

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

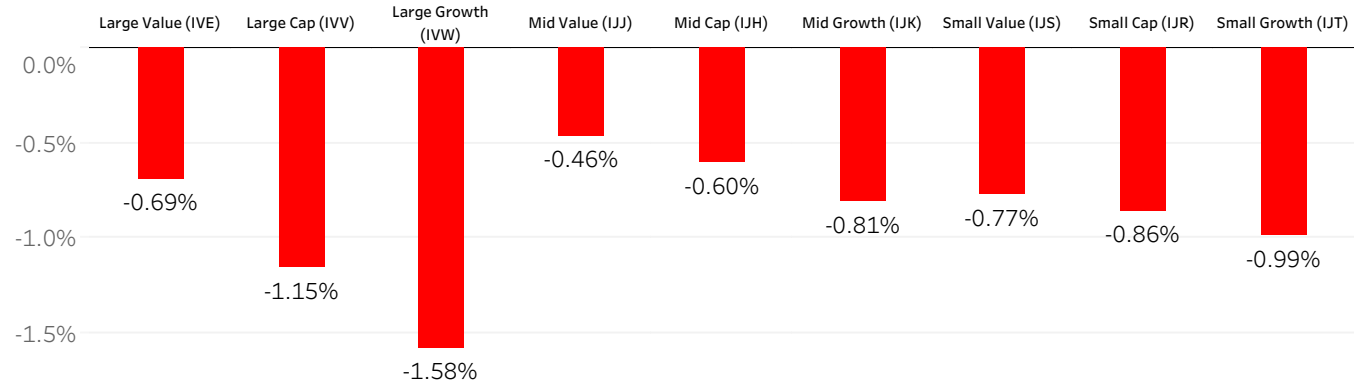


Small Cap Blend (S&P 600) IJR



■ 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	Performance
RPHS	Regents Park Hedged Market Strategy ETF	0.81%
SPVU	Invesco S&P 500 Enhanced Value ETF	0.67%
EQRR	ProShares Equities for Rising Rates ETF	0.31%
SVAL	iShares US Small Cap Value Factor ETF	0.20%
LSAT	Leadershares Alphafactor Tactical Focused ETF	0.14%
XMVM	Invesco S&P MidCap Value with Momentum ETF	0.11%
PTLC	Pacer Trendpilot US Large Cap ETF	0.08%
DUSA	Davis Select U.S. Equity ETF	0.07%
BUZZ	VanEck Social Sentiment ETF	0.07%
ONOF	Global X Adaptive U.S. Risk Management ETF	0.05%

Size & Style Most Overbought

Ticker	Fund	Price
PTLC	Pacer Trendpilot US Large Cap ETF	66.44
LSAT	Leadershares Alphafactor Tactical Focused ETF	52.09
ONOF	Global X Adaptive U.S. Risk Management ETF	51.18
IPO	Renaissance IPO ETF	50.00
SPC	CrossingBridge Pre-Merger SPAC ETF	49.56
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	49.15
FCTR	First Trust Lunt U.S. Factor Rotation ETF	48.96
BUZZ	VanEck Social Sentiment ETF	47.90
FPX	First Trust US Equity Opportunities ETF	47.72
EQRR	ProShares Equities for Rising Rates ETF	47.03

Size & Style 1-Day Performance Laggards

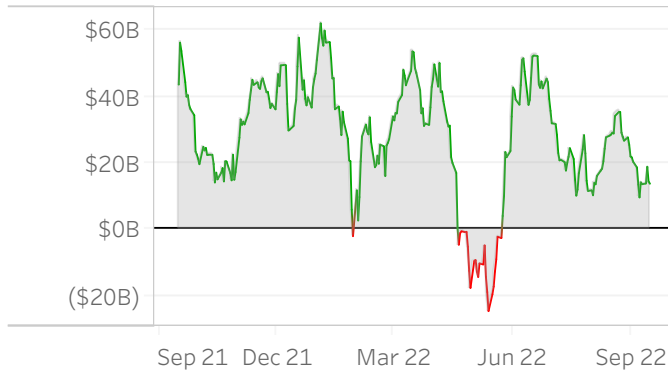
Ticker	Fund	Performance
QVMM	Invesco S&P MidCap 400 QVM Multi-factor ETF	-4.34%
SIXS	ETC 6 Meridian Small Cap Equity ETF	-3.94%
GUSA	Goldman Sachs MarketBeta U.S. 1000 Equity ETF	-3.06%
FFTY	Innovator IBD 50 ETF	-2.12%
LCG	Sterling Capital Focus Equity ETF	-1.80%
PWB	Invesco Dynamic Large Cap Growth ETF	-1.76%
QQQM	Invesco NASDAQ 100 ETF	-1.70%
MGK	Vanguard Mega Cap Growth ETF	-1.68%
VUG	Vanguard Growth ETF	-1.68%
QQQ	Invesco QQQ Trust	-1.67%

Size & Style Most Oversold

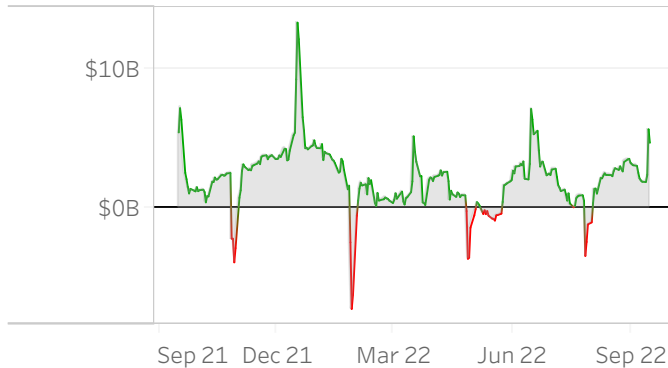
Ticker	Fund	Price
QVMS	Invesco S&P SmallCap 600 QVM Multi-factor ETF	14.28
USNZ	Xtrackers Net Zero Pathway Paris Aligned US Equity..	18.64
PTMC	Pacer Trendpilot US Mid Cap ETF	20.13
GUSA	Goldman Sachs MarketBeta U.S. 1000 Equity ETF	22.60
SIXS	ETC 6 Meridian Small Cap Equity ETF	32.71
CSB	VictoryShares US Small Cap High Dividend Volatility ..	33.44
DJD	Invesco Dow Jones Industrial Average Dividend ETF	35.01
QVML	Invesco S&P 500 QVM Multi-factor ETF	35.47
XSVM	Invesco S&P SmallCap Value with Momentum ETF	35.51
RZV	Invesco S&P Smallcap 600 Pure Value ETF	36.12

\*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	\$1,199B	(\$4.87B)	\$9.40B	\$21.72B	\$86.78B
Large Cap, Beta Growth, Beta: Growth	10	\$225B	\$0.86B	\$6.54B	\$12.19B	\$12.37B
Large Cap, Beta Growth, Beta: Value	11	\$214B	\$1.37B	\$0.03B	\$4.04B	\$25.43B
Mid Cap, Beta, Beta	10	\$177B	\$2.51B	\$1.76B	\$4.75B	\$10.96B
Mid Cap, Beta, Beta: Growth	6	\$33B	\$0.60B	\$1.01B	\$0.98B	\$0.65B
Mid Cap, Beta, Beta: Value	6	\$40B	\$0.69B	\$0.07B	\$0.14B	\$1.66B
Small Cap, Beta, Beta	13	\$189B	\$2.37B	(\$0.46B)	(\$4.74B)	\$7.71B
Small Cap, Beta, Beta: Growth	7	\$31B	\$0.52B	(\$0.06B)	\$0.20B	\$0.65B
Small Cap, Beta, Beta: Value	7	\$49B	\$1.13B	(\$1.64B)	(\$3.98B)	(\$1.64B)

### U.S. Size & Style Flow Leaders

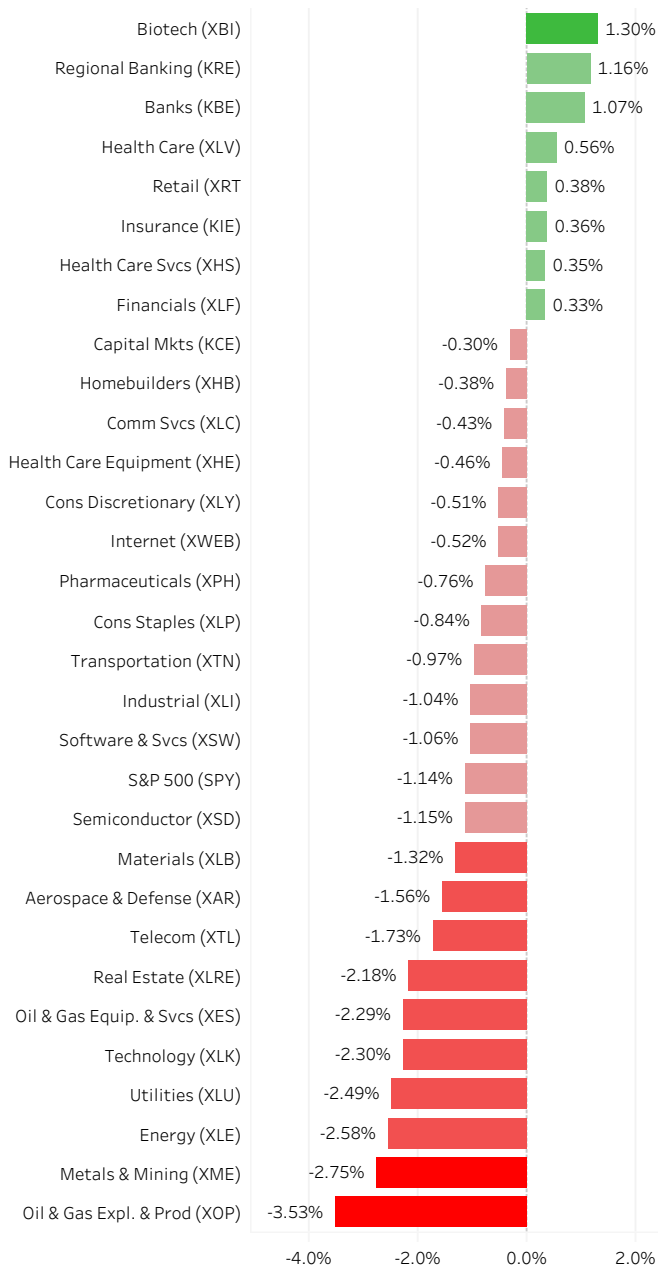
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VTI	Vanguard Total Stock Market ETF	\$3.57B	\$6.47B	\$8.51B	\$32.74B	\$265.40B
VO	Vanguard Mid-Cap ETF	\$2.01B	\$0.35B	\$1.55B	\$5.12B	\$52.43B
VOO	Vanguard S&P 500 ETF	\$1.97B	\$11.15B	\$13.76B	\$44.09B	\$266.49B
VXF	Vanguard Extended Market ETF	\$1.64B	\$1.32B	\$1.71B	(\$0.67B)	\$15.35B
VB	Vanguard Small-Cap ETF	\$1.58B	(\$0.71B)	(\$1.45B)	\$1.50B	\$43.28B
VBR	Vanguard Small Cap Value ETF	\$1.10B	(\$0.35B)	(\$1.65B)	\$1.09B	\$24.15B
VUG	Vanguard Growth ETF	\$0.98B	\$3.23B	\$6.25B	\$5.48B	\$74.89B
SCHA	Schwab U.S. Small-Cap ETF	\$0.94B	\$0.62B	\$0.06B	(\$0.15B)	\$14.47B
VTV	Vanguard Value ETF	\$0.93B	\$1.02B	\$5.06B	\$18.12B	\$99.14B
MOAT	VanEck Morningstar Wide Moat ETF	\$0.66B	(\$0.38B)	\$0.85B	\$0.63B	\$7.16B

### U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	(\$6.73B)	(\$7.91B)	(\$5.68B)	(\$10.32B)	\$351.13B
QQQ	Invesco QQQ Trust	(\$0.48B)	(\$0.71B)	\$3.29B	\$10.02B	\$160.75B
IWM	iShares Russell 2000 ETF	(\$0.15B)	(\$3.22B)	(\$4.25B)	(\$0.89B)	\$52.57B
IWY	iShares Russell Top 200 Growth ETF	(\$0.15B)	\$0.19B	\$0.89B	\$1.29B	\$4.65B
USMC	Principal U.S. Mega-Cap ETF	(\$0.12B)	(\$0.30B)	(\$0.28B)	(\$0.84B)	\$1.10B
IVV	iShares Core S&P 500 ETF	(\$0.06B)	\$2.64B	\$4.66B	\$29.35B	\$295.94B
VLUE	iShares MSCI USA Value Factor ETF	(\$0.05B)	(\$1.00B)	(\$3.25B)	(\$6.74B)	\$8.17B
IWR	iShares Russell Midcap ETF	(\$0.04B)	\$0.01B	\$0.83B	\$1.96B	\$27.50B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.04B)	(\$1.20B)	(\$1.06B)	(\$2.13B)	\$18.40B
RDVY	First Trust Rising Dividend Achievers ETF	(\$0.03B)	(\$0.12B)	(\$0.05B)	\$3.83B	\$8.17B

\* 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	-4.31%	17.02%	0.96%	4.42%	45.86
XLV	Health Care Select Sector SPDR Fund	-10.52%	6.61%	-1.57%	-2.98%	47.38
XLP	Consumer Staples Select Sector SPDR Fund	-11.68%	3.43%	-3.96%	-5.00%	34.53
XLE	Energy Select Sector SPDR Fund	-13.14%	53.87%	4.69%	8.97%	51.92
XLI	Industrial Select Sector SPDR Fund	-14.95%	6.56%	-2.81%	-6.16%	37.81
XLB	Materials Select Sector SPDR Fund	-18.25%	4.43%	-3.18%	-10.27%	39.85
SPY	SPDR S&P 500 ETF Trust	-18.34%	6.63%	-3.33%	-7.90%	39.88
XLF	Financial Select Sector SPDR Fund	-19.46%	8.52%	-0.36%	-7.39%	46.43
XLRE	Real Estate Select Sector SPDR Fund	-22.14%	3.84%	-5.87%	-10.87%	34.08
XLY	Consumer Discretionary Select Sector SPDR Fund	-24.69%	18.26%	0.24%	-5.91%	48.16
XLK	Technology Select Sector SPDR Fund	-26.73%	4.81%	-7.23%	-12.20%	35.05
XLC	Communication Services Select Sector SPDR Fund	-35.83%	0.00%	-5.99%	-17.31%	38.00

### Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
IHF	iShares U.S. Healthcare Providers ETF	1.75%
FTXO	First Trust Nasdaq Bank ETF	1.42%
IAT	iShares U.S. Regional Banks ETF	1.36%
KBWR	Invesco KBW Regional Banking ETF	1.34%
XBI	SPDR S&P BIOTECH ETF	1.30%
NETL	NETLease Corporate Real Estate ETF	1.27%
KBWB	Invesco KBW Bank ETF	1.26%
QABA	First Trust NASDAQ ABA Community Bank Index F..	1.26%
KRE	SPDR S&P Regional Banking ETF	1.16%
KBE	SPDR S&P Bank ETF	1.07%

### Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
AMZA	InfraCap MLP ETF	56.03
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	54.97
AMLP	Alerian MLP ETF	54.97
KBWP	Invesco KBW Property & Casualty Insurance ETF	54.60
MLPA	Global X MLP ETF	54.50
FXN	First Trust Energy AlphaDEX Fund	54.14
FCG	First Trust Natural Gas ETF	53.52
IYE	iShares U.S. Energy ETF	53.42
XES	SPDR S&P Oil & Gas Equipment & Services ETF	52.79
MLPX	Global X MLP & Energy Infrastructure ETF	52.76

### Sector & Industry 1 Day Performance Laggards

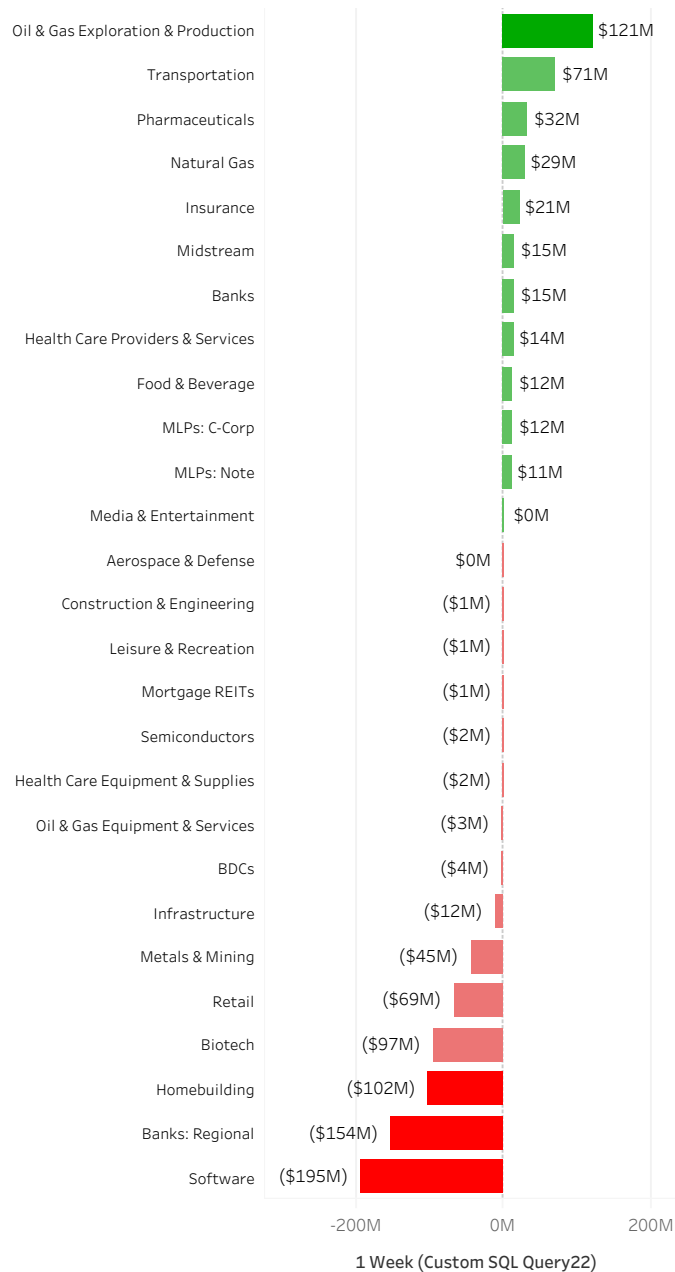
Ticker	Fund	1 Day Performance
PSCE	Invesco S&P SmallCap Energy ETF	-3.83%
PXI	Invesco DWA Energy Momentum ETF	-3.75%
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	-3.53%
PXE	Invesco Dynamic Energy Exploration & Production ETF	-3.44%
IGV	iShares Expanded Tech-Software Sector ETF	-3.22%
FCG	First Trust Natural Gas ETF	-3.19%
FTXN	First Trust Nasdaq Oil & Gas ETF	-2.98%
FXN	First Trust Energy AlphaDEX Fund	-2.96%
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	-2.93%
XME	SPDR S&P Metals & Mining ETF	-2.75%

### Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
FXG	First Trust Consumer Staples AlphaDEX Fund	32.89
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	32.91
IYZ	iShares U.S. Telecommunications ETF	33.16
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	33.28
ICF	iShares Cohen & Steers REIT ETF	34.03
XLRE	Real Estate Select Sector SPDR Fund	34.08
PSCI	Invesco S&P SmallCap Industrials ETF	34.36
KBWY	Invesco KBW Premium Yield Equity REIT ETF	34.50
XLP	Consumer Staples Select Sector SPDR Fund	34.53
SCHH	Schwab U.S. REIT ETF	34.54

\* 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	8	\$13B	(\$274M)	(\$156M)	(\$783M)	(\$1,970M)
Consumer Discretionary	13	\$24B	\$377M	(\$563M)	(\$2,021M)	(\$4,399M)
Consumer Staples	11	\$28B	\$392M	\$1,584M	\$3,665M	\$6,280M
Energy	34	\$78B	\$246M	(\$4,249M)	(\$5,915M)	\$1,537M
Financials	27	\$59B	(\$621M)	(\$470M)	(\$13,447M)	(\$7,715M)
Health Care	24	\$90B	\$21M	\$1,346M	\$6,417M	\$10,914M
Industrial	14	\$28B	(\$40M)	(\$1,391M)	(\$3,263M)	(\$4,503M)
Materials	10	\$13B	(\$136M)	(\$2,757M)	(\$2,395M)	(\$1,567M)
Multi-Sector	19	\$14B	(\$156M)	(\$1,819M)	(\$3,012M)	(\$5,480M)
Real Estate	25	\$66B	\$321M	(\$1,858M)	(\$2,741M)	(\$784M)
Technology	24	\$110B	\$190M	\$85M	\$1,822M	(\$354M)
Utilities	10	\$29B	\$317M	\$1,591M	\$4,765M	\$5,410M

## U.S. Sector & Industry Flow Leaders

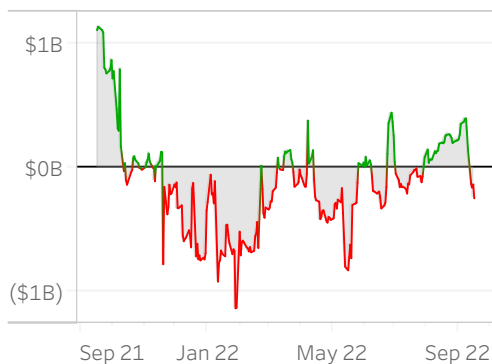
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLK	Technology Select Sector SPDR Fund	\$644M	\$747M	\$2,172M	\$2,581M	\$40,617M
XLY	Consumer Discretionary Select Sector SPDR Fu..	\$463M	(\$261M)	\$88M	(\$457M)	\$16,507M
XLP	Consumer Staples Select Sector SPDR Fund	\$354M	\$801M	\$1,013M	\$2,833M	\$15,793M
XLU	Utilities Select Sector SPDR Fund	\$241M	\$983M	\$3,261M	\$3,272M	\$18,362M
IYR	iShares U.S. Real Estate ETF	\$147M	(\$577M)	(\$779M)	(\$2,887M)	\$3,951M
VNQ	Vanguard Real Estate ETF	\$107M	(\$1,088M)	(\$1,835M)	\$411M	\$38,129M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	\$101M	(\$395M)	(\$2,063M)	(\$793M)	\$4,623M
IBB	iShares Biotechnology ETF	\$85M	\$61M	(\$89M)	\$69M	\$7,922M
IYT	iShares US Transportation ETF	\$72M	(\$13M)	(\$569M)	(\$564M)	\$855M
XLRE	Real Estate Select Sector SPDR Fund	\$66M	\$247M	\$588M	\$1,528M	\$5,248M

## U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	(\$533M)	(\$33M)	(\$7,498M)	(\$3,648M)	\$31,729M
XLC	Communication Services Select Sector SPDR Fu..	(\$292M)	(\$87M)	(\$448M)	(\$1,548M)	\$8,822M
IGM	iShares Expanded Tech Sector ETF	(\$224M)	(\$480M)	(\$371M)	\$427M	\$3,129M
IGV	iShares Expanded Tech-Software Sector ETF	(\$196M)	(\$661M)	(\$319M)	\$166M	\$3,792M
XBI	SPDR S&P BIOTECH ETF	(\$181M)	\$169M	\$766M	\$3,088M	\$7,600M
KRE	SPDR S&P Regional Banking ETF	(\$144M)	\$43M	(\$1,948M)	(\$837M)	\$3,272M
XLI	Industrial Select Sector SPDR Fund	(\$108M)	(\$1,235M)	(\$2,144M)	(\$3,856M)	\$12,548M
XLB	Materials Select Sector SPDR Fund	(\$89M)	(\$1,235M)	(\$1,025M)	(\$1,801M)	\$5,328M
XHB	SPDR S&P Homebuilders ETF	(\$73M)	(\$192M)	(\$499M)	(\$686M)	\$807M
XRT	SPDR S&P Retail ETF	(\$69M)	(\$122M)	(\$90M)	(\$588M)	\$237M

\* 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



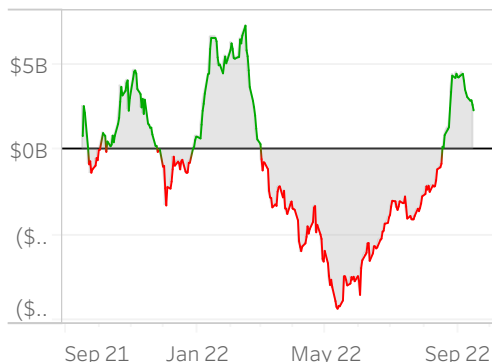
Consumer Staples



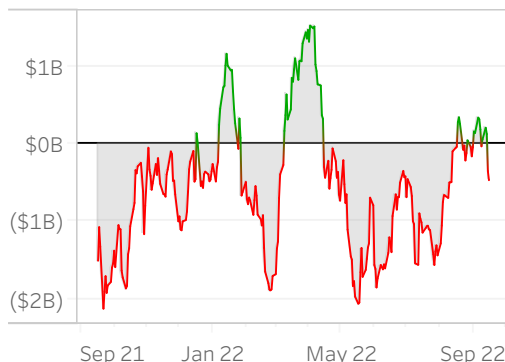
Energy



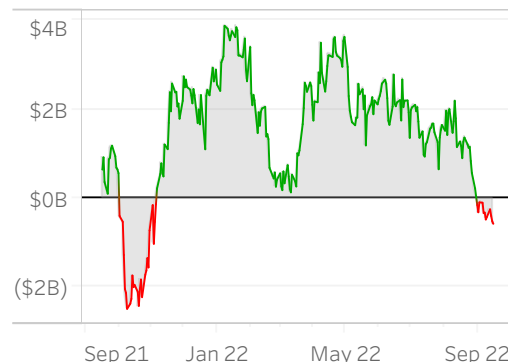
Financials



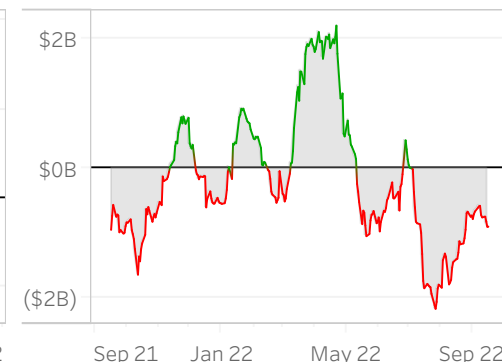
Industrial



Health Care



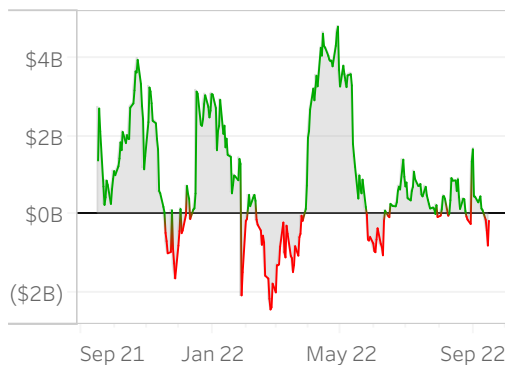
Materials



Real Estate



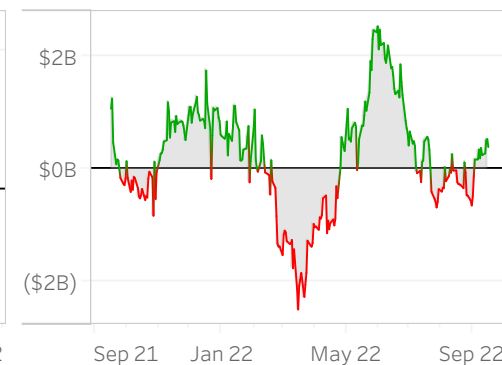
Technology



Utilities

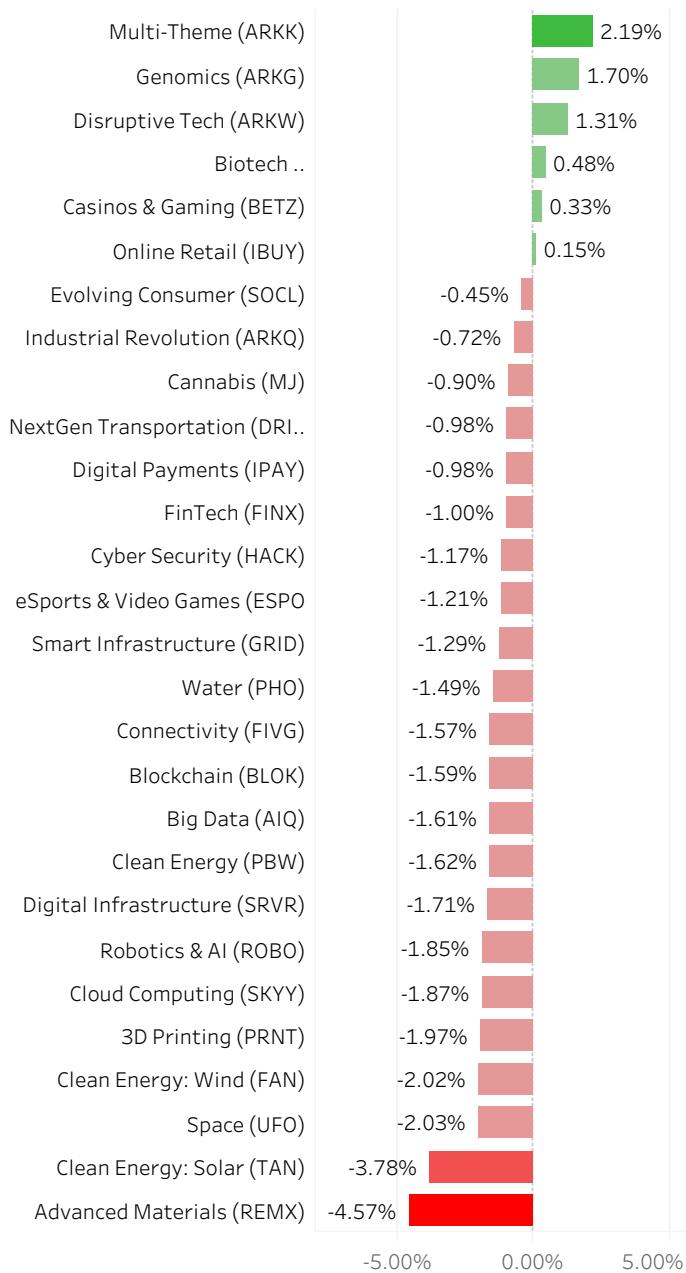


Multi-Sector

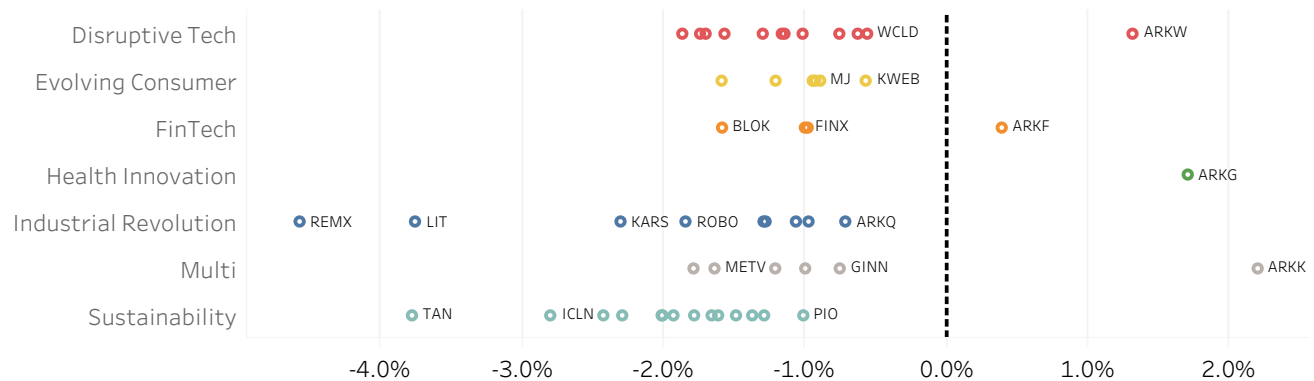


\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

### 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	2.19%
GNOM	Global X Genomics & Biotechnology ETF	1.98%
ARKG	ARK Genomic Revolution ETF	1.70%
BJK	VanEck Gaming ETF	1.61%
IDNA	iShares Genomics Immunology and Healthcare ETF Geno..	1.31%
ARKW	ARK Next Generation Internet ETF	1.31%
SBIO	ALPS Medical Breakthroughs ETF	0.48%
BTEC	Principal Healthcare Innovators ETF	0.39%
ARKF	ARK Fintech Innovation ETF	0.39%
BETZ	Roundhill Sports Betting & iGaming ETF	0.33%

### Thematic Most Overbought

Ticker	Fund	Price
ACES	ALPS Clean Energy ETF	57.83
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	55.77
PBW	Invesco WilderHill Clean Energy ETF	53.20
AWAY	ETFMG Travel Tech ETF	52.87
ARKG	ARK Genomic Revolution ETF	52.85
BTEC	Principal Healthcare Innovators ETF	52.62
SBIO	ALPS Medical Breakthroughs ETF	52.44
ARKK	ARK Innovation ETF	51.82
CNRG	SPDR S&P Kensho Clean Power ETF	51.21
TAN	Invesco Solar ETF	50.70

### Global Thematic 1-Day Performance Laggards

Ticker	Fund	Performance
REMX	VanEck Rare Earth/Strategic Metals ETF	-4.57%
KGRN	KraneShares MSCI China Clean Technology Index ETF	-4.08%
TAN	Invesco Solar ETF	-3.78%
LIT	Global X Lithium & Battery Tech ETF	-3.76%
ICLN	iShares Global Clean Energy ETF	-2.80%
CNRG	SPDR S&P Kensho Clean Power ETF	-2.43%
KARS	KraneShares Electric Vehicles & Future Mobility Index ..	-2.31%
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	-2.30%
CTEC	Global X CleanTech ETF	-2.28%
BITQ	Bitwise Crypto Industry Innovators ETF	-2.11%

### Thematic Most Oversold

Ticker	Fund	Price
KGRN	KraneShares MSCI China Clean Technology Index ETF	30.33
VPN	Global X Data Center REITs & Digital Infrastructure ETF	33.34
NXTG	First Trust Indxx NextG ETF	33.82
PAWZ	ProShares Pet Care ETF	34.83
FIVG	Defiance Next Gen Connectivity ETF	34.94
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR..	35.34
HERO	Global X Video Games & Esports ETF	36.10
ESPO	VanEck Video Gaming and eSports ETF	36.14
EBLU	Ecofin Global Water ESG Fund	36.34
GAMR	Wedbush ETFMG Video Game Tech ETF	36.40

\* 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
PBW	Invesco WilderHill Clean Energy ETF	\$89M
FIW	First Trust Water ETF	\$64M
TAN	Invesco Solar ETF	\$21M
ARKW	ARK Next Generation Internet ETF	\$15M
ARKG	ARK Genomic Revolution ETF	\$14M
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	\$10M
CTEC	Global X CleanTech ETF	\$8M
MJUS	ETFMG U.S. Alternative Harvest ETF	\$8M
ARKF	ARK Fintech Innovation ETF	\$7M
PHO	Invesco Water Resources ETF	\$7M

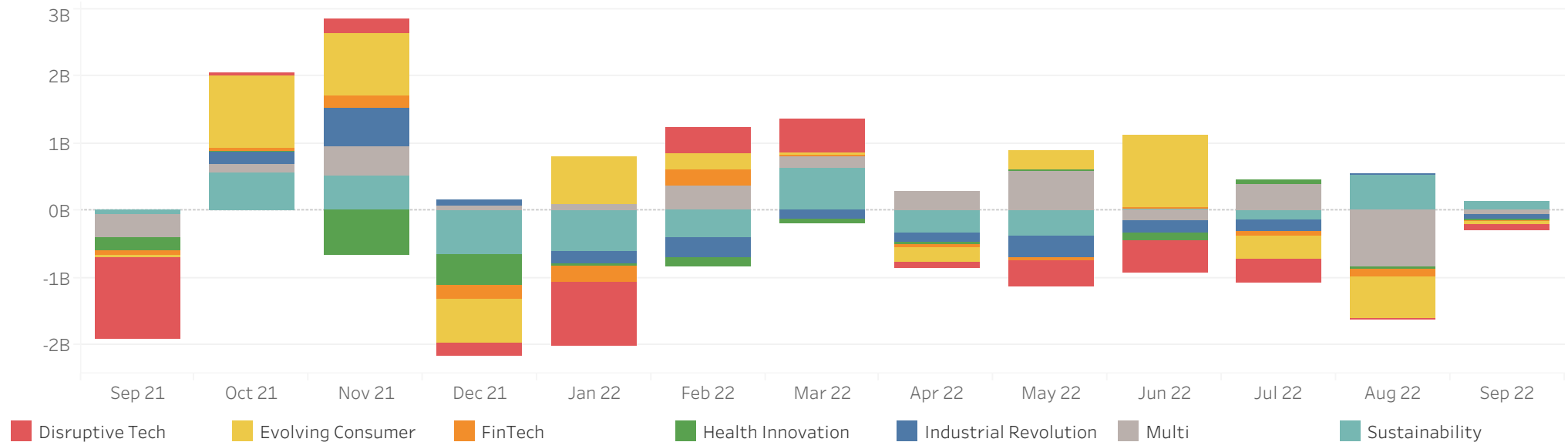
### Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
ARKK	ARK Innovation ETF	(\$82M)
KWEB	KraneShares CSI China Internet ETF	(\$36M)
SKYY	First Trust Cloud Computing ETF	(\$32M)
TARK	AXS 2X Innovation ETF	(\$14M)
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	(\$11M)
HACK	ETFMG Prime Cyber Security ETF	(\$10M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$8M)
AWAY	ETFMG Travel Tech ETF	(\$6M)
BUG	Global X Cybersecurity ETF	(\$5M)
UFO	Procore Space ETF	(\$5M)

### Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$18B	(\$73M)	(\$739M)	(\$1,240M)	(\$2,602M)
Evolving Consumer	47	\$10B	(\$44M)	(\$519M)	\$866M	\$2,445M
FinTech	24	\$3B	(\$6M)	(\$203M)	(\$234M)	(\$343M)
Health Innovation	19	\$4B	\$18M	(\$115M)	(\$74M)	(\$1,667M)
Industrial Revolution	32	\$12B	(\$15M)	(\$313M)	(\$931M)	(\$642M)
Multi	41	\$15B	(\$151M)	(\$422M)	(\$51M)	\$1,159M
Sustainability	42	\$21B	\$195M	\$673M	(\$116M)	(\$176M)
Grand Total	240	\$83B	(\$76M)	(\$1,639M)	(\$1,780M)	(\$1,826M)

### Thematic Monthly Flows



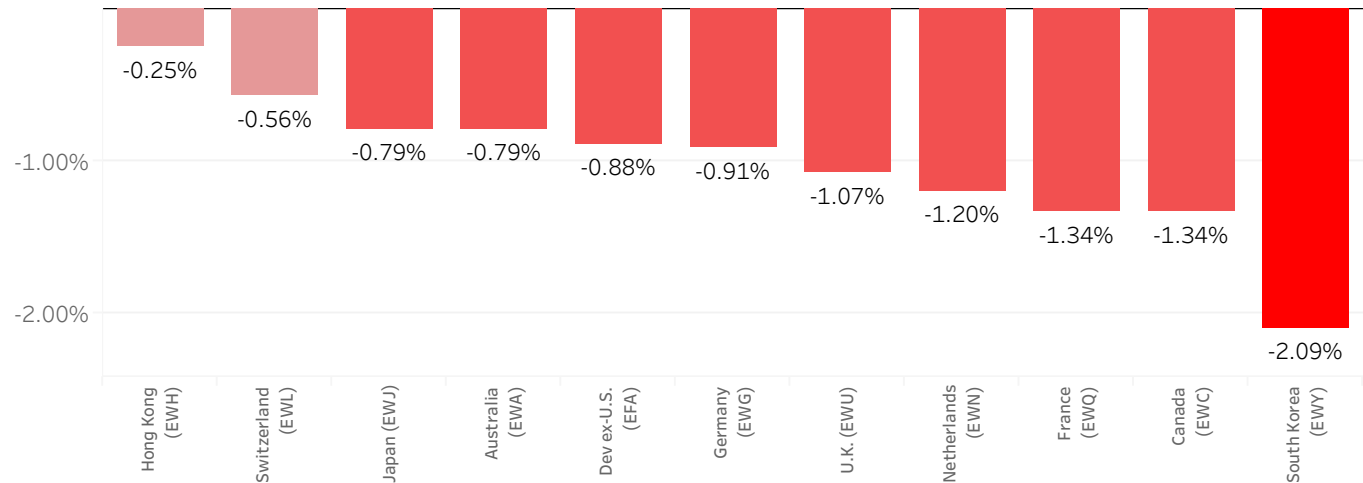
\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



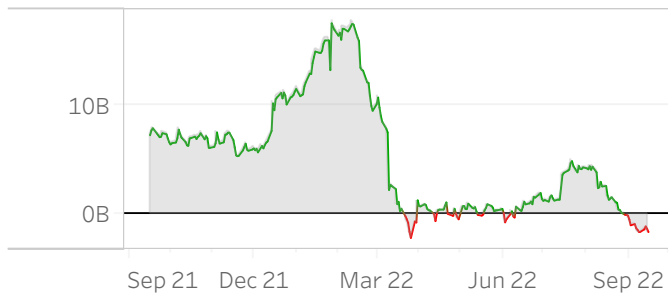
Developed ex-U.S. (EFA)



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



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



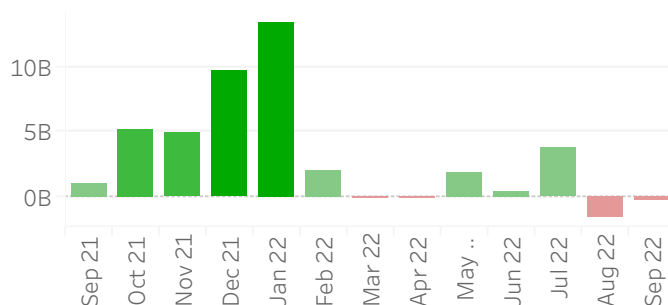
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
EWP	iShares MSCI Spain ETF	0.31%
GREK	Global X MSCI Greece ETF	0.26%
PTIN	Pacer Trendpilot International ETF	0.14%
CIL	VictoryShares International Volatility Wtd ETF	0.11%
EWH	iShares MSCI Hong Kong ETF	-0.25%
FLSW	Franklin FTSE Switzerland ETF	-0.30%
AIVI	WisdomTree International AI Enhanced Value Fund	-0.32%
IVLU	iShares MSCI Intl Value Factor ETF	-0.37%
LVHI	Franklin International Low Volatility High Dividend Index ETF	-0.37%
DXJ	WisdomTree Japan Hedged Equity Fund	-0.40%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
PTIN	Pacer Trendpilot International ETF	55.99
EWI	iShares MSCI Italy ETF	51.06
EWP	iShares MSCI Spain ETF	49.97
DXJ	WisdomTree Japan Hedged Equity Fund	48.57
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	46.75
HEWJ	iShares Currency Hedged MSCI Japan ETF	46.54
EWO	iShares MSCI Austria ETF	46.46
BBCA	JPMorgan BetaBuilders Canada ETF	45.32
EWC	iShares MSCI Canada ETF	45.25
FLCA	Franklin FTSE Canada ETF	45.19

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
EWY	iShares MSCI South Korea ETF	-2.09%
NORW	Global X MSCI Norway ETF	-1.76%
PDN	Invesco FTSE RAFI Developed Markets ex-US Small-Mid ETF	-1.60%
EDEN	iShares MSCI Denmark ETF	-1.55%
IQDG	WisdomTree International Quality Dividend Growth Fund	-1.55%
ISCF	iShares MSCI Intl Small-Cap Multifactor ETF	-1.42%
ICOW	Pacer Developed Markets International Cash Cows 100 ETF	-1.41%
FDT	First Trust Developed Markets ex-US AlphaDEX Fund	-1.38%
EWC	iShares MSCI Canada ETF	-1.34%
EWQ	iShares MSCI France ETF	-1.34%

Developed ex-U.S. Most Oversold

Ticker	Fund	Value
IMFL	Invesco International Developed Dynamic Multifac...	33.43
QLVD	FlexShares Developed Markets ex-US Quality Low V..	33.63
EWY	iShares MSCI South Korea ETF	34.88
IDLV	Invesco S&P International Developed Low Volatility ..	35.47
EFAV	iShares MSCI EAFE Min Vol Factor ETF	35.52
AIA	iShares Asia 50 ETF	35.58
DEEF	Xtrackers FTSE Developed ex US Multifactor ETF	35.94
RODM	Hartford Multifactor Developed Markets (ex-US) ETF	35.95
EWH	iShares MSCI Hong Kong ETF	35.96
JPIN	J.P. Morgan Diversified Return International Equity ..	36.30

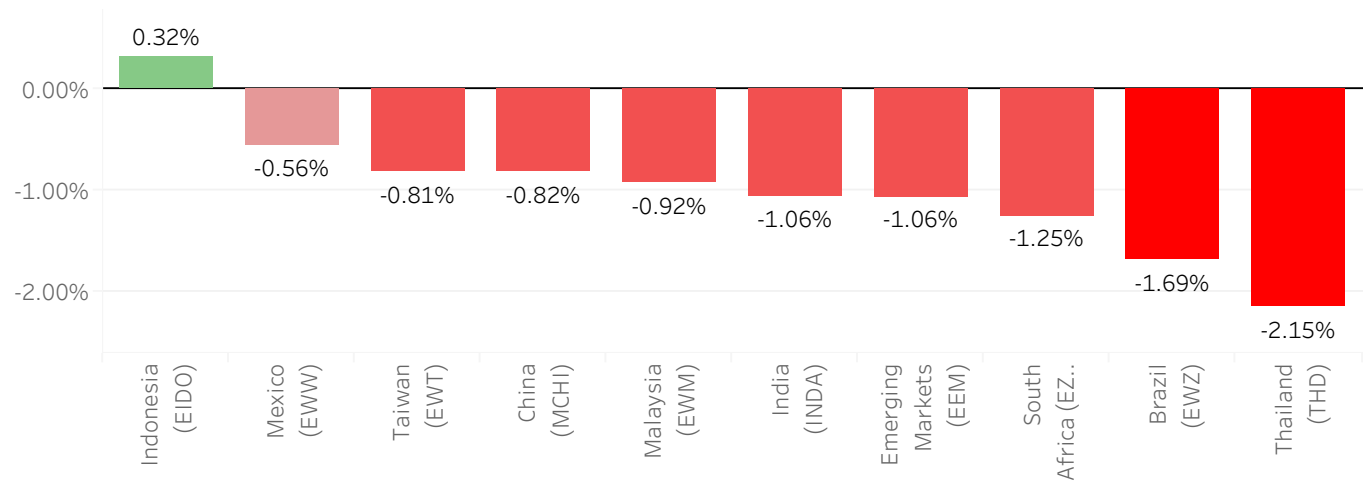
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



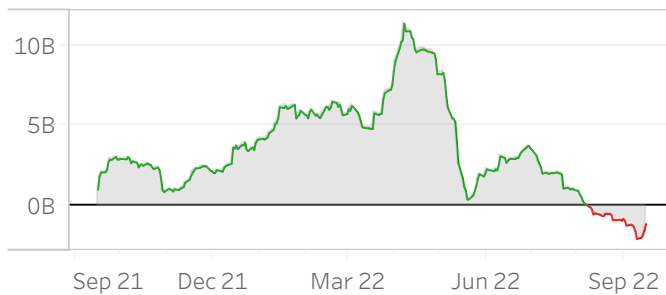
Emerging (EEM)



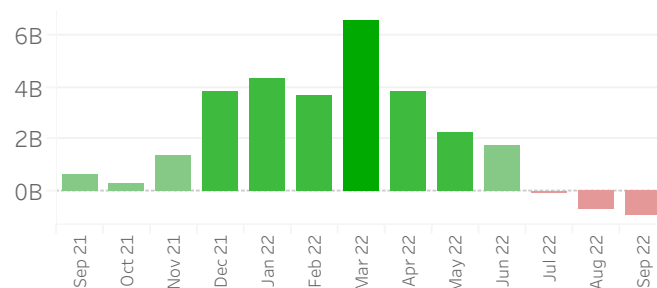
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
EPOL	iShares MSCI Poland ETF	0.64%
QAT	iShares MSCI Qatar ETF	0.52%
EIDO	iShares MSCI Indonesia ETF	0.32%
FXI	iShares China Large-Cap ETF	-0.39%
EDIV	SPDR S&P Emerging Markets Dividend ETF	-0.41%
EPU	iShares MSCI Peru ETF	-0.43%
DEM	WisdomTree Emerging Markets High Dividend Fund	-0.49%
EWX	SPDR S&P Emerging Markets Small Cap ETF	-0.52%
EWW	iShares MSCI Mexico ETF	-0.56%
SMIN	iShares MSCI India Small Cap ETF	-0.56%

Emerging Most Overbought

Ticker	Fund	Price
EIDO	iShares MSCI Indonesia ETF	68.56
SMIN	iShares MSCI India Small Cap ETF	60.72
EPI	WisdomTree India Earnings Fund	57.32
TUR	iShares MSCI Turkey ETF	55.97
FLIN	Franklin FTSE India ETF	54.74
PIN	Invesco India ETF	53.81
INDA	iShares MSCI India ETF	53.80
INDY	iShares India 50 ETF	52.58
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fu..	52.05
EWW	iShares MSCI Mexico ETF	49.25

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
TUR	iShares MSCI Turkey ETF	-3.52%
ECH	iShares MSCI Chile ETF	-2.94%
CNYA	iShares MSCI China A ETF	-2.21%
RAYC	Rayliant Quantamental China Equity ETF	-2.20%
THD	iShares MSCI Thailand ETF	-2.15%
FRDM	Freedom 100 Emerging Markets ETF	-1.99%
EWZS	iShares MSCI Brazil Small-Cap ETF	-1.98%
KBA	KraneShares Bosera MSCI China A 50 Connect Index ETF	-1.97%
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	-1.85%
FLBR	Franklin FTSE Brazil ETF	-1.72%

Emerging Most Oversold

Ticker	Fund	Price
RAYC	Rayliant Quantamental China Equity ETF	32.51
CNYA	iShares MSCI China A ETF	33.74
KBA	KraneShares Bosera MSCI China A 50 Connect Index ..	34.34
EDIV	SPDR S&P Emerging Markets Dividend ETF	34.67
EWM	iShares MSCI Malaysia ETF	34.82
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	35.11
FM	iShares MSCI Frontier and Select EM ETF	35.58
EELV	Invesco S&P Emerging Markets Low Volatility ETF	35.74
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	36.10
EWT	iShares MSCI Taiwan ETF	36.15

\*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	-0.30%	-4.02%	-12.11%
SHY	1-3 Year Treasury Bonds	-0.11%	-1.07%	-4.04%
IEF	7-10 Year Treasury Bonds	-0.34%	-5.01%	-13.35%
TLT	20+ Year Treasury Bonds	-0.06%	-6.28%	-26.14%
TIP	TIPS Bonds	-0.51%	-3.29%	-9.58%
FLOT	Floating Rate Bonds	0.00%	0.39%	-0.06%
LQD	Investment Grade Corporate	-0.48%	-5.70%	-17.47%
HYG	High Yield Corporate	-0.63%	-5.69%	-12.21%
BKLN	Senior Loan	-0.14%	-2.29%	-3.28%
PFF	Preferred & Income Securities	-0.70%	-6.53%	-14.22%
MUB	Municipal Bonds	-0.25%	-2.95%	-8.83%
MBB	MBS	-0.40%	-4.90%	-10.96%
EMB	Dollar Denominated EM Bonds	-0.07%	-5.59%	-19.96%
LEMB	Local Currency EM Bond	-0.31%	-3.49%	-14.32%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-3.31%	-3.29%	21.99%
DBE	Energy	-3.65%	-3.65%	40.52%
USO	WTI Crude Oil	-4.08%	-4.28%	28.33%
BNO	Brent Crude Oil	-3.56%	-3.04%	37.16%
UNG	Natural Gas	-8.87%	-6.22%	129.46%
UGA	Gasoline	-4.10%	-10.73%	29.54%
DBP	Precious Metals	-1.81%	-6.57%	-12.14%
GLD	Gold	-1.87%	-6.48%	-9.35%
SLV	Silver	-2.06%	-5.62%	-18.04%
PPLT	abrdn Physical Platin..	-0.02%	-3.04%	-6.47%
PALL	abrdn Physical Palla..	-0.78%	-0.80%	12.62%
DBB	Base Metals	-0.52%	-4.96%	-14.82%
CPER	Copper	-1.14%	-4.53%	-23.26%
LD	Lead	-2.70%	-15.78%	-18.25%
JJN	Nickel	-4.64%	4.56%	12.24%
JJU	Aluminum	0.64%	-4.12%	-17.85%
JJT	Tin	-2.42%	-15.24%	-44.90%
DBA	Agriculture	-0.05%	0.10%	4.00%
CORN	Corn	-0.99%	6.63%	25.49%
SOYB	Soybeans	-0.40%	2.44%	19.78%
WEAT	Wheat	-3.60%	2.88%	15.83%
CANE	Sugar	-2.00%	-3.08%	-4.13%
BAL	Cotton	0.38%	-9.07%	10.88%
NIB	Cocoa	2.85%	-1.63%	-14.25%
JO	Coffee	0.37%	-2.04%	-1.73%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.07%	3.16%	14.71%
UDN	Short Dollar	-0.05%	-3.14%	-13.39%
FXE	Euro	0.15%	-1.75%	-12.77%
FXB	British Pound Sterling	-0.51%	-4.78%	-15.20%
FXF	Swiss Franc	0.16%	-1.63%	-5.89%
FXJ	Japanese Yen	-0.20%	-7.13%	-20.03%
FXC	Canadian Dollar	-0.49%	-2.43%	-4.62%
FXA	Australian Dollar	-0.61%	-4.55%	-7.95%

\*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)