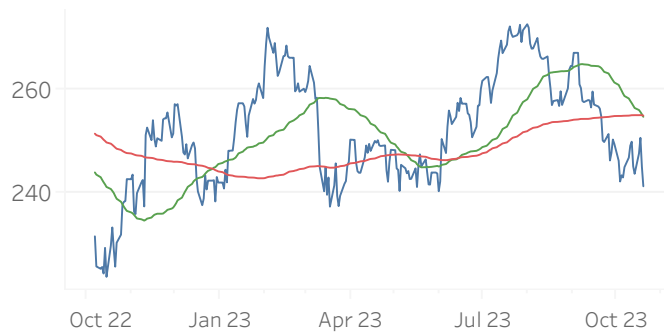


Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

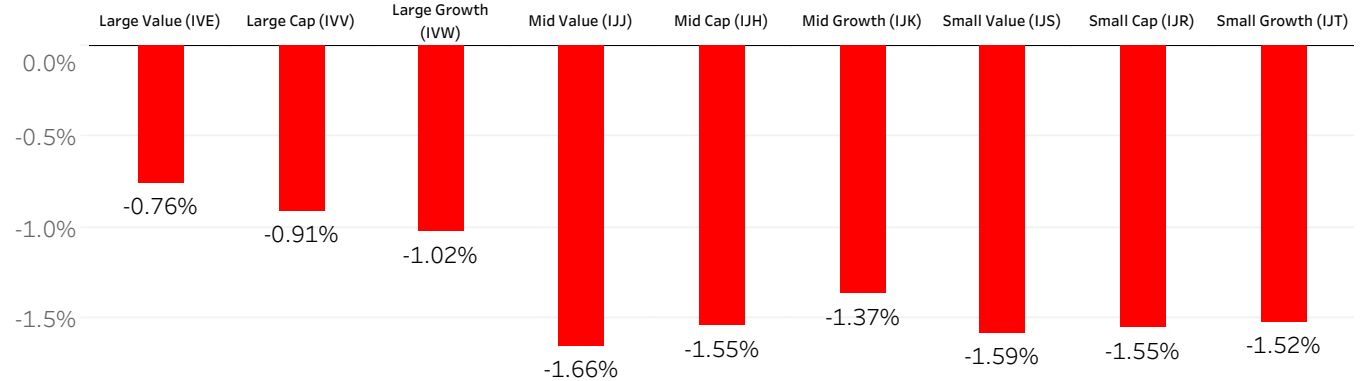


Small Cap Blend (S&P 600) IJR



■ 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
SPC	CrossingBridge Pre-Merger SPAC ETF	0.09%
PWB	Invesco Large Cap Growth ETF	-0.14%
PTNQ	Pacer Trendpilot 100 ETF	-0.19%
RPHS	Regents Park Hedged Market Strategy ETF	-0.23%
CDC	VictoryShares US EQ Income Enhanced Volatility Wtd ETF	-0.25%
DJD	Invesco Dow Jones Industrial Average Dividend ETF	-0.48%
CSF	VictoryShares US Discovery Enhanced Volatility Wtd ETF	-0.50%
QARP	Xtrackers Russell 1000 US Quality at a Reasonable Price..	-0.51%
HKND	Humankind US Stock ETF	-0.51%
JEPQ	J.P. Morgan Nasdaq Equity Premium Income ETF	-0.53%

Size & Style Most Overbought

Ticker	Fund	Value
SPC	CrossingBridge Pre-Merger SPAC ETF	62.35
RPG	Invesco S&P 500 Pure Growth ETF	48.77
VSMV	VictoryShares US Multi-Factor Minimum Volatility ETF	47.01
COWZ	Pacer US Cash Cows 100 ETF	46.95
PTNQ	Pacer Trendpilot 100 ETF	46.09
FDLO	Fidelity Low Volatility Factor ETF	45.98
TTAC	FCF US Quality ETF	45.09
SPGP	Invesco S&P 500 GARP ETF	44.76
FTCS	First Trust Capital Strength ETF	44.46
QLV	FlexShares US Quality Low Volatility Index Fund	44.27

Size & Style 1-Day Performance Laggards

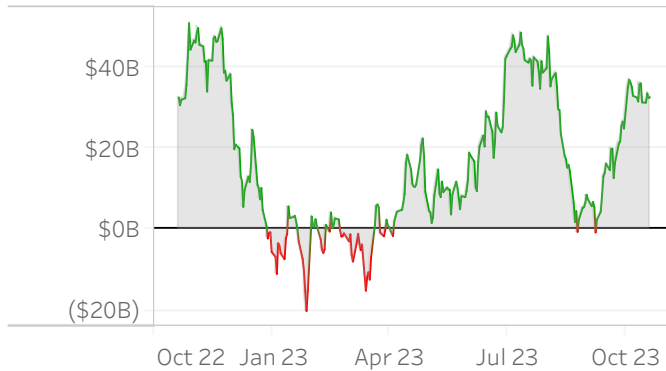
Ticker	Fund	1-Day Performance
XSMO	Invesco S&P SmallCap Momentum ETF	-2.64%
FFTY	Innovator IBD 50 ETF	-2.32%
JSMD	Janus Henderson Small/Mid Cap Growth Alpha ETF	-2.04%
OMFS	Invesco Russell 2000 Dynamic Multifactor ETF	-1.94%
XMMO	Invesco S&P MidCap Momentum ETF	-1.91%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	-1.87%
QQQN	VictoryShares Nasdaq Next 50 ETF	-1.84%
RFV	Invesco S&P Midcap 400 Pure Value ETF	-1.80%
JPSE	JPMorgan Diversified Return U.S. Small Cap Equity ETF	-1.79%
ISMD	Inspire Small/Mid Cap ETF	-1.78%

Size & Style Most Oversold

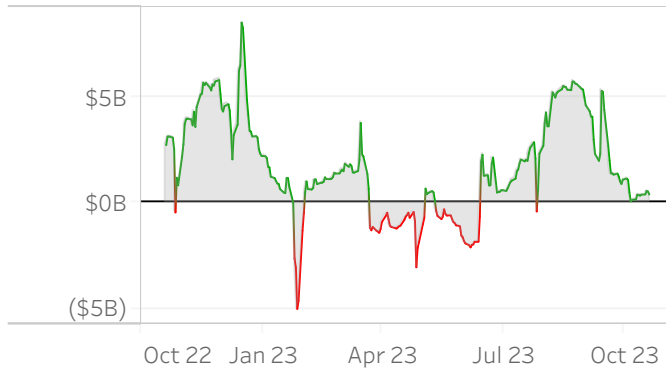
Ticker	Fund	Value
IWC	iShares Micro-Cap ETF	31.79
NOBL	ProShares S&P 500 Dividend Aristocrats ETF	31.84
DWAS	Invesco Dorsey Wright SmallCap Momentum ETF	33.63
QQQN	VictoryShares Nasdaq Next 50 ETF	33.83
ISCG	iShares Morningstar Small-Cap Growth ETF	34.13
IWO	iShares Russell 2000 Growth ETF	34.14
RPV	Invesco S&P 500 Pure Value ETF	34.15
VTWG	Vanguard Russell 2000 Growth ETF	34.34
BBSC	JPMorgan BetaBuilders U.S. Small Cap Equity ETF	34.61
NUSC	Nuveen ESG Small-Cap ETF	34.65

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

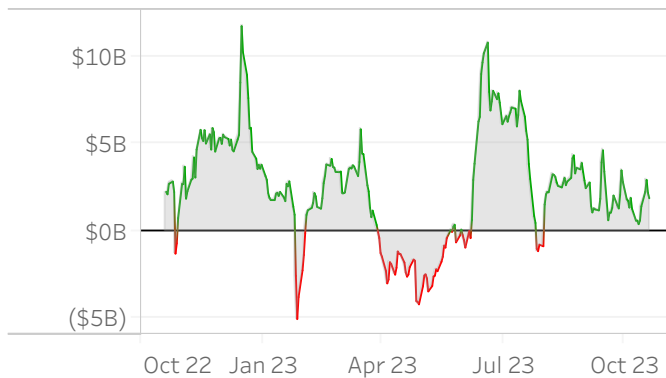
Large-Cap 30-Day Rolling Flows



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, Beta	26	\$1,430B	\$0.54B	\$27.91B	\$72.50B	\$71.06B
Large Cap, Beta, Beta: Growth	10	\$279B	\$0.34B	\$7.60B	\$8.16B	\$17.38B
Large Cap, Beta, Beta: Value	11	\$214B	(\$0.33B)	\$1.01B	(\$2.71B)	(\$6.26B)
Mid Cap, Beta, Beta	10	\$186B	\$0.01B	\$5.52B	\$5.92B	\$11.24B
Mid Cap, Beta, Beta: Growth	6	\$34B	(\$0.01B)	(\$0.26B)	\$0.59B	\$0.30B
Mid Cap, Beta, Beta: Value	6	\$36B	(\$0.07B)	(\$0.54B)	(\$1.62B)	(\$1.92B)
Small Cap, Beta, Beta	11	\$187B	(\$0.24B)	\$1.32B	\$7.03B	\$9.81B
Small Cap, Beta, Beta: Growth	7	\$31B	\$0.09B	(\$0.02B)	\$0.24B	\$0.68B
Small Cap, Beta, Beta: Value	7	\$45B	(\$0.04B)	(\$0.80B)	(\$1.34B)	(\$0.68B)

U.S. Size & Style Flow Leaders

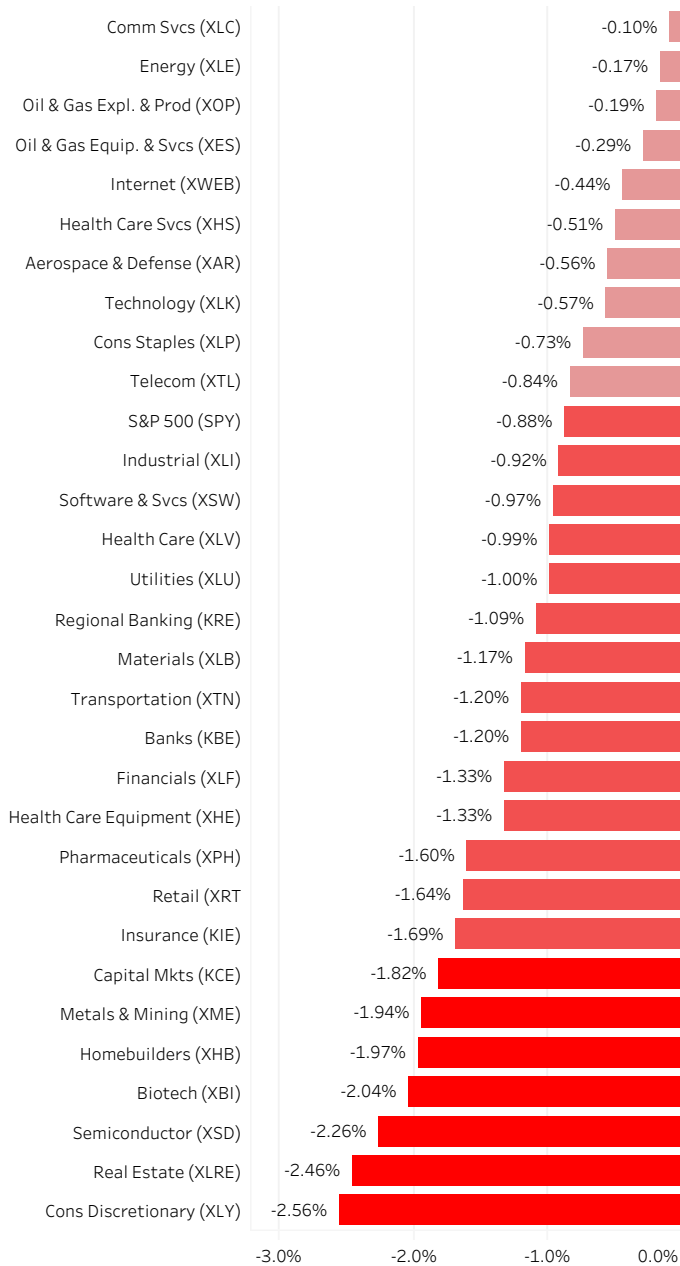
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	\$1.39B	(\$5.61B)	\$3.70B	(\$4.28B)	\$397.62B
IVV	iShares Core S&P 500 ETF	\$0.71B	\$18.20B	\$26.55B	\$23.63B	\$347.98B
IWY	iShares Russell Top 200 Growth ETF	\$0.53B	\$0.19B	\$0.34B	\$1.49B	\$7.20B
USMC	Principal U.S. Mega-Cap ETF	\$0.17B	\$0.21B	\$0.22B	\$0.37B	\$1.65B
COWZ	Pacer US Cash Cows 100 ETF	\$0.17B	\$1.86B	\$1.60B	\$6.60B	\$15.65B
SPLG	SPDR Portfolio S&P 500 ETF	\$0.16B	\$1.34B	\$2.28B	\$3.83B	\$19.71B
JEPQ	J.P. Morgan Nasdaq Equity Premium Income ..	\$0.14B	\$1.39B	\$3.73B	\$5.29B	\$6.03B
DGRO	iShares Core Dividend Growth ETF	\$0.13B	\$0.22B	\$0.19B	(\$0.80B)	\$23.10B
CALF	Pacer US Small Cap Cash Cows 100 ETF	\$0.11B	\$1.02B	\$1.50B	\$2.45B	\$3.75B
DFAT	Dimensional U.S. Targeted Value ETF	\$0.09B	\$0.25B	\$0.33B	\$0.80B	\$8.08B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VTI	Vanguard Total Stock Market ETF	(\$1.98B)	\$5.61B	\$11.40B	\$19.68B	\$306.22B
VOO	Vanguard S&P 500 ETF	(\$1.78B)	\$9.56B	\$25.36B	\$33.27B	\$327.16B
IWM	iShares Russell 2000 ETF	(\$0.33B)	(\$0.90B)	\$1.02B	(\$0.62B)	\$48.76B
VUG	Vanguard Growth ETF	(\$0.24B)	\$1.43B	\$0.66B	\$4.04B	\$91.12B
IWF	iShares Russell 1000 Growth ETF	(\$0.21B)	\$1.18B	\$0.66B	(\$0.94B)	\$70.45B
DIA	SPDR Dow Jones Industrial Average ETF Trust	(\$0.20B)	(\$1.97B)	(\$0.53B)	(\$1.40B)	\$27.99B
DVY	iShares Select Dividend ETF	(\$0.16B)	(\$0.84B)	(\$2.09B)	(\$1.94B)	\$17.63B
IWB	iShares Russell 1000 ETF	(\$0.15B)	(\$0.48B)	(\$0.56B)	(\$1.27B)	\$29.28B
SDY	SPDR S&P Dividend ETF	(\$0.14B)	(\$0.84B)	(\$1.43B)	(\$1.29B)	\$19.57B
IWD	iShares Russell 1000 Value ETF	(\$0.14B)	(\$0.52B)	(\$1.58B)	(\$5.13B)	\$47.68B

* 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)
XLE	Energy Select Sector SPDR Fund	-2.42%	19.86%	2.46%	7.99%	59.36
XLC	Communication Services Select Sector SPDR Fund	-2.43%	47.85%	0.61%	9.10%	50.91
SPY	SPDR S&P 500 ETF Trust	-6.85%	14.94%	-2.70%	0.73%	40.15
XLK	Technology Select Sector SPDR Fund	-7.49%	40.35%	-1.24%	5.67%	46.06
XLV	Health Care Select Sector SPDR Fund	-8.23%	3.56%	-2.43%	-2.22%	40.62
XLI	Industrial Select Sector SPDR Fund	-9.95%	7.70%	-4.51%	-3.00%	37.76
XLB	Materials Select Sector SPDR Fund	-11.08%	5.36%	-4.98%	-5.56%	36.37
XLF	Financial Select Sector SPDR Fund	-11.62%	5.55%	-3.52%	-3.38%	38.06
XLP	Consumer Staples Select Sector SPDR Fund	-12.86%	1.98%	-4.37%	-7.89%	40.22
XLY	Consumer Discretionary Select Sector SPDR Fund	-12.93%	22.03%	-6.59%	-1.57%	34.00
XLU	Utilities Select Sector SPDR Fund	-19.31%	4.36%	-4.95%	-10.84%	41.72
XLRE	Real Estate Select Sector SPDR Fund	-21.30%	0.24%	-7.27%	-11.42%	33.81

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
MLPA	Global X MLP ETF	0.46%
AMPL	Alerian MLP ETF	0.28%
FCG	First Trust Natural Gas ETF	0.04%
FCOM	Fidelity MSCI Communication Services Index ETF	0.02%
FDN	First Trust Dow Jones Internet Index Fund	0.01%
VOX	Vanguard Communication Services ETF	-0.02%
VDE	Vanguard Energy ETF	-0.08%
XLC	Communication Services Select Sector SPDR Fund	-0.10%
MLPX	Global X MLP & Energy Infrastructure ETF	-0.11%
PSCE	Invesco S&P SmallCap Energy ETF	-0.12%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
AMPL	Alerian MLP ETF	66.37
MLPA	Global X MLP ETF	64.88
FCG	First Trust Natural Gas ETF	64.47
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	63.59
RSPG	Invesco S&P 500 Equal Weight Energy ETF	63.27
FXN	First Trust Energy AlphaDEX Fund	62.42
PXE	Invesco Energy Exploration & Production ETF	62.26
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	62.16
FTXN	First Trust Nasdaq Oil & Gas ETF	61.48
MLPX	Global X MLP & Energy Infrastructure ETF	59.47

Sector & Industry 1 Day Performance Laggards

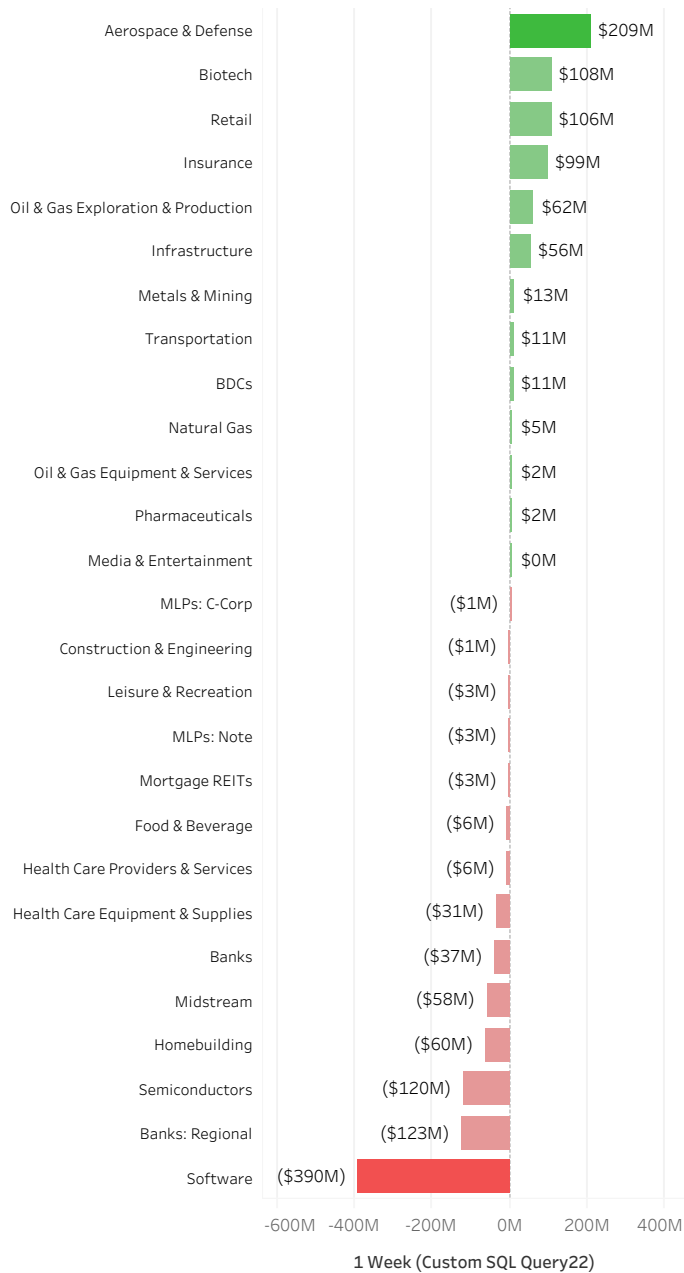
Ticker	Fund	1 Day Performance
MORT	VanEck Mortgage REIT Income ETF	-3.19%
REM	iShares Mortgage Real Estate ETF	-2.96%
PSI	Invesco Semiconductors ETF	-2.76%
KBWY	Invesco KBW Premium Yield Equity REIT ETF	-2.74%
XLY	Consumer Discretionary Select Sector SPDR Fund	-2.56%
KBWD	Invesco KBW High Dividend Yield Financial ETF	-2.52%
ICF	iShares Cohen & Steers REIT ETF	-2.51%
XLRE	Real Estate Select Sector SPDR Fund	-2.46%
INDS	Pacer Industrial Real Estate ETF	-2.45%
PSCT	Invesco S&P SmallCap Information Technology ETF	-2.41%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
XPH	SPDR S&P Pharmaceuticals ETF	22.37
PTH	Invesco Dorsey Wright Healthcare Momentum ETF	28.02
FBT	First Trust NYSE Arca Biotechnology Index Fund	28.11
XBI	SPDR S&P BIOTECH ETF	28.66
XHE	SPDR S&P Health Care Equipment ETF	28.71
KBWD	Invesco KBW High Dividend Yield Financial ETF	28.82
INDS	Pacer Industrial Real Estate ETF	28.98
MORT	VanEck Mortgage REIT Income ETF	30.45
REM	iShares Mortgage Real Estate ETF	30.47
FTXG	First Trust Nasdaq Food & Beverage ETF	30.49

* 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	7	\$19B	\$206M	\$346M	\$1,690M	\$2,980M
Consumer Discretionary	12	\$25B	\$227M	\$284M	\$1,325M	\$1,974M
Consumer Staples	10	\$27B	\$553M	(\$1,596M)	(\$1,397M)	\$1,037M
Energy	31	\$78B	\$738M	\$2,928M	(\$1,763M)	(\$6,711M)
Financials	26	\$53B	(\$16M)	(\$4,569M)	(\$3,017M)	(\$1,241M)
Health Care	23	\$83B	\$47M	(\$3,065M)	(\$3,533M)	(\$4,370M)
Industrial	13	\$32B	\$49M	(\$554M)	\$958M	\$2,974M
Materials	9	\$12B	\$156M	(\$659M)	(\$1,981M)	(\$1,445M)
Multi-Sector	18	\$17B	(\$57M)	(\$297M)	\$2,255M	\$2,332M
Real Estate	25	\$50B	\$78M	(\$226M)	(\$119M)	(\$2,613M)
Technology	23	\$147B	(\$1,001M)	(\$903M)	\$537M	\$1,851M
Utilities	9	\$21B	(\$485M)	(\$1,202M)	(\$1,026M)	(\$1,529M)

U.S. Sector & Industry Flow Leaders

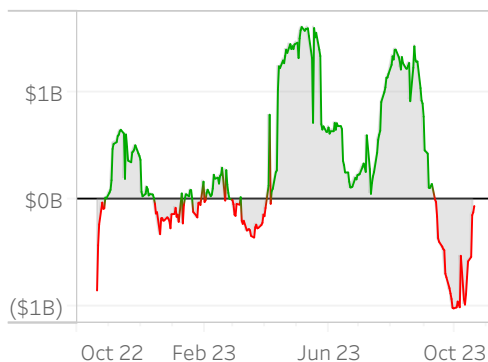
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLE	Energy Select Sector SPDR Fund	\$615M	\$2,388M	(\$1,167M)	(\$2,270M)	\$40,694M
XLP	Consumer Staples Select Sector SPDR Fund	\$577M	\$35M	\$195M	\$1,896M	\$16,565M
XLF	Financial Select Sector SPDR Fund	\$294M	(\$2,653M)	(\$1,331M)	\$718M	\$30,274M
XLV	Consumer Discretionary Select Sector SPDR Fu..	\$186M	\$318M	\$704M	\$640M	\$16,350M
XLC	Communication Services Select Sector SPDR Fu..	\$179M	\$264M	\$1,284M	\$2,554M	\$14,054M
XLB	Materials Select Sector SPDR Fund	\$163M	(\$221M)	(\$230M)	(\$73M)	\$5,403M
XLRE	Real Estate Select Sector SPDR Fund	\$112M	(\$2M)	\$172M	(\$182M)	\$4,225M
XBI	SPDR S&P BIOTECH ETF	\$110M	(\$354M)	(\$470M)	(\$1,097M)	\$4,985M
ITA	iShares U.S. Aerospace & Defense ETF	\$109M	(\$217M)	(\$513M)	\$1,075M	\$5,108M
XRT	SPDR S&P Retail ETF	\$106M	(\$17M)	\$34M	\$110M	\$409M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLK	Technology Select Sector SPDR Fund	(\$431M)	(\$122M)	\$225M	(\$1,756M)	\$48,442M
IGV	iShares Expanded Tech-Software Sector ETF	(\$390M)	(\$811M)	(\$347M)	(\$547M)	\$5,911M
XLU	Utilities Select Sector SPDR Fund	(\$354M)	(\$685M)	(\$576M)	(\$743M)	\$13,246M
VFH	Vanguard Financials ETF	(\$216M)	(\$408M)	(\$85M)	(\$659M)	\$7,804M
FUTY	Fidelity MSCI Utilities Index ETF	(\$127M)	(\$331M)	(\$376M)	(\$345M)	\$1,442M
SOXX	iShares Semiconductor ETF	(\$120M)	\$460M	\$7M	\$289M	\$8,433M
KRE	SPDR S&P Regional Banking ETF	(\$120M)	(\$867M)	(\$521M)	\$23M	\$2,377M
XLI	Industrial Select Sector SPDR Fund	(\$111M)	(\$369M)	\$742M	\$852M	\$14,223M
ICF	iShares Cohen & Steers REIT ETF	(\$82M)	(\$122M)	(\$171M)	(\$128M)	\$1,883M
RSPD	Invesco S&P 500 Equal Weight Consumer Discr..	(\$66M)	\$26M	\$24M	\$119M	\$481M

* 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



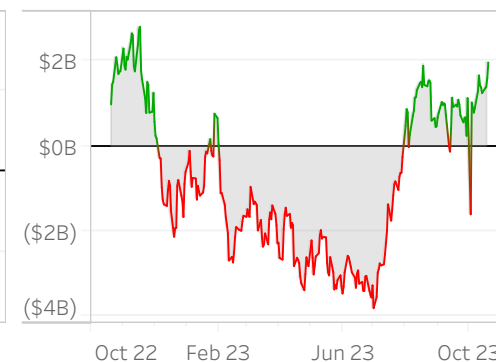
Consumer Discretionary



Consumer Staples



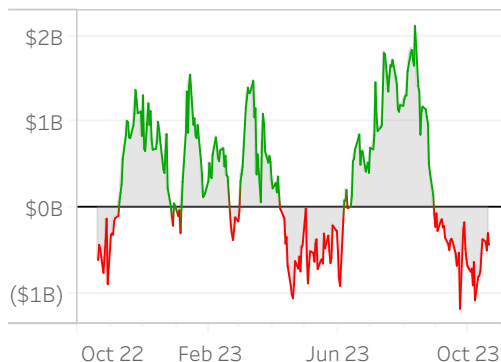
Energy



Financials



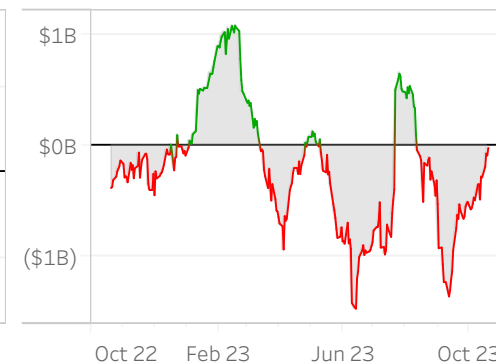
Industrial



Health Care



Materials



Real Estate



Technology



Utilities

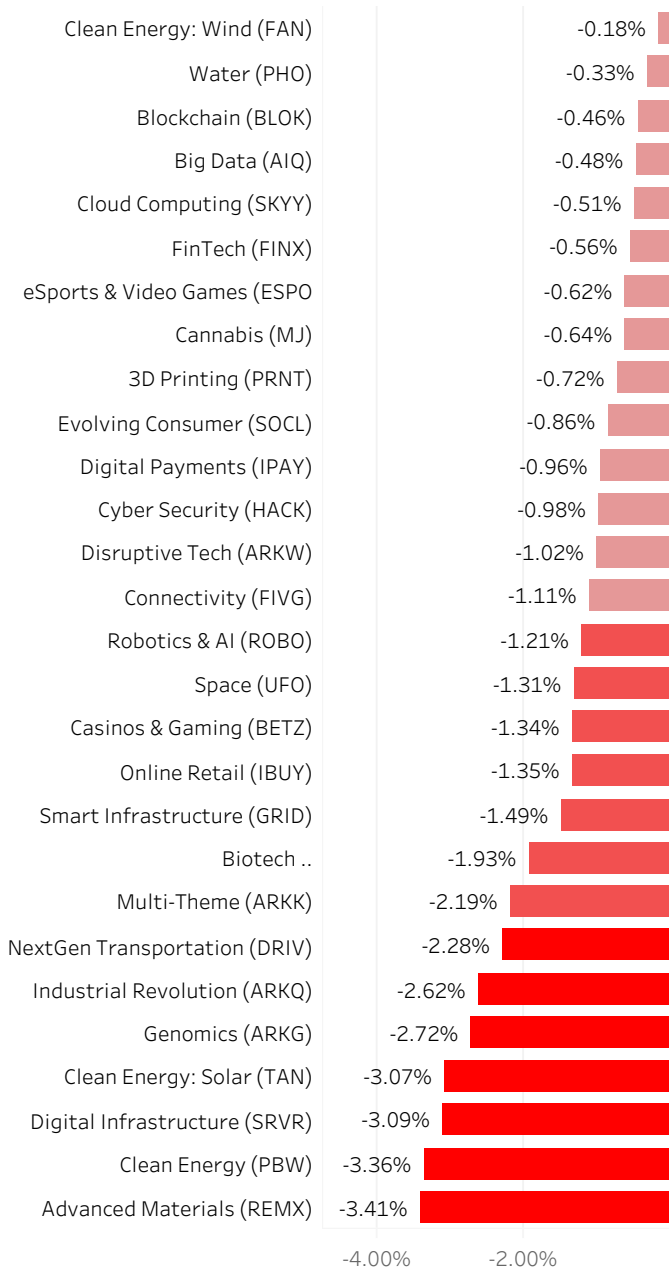


Multi-Sector

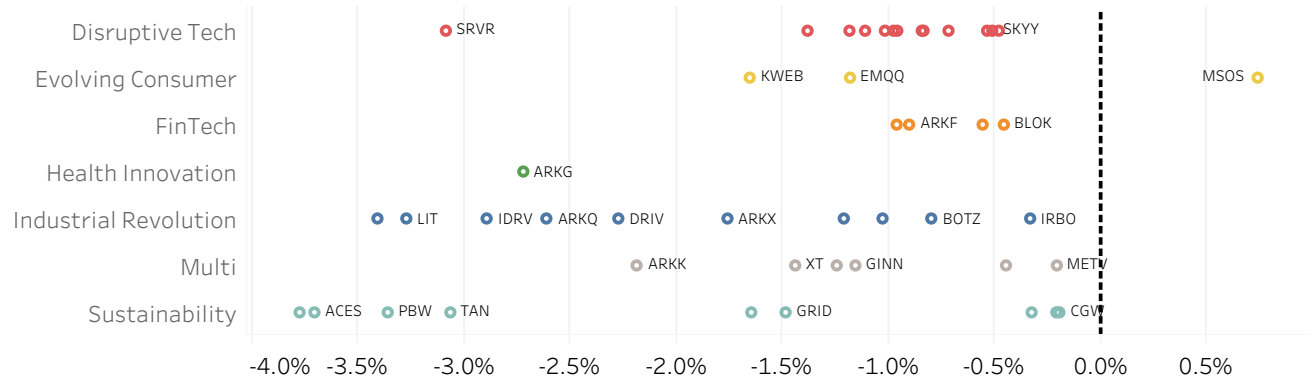


*ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
MSOS	AdvisorShares Pure US Cannabis ETF	0.74%
MJUS	ETFMG U.S. Alternative Harvest ETF	0.61%
FAN	First Trust Global Wind Energy ETF	-0.18%
CGW	Invesco S&P Global Water Index ETF	-0.20%
METV	Roundhill Ball Metaverse ETF	-0.21%
FIW	First Trust Water ETF	-0.21%
PIO	Invesco Global Water ETF	-0.25%
BKCH	Global X Blockchain ETF	-0.32%
BITQ	Bitwise Crypto Industry Innovators ETF	-0.32%
PHO	Invesco Water Resources ETF	-0.33%

Thematic Most Overbought

Ticker	Fund	Price
HACK	ETFMG Prime Cyber Security ETF	52.55
SAMT	Stratagis Macro Thematic Opportunities ETF	50.83
BUG	Global X Cybersecurity ETF	47.91
CIBR	First Trust NASDAQ Cybersecurity ETF	47.74
METV	Roundhill Ball Metaverse ETF	45.81
IHAK	iShares Cybersecurity & Tech ETF	45.68
SKYY	First Trust Cloud Computing ETF	44.93
WCLD	WisdomTree Cloud Computing Fund	42.40
MSOS	AdvisorShares Pure US Cannabis ETF	42.32
TECB	iShares U.S. Tech Breakthrough Multisector ETF	42.05

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	-3.78%
ACES	ALPS Clean Energy ETF	-3.71%
BATT	Amplify Lithium & Battery Technology ETF	-3.44%
REMX	VanEck Rare Earth/Strategic Metals ETF	-3.41%
PBW	Invesco WilderHill Clean Energy ETF	-3.36%
IDNA	iShares Genomics Immunology and Healthcare ETF	-3.33%
LIT	Global X Lithium & Battery Tech ETF	-3.28%
SRVR	Pacer Data & Infrastructure Real Estate ETF	-3.09%
TAN	Invesco Solar ETF	-3.07%
KARS	KraneShares Electric Vehicles & Future Mobility Index ..	-2.98%

Thematic Most Oversold

Ticker	Fund	Price
IDNA	iShares Genomics Immunology and Healthcare ETF	19.67
IZRL	ARK Israel Innovative Technology ETF	23.29
ARKG	ARK Genomic Revolution ETF	23.79
HTEC	ROBO Global Healthcare Technology and Innovation ETF	25.51
GNOM	Global X Genomics & Biotechnology ETF	25.60
EDOC	Global X Telemedicine & Digital Health ETF Registered	25.66
REMX	VanEck Rare Earth/Strategic Metals ETF	25.96
SBIO	ALPS Medical Breakthroughs ETF	26.17
BATT	Amplify Lithium & Battery Technology ETF	27.44
LIT	Global X Lithium & Battery Tech ETF	28.44

* 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	Flow
MSOS	AdvisorShares Pure US Cannabis ETF	\$32M
AIQ	Global X Artificial Intelligence & Technology ETF	\$22M
GBUY	Goldman Sachs Future Consumer Equity ETF	\$15M
CIBR	First Trust NASDAQ Cybersecurity ETF	\$12M
WTAI	WisdomTree Artificial Intelligence and Innovation Fund	\$6M
FMIL	Fidelity New Millennium ETF	\$2M
ROBT	First Trust Nasdaq Artificial Intelligence & Robotics ETF	\$2M
ONLN	ProShares Online Retail ETF	\$2M
GXTG	Global X Thematic Growth ETF	\$1M
BKCH	Global X Blockchain ETF	\$1M

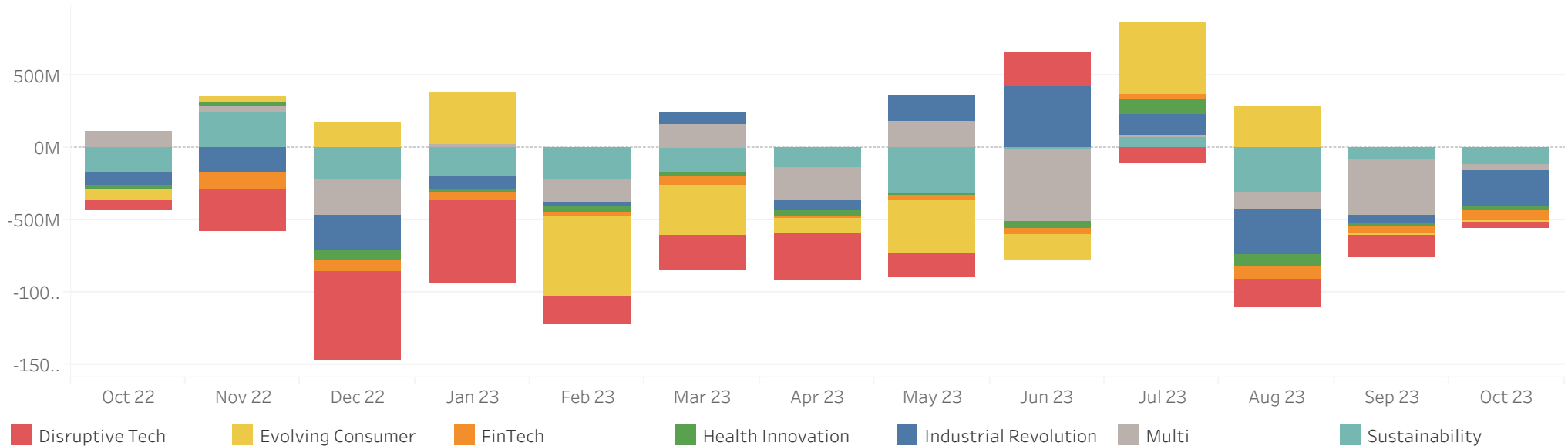
Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
ARKK	ARK Innovation ETF	(\$76M)
KWEB	KraneShares CSI China Internet ETF	(\$67M)
SKYY	First Trust Cloud Computing ETF	(\$50M)
LIT	Global X Lithium & Battery Tech ETF	(\$40M)
PBW	Invesco WilderHill Clean Energy ETF	(\$35M)
BOTZ	Global X Robotics & Artificial Intelligence ETF	(\$35M)
ICLN	iShares Global Clean Energy ETF	(\$32M)
ARKG	ARK Genomic Revolution ETF	(\$23M)
SRVR	Pacer Data & Infrastructure Real Estate ETF	(\$20M)
ROBO	ROBO Global Robotics & Automation Index ETF	(\$16M)

Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	33	\$16B	(\$41M)	(\$393M)	(\$529M)	(\$2,729M)
Evolving Consumer	38	\$8B	(\$38M)	\$365M	\$117M	(\$304M)
FinTech	17	\$2B	(\$3M)	(\$194M)	(\$242M)	(\$585M)
Health Innovation	18	\$2B	(\$12M)	(\$121M)	(\$162M)	(\$339M)
Industrial Revolution	30	\$10B	(\$99M)	(\$645M)	\$103M	(\$438M)
Multi	37	\$13B	(\$82M)	(\$725M)	(\$1,116M)	(\$1,158M)
Sustainability	40	\$13B	(\$47M)	(\$612M)	(\$891M)	(\$1,673M)
Grand Total	213	\$64B	(\$323M)	(\$2,326M)	(\$2,720M)	(\$7,226M)

Thematic Monthly Flows

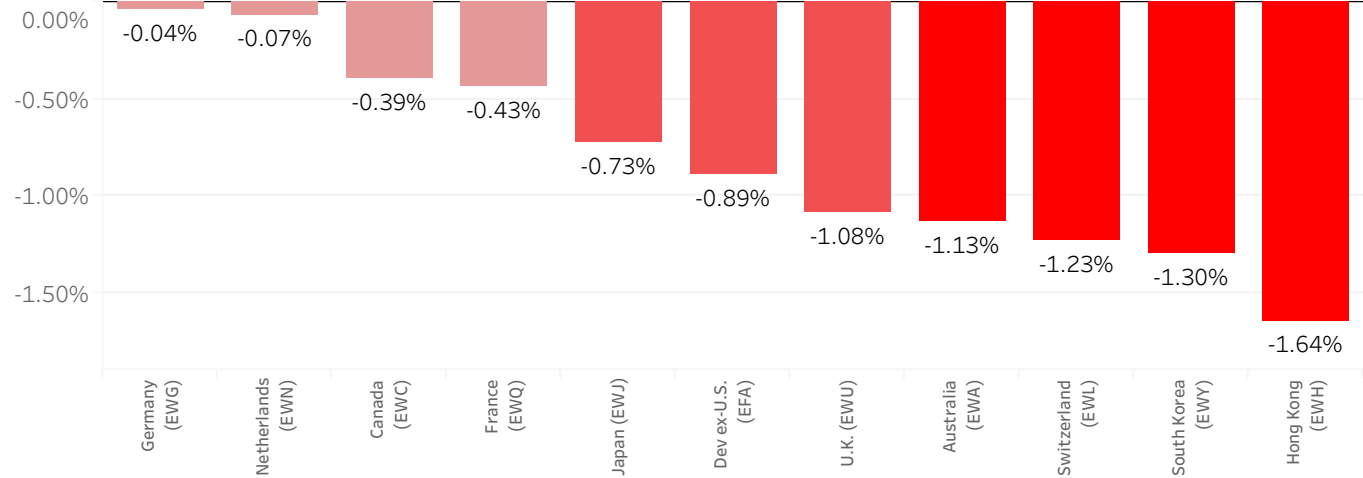


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

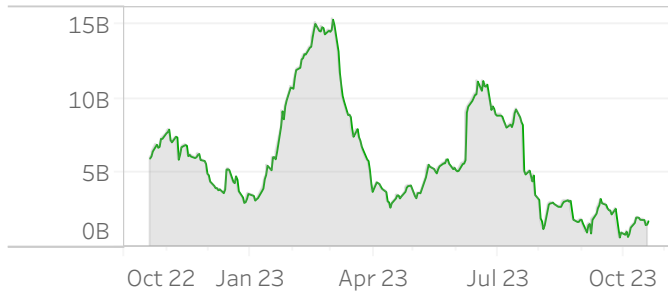
Developed ex-U.S. (EFA)



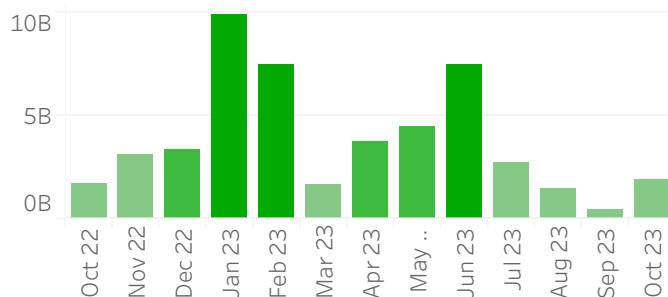
Developed ex-U.S. 1-Day Performance Top 10 Countries



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



Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
GREK	Global X MSCI Greece ETF	0.27%
DXJS	WisdomTree Japan Hedged SmallCap Equity Fund	0.21%
IDLV	Invesco S&P International Developed Low Volatility ETF	0.00%
EWG	iShares MSCI Germany ETF	-0.04%
EWN	iShares MSCI Netherlands ETF	-0.07%
EWP	iShares MSCI Spain ETF	-0.19%
FEZ	SPDR EURO STOXX 50 ETF	-0.19%
SCJ	iShares MSCI Japan Small-Cap ETF	-0.21%
DLS	WisdomTree International SmallCap Dividend Fund	-0.25%
ISCF	iShares International SmallCap Equity Factor ETF	-0.28%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
GREK	Global X MSCI Greece ETF	46.13
DXJS	WisdomTree Japan Hedged SmallCap Equity Fund	45.11
DXJ	WisdomTree Japan Hedged Equity Fund	43.83
NORW	Global X MSCI Norway ETF	43.14
ICOW	Pacer Developed Markets International Cash Cows 100 ETF	42.49
EWP	iShares MSCI Spain ETF	42.43
FLCA	Franklin FTSE Canada ETF	42.38
EWD	iShares MSCI Sweden ETF	42.13
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	42.10
FYLD	Cambria Foreign Shareholder Yield ETF	41.84

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

Ticker	Fund	1-Day Performance
EDEN	iShares MSCI Denmark ETF	-1.65%
EWK	iShares MSCI Hong Kong ETF	-1.64%
ISRA	VanEck Israel ETF	-1.63%
EIS	iShares MSCI Israel ETF	-1.62%
EIRL	iShares MSCI Ireland ETF	-1.37%
LVHI	Franklin International Low Volatility High Dividend Index ..	-1.33%
EWY	iShares MSCI South Korea ETF	-1.30%
NORW	Global X MSCI Norway ETF	-1.30%
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	-1.29%
NUDM	Nuveen ESG International Developed Markets Equity ETF	-1.27%

Developed ex-U.S. Most Oversold

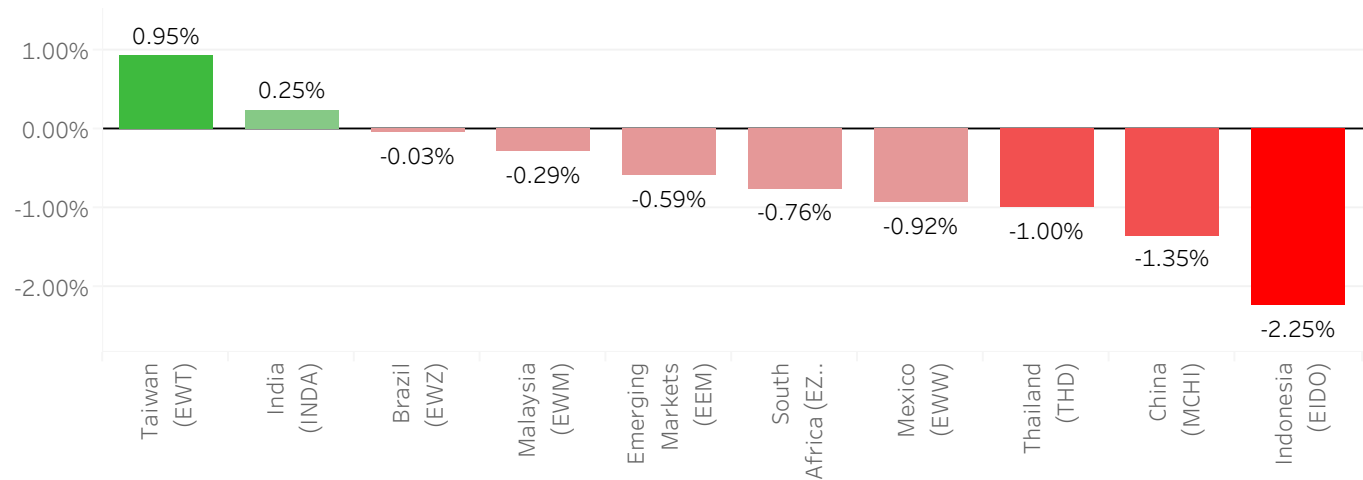
Ticker	Fund	Value
ISRA	VanEck Israel ETF	18.41
EIS	iShares MSCI Israel ETF	21.41
EFAD	ProShares MSCI EAFE Dividend Growers ETF	28.94
PDN	Invesco FTSE RAFI Developed Markets ex-US Small-..	29.79
GWX	SPDR S&P International Small Cap ETF	30.05
SCZ	iShares MSCI EAFE Small-Cap ETF	30.61
FNDG	Schwab Fundamental International Small Co. Index ..	30.91
HSCZ	iShares Currency Hedged MSCI EAFE Small-Cap ETF	31.06
SCHC	Schwab International Small-Cap Equity ETF	31.23
IHDG	WisdomTree International Hedged Quality Dividend ..	31.48

* 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



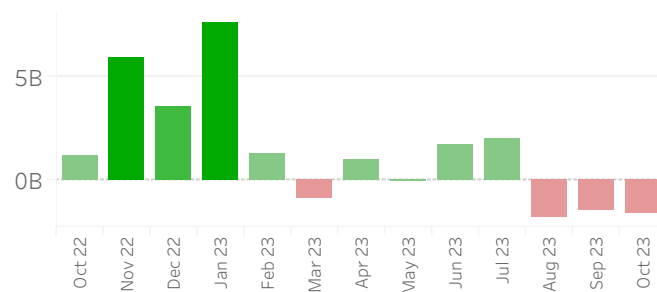
Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
EWT	iShares MSCI Taiwan ETF	0.95%
FLTW	Franklin FTSE Taiwan ETF	0.80%
SMIN	iShares MSCI India Small Cap ETF	0.68%
FLIN	Franklin FTSE India ETF	0.54%
EPU	iShares MSCI Peru and Global Exposure ETF	0.52%
GLIN	VanEck India Growth Leaders ETF	0.49%
PIN	Invesco India ETF	0.43%
INDY	iShares India 50 ETF	0.40%
EPI	WisdomTree India Earnings Fund	0.27%
NFTY	First Trust India NIFTY 50 Equal Weight ETF	0.27%

Emerging Most Overbought

Ticker	Fund	Value
EPOL	iShares MSCI Poland ETF	59.18
SMIN	iShares MSCI India Small Cap ETF	56.52
GLIN	VanEck India Growth Leaders ETF	53.14
NFTY	First Trust India NIFTY 50 Equal Weight ETF	52.00
EPI	WisdomTree India Earnings Fund	51.15
FLIN	Franklin FTSE India ETF	49.51
INDA	iShares MSCI India ETF	48.48
PIN	Invesco India ETF	48.41
INDY	iShares India 50 ETF	47.92
EZA	iShares MSCI South Africa ETF	46.21

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
TUR	iShares MSCI Turkey ETF	-2.37%
PGJ	Invesco Golden Dragon China ETF	-2.26%
EIDO	iShares MSCI Indonesia ETF	-2.25%
ECH	iShares MSCI Chile ETF	-2.09%
EPOL	iShares MSCI Poland ETF	-2.02%
KBA	KraneShares Bosera MSCI China A 50 Connect Index ETF	-1.79%
FXI	iShares China Large-Cap ETF	-1.73%
FLCH	Franklin FTSE China ETF	-1.62%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	-1.56%
CNYA	iShares MSCI China A ETF	-1.51%

Emerging Most Oversold

Ticker	Fund	Value
EIDO	iShares MSCI Indonesia ETF	17.89
RAYC	Rayliant Quantamental China Equity ETF	25.81
CNYA	iShares MSCI China A ETF	26.70
KBA	KraneShares Bosera MSCI China A 50 Connect Index ..	27.22
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	27.79
VNM	VanEck Vietnam ETF	28.04
FEMS	First Trust Emerging Markets Small Cap AlphaDEX F..	29.26
FEM	First Trust Emerging Markets AlphaDEX Fund	29.44
ECOW	Pacer Emerging Markets Cash Cows 100 ETF	31.23
JPEM	JPMorgan Diversified Return Emerging Markets Equ..	31.57

* 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	-0.38%	-3.59%	-3.26%
SHY	1-3 Year Treasury Bonds	0.14%	0.23%	1.68%
IEF	7-10 Year Treasury Bonds	-0.49%	-3.94%	-5.15%
TLT	20+ Year Treasury Bonds	-2.05%	-10.52%	-14.80%
TIP	TIPS Bonds	-0.09%	-2.22%	-1.65%
FLOT	Floating Rate Bonds	0.08%	0.45%	5.16%
LQD	Investment Grade Corporate	-0.81%	-5.33%	-3.88%
HYG	High Yield Corporate	-0.36%	-3.09%	1.93%
BKLN	Senior Loan	-0.29%	-0.71%	8.95%
PFF	Preferred & Income Securities	-1.05%	-6.97%	-2.53%
MUB	Municipal Bonds	-0.45%	-3.14%	-2.26%
MBB	MBS	-0.42%	-4.81%	-5.08%
EMB	Dollar Denominated EM Bonds	-0.73%	-5.14%	-2.22%
LEMB	Local Currency EM Bond	-0.06%	-3.90%	-1.44%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	0.64%	-0.91%	-2.67%
DBE	Energy	1.35%	-1.88%	4.70%
USO	WTI Crude Oil	2.30%	0.22%	16.50%
BNO	Brent Crude Oil	2.10%	0.18%	14.96%
UNG	Natural Gas	-3.76%	-1.71%	-50.99%
UGA	Gasoline	1.14%	-8.97%	11.73%
DBP	Precious Metals	1.09%	1.58%	4.90%
GLD	Gold	1.23%	2.16%	7.93%
SLV	Silver	0.76%	-0.75%	-4.13%
PPLT	abrdn Physical Platin..	0.57%	-5.46%	-17.19%
PALL	abrdn Physical Palla..	-2.14%	-11.80%	-37.96%
DBB	Base Metals	0.11%	-2.38%	-7.20%
CPER	Copper	0.48%	-3.46%	-3.29%
DBA	Agriculture	0.23%	-1.35%	9.03%
CORN	Corn	1.67%	5.14%	-14.22%
SOYB	Soybeans	0.18%	0.51%	-2.70%
WEAT	Wheat	1.71%	2.06%	-25.44%
CANE	Sugar	-0.72%	-1.11%	58.34%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.30%	1.50%	7.26%
UDN	Short Dollar	0.46%	-0.70%	-0.62%
FXE	Euro	0.53%	-0.61%	0.14%
FXB	British Pound Sterling	0.09%	-1.55%	2.93%
FXF	Swiss Franc	0.71%	0.59%	3.29%
FXJ	Japanese Yen	0.08%	-1.29%	-12.77%
FXC	Canadian Dollar	-0.11%	-1.80%	0.36%
FXA	Australian Dollar	-0.06%	-1.80%	-6.18%

*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

www.etfaction.com