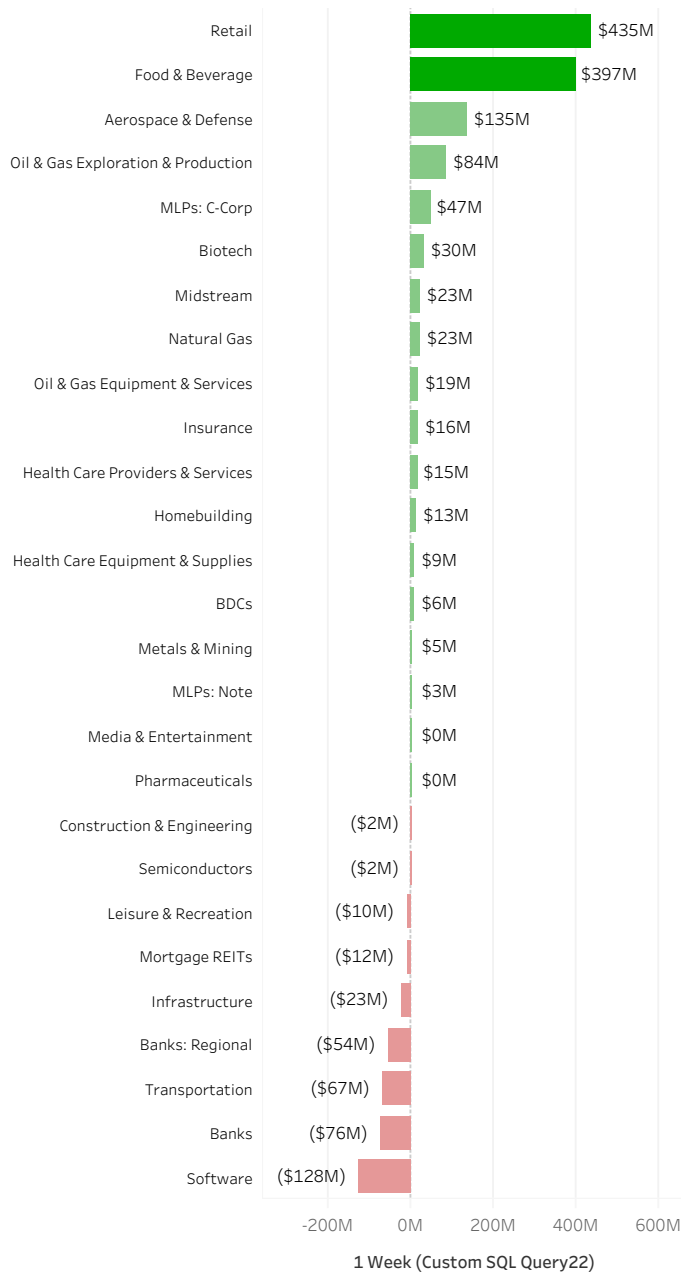
| Ticker | Fund                                                | 1 Day Performance |
|--------|-----------------------------------------------------|-------------------|
| IEZ    | iShares U.S. Oil Equipment & Services ETF           | -5.69%            |
| PXJ    | Invesco Dynamic Oil & Gas Services ETF              | -4.81%            |
| XES    | SPDR S&P Oil & Gas Equipment & Services ETF         | -4.76%            |
| RYE    | Invesco S&P 500 Equal Weight Energy ETF             | -3.58%            |
| AMZA   | InfraCap MLP ETF                                    | -3.45%            |
| FENY   | Fidelity MSCI Energy Index ETF                      | -3.35%            |
| XLE    | Energy Select Sector SPDR Fund                      | -3.31%            |
| VDE    | Vanguard Energy ETF                                 | -3.24%            |
| IYE    | iShares U.S. Energy ETF                             | -3.24%            |
| IEO    | iShares U.S. Oil & Gas Exploration & Production ETF | -2.94%            |

## Sector & Industry Most Oversold

| Ticker | Fund                                           | Value |
|--------|------------------------------------------------|-------|
| FCOM   | Fidelity MSCI Communication Services Index ETF | 33.43 |
| VOX    | Vanguard Communication Services ETF            | 33.46 |
| XLC    | Communication Services Select Sector SPDR Fund | 34.05 |
| MORT   | VanEck Mortgage REIT Income ETF                | 34.16 |
| REM    | iShares Mortgage Real Estate ETF               | 34.76 |
| KBWD   | Invesco KBW High Dividend Yield Financial ETF  | 34.87 |
| IYF    | iShares U.S. Financials ETF                    | 35.39 |
| IYZ    | iShares U.S. Telecommunications ETF            | 35.42 |
| KBWB   | Invesco KBW Bank ETF                           | 35.44 |
| PNQI   | Invesco NASDAQ Internet ETF                    | 35.45 |

\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

## U.S. Sector & Industry 1-Week Flows



## U.S. Sector Landscape

|                        | Funds | AUM    | 1 Week     | 3 Month    | 6 Month    | 1 Year     |
|------------------------|-------|--------|------------|------------|------------|------------|
| Communication Services | 9     | \$15B  | (\$68M)    | (\$401M)   | (\$1,574M) | \$446M     |
| Consumer Discretionary | 13    | \$29B  | (\$466M)   | (\$2,780M) | (\$2,921M) | (\$3,211M) |
| Consumer Staples       | 12    | \$28B  | \$669M     | \$2,849M   | \$5,724M   | \$6,753M   |
| Energy                 | 34    | \$77B  | \$228M     | \$898M     | \$4,592M   | \$5,226M   |
| Financials             | 28    | \$73B  | (\$1,817M) | (\$8,240M) | (\$3,538M) | \$742M     |
| Health Care            | 26    | \$90B  | (\$113M)   | \$3,436M   | \$9,015M   | \$12,323M  |
| Industrial             | 14    | \$33B  | \$162M     | (\$1M)     | (\$889M)   | (\$4,960M) |
| Materials              | 10    | \$20B  | \$131M     | \$2,168M   | \$2,865M   | \$2,826M   |
| Multi-Sector           | 18    | \$17B  | (\$58M)    | (\$4,479M) | (\$3,922M) | (\$2,882M) |
| Real Estate            | 23    | \$81B  | \$129M     | (\$1,732M) | \$2,609M   | \$8,825M   |
| Technology             | 24    | \$128B | (\$418M)   | (\$240M)   | \$1,396M   | \$6,562M   |
| Utilities              | 10    | \$25B  | \$331M     | \$2,126M   | \$2,987M   | \$3,081M   |

## U.S. Sector & Industry Flow Leaders

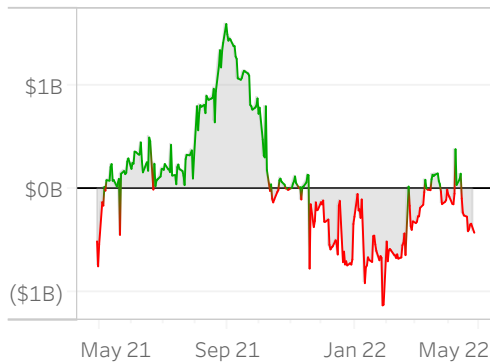
| Ticker | Fund                                     | 1 Week | 3 Month    | 6 Month    | 1 Year     | AUM       |
|--------|------------------------------------------|--------|------------|------------|------------|-----------|
| XRT    | SPDR S&P Retail ETF                      | \$438M | \$169M     | (\$417M)   | \$192M     | \$777M    |
| FTXG   | First Trust Nasdaq Food & Beverage ETF   | \$350M | \$355M     | \$357M     | \$357M     | \$361M    |
| XLU    | Utilities Select Sector SPDR Fund        | \$217M | \$1,038M   | \$1,736M   | \$1,520M   | \$15,373M |
| XBI    | SPDR S&P BIOTECH ETF                     | \$140M | \$902M     | \$2,347M   | \$2,253M   | \$6,205M  |
| XLB    | Materials Select Sector SPDR Fund        | \$136M | (\$242M)   | \$227M     | (\$370M)   | \$7,821M  |
| FTXN   | First Trust Nasdaq Oil & Gas ETF         | \$134M | (\$65M)    | \$893M     | \$922M     | \$1,271M  |
| XLP    | Consumer Staples Select Sector SPDR Fund | \$109M | \$1,453M   | \$3,800M   | \$4,711M   | \$16,831M |
| XLI    | Industrial Select Sector SPDR Fund       | \$98M  | (\$1,559M) | (\$2,275M) | (\$5,400M) | \$14,915M |
| XLRE   | Real Estate Select Sector SPDR Fund      | \$87M  | (\$12M)    | \$1,434M   | \$2,666M   | \$6,066M  |
| ITA    | iShares U.S. Aerospace & Defense ETF     | \$83M  | \$1,317M   | \$1,244M   | \$871M     | \$3,902M  |

## U.S. Sector & Industry Flow Laggards

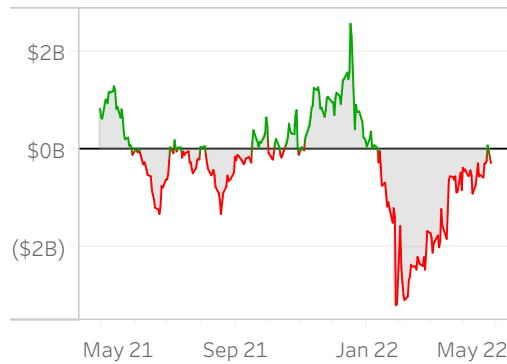
| Ticker | Fund                                            | 1 Week     | 3 Month    | 6 Month    | 1 Year     | AUM       |
|--------|-------------------------------------------------|------------|------------|------------|------------|-----------|
| XLF    | Financial Select Sector SPDR Fund               | (\$1,619M) | (\$5,208M) | (\$1,740M) | (\$971M)   | \$38,812M |
| FXD    | First Trust Consumer Discretionary AlphaDEX F.. | (\$787M)   | (\$946M)   | (\$1,056M) | (\$944M)   | \$662M    |
| XLK    | Technology Select Sector SPDR Fund              | (\$324M)   | \$903M     | \$1,145M   | \$2,365M   | \$43,015M |
| XLV    | Health Care Select Sector SPDR Fund             | (\$225M)   | \$2,474M   | \$6,073M   | \$9,168M   | \$37,506M |
| XLE    | Energy Select Sector SPDR Fund                  | (\$152M)   | (\$1,573M) | \$71M      | \$807M     | \$36,756M |
| IGV    | iShares Expanded Tech-Software Sector ETF       | (\$126M)   | (\$433M)   | \$174M     | \$290M     | \$4,491M  |
| IYZ    | iShares U.S. Telecommunications ETF             | (\$120M)   | \$35M      | (\$4M)     | (\$20M)    | \$377M    |
| IBB    | iShares Biotechnology ETF                       | (\$95M)    | (\$256M)   | \$144M     | (\$55M)    | \$7,942M  |
| XLY    | Consumer Discretionary Select Sector SPDR Fu..  | (\$92M)    | (\$1,173M) | (\$711M)   | (\$1,539M) | \$18,637M |
| KBWB   | Invesco KBW Bank ETF                            | (\$81M)    | (\$573M)   | (\$607M)   | \$63M      | \$2,378M  |

\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

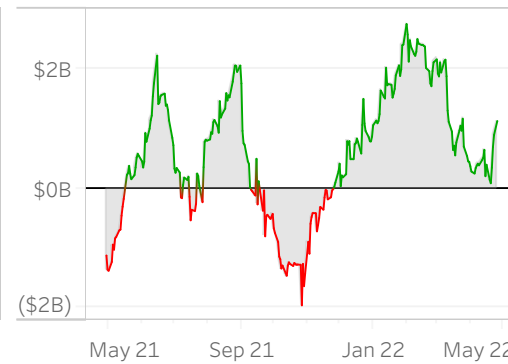
Communication Services



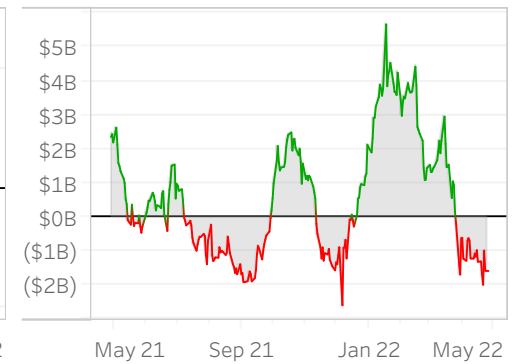
Consumer Discretionary



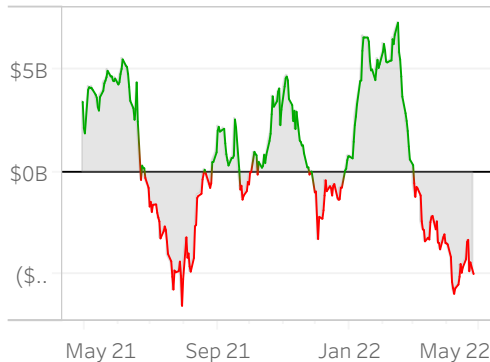
Consumer Staples



Energy



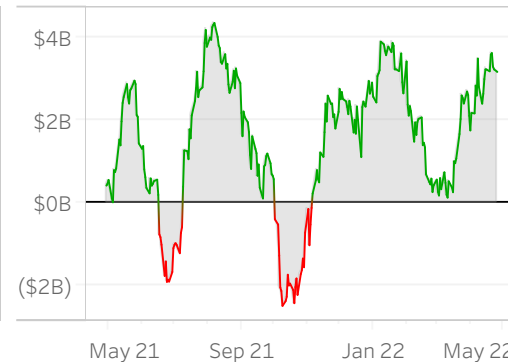
Financials



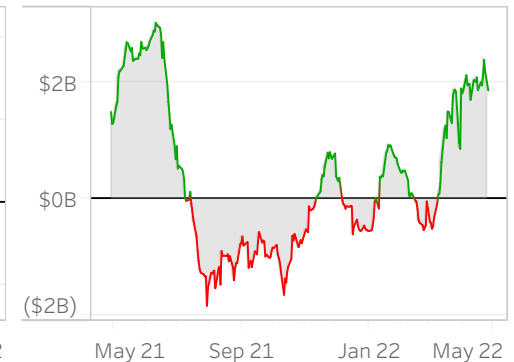
Industrial



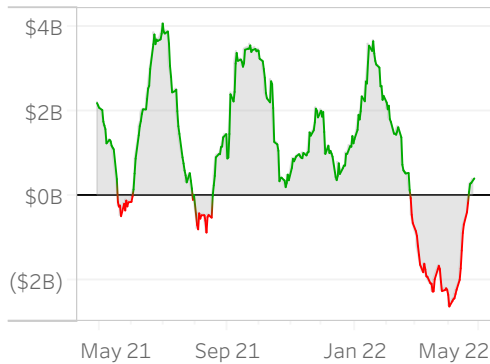
Health Care



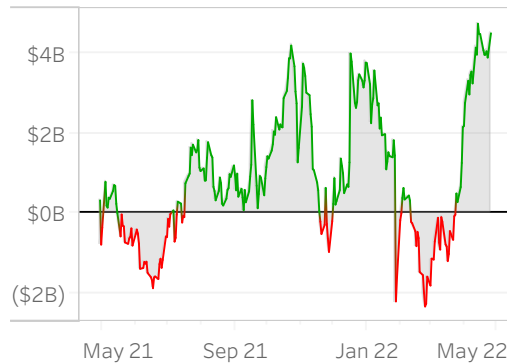
Materials



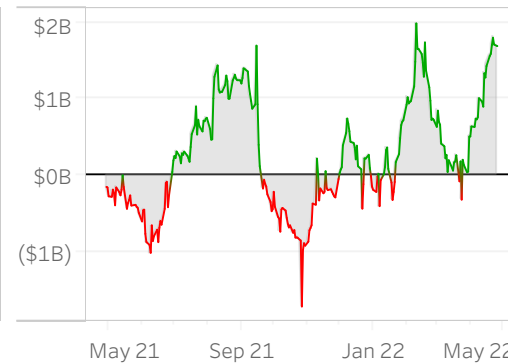
Real Estate



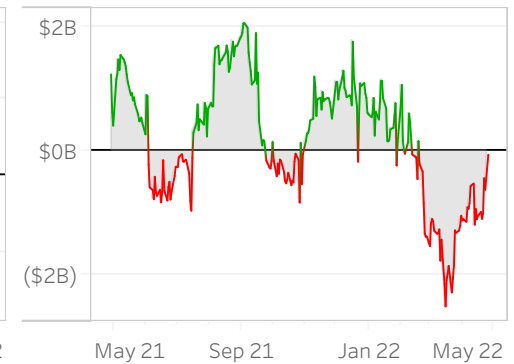
Technology



Utilities

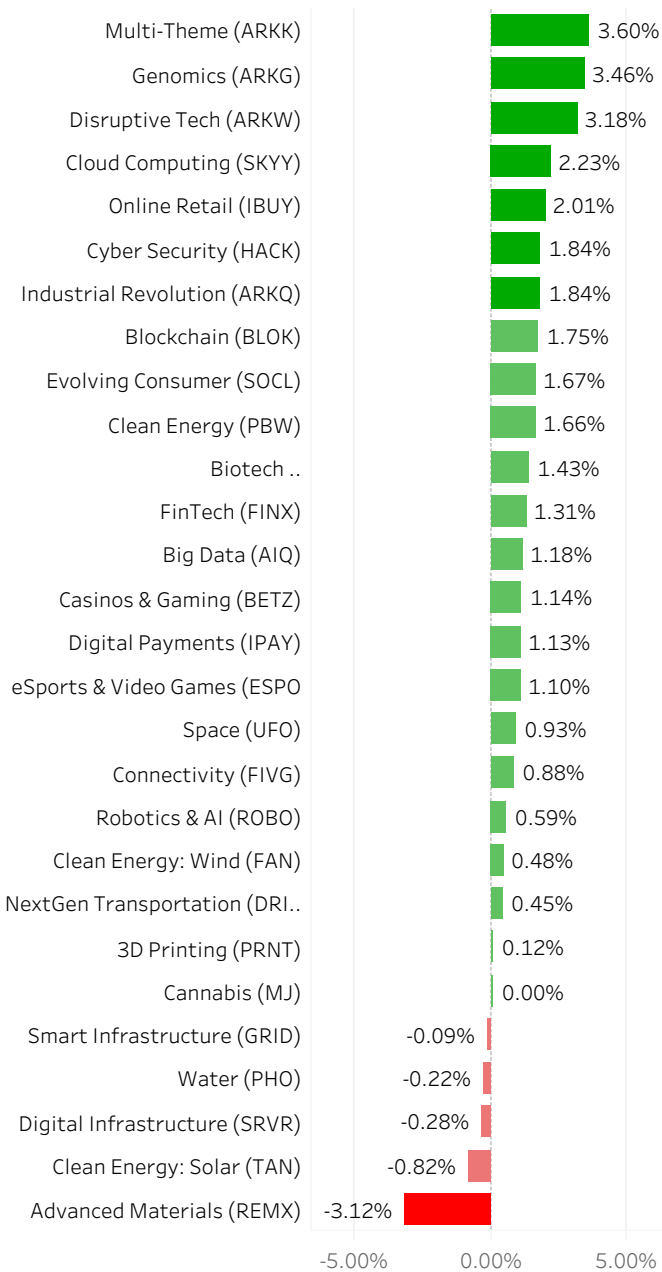


Multi-Sector

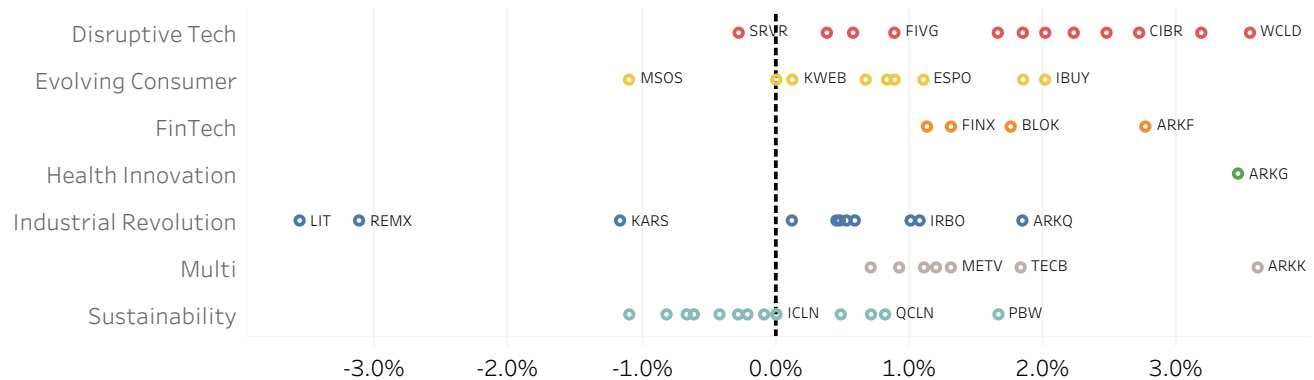


\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

## Global Thematic Segment 1-Day Performance



## Global Thematic 1-Day Performance Landscape



## Global Thematic 1-Day Performance Leaders

| Ticker | Fund                                   | Performance |
|--------|----------------------------------------|-------------|
| ARKK   | ARK Innovation ETF                     | 3.60%       |
| WCLD   | WisdomTree Cloud Computing Fund        | 3.55%       |
| ARKG   | ARK Genomic Revolution ETF             | 3.46%       |
| ARKW   | ARK Next Generation Internet ETF       | 3.18%       |
| MOON   | Direxion Moonshot Innovators ETF       | 2.90%       |
| ARKF   | ARK Fintech Innovation ETF             | 2.76%       |
| CIBR   | First Trust NASDAQ Cybersecurity ETF   | 2.72%       |
| XITK   | SPDR FactSet Innovative Technology ETF | 2.48%       |
| BUG    | Global X Cybersecurity ETF             | 2.47%       |
| BTEC   | Principal Healthcare Innovators ETF    | 2.23%       |

## Thematic Most Overbought

| Ticker | Fund                                                      | Price |
|--------|-----------------------------------------------------------|-------|
| SRVR   | Pacer Benchmark Data & Infrastructure Real Estate SCTR .. | 49.25 |
| BUG    | Global X Cybersecurity ETF                                | 47.98 |
| CIBR   | First Trust NASDAQ Cybersecurity ETF                      | 45.95 |
| IHAK   | iShares Cybersecurity & Tech ETF                          | 45.74 |
| AWAY   | ETFMG Travel Tech ETF                                     | 44.49 |
| VPN    | Global X Data Center REITs & Digital Infrastructure ETF   | 43.85 |
| HACK   | ETFMG Prime Cyber Security ETF                            | 43.32 |
| AGNG   | Global X Aging Population ETF                             | 43.02 |
| EVX    | VanEck Environmental Services ETF                         | 42.60 |
| CLOU   | Global X Cloud Computing ETF                              | 42.03 |

## Global Thematic 1-Day Performance Laggards

| Ticker | Fund                                                     | Performance |
|--------|----------------------------------------------------------|-------------|
| KSTR   | KraneShares SSE STAR Market 50 Index ETF                 | -6.36%      |
| KGRN   | KraneShares MSCI China Clean Technology Index ETF        | -4.28%      |
| LIT    | Global X Lithium & Battery Tech ETF                      | -3.57%      |
| REMX   | VanEck Rare Earth/Strategic Metals ETF                   | -3.12%      |
| GDOC   | Goldman Sachs Future Health Care Equity ETF              | -2.56%      |
| BATT   | Amplify Lithium & Battery Technology ETF                 | -2.38%      |
| CNBS   | Amplify Seymour Cannabis ETF                             | -1.95%      |
| KARS   | KraneShares Electric Vehicles & Future Mobility Index .. | -1.17%      |
| MSOS   | AdvisorShares Pure US Cannabis ETF                       | -1.10%      |
| CNRG   | SPDR S&P Kensho Clean Power ETF                          | -1.10%      |

## Thematic Most Oversold

| Ticker | Fund                                     | Price |
|--------|------------------------------------------|-------|
| KSTR   | KraneShares SSE STAR Market 50 Index ETF | 19.57 |
| CNBS   | Amplify Seymour Cannabis ETF             | 27.10 |
| YOLO   | AdvisorShares Pure Cannabis ETF          | 27.94 |
| MSOS   | AdvisorShares Pure US Cannabis ETF       | 28.08 |
| LIT    | Global X Lithium & Battery Tech ETF      | 28.90 |
| GBUY   | Goldman Sachs Future Consumer Equity ETF | 29.91 |
| TAN    | Invesco Solar ETF                        | 31.09 |
| BATT   | Amplify Lithium & Battery Technology ETF | 31.24 |
| CNRG   | SPDR S&P Kensho Clean Power ETF          | 31.27 |
| REMX   | VanEck Rare Earth/Strategic Metals ETF   | 31.43 |

\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

## Thematic 1 Week Flow Leaders

| Ticker | Fund                                            |       |
|--------|-------------------------------------------------|-------|
| CIBR   | First Trust NASDAQ Cybersecurity ETF            | \$91M |
| ARKW   | ARK Next Generation Internet ETF                | \$52M |
| ARKK   | ARK Innovation ETF                              | \$28M |
| BUG    | Global X Cybersecurity ETF                      | \$24M |
| AWAY   | ETFMG Travel Tech ETF                           | \$13M |
| ACES   | ALPS Clean Energy ETF                           | \$10M |
| KOMP   | SPDR S&P Kensho New Economies Composite ETF     | \$9M  |
| SAMT   | Strategas Macro Thematic Opportunities ETF      | \$6M  |
| HYDR   | Global X Hydrogen ETF                           | \$5M  |
| TENG   | Direxion Daily 5G Communications Bull 2X Shares | \$4M  |

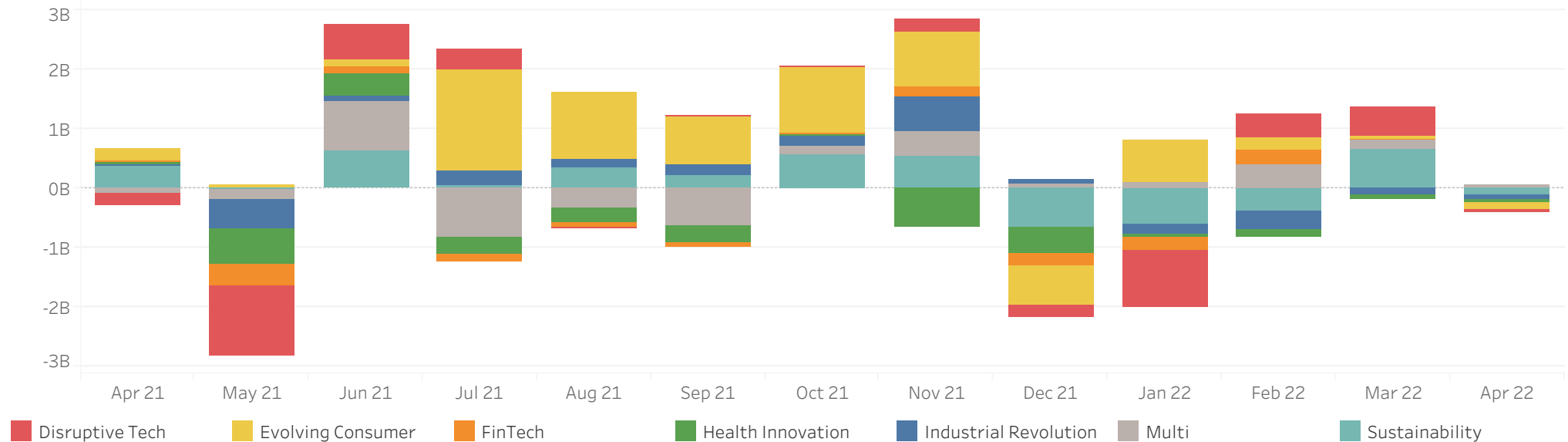
## Thematic 1 Week Flow Laggards

| Ticker | Fund                                                   |          |
|--------|--------------------------------------------------------|----------|
| KWEB   | KraneShares CSI China Internet ETF                     | (\$165M) |
| TAN    | Invesco Solar ETF                                      | (\$76M)  |
| ICLN   | iShares Global Clean Energy ETF                        | (\$20M)  |
| CLOU   | Global X Cloud Computing ETF                           | (\$19M)  |
| ARKG   | ARK Genomic Revolution ETF                             | (\$18M)  |
| SKYY   | First Trust Cloud Computing ETF                        | (\$17M)  |
| RNRG   | Global X Funds Global X Renewable Energy Producers ETF | (\$12M)  |
| REMX   | VanEck Rare Earth/Strategic Metals ETF                 | (\$11M)  |
| XT     | iShares Exponential Technologies ETF                   | (\$11M)  |
| EBIZ   | Global X E-Commerce ETF                                | (\$10M)  |

## Thematic Landscape Assets & Flows

| Segment               | Funds | AUM   | 1 Week   | 3 Month  | 6 Month    | 1 Year     |
|-----------------------|-------|-------|----------|----------|------------|------------|
| Disruptive Tech       | 36    | \$22B | \$58M    | \$719M   | (\$15M)    | (\$497M)   |
| Evolving Consumer     | 46    | \$11B | (\$182M) | \$132M   | \$1,092M   | \$6,272M   |
| FinTech               | 22    | \$4B  | (\$5M)   | \$249M   | (\$7M)     | (\$482M)   |
| Health Innovation     | 19    | \$4B  | (\$47M)  | (\$168M) | (\$1,393M) | (\$2,351M) |
| Industrial Revolution | 29    | \$13B | (\$28M)  | (\$492M) | \$244M     | \$334M     |
| Multi                 | 38    | \$17B | (\$23M)  | \$551M   | \$1,008M   | (\$26M)    |
| Sustainability        | 40    | \$18B | (\$103M) | \$38M    | (\$360M)   | \$1,458M   |
| Grand Total           | 230   | \$91B | (\$330M) | \$1,027M | \$570M     | \$4,707M   |

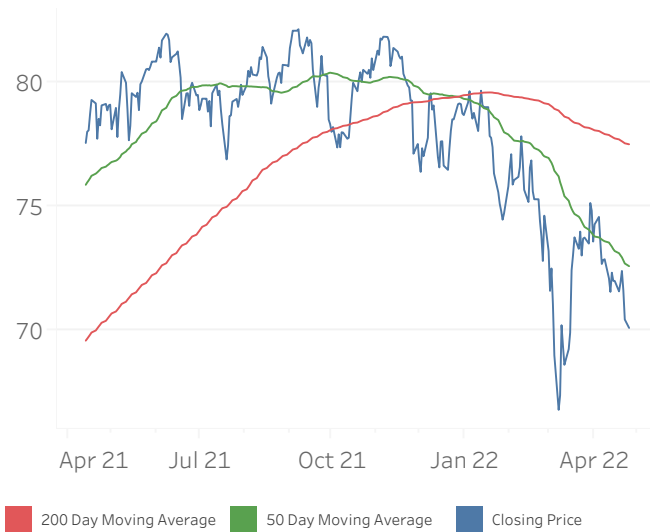
## Thematic Monthly Flows



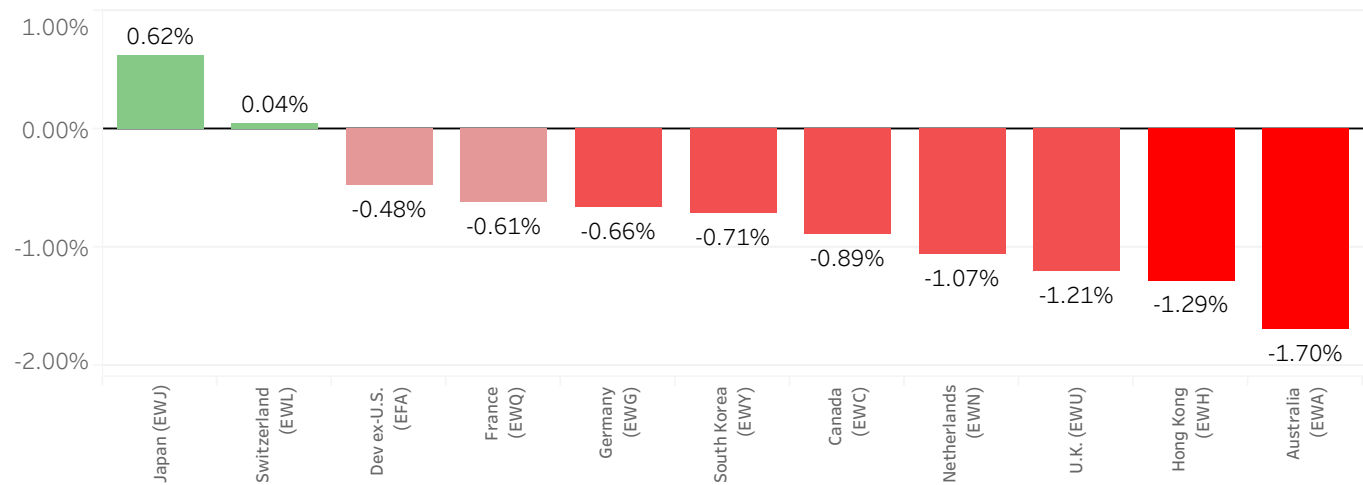
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



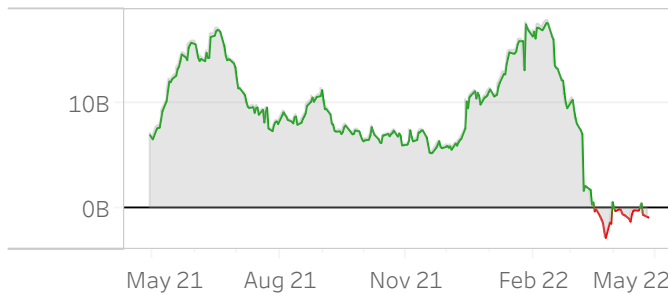
Developed ex-U.S. (EFA)



Developed ex-U.S. 1-Day Performance Top 10 Countries



Developed ex-U.S. 30-Day Rolling Flows



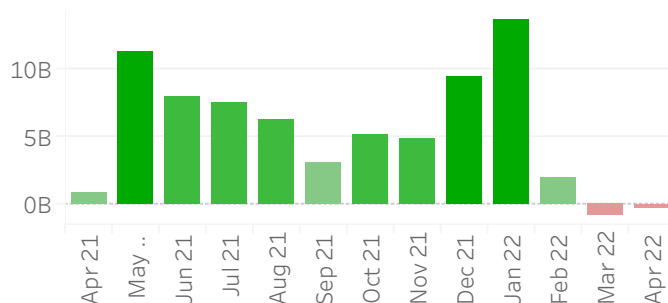
Developed ex-U.S. 1-Day Performance Leaders

| Ticker | Fund                                                      | 1-Day Performance |
|--------|-----------------------------------------------------------|-------------------|
| ISRA   | VanEck Israel ETF                                         | 1.12%             |
| EIS    | iShares MSCI Israel ETF                                   | 0.86%             |
| BBJP   | JPMorgan BetaBuilders Japan ETF                           | 0.68%             |
| LVHI   | Legg Mason International Low Volatility High Dividend ETF | 0.62%             |
| EWJ    | iShares MSCI Japan ETF                                    | 0.62%             |
| FLJP   | Franklin FTSE Japan ETF                                   | 0.56%             |
| JPXN   | iShares JPX-Nikkei 400 ETF                                | 0.43%             |
| EWP    | iShares MSCI Spain ETF                                    | 0.39%             |
| TOK    | iShares MSCI Kokusai ETF                                  | 0.34%             |
| HEWJ   | iShares Currency Hedged MSCI Japan ETF                    | 0.32%             |

Developed ex-U.S. Most Overbought

| Ticker | Fund                                                      | Value |
|--------|-----------------------------------------------------------|-------|
| EUSC   | WisdomTree Europe Hedged SmallCap Equity Fund             | 55.36 |
| LVHI   | Legg Mason International Low Volatility High Dividend ETF | 54.75 |
| DXJ    | WisdomTree Japan Hedged Equity Fund                       | 49.95 |
| HEDJ   | WisdomTree Europe Hedged Equity Fund                      | 49.25 |
| EWP    | iShares MSCI Spain ETF                                    | 49.24 |
| GREK   | Global X MSCI Greece ETF                                  | 48.81 |
| HEWJ   | iShares Currency Hedged MSCI Japan ETF                    | 47.56 |
| HEZU   | iShares Currency Hedged MSCI Eurozone ETF                 | 47.43 |
| EIRL   | iShares MSCI Ireland ETF                                  | 47.23 |
| DBEU   | Xtrackers MSCI Europe Hedged Equity ETF                   | 47.20 |

Developed ex-U.S. Monthly Flows



Developed ex-U.S. 1-Day Performance Laggards

| Ticker | Fund                                                      | 1-Day Performance |
|--------|-----------------------------------------------------------|-------------------|
| NORW   | Global X MSCI Norway ETF                                  | -3.60%            |
| EWD    | iShares MSCI Sweden ETF                                   | -2.32%            |
| FDT    | First Trust Developed Markets ex-US AlphaDEX Fund         | -1.70%            |
| EWA    | iShares MSCI Australia ETF                                | -1.70%            |
| IVAL   | Alpha Architect International Quantitative Value ETF      | -1.68%            |
| FEP    | First Trust Europe AlphaDEX Fund                          | -1.59%            |
| BBAX   | JPMorgan BetaBuilders Developed Asia Pacific-ex Japan E.. | -1.56%            |
| FYLD   | Cambria Foreign Shareholder Yield ETF                     | -1.45%            |
| AVDV   | Avantis International Small Cap Value ETF                 | -1.38%            |
| UIVM   | VictoryShares USAA MSCI International Value Momentum..    | -1.33%            |

Developed ex-U.S. Most Oversold

| Ticker | Fund                                                 | Value |
|--------|------------------------------------------------------|-------|
| PTIN   | Pacer Trendpilot International ETF                   | 26.93 |
| IQDG   | WisdomTree International Quality Dividend Growth ..  | 28.98 |
| DFJ    | WisdomTree Japan SmallCap Dividend Fund              | 29.31 |
| SCJ    | iShares MSCI Japan Small-Cap ETF                     | 29.43 |
| EWH    | iShares MSCI Hong Kong ETF                           | 31.61 |
| BBAX   | JPMorgan BetaBuilders Developed Asia Pacific-ex Ja.. | 31.98 |
| AAXJ   | iShares MSCI All Country Asia ex Japan ETF           | 32.07 |
| ENZL   | iShares MSCI New Zealand ETF                         | 32.14 |
| AIA    | iShares Asia 50 ETF                                  | 32.19 |
| WPS    | iShares International Developed Property ETF         | 32.27 |

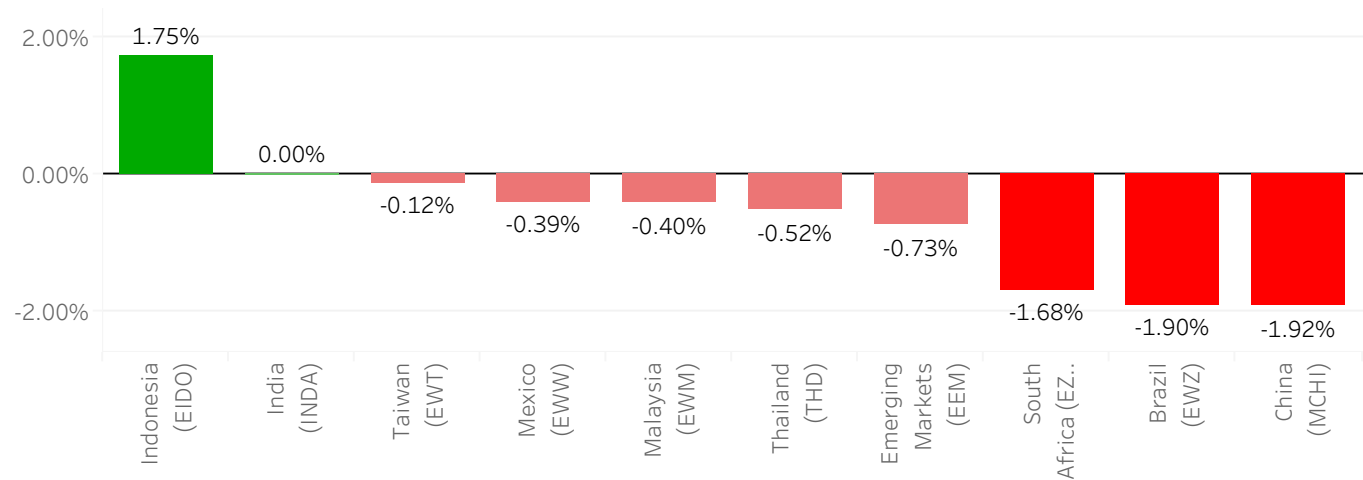
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



Emerging (EEM)



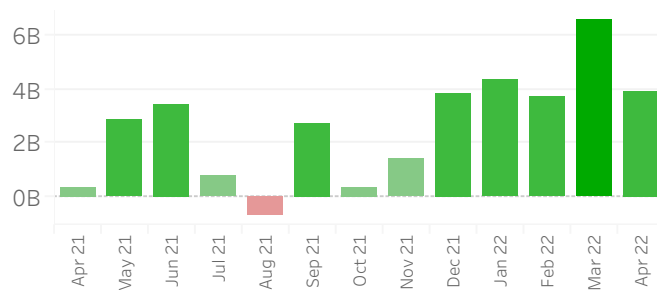
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

| Ticker | Fund                             | 1-Day Performance |
|--------|----------------------------------|-------------------|
| EIDO   | iShares MSCI Indonesia ETF       | 1.75%             |
| TUR    | iShares MSCI Turkey ETF          | 1.67%             |
| FNI    | First Trust Chindia ETF          | 0.87%             |
| EPHE   | iShares MSCI Philippines ETF     | 0.60%             |
| IDX    | VanEck Indonesia Index ETF       | 0.60%             |
| PGJ    | Invesco Golden Dragon China ETF  | 0.59%             |
| KSA    | iShares MSCI Saudi Arabia ETF    | 0.47%             |
| INDY   | iShares India 50 ETF             | 0.40%             |
| SMIN   | iShares MSCI India Small Cap ETF | 0.23%             |
| PIN    | Invesco India ETF                | 0.02%             |

Emerging Most Overbought

| Ticker | Fund                                        | Price |
|--------|---------------------------------------------|-------|
| TUR    | iShares MSCI Turkey ETF                     | 65.22 |
| KSA    | iShares MSCI Saudi Arabia ETF               | 57.84 |
| IDX    | VanEck Indonesia Index ETF                  | 57.09 |
| EIDO   | iShares MSCI Indonesia ETF                  | 56.33 |
| SMIN   | iShares MSCI India Small Cap ETF            | 47.00 |
| NFTY   | First Trust India NIFTY 50 Equal Weight ETF | 45.86 |
| QAT    | iShares MSCI Qatar ETF                      | 45.81 |
| EPI    | WisdomTree India Earnings Fund              | 45.65 |
| INDA   | iShares MSCI India ETF                      | 45.56 |
| PIN    | Invesco India ETF                           | 44.90 |

Emerging 1-Day Performance Laggards

| Ticker | Fund                                                 | 1-Day Performance |
|--------|------------------------------------------------------|-------------------|
| CNYA   | iShares MSCI China A ETF                             | -5.84%            |
| ASHR   | Xtrackers Harvest CSI 300 China A-Shares ETF         | -5.55%            |
| EPU    | iShares MSCI Peru ETF                                | -5.29%            |
| KBA    | KraneShares Bosera MSCI China A 50 Connect Index ETF | -5.27%            |
| ECH    | iShares MSCI Chile ETF                               | -3.73%            |
| CXSE   | WisdomTree China ex-State-Owned Enterprises Fund     | -2.41%            |
| GXC    | SPDR S&P China ETF                                   | -2.20%            |
| ILF    | iShares Latin America 40 ETF                         | -2.14%            |
| DVYE   | iShares Emerging Markets Dividend ETF                | -2.06%            |
| ECNS   | iShares MSCI China Small-Cap ETF                     | -2.03%            |

Emerging Most Oversold

| Ticker | Fund                                                | Price |
|--------|-----------------------------------------------------|-------|
| EPU    | iShares MSCI Peru ETF                               | 17.80 |
| VNM    | VanEck Vietnam ETF                                  | 18.68 |
| CNYA   | iShares MSCI China A ETF                            | 20.07 |
| ASHR   | Xtrackers Harvest CSI 300 China A-Shares ETF        | 21.59 |
| EZA    | iShares MSCI South Africa ETF                       | 23.55 |
| KBA    | KraneShares Bosera MSCI China A 50 Connect Index .. | 23.55 |
| DVYE   | iShares Emerging Markets Dividend ETF               | 26.52 |
| FRDM   | Freedom 100 Emerging Markets ETF                    | 27.10 |
| DEM    | WisdomTree Emerging Markets High Dividend Fund      | 27.45 |
| DGRE   | WisdomTree Emerging Markets Quality Dividend Gr..   | 27.84 |

\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Fixed Income (AGG)



Commodities (DJP)



Currencies (UUP)



■ 200 Day Moving Average 
 ■ 50 Day Moving Average 
 ■ Closing Price

Fixed Income Performance

| Ticker | Name                          | 1 Day  | 1 Month | YTD     |
|--------|-------------------------------|--------|---------|---------|
| AGG    | U.S. Aggregate                | 0.67%  | -2.18%  | -8.76%  |
| SHY    | 1-3 Year Treasury Bonds       | 0.16%  | -0.34%  | -2.86%  |
| IEF    | 7-10 Year Treasury Bonds      | 0.64%  | -2.42%  | -9.82%  |
| TLT    | 20+ Year Treasury Bonds       | 1.00%  | -5.66%  | -17.87% |
| TIP    | TIPS Bonds                    | -0.07% | -2.27%  | -4.98%  |
| FLOT   | Floating Rate Bonds           | 0.12%  | 0.18%   | -0.22%  |
| LQD    | Investment Grade Corporate    | 1.11%  | -3.65%  | -12.94% |
| HYG    | High Yield Corporate          | 0.85%  | -1.31%  | -7.09%  |
| BKLN   | Senior Loan                   | 0.14%  | 0.69%   | -0.80%  |
| PFF    | Preferred & Income Securities | 0.23%  | -3.03%  | -11.84% |
| MUB    | Municipal Bonds               | 0.01%  | -2.19%  | -7.75%  |
| MBB    | MBS                           | 0.55%  | -2.40%  | -8.17%  |
| EMB    | Dollar Denominated EM Bonds   | 1.17%  | -2.48%  | -13.62% |
| LEMB   | Local Currency EM Bond        | -0.84% | -2.04%  | -9.20%  |

Commodities Performance

| Ticker | Name                    | 1 Day  | 1 Month | YTD    |
|--------|-------------------------|--------|---------|--------|
| DJP    | Broad Commodities       | -0.78% | -1.75%  | 32.75% |
| DBE    | Energy                  | -0.57% | -0.34%  | 42.74% |
| USO    | WTI Crude Oil           | -2.18% | -7.54%  | 37.33% |
| BNO    | Brent Crude Oil         | -2.68% | -11.22% | 40.75% |
| UNG    | Natural Gas             | 6.70%  | 24.27%  | 93.92% |
| UGA    | Gasoline                | -1.12% | -4.66%  | 40.70% |
| DBP    | Precious Metals         | -1.83% | -4.00%  | 2.75%  |
| GLD    | Gold                    | -1.80% | -2.92%  | 3.56%  |
| SLV    | Silver                  | -2.15% | -7.03%  | 1.49%  |
| PPLT   | abrdn Physical Platin.. | -0.86% | -8.48%  | -4.72% |
| PALL   | abrdn Physical Palla..  | -9.34% | -8.42%  | 12.96% |
| DBB    | Base Metals             | -3.38% | -5.27%  | 10.60% |
| CPER   | Copper                  | -2.01% | -4.68%  | 0.22%  |
| LD     | Lead                    | -1.81% | 0.96%   | 1.70%  |
| JJN    | Nickel                  | -1.39% | -8.35%  | 58.39% |
| JJU    | Aluminum                | -4.68% | -14.89% | 9.74%  |
| JJT    | Tin                     | -4.71% | -5.30%  | 3.39%  |
| DBA    | Agriculture             | -0.81% | -0.45%  | 12.15% |
| CORN   | Corn                    | 1.38%  | 9.15%   | 36.21% |
| SOYB   | Soybeans                | -0.60% | 1.04%   | 24.31% |
| WEAT   | Wheat                   | 0.66%  | 0.38%   | 44.11% |
| CANE   | Sugar                   | -1.04% | -2.77%  | 2.93%  |
| BAL    | Cotton                  | -0.54% | 0.29%   | 24.06% |
| NIB    | Cocoa                   | -2.17% | -4.68%  | -5.37% |
| JO     | Coffee                  | -2.11% | -0.35%  | -1.70% |

Currencies Performance

| Ticker | Name                   | 1 Day  | 1 Month | YTD     |
|--------|------------------------|--------|---------|---------|
| UUP    | Long Dollar            | 0.48%  | 2.92%   | 6.05%   |
| UDN    | Short Dollar           | -0.62% | -3.02%  | -6.23%  |
| FXE    | Euro                   | -0.72% | -2.54%  | -6.12%  |
| FXB    | British Pound Sterling | -0.74% | -3.48%  | -5.91%  |
| FXF    | Swiss Franc            | -0.25% | -3.15%  | -5.32%  |
| FXJ    | Japanese Yen           | 0.43%  | -4.61%  | -10.20% |
| FXC    | Canadian Dollar        | -0.05% | -2.10%  | -0.83%  |
| FXA    | Australian Dollar      | -0.89% | -4.65%  | -1.37%  |

\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

*Disclaimer of Warranties*

Except for the express warranties set forth in the terms of service, all services, including all ETF Action materials, are provided on an “as is,” “where is” basis, and ETF Action and its licensors disclaim all representations or warranties, express or implied as to the services. ETF Action and its licensors specifically disclaim all implied warranties of merchantability, fitness for a particular purpose, title and non-infringement, and all warranties arising from course of dealing, usage or trade practice. Without limiting the foregoing, ETF Action and its licensors make no warranty of any kind that the services or ETF Action materials, or any products or results of the use thereof, will meet customer’s or any other person’s requirements, operate without interruption, achieve any intended result, be compatible or work with any software, system or other services, or be secure, accurate, complete, timely, free of harmful code or error free. All third-party materials are provided “as is” and any representation or warranty of or concerning any third-party materials is strictly between customer and the third-party owner or distributor of the third-party materials.

*Additional Disclaimers*

The services are not intended and should not be construed as financial or investment advice, a recommendation or promotion. Neither ETF Action nor its licensors shall be responsible for investment decisions, damages, or other losses *resulting from use of the services*. *Past performance* does not guarantee future performance. Neither ETF Action nor its licensors shall be considered an “expert” under the securities act of 1933. Neither ETF Action nor its licensors warrant that the services comply with the requirements of the NASD or any similar organization or with the securities laws of any jurisdiction. Any information contained in the services should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

Distribution prohibited without prior permission. Full terms of service, including terms of use, copyrights, and disclaimers are available at <https://www.etfaction.com/terms>.

© Copyright ETF Action, Inc. All Rights Reserved.

*Data Reliability and Definitions*

ETF Action, LLC believes the information herein to be accurate (at time of publication) and was obtained from reliable sources, but makes no guarantees with respect to its accuracy. Calculations of fundamental data are based on weighted averages of reported results and consensus estimates of current ETF constituents. Valuation data (price/earnings, price/sales, price/cash flow, price/book value) are calculated using per share data divided by current NAV of corresponding ETF. Performance, risk and technical data (moving averages, relative performance, RSI) calculated for specified periods using ETF market price which may differ from net asset value (NAV).

ETF Action Sector Beta Composites represent ETFs that meet stringent criteria surrounding index methodology, liquidity, assets under management, and management fee.

*Source Data & ETF Issuer Information ..*

ETF Action is an independent technology and research firm focused on helping advisors build better portfolios, create engaging experiences with their clients, and navigate the vast ETF landscape.

Contact us at:

[team@etfaction.com](mailto:team@etfaction.com)

[www.etfaction.com](http://www.etfaction.com)