

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

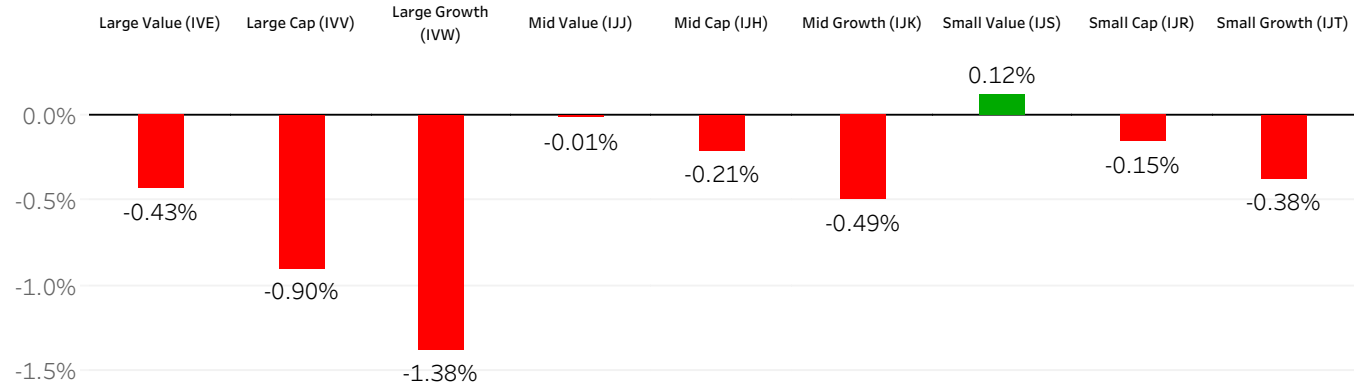


Small Cap Blend (S&P 600) IJR



■ 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
FYT	First Trust Small Cap Value AlphaDEX Fund	0.73%
FNK	First Trust Mid Cap Value AlphaDEX Fund	0.69%
RPHS	Regents Park Hedged Market Strategy ETF	0.58%
FAB	First Trust Multi Cap Value AlphaDEX Fund	0.44%
SIXS	ETC 6 Meridian Small Cap Equity ETF	0.43%
XSVM	Invesco S&P SmallCap Value with Momentum ETF	0.41%
RWK	Invesco S&P MidCap 400 Revenue ETF	0.38%
RZV	Invesco S&P Smallcap 600 Pure Value ETF	0.38%
BUZZ	VanEck Social Sentiment ETF	0.37%
RFV	Invesco S&P Midcap 400 Pure Value ETF	0.36%

Size & Style Most Overbought

Ticker	Fund	Price
PTMC	Pacer Trendpilot US Mid Cap ETF	53.06
SPC	CrossingBridge Pre-Merger SPAC ETF	52.81
SMMV	iShares MSCI USA Small-Cap Min Vol Factor ETF	50.42
PTLC	Pacer Trendpilot US Large Cap ETF	50.39
PABU	iShares Paris-Aligned Climate MSCI USA ETF	49.92
LVHD	Franklin U.S. Low Volatility High Dividend Index ETF	49.70
QQXT	First Trust Nasdaq-100 Ex-Technology Sector Index Fund	49.29
SIXL	ETC 6 Meridian Low Beta Equity ETF	49.08
IPO	Renaissance IPO ETF	49.00
JSMD	Janus Henderson Small/Mid Cap Growth Alpha ETF	48.91

Size & Style 1-Day Performance Laggards

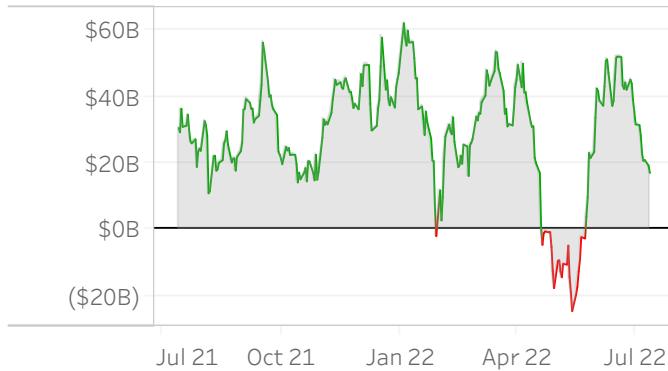
Ticker	Fund	1-Day Performance
UTRN	Vesper U.S. Large Cap Short-Term Reversal Strategy ETF	-2.86%
LCG	Sterling Capital Focus Equity ETF	-2.53%
BBSC	JPMorgan BetaBuilders U.S. Small Cap Equity ETF	-2.25%
IPO	Renaissance IPO ETF	-1.95%
MMLG	First Trust Multi-Manager Large Growth ETF	-1.91%
ACSI	American Customer Satisfaction ETF	-1.89%
RPG	Invesco S&P 500 Pure Growth ETF	-1.80%
SSPY	Syntax Stratified LargeCap ETF	-1.78%
DFNV	TrimTabs Donoghue Forlines Risk Managed Innovation E..	-1.75%
NUMG	Nuveen ESG Mid-Cap Growth ETF	-1.61%

Size & Style Most Oversold

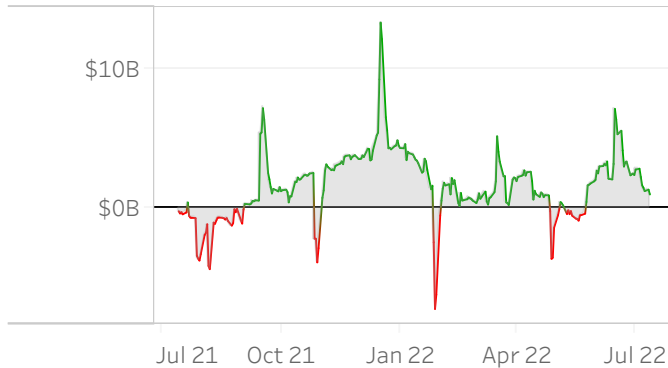
Ticker	Fund	Price
LGH	HCM Defender 500 Index ETF	31.92
DEIF	Sterling Capital Diverse Multi-Manager Active ETF	32.86
FFTY	Innovator IBD 50 ETF	33.62
ONOF	Global X Adaptive U.S. Risk Management ETF	35.72
EQRR	ProShares Equities for Rising Rates ETF	35.79
CSD	Invesco S&P Spin-Off ETF	36.27
QQH	HCM Defender 100 Index ETF	36.32
ABEQ	Absolute Core Strategy ETF	36.45
DWAS	Invesco DWA SmallCap Momentum ETF	36.65
RPHS	Regents Park Hedged Market Strategy ETF	36.90

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

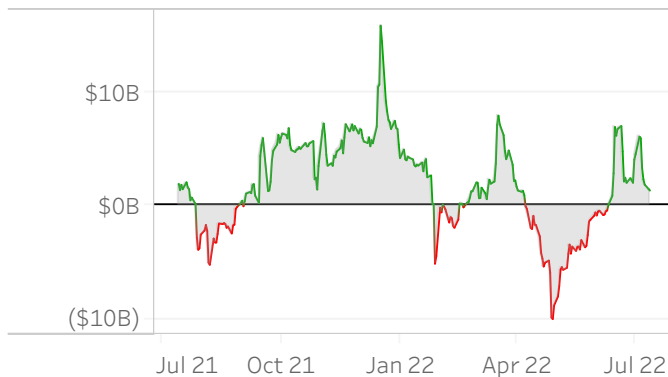
Large-Cap 30-Day Rolling Flows



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	25	\$1,159B	(\$0.55B)	\$4.76B	\$26.41B	\$119.15B
Large Cap, Beta Growth, Beta: Growth	10	\$214B	\$0.33B	\$4.72B	\$7.74B	\$16.16B
Large Cap, Beta Growth, Beta: Value	11	\$209B	(\$0.38B)	\$4.48B	\$16.05B	\$27.80B
Mid Cap, Beta, Beta	10	\$164B	\$0.28B	\$2.78B	\$4.45B	\$11.60B
Mid Cap, Beta, Beta: Growth	6	\$30B	\$0.03B	\$0.25B	(\$0.27B)	\$0.47B
Mid Cap, Beta, Beta: Value	6	\$37B	(\$0.47B)	(\$0.25B)	(\$0.03B)	\$0.62B
Small Cap, Beta, Beta	13	\$177B	(\$0.75B)	(\$3.98B)	(\$3.72B)	\$7.82B
Small Cap, Beta, Beta: Growth	7	\$29B	\$0.07B	\$0.95B	\$1.02B	\$1.75B
Small Cap, Beta, Beta: Value	7	\$48B	(\$0.45B)	\$0.23B	(\$2.36B)	(\$1.46B)

U.S. Size & Style Flow Leaders

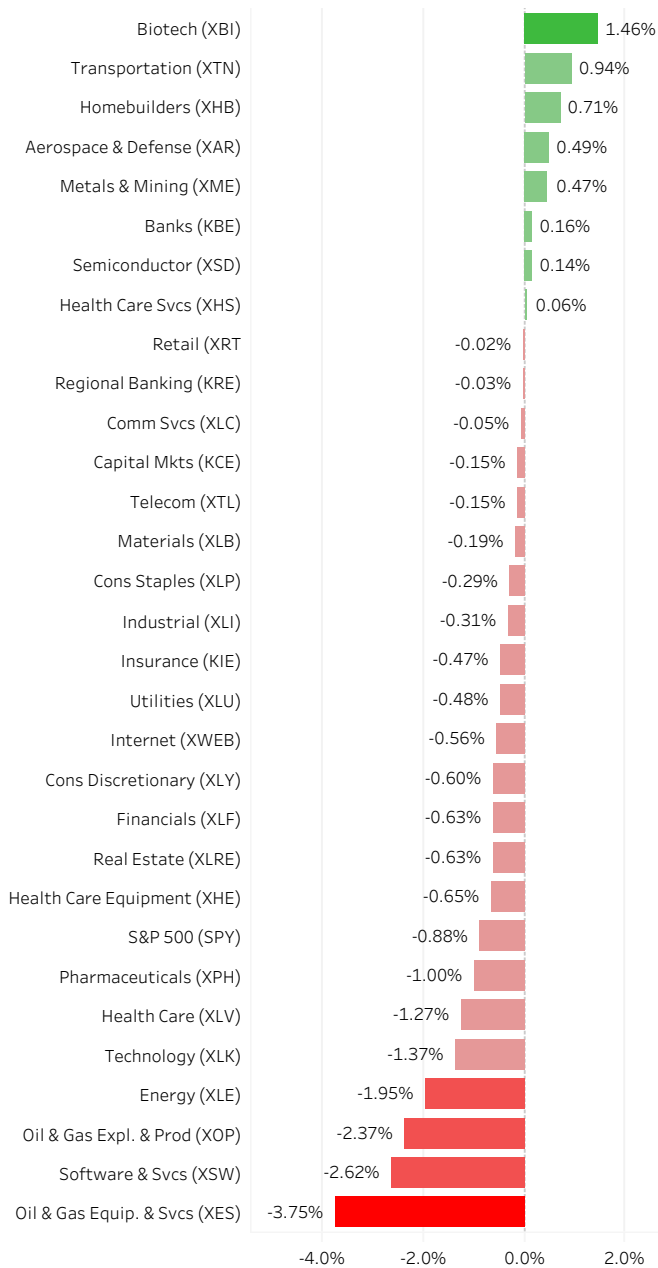
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VOO	Vanguard S&P 500 ETF	\$0.79B	\$3.74B	\$27.70B	\$45.16B	\$250.73B
IVV	iShares Core S&P 500 ETF	\$0.68B	(\$0.44B)	\$14.89B	\$30.53B	\$284.68B
VTI	Vanguard Total Stock Market ETF	\$0.58B	\$4.37B	\$11.81B	\$36.55B	\$249.96B
USMV	iShares MSCI USA Min Vol Factor ETF	\$0.32B	\$0.45B	\$0.14B	\$0.33B	\$26.94B
VTWO	Vanguard Russell 2000 ETF	\$0.17B	(\$0.89B)	(\$0.30B)	\$0.96B	\$5.21B
VIOO	Vanguard S&P Small-Cap 600 ETF	\$0.16B	\$0.04B	\$0.16B	\$0.36B	\$1.80B
IVW	iShares S&P 500 Growth ETF	\$0.12B	(\$1.07B)	(\$0.96B)	(\$0.21B)	\$29.08B
VUG	Vanguard Growth ETF	\$0.11B	\$2.49B	\$5.01B	\$6.75B	\$69.56B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.11B	(\$0.01B)	\$0.16B	(\$0.58B)	\$26.83B
VIG	Vanguard Dividend Appreciation ETF	\$0.10B	\$1.13B	\$2.12B	\$5.13B	\$60.73B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	(\$2.01B)	(\$3.48B)	(\$23.61B)	\$11.33B	\$346.88B
IWM	iShares Russell 2000 ETF	(\$1.09B)	(\$0.87B)	(\$2.59B)	(\$1.38B)	\$50.21B
IJS	iShares S&P Small-Cap 600 Value ETF	(\$0.43B)	\$1.30B	\$0.54B	\$0.16B	\$8.00B
IJJ	iShares S&P Mid-Cap 400 Value ETF	(\$0.43B)	(\$0.24B)	(\$0.88B)	(\$1.26B)	\$6.72B
IVE	iShares S&P 500 Value ETF	(\$0.37B)	\$0.80B	\$1.85B	\$2.91B	\$23.44B
ITOT	iShares Core S&P Total U.S. Stock Market ETF	(\$0.33B)	\$3.22B	\$3.63B	\$7.13B	\$41.09B
MOAT	VanEck Morningstar Wide Moat ETF	(\$0.24B)	(\$0.17B)	\$0.06B	\$0.81B	\$6.15B
IWB	iShares Russell 1000 ETF	(\$0.18B)	\$0.97B	\$0.49B	\$0.27B	\$26.86B
DVY	iShares Select Dividend ETF	(\$0.13B)	\$0.93B	\$2.24B	\$2.82B	\$21.25B
VB	Vanguard Small-Cap ETF	(\$0.11B)	(\$0.37B)	(\$0.38B)	\$2.58B	\$39.47B

\* 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)
XLU	Utilities Select Sector SPDR Fund	-9.15%	10.01%	-1.46%	0.14%	49.53
XLV	Health Care Select Sector SPDR Fund	-9.86%	7.39%	0.34%	-2.53%	51.36
XLP	Consumer Staples Select Sector SPDR Fund	-9.90%	5.51%	-0.78%	-2.33%	50.65
XLI	Industrial Select Sector SPDR Fund	-18.74%	1.74%	-4.25%	-12.46%	42.00
XLB	Materials Select Sector SPDR Fund	-19.79%	0.07%	-9.38%	-14.24%	33.53
SPY	SPDR S&P 500 ETF Trust	-20.28%	4.09%	-3.16%	-12.67%	44.58
XLRE	Real Estate Select Sector SPDR Fund	-20.92%	5.46%	-2.75%	-11.62%	44.77
XLF	Financial Select Sector SPDR Fund	-23.66%	2.53%	-4.48%	-15.50%	41.77
XLE	Energy Select Sector SPDR Fund	-25.34%	50.47%	-13.81%	0.05%	35.43
XLK	Technology Select Sector SPDR Fund	-26.83%	4.66%	-3.11%	-15.46%	46.09
XLY	Consumer Discretionary Select Sector SPDR Fund	-33.07%	5.10%	-3.23%	-20.81%	46.13
XLC	Communication Services Select Sector SPDR Fund	-36.13%	3.54%	-4.02%	-20.61%	44.14

## Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
XBI	SPDR S&P BIOTECH ETF	1.46%
FTXL	First Trust Nasdaq Semiconductor ETF	1.17%
XTN	SPDR S&P Transportation ETF	0.94%
KBWY	Invesco KBW Premium Yield Equity REIT ETF	0.90%
BIZD	VanEck BDC Income ETF	0.73%
XHB	SPDR S&P Homebuilders ETF	0.71%
ITB	iShares U.S. Home Construction ETF	0.65%
RCD	Invesco S&P 500 Equal Weight Consumer Discretio..	0.64%
FTXR	First Trust Nasdaq Transportation ETF	0.61%
IYZ	iShares U.S. Telecommunications ETF	0.56%

## Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
XBI	SPDR S&P BIOTECH ETF	62.56
IBB	iShares Biotechnology ETF	60.30
ITB	iShares U.S. Home Construction ETF	59.47
PBE	Invesco Dynamic Biotechnology & Genome ETF	59.12
XHS	SPDR S&P Health Care Services ETF	57.86
PTH	Invesco DWA Healthcare Momentum ETF	57.58
FBT	First Trust NYSE Arca Biotechnology Index Fund	56.82
IHF	iShares U.S. Healthcare Providers ETF	56.36
PJP	Invesco Dynamic Pharmaceuticals ETF	56.16
XHB	SPDR S&P Homebuilders ETF	55.42

## Sector & Industry 1 Day Performance Laggards

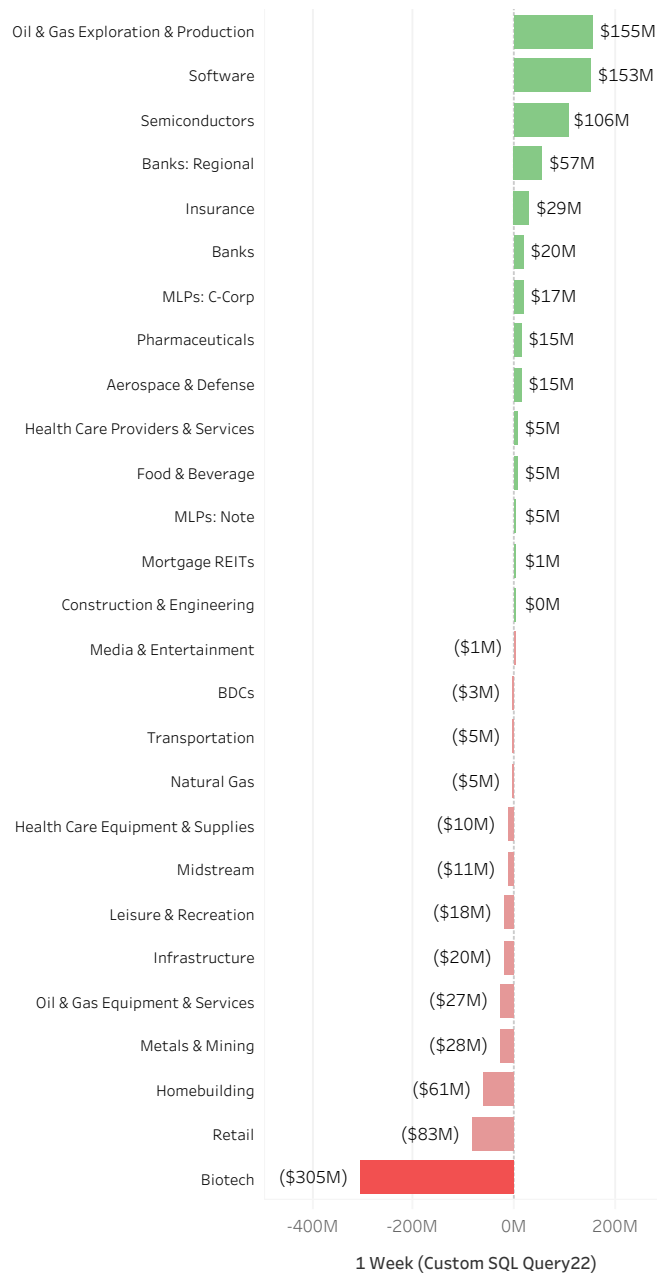
Ticker	Fund	1 Day Performance
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-3.75%
IGV	iShares Expanded Tech-Software Sector ETF	-3.72%
IEZ	iShares U.S. Oil Equipment & Services ETF	-3.22%
PXE	Invesco Dynamic Energy Exploration & Production ETF	-3.06%
PSCE	Invesco S&P SmallCap Energy ETF	-2.94%
FCG	First Trust Natural Gas ETF	-2.71%
XSW	SPDR S&P Software & Services ETF	-2.62%
FTXN	First Trust Nasdaq Oil & Gas ETF	-2.58%
PXI	Invesco DWA Energy Momentum ETF	-2.47%
FXN	First Trust Energy AlphaDEX Fund	-2.47%

## Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
IYM	iShares U.S. Basic Materials ETF	31.24
FXZ	First Trust Materials AlphaDEX Fund	31.82
XES	SPDR S&P Oil & Gas Equipment & Services ETF	32.23
IEZ	iShares U.S. Oil Equipment & Services ETF	32.80
PYZ	Invesco DWA Basic Materials Momentum ETF	33.13
XLB	Materials Select Sector SPDR Fund	33.53
VAW	Vanguard Materials ETF	34.18
FMAT	Fidelity MSCI Materials Index ETF	34.31
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	34.71
PXE	Invesco Dynamic Energy Exploration & Production ETF	34.75

\* 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	\$13B	(\$14M)	(\$269M)	(\$718M)	(\$94M)
Consumer Discretionary	13	\$21B	(\$511M)	(\$2,871M)	(\$5,576M)	(\$5,014M)
Consumer Staples	12	\$26B	(\$458M)	\$1,320M	\$4,188M	\$6,578M
Energy	34	\$67B	\$296M	(\$2,811M)	(\$1,673M)	\$1,594M
Financials	28	\$56B	(\$87M)	(\$11,327M)	(\$16,559M)	(\$9,622M)
Health Care	26	\$91B	(\$118M)	\$3,901M	\$6,961M	\$13,475M
Industrial	14	\$27B	(\$219M)	(\$2,545M)	(\$3,621M)	(\$5,740M)
Materials	10	\$14B	(\$128M)	(\$1,439M)	\$161M	(\$1,697M)
Multi-Sector	19	\$14B	(\$129M)	(\$543M)	(\$5,239M)	(\$3,207M)
Real Estate	24	\$66B	(\$205M)	(\$2,065M)	(\$5,153M)	\$3,301M
Technology	24	\$115B	\$21M	(\$1,678M)	(\$2,185M)	\$5,107M
Utilities	10	\$25B	\$173M	\$2,326M	\$4,348M	\$5,252M

## U.S. Sector & Industry Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLE	Energy Select Sector SPDR Fund	\$308M	(\$888M)	(\$2,156M)	(\$337M)	\$32,807M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	\$176M	(\$730M)	(\$590M)	(\$682M)	\$4,188M
IGV	iShares Expanded Tech-Software Sector ETF	\$155M	\$545M	\$415M	\$1,455M	\$4,795M
XLV	Health Care Select Sector SPDR Fund	\$150M	\$2,597M	\$4,661M	\$8,456M	\$38,577M
XLU	Utilities Select Sector SPDR Fund	\$119M	\$1,925M	\$3,068M	\$3,528M	\$16,143M
SOXX	iShares Semiconductor ETF	\$105M	(\$482M)	(\$224M)	\$1,387M	\$6,284M
VGT	Vanguard Information Technology ETF	\$77M	\$199M	\$275M	\$1,983M	\$41,839M
KRE	SPDR S&P Regional Banking ETF	\$62M	(\$1,117M)	(\$1,751M)	(\$1,335M)	\$3,053M
KBWB	Invesco KBW Bank ETF	\$39M	(\$403M)	(\$474M)	\$14M	\$1,743M
XLRE	Real Estate Select Sector SPDR Fund	\$37M	\$373M	(\$9M)	\$2,261M	\$5,269M

## U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLP	Consumer Staples Select Sector SPDR Fund	(\$474M)	(\$234M)	\$1,737M	\$3,505M	\$15,054M
XLY	Consumer Discretionary Select Sector SPDR Fu..	(\$359M)	(\$960M)	(\$2,763M)	(\$1,591M)	\$14,150M
XLK	Technology Select Sector SPDR Fund	(\$317M)	(\$792M)	(\$544M)	\$1,734M	\$38,901M
XBI	SPDR S&P BIOTECH ETF	(\$266M)	\$1,239M	\$2,567M	\$3,590M	\$7,409M
XLI	Industrial Select Sector SPDR Fund	(\$187M)	(\$1,120M)	(\$3,631M)	(\$5,149M)	\$12,006M
VFH	Vanguard Financials ETF	(\$167M)	(\$1,519M)	(\$1,288M)	(\$630M)	\$8,480M
BBRE	JPMorgan BetaBuilders MSCI U.S. REIT ETF	(\$134M)	(\$124M)	(\$264M)	(\$337M)	\$980M
VDE	Vanguard Energy ETF	(\$87M)	(\$451M)	(\$729M)	(\$210M)	\$6,924M
XRT	SPDR S&P Retail ETF	(\$83M)	(\$59M)	\$146M	(\$540M)	\$359M
IBB	iShares Biotechnology ETF	(\$55M)	\$33M	(\$147M)	(\$73M)	\$8,136M

\* 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



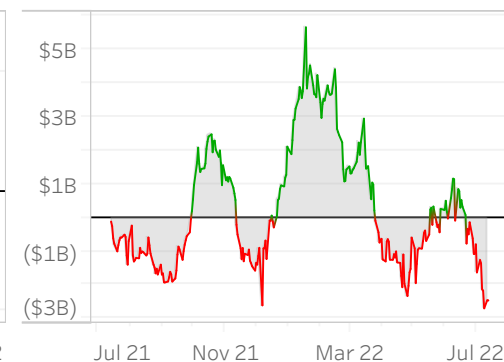
Consumer Discretionary



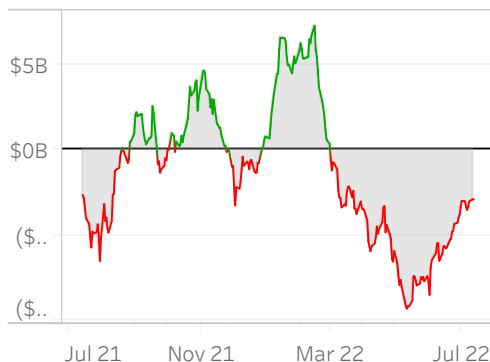
Consumer Staples



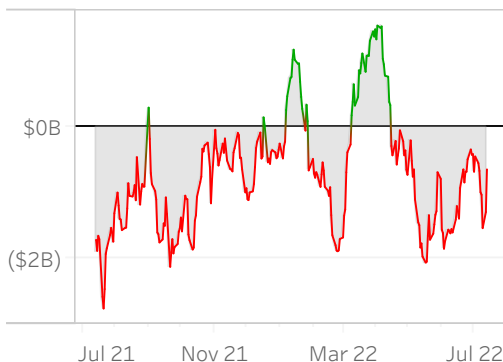
Energy



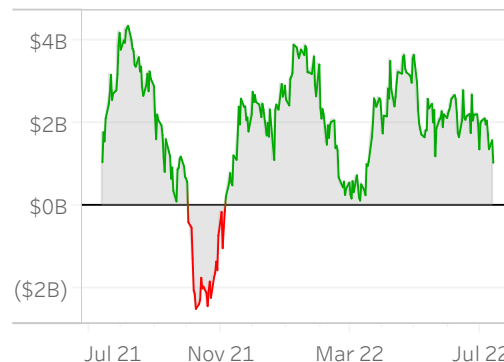
Financials



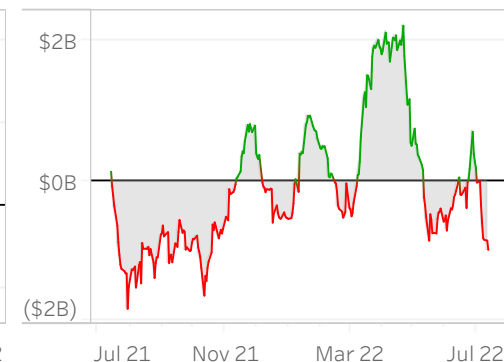
Industrial



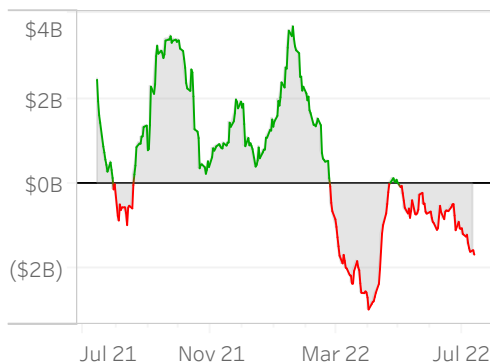
Health Care



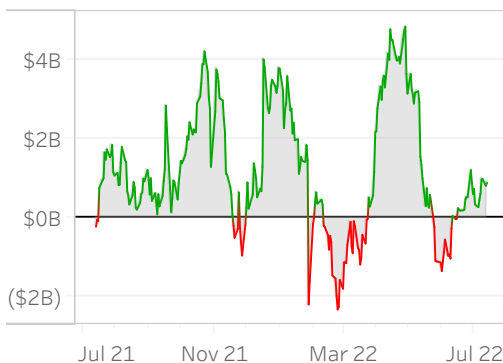
Materials



Real Estate



Technology



Utilities

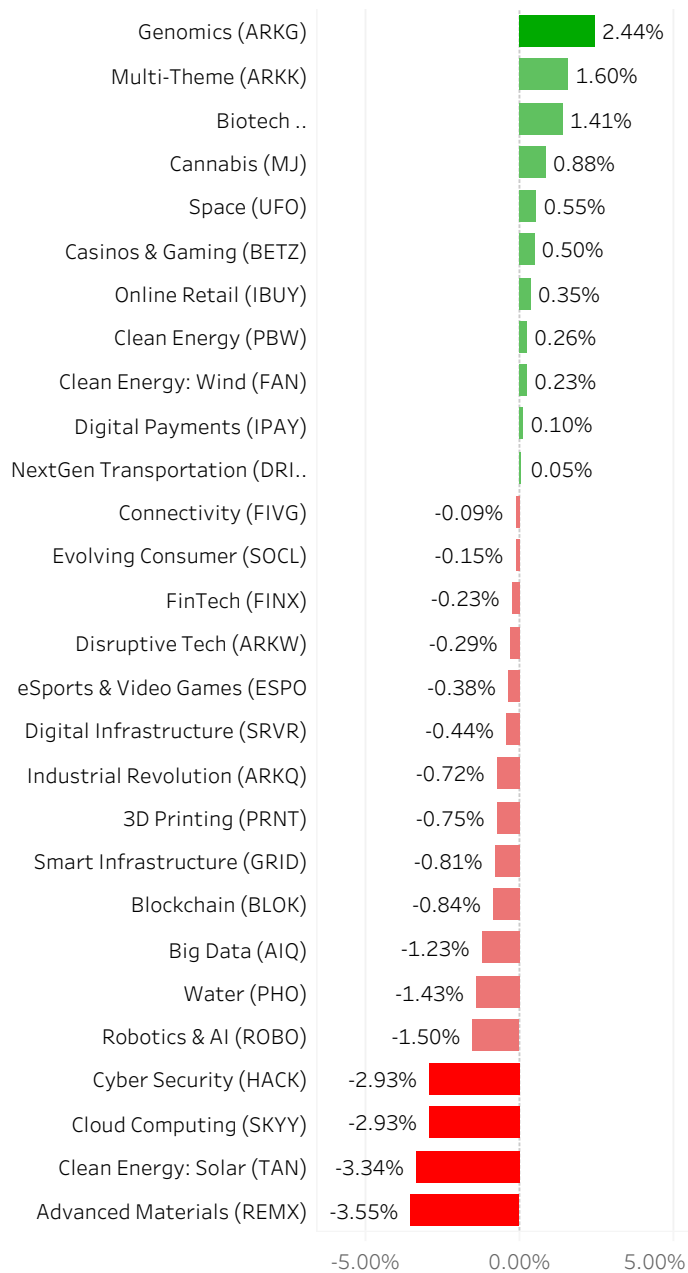


Multi-Sector

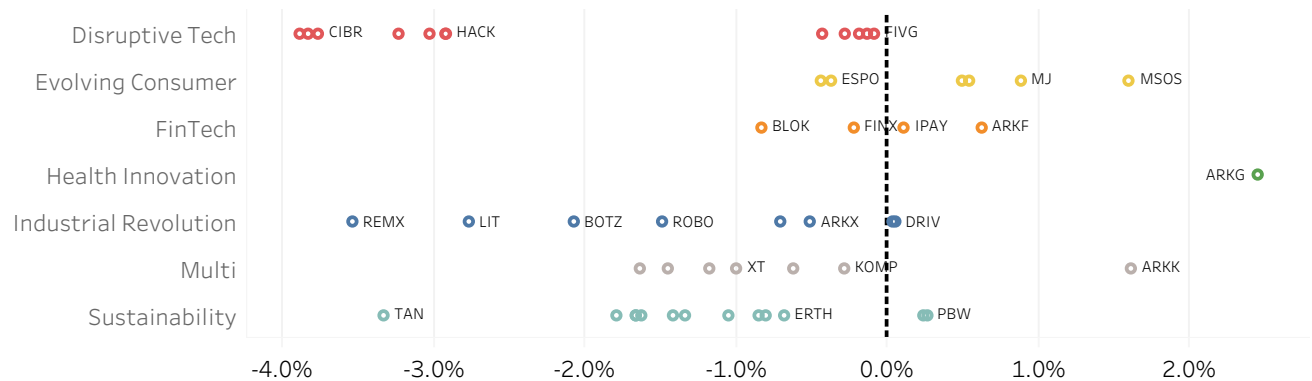


\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
ARKG	ARK Genomic Revolution ETF	2.44%
ARKK	ARK Innovation ETF	1.60%
MSOS	AdvisorShares Pure US Cannabis ETF	1.59%
GNOM	Global X Genomics & Biotechnology ETF	1.47%
SBIO	ALPS Medical Breakthroughs ETF	1.41%
MOON	Direxion Moonshot Innovators ETF	1.17%
IDNA	iShares Genomics Immunology and Healthcare ETF Geno..	1.08%
BJK	VanEck Gaming ETF	0.98%
MJ	ETFMG Alternative Harvest ETF	0.88%
HAIL	SPDR S&P Kensho Smart Mobility ETF	0.81%

Thematic Most Overbought

Ticker	Fund	Price
GNOM	Global X Genomics & Biotechnology ETF	63.15
IDNA	iShares Genomics Immunology and Healthcare ETF Geno..	62.64
SBIO	ALPS Medical Breakthroughs ETF	61.82
ARKG	ARK Genomic Revolution ETF	59.83
BTEC	Principal Healthcare Innovators ETF	58.98
HTEC	ROBO Global Healthcare Technology and Innovation ETF	54.00
GDOC	Goldman Sachs Future Health Care Equity ETF	53.63
ARKK	ARK Innovation ETF	52.41
EDOC	Global X Telemedicine & Digital Health ETF Registered	51.80
AGNG	Global X Aging Population ETF	51.30

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
BUG	Global X Cybersecurity ETF	-3.90%
WCLD	WisdomTree Cloud Computing Fund	-3.84%
CIBR	First Trust NASDAQ Cybersecurity ETF	-3.77%
REMX	VanEck Rare Earth/Strategic Metals ETF	-3.55%
TAN	Invesco Solar ETF	-3.34%
CLOU	Global X Cloud Computing ETF	-3.24%
KSTR	KraneShares SSE STAR Market 50 Index ETF	-3.24%
IHAK	iShares Cybersecurity & Tech ETF	-3.04%
SKYY	First Trust Cloud Computing ETF	-2.93%
HACK	ETFMG Prime Cyber Security ETF	-2.93%

Thematic Most Oversold

Ticker	Fund	Price
REMX	VanEck Rare Earth/Strategic Metals ETF	32.75
YOLO	AdvisorShares Pure Cannabis ETF	32.88
AWAY	ETFMG Travel Tech ETF	33.08
BETZ	Roundhill Sports Betting & iGaming ETF	35.67
MJ	ETFMG Alternative Harvest ETF	36.04
LEGR	First Trust Indxx Innovative Transaction & Process ETF	36.63
BOTZ	Global X Robotics & Artificial Intelligence ETF	37.16
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	37.36
NXTG	First Trust Indxx NextG ETF	37.51
MSOS	AdvisorShares Pure US Cannabis ETF	37.60

\* 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	
ARKK	ARK Innovation ETF	\$343M
ARKG	ARK Genomic Revolution ETF	\$136M
TAN	Invesco Solar ETF	\$130M
KWEB	KraneShares CSI China Internet ETF	\$58M
GNOM	Global X Genomics & Biotechnology ETF	\$14M
PBW	Invesco WilderHill Clean Energy ETF	\$13M
ARKW	ARK Next Generation Internet ETF	\$11M
EBLU	Ecofin Global Water ESG Fund	\$9M
MOON	Direxion Moonshot Innovators ETF	\$8M
KOMP	SPDR S&P Kensho New Economies Composite ETF	\$6M

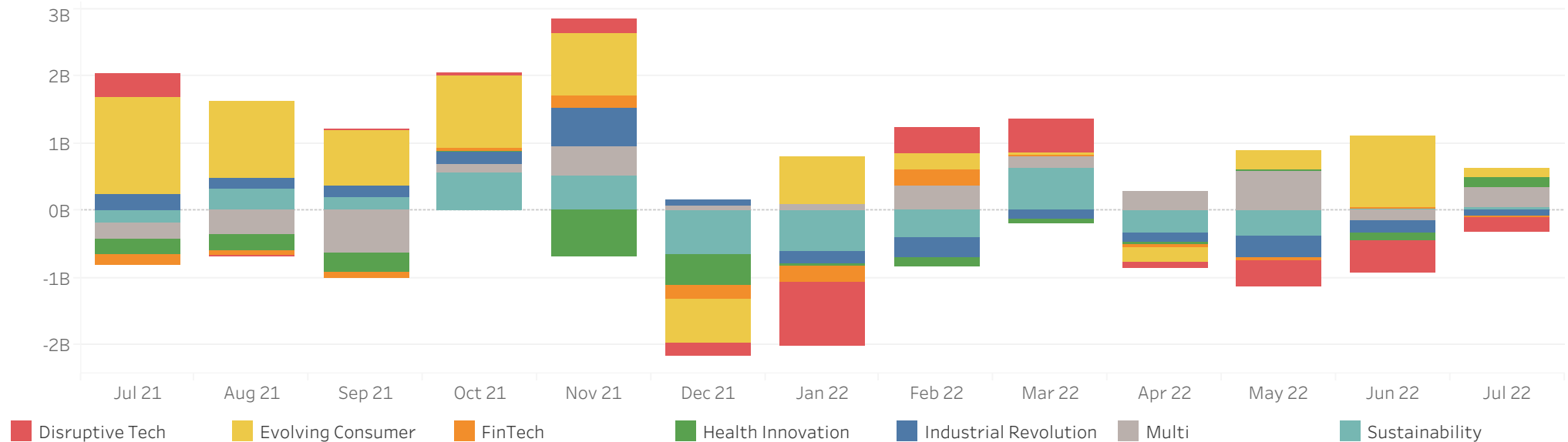
## Thematic 1 Week Flow Laggards

Ticker	Fund	
SKYY	First Trust Cloud Computing ETF	(\$110M)
CIBR	First Trust NASDAQ Cybersecurity ETF	(\$38M)
DRIV	Global X Autonomous & Electric Vehicles ETF	(\$23M)
LIT	Global X Lithium & Battery Tech ETF	(\$19M)
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	(\$11M)
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR ETF	(\$10M)
XITK	SPDR FactSet Innovative Technology ETF	(\$8M)
SMOG	VanEck Low Carbon Energy ETF	(\$6M)
ICLN	iShares Global Clean Energy ETF	(\$6M)
IRBO	iShares Robotics and Artificial Intelligence Multisector ETF	(\$5M)

## Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	36	\$18B	(\$172M)	(\$1,074M)	(\$799M)	(\$802M)
Evolving Consumer	48	\$12B	\$2M	\$1,174M	\$1,597M	\$7,016M
FinTech	24	\$3B	\$1M	(\$119M)	\$77M	(\$366M)
Health Innovation	19	\$4B	\$97M	\$47M	(\$240M)	(\$2,088M)
Industrial Revolution	32	\$12B	(\$26M)	(\$696M)	(\$1,345M)	\$39M
Multi	42	\$16B	\$26M	\$1,169M	\$1,783M	\$1,079M
Sustainability	42	\$17B	\$123M	(\$590M)	(\$721M)	(\$235M)
Grand Total	243	\$82B	\$51M	(\$88M)	\$353M	\$4,644M

## Thematic Monthly Flows



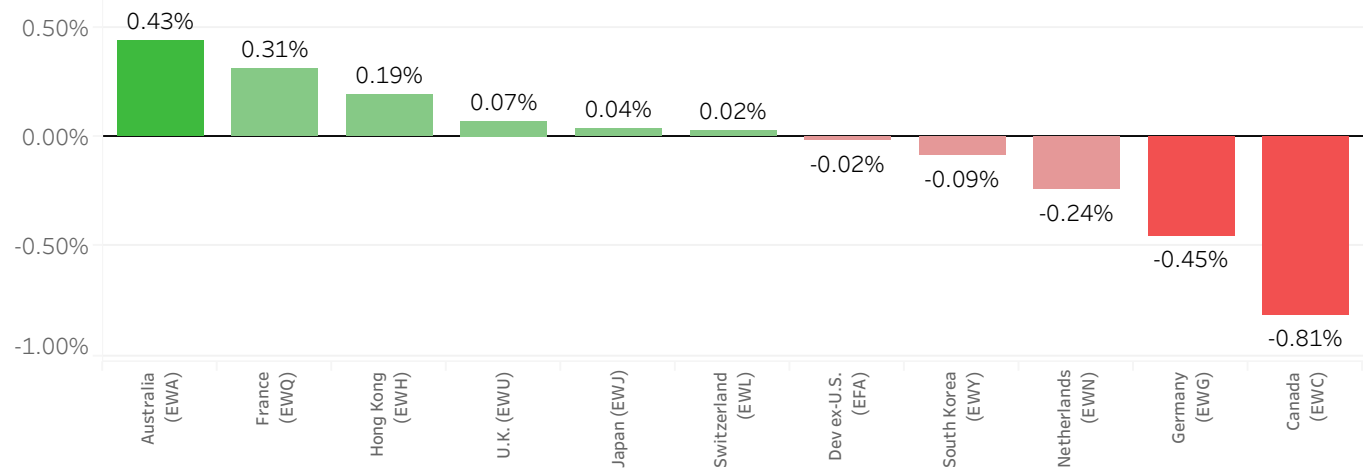
\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



Developed ex-U.S. (EFA)



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



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



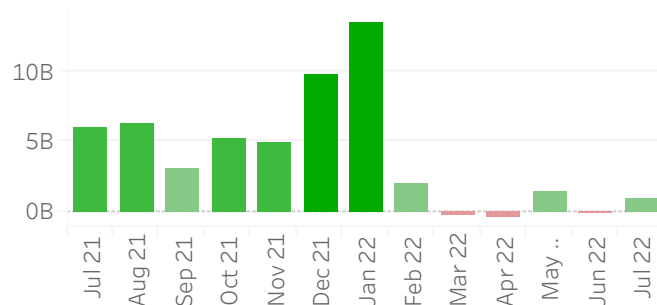
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
EWD	iShares MSCI Sweden ETF	1.75%
FKU	First Trust United Kingdom AlphaDEX Fund	1.17%
GREK	Global X MSCI Greece ETF	1.01%
FDD	First Trust Stoxx European Select Dividend Index Fund	0.67%
EPP	iShares MSCI Pacific ex-Japan ETF	0.47%
RFDI	First Trust Riverfront Dynamic Developed International ETF	0.43%
EWA	iShares MSCI Australia ETF	0.43%
DIM	WisdomTree International MidCap Dividend Fund	0.41%
AIVI	WisdomTree International AI Enhanced Value Fund	0.39%
BBAX	JPMorgan BetaBuilders Developed Asia Pacific-ex Japan ETF	0.36%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	50.74
PTIN	Pacer Trendpilot International ETF	50.43
HEWJ	iShares Currency Hedged MSCI Japan ETF	49.05
DXJ	WisdomTree Japan Hedged Equity Fund	47.09
EWJ	iShares MSCI Hong Kong ETF	45.96
EFAD	ProShares MSCI EAFE Dividend Growers ETF	45.74
EIS	iShares MSCI Israel ETF	44.98
JIRE	JPMorgan International Research Enhanced Equity ETF	44.86
ISRA	VanEck Israel ETF	44.61
DBEF	Xtrackers MSCI EAFE Hedged Equity ETF	44.33

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
EWP	iShares MSCI Spain ETF	-1.97%
CIL	VictoryShares International Volatility Wtd ETF	-1.41%
EWI	iShares MSCI Italy ETF	-1.03%
FLCA	Franklin FTSE Canada ETF	-0.99%
EWO	iShares MSCI Austria ETF	-0.98%
ISRA	VanEck Israel ETF	-0.95%
BBCA	JPMorgan BetaBuilders Canada ETF	-0.83%
EWC	iShares MSCI Canada ETF	-0.81%
TOK	iShares MSCI Tokusai ETF	-0.64%
PIZ	Invesco DWA Developed Markets Momentum ETF	-0.62%

Developed ex-U.S. Most Oversold

Ticker	Fund	Value
IMFL	Invesco International Developed Dynamic Multifact..	28.23
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	28.56
DWM	WisdomTree International Equity Fund	28.67
DTH	WisdomTree International High Dividend Fund	28.80
DFF	WisdomTree Europe SmallCap Dividend Fund	28.89
EWP	iShares MSCI Spain ETF	29.43
FYLD	Cambria Foreign Shareholder Yield ETF	29.55
DOL	WisdomTree International LargeCap Dividend Fund	29.57
FEP	First Trust Europe AlphaDEX Fund	29.72
EWG	iShares MSCI Germany ETF	30.11

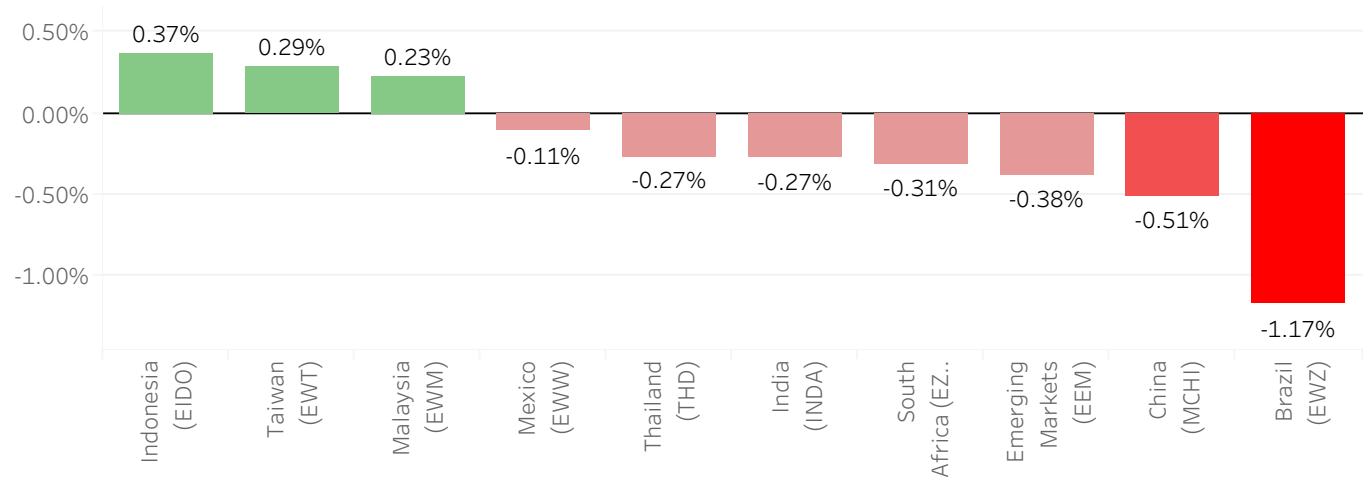
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



Emerging (EEM)



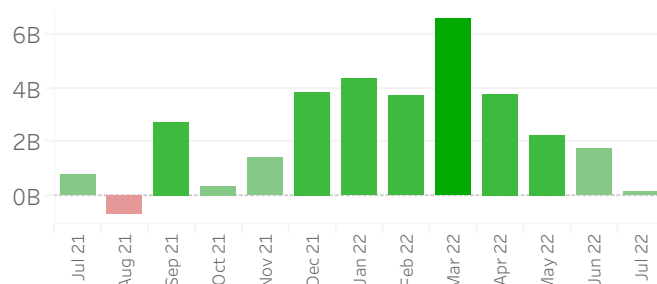
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
EIDO	iShares MSCI Indonesia ETF	0.37%
EWT	iShares MSCI Taiwan ETF	0.29%
PGJ	Invesco Golden Dragon China ETF	0.26%
LDEM	iShares ESG MSCI EM Leaders ETF	0.24%
EWM	iShares MSCI Malaysia ETF	0.23%
PIE	Invesco DWA Emerging Markets Momentum ETF	0.12%
EDIV	SPDR S&P Emerging Markets Dividend ETF	0.06%
QEMM	SPDR MSCI Emerging Markets StrategicFactors ETF	0.04%
UEVM	VictoryShares USAA MSCI Emerging Markets Value Mo..	-0.05%
TUR	iShares MSCI Turkey ETF	-0.06%

Emerging Most Overbought

Ticker	Fund	Price
SMIN	iShares MSCI India Small Cap ETF	52.91
FLIN	Franklin FTSE India ETF	49.16
INDA	iShares MSCI India ETF	48.95
PIN	Invesco India ETF	47.37
INDY	iShares India 50 ETF	47.03
CNYA	iShares MSCI China A ETF	46.73
PGJ	Invesco Golden Dragon China ETF	46.72
KBA	KraneShares Bosera MSCI China A 50 Connect Index E..	46.54
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	46.53
FNI	First Trust Chindia ETF	46.31

Emerging 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
EPOL	iShares MSCI Poland ETF	-3.79%
ECH	iShares MSCI Chile ETF	-3.02%
ECNS	iShares MSCI China Small-Cap ETF	-1.79%
RAYC	Rayliant Quantamental China Equity ETF	-1.78%
EPU	iShares MSCI Peru ETF	-1.62%
KBA	KraneShares Bosera MSCI China A 50 Connect Index ETF	-1.30%
FLBR	Franklin FTSE Brazil ETF	-1.27%
EWZ	iShares MSCI Brazil ETF	-1.17%
BKF	iShares MSCI BIC ETF	-1.14%
QAT	iShares MSCI Qatar ETF	-1.07%

Emerging Most Oversold

Ticker	Fund	Price
DGS	WisdomTree Emerging Markets SmallCap Dividend F..	25.01
EELV	Invesco S&P Emerging Markets Low Volatility ETF	26.53
FEMS	First Trust Emerging Markets Small Cap AlphaDEX F..	27.75
ECH	iShares MSCI Chile ETF	27.83
DEM	WisdomTree Emerging Markets High Dividend Fund	28.09
PIE	Invesco DWA Emerging Markets Momentum ETF	28.49
EPU	iShares MSCI Peru ETF	28.66
FLBR	Franklin FTSE Brazil ETF	29.31
DVYE	iShares Emerging Markets Dividend ETF	29.75
ILF	iShares Latin America 40 ETF	29.95

\*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	0.14%	0.76%	-9.85%
SHY	1-3 Year Treasury Bonds	0.05%	0.19%	-3.09%
IEF	7-10 Year Treasury Bonds	0.23%	1.94%	-10.22%
TLT	20+ Year Treasury Bonds	0.59%	1.38%	-21.56%
TIP	TIPS Bonds	-0.04%	-2.38%	-8.80%
FLOT	Floating Rate Bonds	-0.19%	-0.60%	-1.38%
LQD	Investment Grade Corporate	0.14%	0.54%	-15.25%
HYG	High Yield Corporate	0.40%	-0.70%	-12.02%
BKLN	Senior Loan	0.15%	-1.84%	-5.90%
PFF	Preferred & Income Securities	-0.12%	-0.05%	-14.05%
MUB	Municipal Bonds	0.24%	0.69%	-7.03%
MBB	MBS	0.10%	0.71%	-8.37%
EMB	Dollar Denominated EM Bonds	-0.29%	-3.66%	-21.49%
LEMB	Local Currency EM Bond	-0.27%	-4.36%	-16.09%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-4.67%	-19.47%	14.56%
DBE	Energy	-5.31%	-19.41%	41.92%
USO	WTI Crude Oil	-6.93%	-19.22%	33.94%
BNO	Brent Crude Oil	-6.92%	-16.59%	42.09%
UNG	Natural Gas	-3.72%	-28.63%	69.82%
UGA	Gasoline	-5.87%	-19.51%	52.25%
DBP	Precious Metals	-0.44%	-9.38%	-9.49%
GLD	Gold	-0.37%	-7.85%	-5.93%
SLV	Silver	-0.80%	-13.62%	-18.92%
PPLT	abrdn Physical Platin..	-3.18%	-13.73%	-12.90%
PALL	abrdn Physical Palla..	-5.04%	5.21%	6.82%
DBB	Base Metals	-2.70%	-18.62%	-19.09%
CPER	Copper	-4.94%	-24.62%	-27.86%
LD	Lead	-0.53%	-10.27%	-13.60%
JJN	Nickel	-1.88%	-21.62%	3.91%
JJU	Aluminum	-0.61%	-13.36%	-16.59%
JJT	Tin	-2.22%	-26.16%	-33.07%
DBA	Agriculture	-2.77%	-10.54%	-0.30%
CORN	Corn	-5.62%	-17.82%	9.84%
SOYB	Soybeans	-4.10%	-13.69%	9.99%
WEAT	Wheat	-4.69%	-24.62%	12.72%
CANE	Sugar	-0.32%	-3.84%	0.76%
BAL	Cotton	-1.73%	-24.93%	-1.47%
NIB	Cocoa	-0.60%	-4.30%	-12.56%
JO	Coffee	-2.69%	-9.75%	-8.60%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	-0.03%	3.81%	12.72%
UDN	Short Dollar	0.06%	-3.78%	-12.06%
FXE	Euro	-0.10%	-4.68%	-12.27%
FXB	British Pound Sterling	0.03%	-3.50%	-12.20%
FXF	Swiss Franc	0.01%	0.53%	-7.68%
FXJ	Japanese Yen	0.44%	-1.84%	-16.05%
FXC	Canadian Dollar	-0.11%	-1.86%	-3.05%
FXA	Australian Dollar	0.50%	-4.18%	-7.13%

\*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)