

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

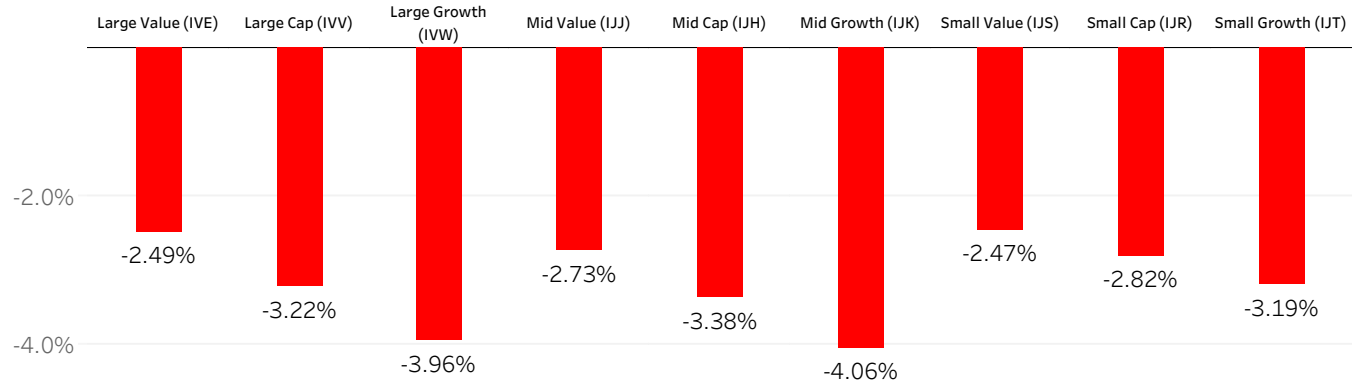


Small Cap Blend (S&P 600) IJR



■ 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
ONOF	Global X Adaptive U.S. Risk Management ETF	0.24%
PTNQ	Pacer Trendpilot 100 ETF	0.17%
PTLC	Pacer Trendpilot US Large Cap ETF	0.03%
SPC	CrossingBridge Pre-Merger SPAC ETF	-0.05%
RDIV	Invesco S&P Ultra Dividend Revenue ETF	-0.06%
PTMC	Pacer Trendpilot US Mid Cap ETF	-0.08%
LVHD	Legg Mason Low Volatility High Dividend ETF	-0.13%
CSB	VictoryShares US Small Cap High Dividend Volatility Wtd.	-0.15%
SMDV	ProShares Russell 2000 Dividend Growers ETF	-0.17%
CSF	VictoryShares US Discovery Enhanced Volatility Wtd ETF	-0.44%

Size & Style Most Overbought

Ticker	Fund	Value
PTMC	Pacer Trendpilot US Mid Cap ETF	49.10
RDIV	Invesco S&P Ultra Dividend Revenue ETF	48.96
PTNQ	Pacer Trendpilot 100 ETF	47.03
SDOG	ALPS Sector Dividend Dogs ETF	46.66
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	46.65
SPC	CrossingBridge Pre-Merger SPAC ETF	46.35
WBIY	WBI Power Factor High Dividend ETF	46.06
PEY	Invesco High Yield Equity Dividend Achievers ETF	45.41
ONOF	Global X Adaptive U.S. Risk Management ETF	45.05
FDL	First Trust Morningstar Dividend Leaders Index Fund	44.92

Size & Style 1-Day Performance Laggards

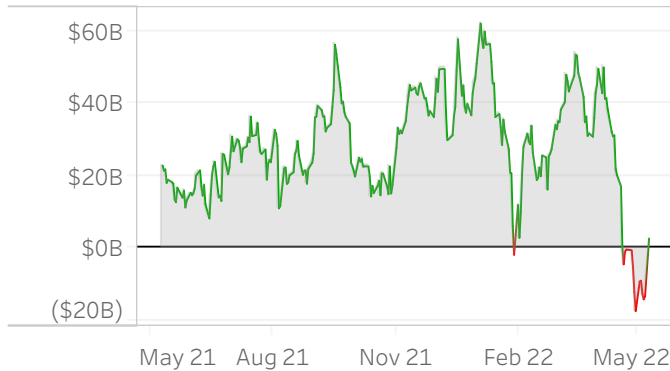
Ticker	Fund	Performance
IPO	Renaissance IPO ETF	-9.67%
BUZZ	VanEck Social Sentiment ETF	-7.01%
FPX	First Trust US Equity Opportunities ETF	-6.57%
MXDU	Nationwide Maximum Diversification US Core Equity ETF	-6.52%
FFTY	Innovator IBD 50 ETF	-6.06%
DWAS	Invesco DWA SmallCap Momentum ETF	-6.05%
PDP	Invesco DWA Momentum ETF	-5.88%
SPHB	Invesco S&P 500 High Beta ETF	-5.81%
VBK	Vanguard Small-Cap Growth ETF	-5.60%
IWP	iShares Russell Mid-Cap Growth ETF	-5.48%

Size & Style Most Oversold

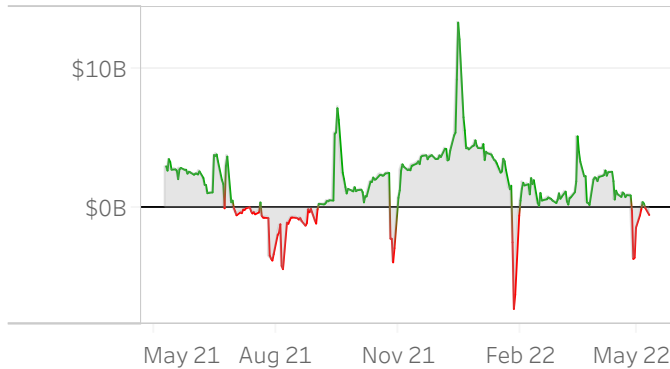
Ticker	Fund	Value
MXDU	Nationwide Maximum Diversification US Core Equit..	19.71
FFTY	Innovator IBD 50 ETF	21.77
PABU	iShares Paris-Aligned Climate MSCI USA ETF	22.01
IPO	Renaissance IPO ETF	25.98
TMFS	Motley Fool Small-Cap Growth ETF	26.12
LCG	Sterling Capital Focus Equity ETF	26.35
TMFM	Motley Fool Mid-Cap Growth ETF	26.46
CLRG	IQ Chaikin U.S. Large Cap ETF	26.46
FPX	First Trust US Equity Opportunities ETF	27.15
IWC	iShares Micro-Cap ETF	27.72

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

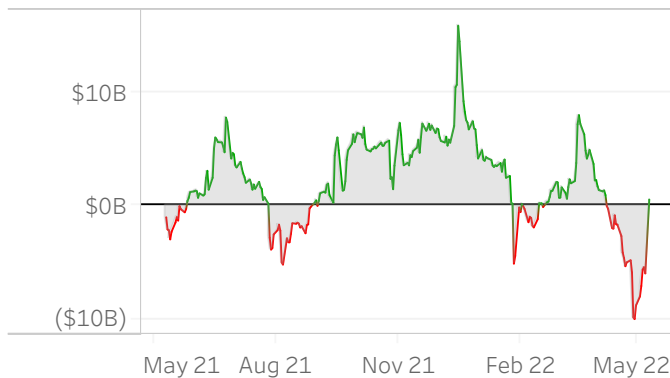
Large-Cap 30-Day Rolling Flows



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	\$1,241B	\$1.72B	(\$11.18B)	\$30.68B	\$112.56B
Large Cap, Beta Growth, Beta: Growth	10	\$230B	\$0.45B	\$4.00B	\$4.43B	\$14.46B
Large Cap, Beta Growth, Beta: Value	11	\$222B	(\$0.09B)	\$2.96B	\$16.09B	\$27.48B
Mid Cap, Beta, Beta	10	\$181B	(\$0.13B)	\$0.63B	\$7.28B	\$9.91B
Mid Cap, Beta, Beta: Growth	6	\$33B	\$0.00B	(\$0.53B)	(\$0.51B)	(\$0.46B)
Mid Cap, Beta, Beta: Value	6	\$41B	(\$0.50B)	(\$0.44B)	(\$0.18B)	\$0.74B
Small Cap, Beta, Beta	12	\$198B	(\$0.17B)	(\$0.60B)	\$0.76B	\$10.30B
Small Cap, Beta, Beta: Growth	7	\$31B	\$0.17B	\$0.36B	\$0.95B	\$1.10B
Small Cap, Beta, Beta: Value	7	\$52B	(\$0.20B)	(\$3.74B)	(\$2.49B)	(\$2.05B)

U.S. Size & Style Flow Leaders

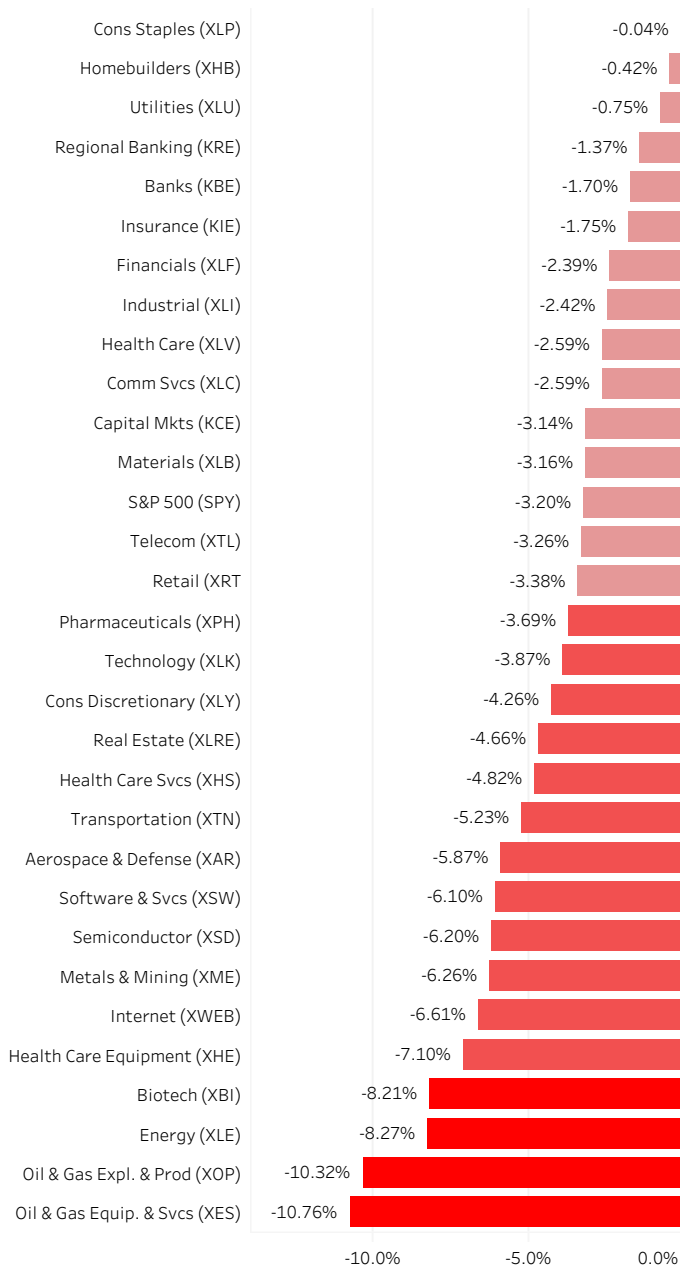
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
QQQ	Invesco QQQ Trust	\$1.62B	\$4.07B	\$6.76B	\$22.70B	\$179.83B
IWF	iShares Russell 1000 Growth ETF	\$0.41B	(\$0.36B)	(\$1.17B)	(\$0.69B)	\$65.10B
IWB	iShares Russell 1000 ETF	\$0.37B	\$0.24B	\$0.71B	\$0.38B	\$29.14B
VTI	Vanguard Total Stock Market ETF	\$0.34B	\$5.66B	\$19.19B	\$40.49B	\$267.12B
IVV	iShares Core S&P 500 ETF	\$0.34B	(\$8.48B)	\$8.04B	\$19.25B	\$304.61B
SPLV	Invesco S&P 500 Low Volatility ETF	\$0.24B	\$0.71B	\$1.79B	\$1.58B	\$10.16B
QQQM	Invesco NASDAQ 100 ETF	\$0.24B	\$1.01B	\$2.34B	\$3.99B	\$4.36B
VTV	Vanguard Value ETF	\$0.24B	\$2.67B	\$11.80B	\$18.32B	\$99.91B
COWZ	Pacer US Cash Cows 100 ETF	\$0.22B	\$2.72B	\$3.83B	\$4.29B	\$4.96B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.21B	\$0.78B	\$1.48B	(\$0.14B)	\$28.58B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	(\$0.84B)	(\$3.74B)	(\$5.96B)	\$15.28B	\$371.53B
IJJ	iShares S&P Mid-Cap 400 Value ETF	(\$0.32B)	(\$0.06B)	(\$1.23B)	(\$1.12B)	\$7.76B
MDY	SPDR S&P Midcap 400 ETF Trust	(\$0.29B)	(\$0.59B)	(\$0.88B)	(\$1.96B)	\$18.00B
IUS	Invesco RAFI Strategic US ETF	(\$0.23B)	(\$0.19B)	(\$0.17B)	(\$0.17B)	\$0.13B
LVHD	Legg Mason Low Volatility High Dividend ETF	(\$0.20B)	(\$0.03B)	(\$0.05B)	(\$0.08B)	\$0.72B
IWM	iShares Russell 2000 ETF	(\$0.19B)	(\$0.35B)	(\$4.90B)	(\$2.11B)	\$56.47B
IVE	iShares S&P 500 Value ETF	(\$0.19B)	\$0.94B	\$2.19B	\$2.29B	\$25.43B
VOO	Vanguard S&P 500 ETF	(\$0.19B)	(\$3.91B)	\$15.41B	\$40.79B	\$257.47B
IWS	iShares Russell Mid-Cap Value ETF	(\$0.19B)	(\$0.81B)	(\$0.43B)	(\$0.34B)	\$14.07B
DGRW	WisdomTree US Quality Dividend Growth Fund	(\$0.16B)	(\$0.11B)	\$0.10B	\$0.64B	\$6.89B

* 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	-4.82%	11.47%	0.44%	3.63%	45.46
XLU	Utilities Select Sector SPDR Fund	-6.87%	13.35%	-1.72%	3.80%	42.45
XLE	Energy Select Sector SPDR Fund	-8.27%	66.11%	-0.93%	22.99%	46.89
XLB	Materials Select Sector SPDR Fund	-9.66%	3.48%	-4.99%	-4.37%	36.74
XLV	Health Care Select Sector SPDR Fund	-11.49%	4.20%	-6.10%	-5.11%	33.96
XLI	Industrial Select Sector SPDR Fund	-12.99%	0.00%	-6.61%	-8.80%	34.24
SPY	SPDR S&P 500 ETF Trust	-16.65%	0.00%	-8.49%	-11.13%	33.52
XLRE	Real Estate Select Sector SPDR Fund	-17.51%	0.94%	-10.00%	-9.94%	27.85
XLF	Financial Select Sector SPDR Fund	-18.13%	0.00%	-8.84%	-12.09%	32.79
XLK	Technology Select Sector SPDR Fund	-23.50%	0.00%	-9.82%	-14.53%	36.45
XLY	Consumer Discretionary Select Sector SPDR Fund	-28.38%	0.00%	-13.74%	-19.09%	29.79
XLC	Communication Services Select Sector SPDR Fund	-32.79%	0.00%	-11.91%	-23.13%	35.01

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	
RHS	Invesco S&P 500 Equal Weight Consumer Staples ..	0.48%
XLP	Consumer Staples Select Sector SPDR Fund	-0.04%
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER ST..	-0.04%
VDC	Vanguard Consumer Staples ETF	-0.11%
QABA	First Trust NASDAQ ABA Community Bank Index F..	-0.15%
IYK	iShares U.S. Consumer Staples ETF	-0.24%
PBJ	Invesco Dynamic Food & Beverage ETF	-0.26%
XHB	SPDR S&P Homebuilders ETF	-0.42%
FXG	First Trust Consumer Staples AlphaDEX Fund	-0.43%
ITB	iShares U.S. Home Construction ETF	-0.46%

Sector & Industry Most Overbought

Ticker	Fund	
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	51.44
IYK	iShares U.S. Consumer Staples ETF	48.58
FXG	First Trust Consumer Staples AlphaDEX Fund	47.53
XLE	Energy Select Sector SPDR Fund	46.89
ITB	iShares U.S. Home Construction ETF	46.77
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	46.60
RYE	Invesco S&P 500 Equal Weight Energy ETF	46.39
IYE	iShares U.S. Energy ETF	45.84
FENY	Fidelity MSCI Energy Index ETF	45.64
VDE	Vanguard Energy ETF	45.57

Sector & Industry 1 Day Performance Laggards

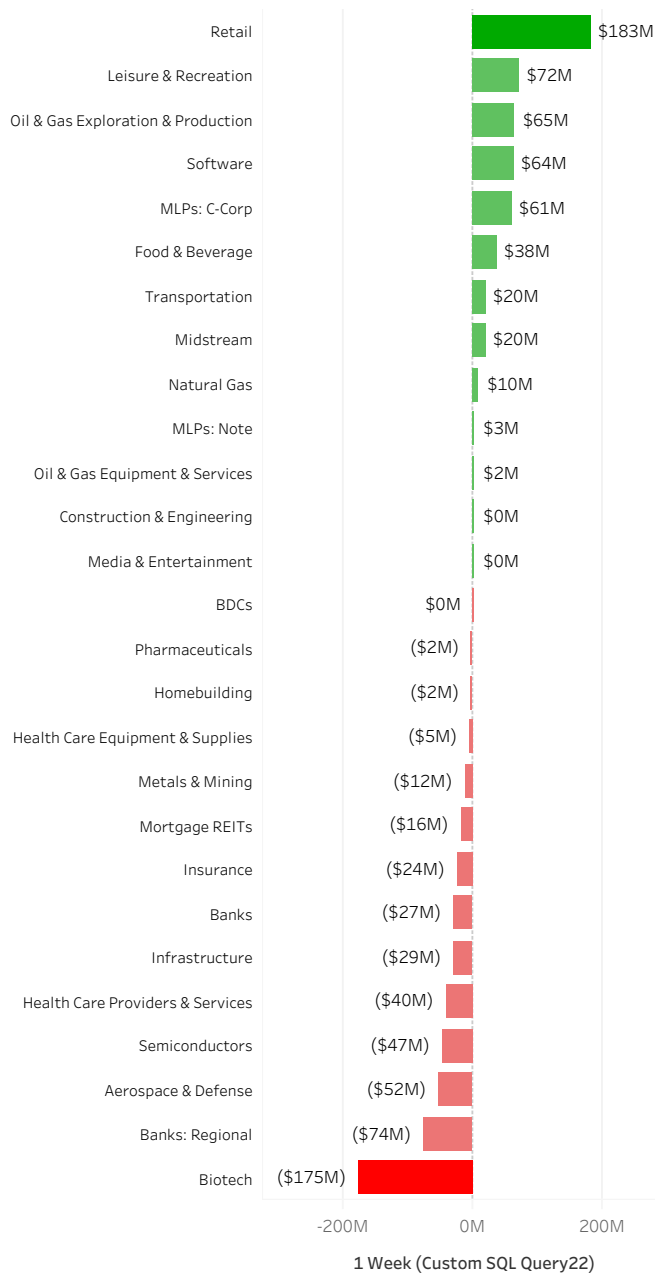
Ticker	Fund	
PXI	Invesco DWA Energy Momentum ETF	-11.01%
PXJ	Invesco Dynamic Oil & Gas Services ETF	-10.89%
IEZ	iShares U.S. Oil Equipment & Services ETF	-10.79%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-10.76%
FCG	First Trust Natural Gas ETF	-10.53%
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	-10.32%
PXE	Invesco Dynamic Energy Exploration & Production ETF	-10.15%
FTXN	First Trust Nasdaq Oil & Gas ETF	-9.89%
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	-9.78%
PSCE	Invesco S&P SmallCap Energy ETF	-9.73%

Sector & Industry Most Oversold

Ticker	Fund	
INDS	Pacer Benchmark Industrial Real Estate SCTR ETF	23.12
NURE	Nuveen Short-Term REIT ETF	23.31
REZ	iShares Residential and Multisector Real Estate ETF	23.42
XPH	SPDR S&P Pharmaceuticals ETF	23.73
PJP	Invesco Dynamic Pharmaceuticals ETF	23.82
PSCH	Invesco S&P SmallCap Health Care ETF	24.19
XHE	SPDR S&P Health Care Equipment ETF	24.67
PEJ	Invesco Dynamic Leisure & Entertainment ETF	25.02
PPTY	US Diversified Real Estate ETF	25.28
XBI	SPDR S&P BIOTECH ETF	25.40

* 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	(\$52M)	(\$384M)	(\$1,624M)	\$399M
Consumer Discretionary	13	\$26B	(\$58M)	(\$1,719M)	(\$3,945M)	(\$4,073M)
Consumer Staples	12	\$28B	(\$103M)	\$3,044M	\$6,671M	\$7,671M
Energy	34	\$81B	(\$85M)	(\$441M)	\$4,120M	\$4,170M
Financials	28	\$69B	(\$555M)	(\$11,783M)	(\$5,464M)	(\$4,094M)
Health Care	26	\$88B	(\$238M)	\$3,780M	\$7,302M	\$11,387M
Industrial	14	\$32B	(\$452M)	\$18M	(\$1,443M)	(\$5,036M)
Materials	10	\$19B	(\$59M)	\$2,272M	\$1,824M	\$1,482M
Multi-Sector	18	\$17B	(\$39M)	(\$3,373M)	(\$4,351M)	(\$3,495M)
Real Estate	23	\$74B	(\$839M)	(\$2,626M)	\$351M	\$8,188M
Technology	24	\$128B	(\$341M)	\$301M	\$134M	\$5,354M
Utilities	10	\$25B	\$147M	\$2,123M	\$3,362M	\$4,111M

U.S. Sector & Industry Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XRT	SPDR S&P Retail ETF	\$183M	\$266M	(\$217M)	(\$96M)	\$672M
XLU	Utilities Select Sector SPDR Fund	\$112M	\$1,357M	\$2,163M	\$2,567M	\$15,750M
RTM	Invesco S&P 500 Equal Weight Materials ETF	\$99M	\$160M	\$172M	(\$31M)	\$617M
PEJ	Invesco Dynamic Leisure & Entertainment ETF	\$72M	\$290M	\$226M	(\$261M)	\$1,432M
IGV	iShares Expanded Tech-Software Sector ETF	\$62M	(\$124M)	\$131M	\$328M	\$4,698M
AMLP	Alerian MLP ETF	\$61M	\$157M	\$525M	\$411M	\$6,750M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	\$52M	(\$98M)	\$12M	(\$792M)	\$5,463M
XLV	Health Care Select Sector SPDR Fund	\$47M	\$2,843M	\$5,098M	\$8,216M	\$36,792M
IYK	iShares U.S. Consumer Staples ETF	\$41M	\$253M	\$405M	\$397M	\$1,186M
PSI	Invesco Dynamic Semiconductors ETF	\$40M	(\$30M)	\$16M	\$89M	\$664M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IYR	iShares U.S. Real Estate ETF	(\$518M)	(\$1,639M)	(\$2,146M)	(\$673M)	\$4,907M
XLI	Industrial Select Sector SPDR Fund	(\$379M)	(\$1,742M)	(\$2,521M)	(\$4,981M)	\$14,312M
XLF	Financial Select Sector SPDR Fund	(\$327M)	(\$7,547M)	(\$3,010M)	(\$3,504M)	\$36,588M
XLE	Energy Select Sector SPDR Fund	(\$300M)	(\$2,444M)	(\$374M)	(\$12M)	\$38,510M
XLP	Consumer Staples Select Sector SPDR Fund	(\$283M)	\$1,049M	\$3,960M	\$4,764M	\$16,347M
XLV	Consumer Discretionary Select Sector SPDR Fu..	(\$198M)	(\$382M)	(\$1,364M)	(\$1,423M)	\$17,037M
XLB	Materials Select Sector SPDR Fund	(\$180M)	\$0M	(\$693M)	(\$974M)	\$7,508M
XLK	Technology Select Sector SPDR Fund	(\$176M)	\$940M	\$1,664M	\$2,170M	\$42,651M
VNQ	Vanguard Real Estate ETF	(\$164M)	(\$590M)	\$1,165M	\$4,169M	\$43,877M
XLRE	Real Estate Select Sector SPDR Fund	(\$135M)	\$207M	\$1,200M	\$2,638M	\$5,544M

* 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



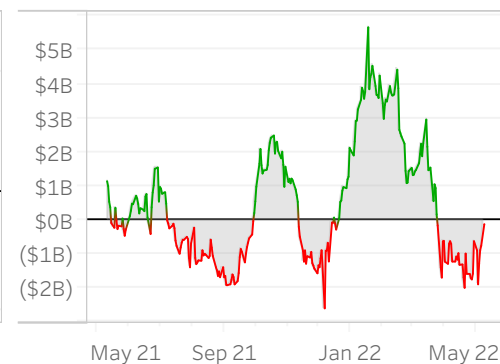
Consumer Discretionary



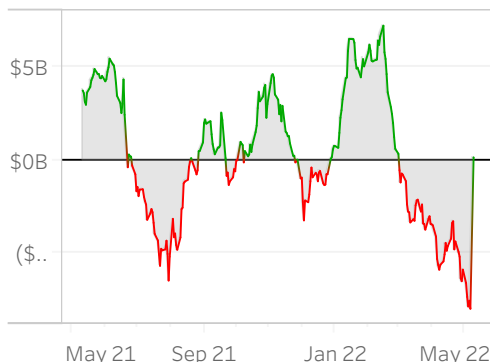
Consumer Staples



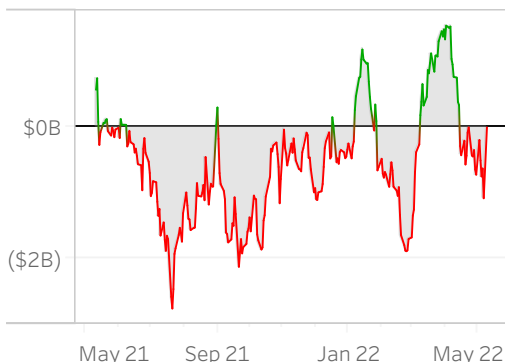
Energy



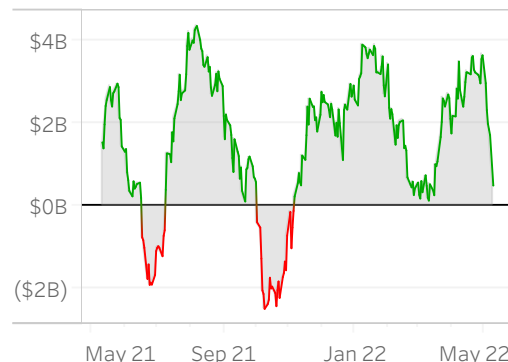
Financials



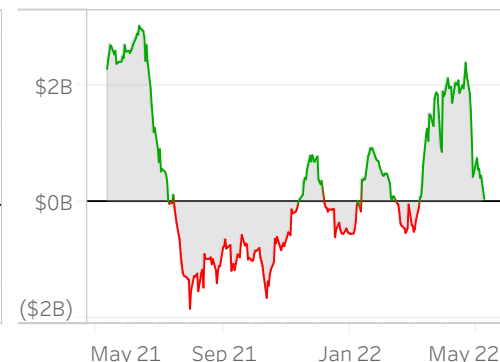
Industrial



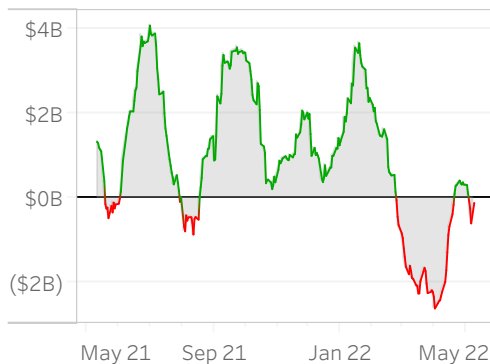
Health Care



Materials



Real Estate



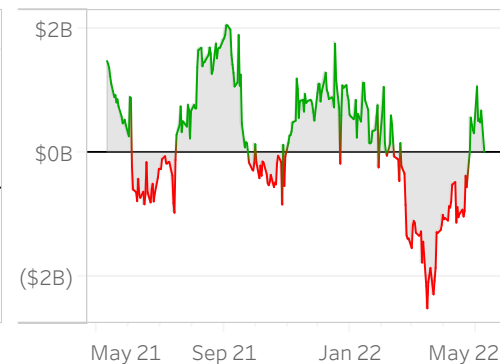
Technology



Utilities

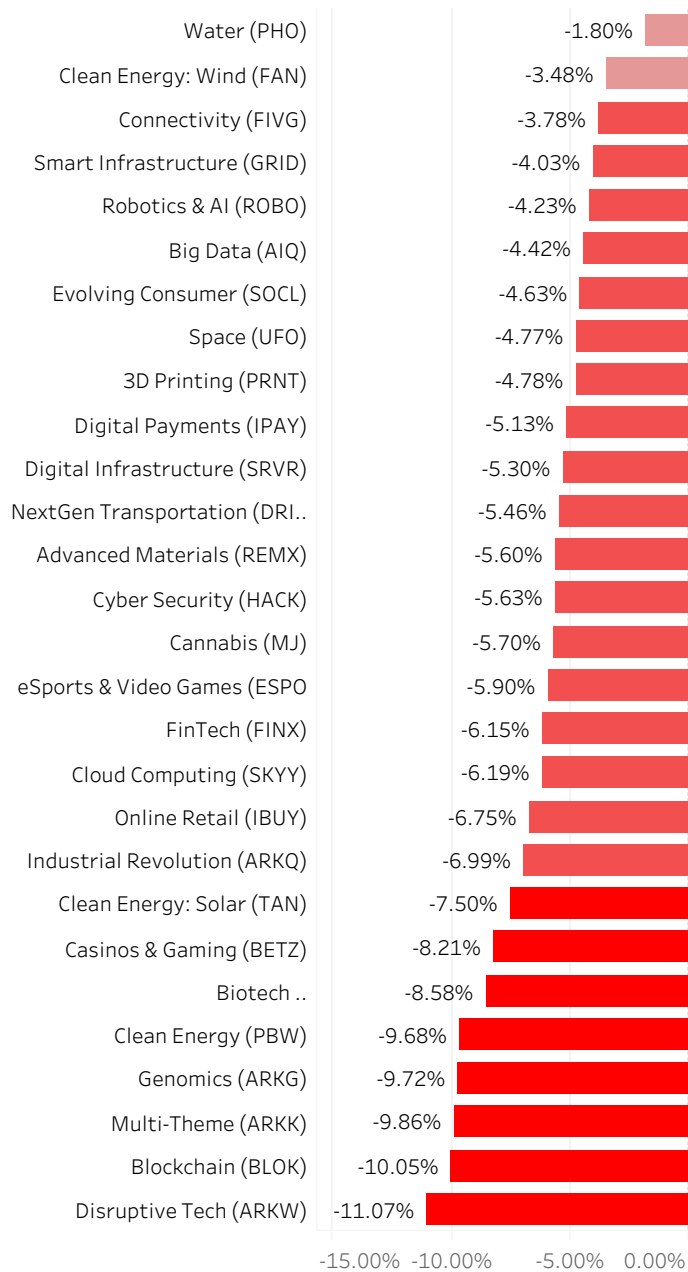


Multi-Sector

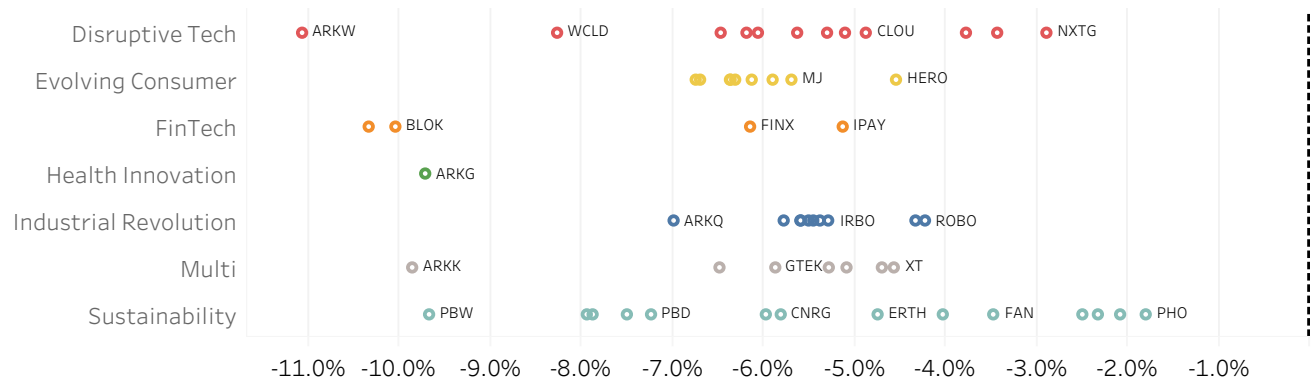


*ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Global Thematic Segment 1-Day Performance



Global Thematic 1-Day Performance Landscape



Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
KSTR	KraneShares SSE STAR Market 50 Index ETF	-0.77%
PHO	Invesco Water Resources ETF	-1.80%
PIO	Invesco Global Water ETF	-2.09%
EBLU	Ecofin Global Water ESG Fund	-2.14%
CGW	Invesco S&P Global Water Index ETF	-2.33%
FIW	First Trust Water ETF	-2.50%
KLDW	Knowledge Leaders Developed World ETF	-2.89%
NXTG	First Trust Indxx NextG ETF	-2.90%
LEGR	First Trust Indxx Innovative Transaction & Process ETF	-2.98%
ROBT	First Trust Nasdaq Artificial Intelligence & Robotics ETF	-2.98%

Thematic Most Overbought

Ticker	Fund	Value
KWEB	KraneShares CSI China Internet ETF	36.87
KSTR	KraneShares SSE STAR Market 50 Index ETF	35.46
LIT	Global X Lithium & Battery Tech ETF	35.22
IDRV	iShares Self-driving EV & Tech ETF	35.17
QTUM	Defiance Quantum ETF	34.87
PHO	Invesco Water Resources ETF	34.74
DRIV	Global X Autonomous & Electric Vehicles ETF	34.29
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	34.18
KGRN	KraneShares MSCI China Clean Technology Index ETF	34.17
TAN	Invesco Solar ETF	34.00

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
BITQ	Bitwise Crypto Industry Innovators ETF	-16.94%
DAPP	VanEck Digital Transformation ETF	-16.51%
BKCH	Global X Blockchain ETF	-16.20%
ARKW	ARK Next Generation Internet ETF	-11.07%
ARKF	ARK Fintech Innovation ETF	-10.34%
BLOK	Amplify Transformational Data Sharing ETF	-10.05%
ARKK	ARK Innovation ETF	-9.86%
ARKG	ARK Genomic Revolution ETF	-9.72%
PBW	Invesco WilderHill Clean Energy ETF	-9.68%
BTEC	Principal Healthcare Innovators ETF	-8.92%

Thematic Most Oversold

Ticker	Fund	Value
GDOC	Goldman Sachs Future Health Care Equity ETF	17.20
YOLO	AdvisorShares Pure Cannabis ETF	18.75
GBUY	Goldman Sachs Future Consumer Equity ETF	19.63
CNBS	Amplify Seymour Cannabis ETF	20.05
PAWZ	ProShares Pet Care ETF	20.36
EDOC	Global X Telemedicine & Digital Health ETF Registered	22.33
HACK	ETFMG Prime Cyber Security ETF	22.44
AGNG	Global X Aging Population ETF	22.68
BTEC	Principal Healthcare Innovators ETF	23.28
HTEC	ROBO Global Healthcare Technology and Innovation ETF	23.61

* 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	\$275M
KWEB	KraneShares CSI China Internet ETF	\$51M
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	\$20M
KOMP	SPDR S&P Kensho New Economies Composite ETF	\$11M
TARK	AXS 2X Innovation ETF	\$6M
WCLD	WisdomTree Cloud Computing Fund	\$5M
AWAY	ETFMG Travel Tech ETF	\$3M
IVEG	iShares Emergent Food and AgTech Multisector ETF	\$2M
BKCH	Global X Blockchain ETF	\$2M
POTX	Global X Cannabis ETF	\$2M

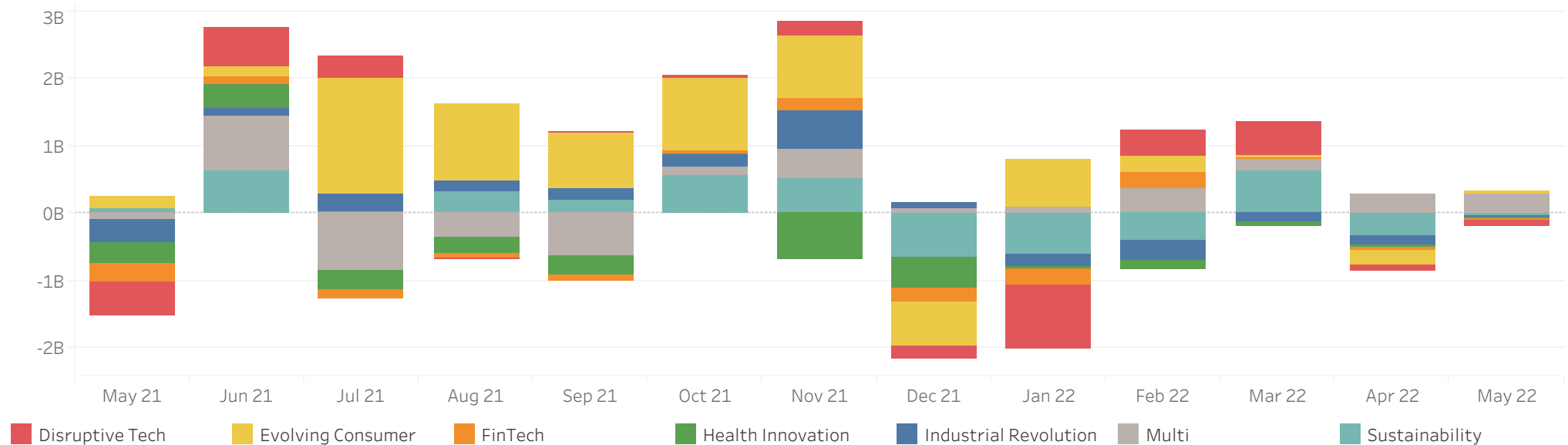
Thematic 1 Week Flow Laggards

Ticker	Fund	
ICLN	iShares Global Clean Energy ETF	(\$31M)
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	(\$18M)
ARKW	ARK Next Generation Internet ETF	(\$18M)
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR ETF	(\$15M)
SNSR	Global X Internet of Things ETF	(\$13M)
HACK	ETFMG Prime Cyber Security ETF	(\$13M)
ARKQ	ARK Autonomous Technology & Robotics ETF	(\$9M)
FIVG	Defiance Next Gen Connectivity ETF	(\$9M)
FIW	First Trust Water ETF	(\$8M)
SKYY	First Trust Cloud Computing ETF	(\$8M)

Thematic Landscape Assets & Flows

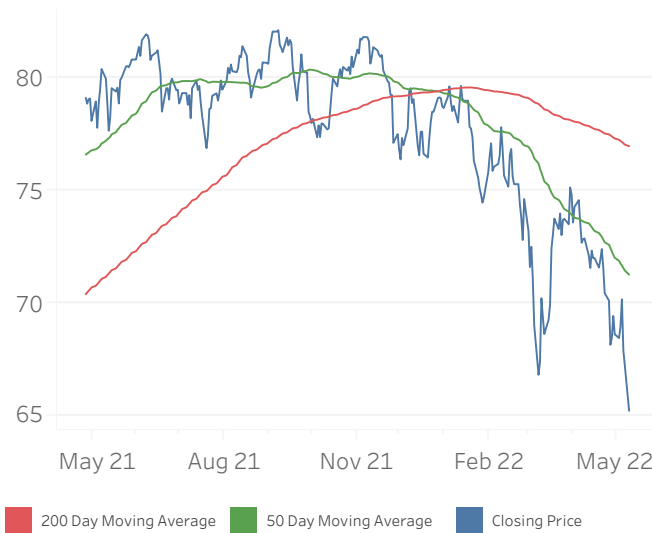
Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$22B	(\$69M)	\$490M	(\$485M)	\$242M
Evolving Consumer	47	\$11B	\$51M	(\$25M)	\$835M	\$6,191M
FinTech	24	\$4B	(\$8M)	\$106M	(\$174M)	(\$451M)
Health Innovation	19	\$4B	(\$15M)	(\$193M)	(\$1,374M)	(\$2,152M)
Industrial Revolution	31	\$13B	(\$9M)	(\$328M)	(\$249M)	\$389M
Multi	41	\$16B	\$363M	\$1,131M	\$1,957M	\$703M
Sustainability	40	\$19B	(\$25M)	\$25M	(\$1,320M)	\$925M
Grand Total	237	\$88B	\$289M	\$1,207M	(\$810M)	\$5,847M

Thematic Monthly Flows

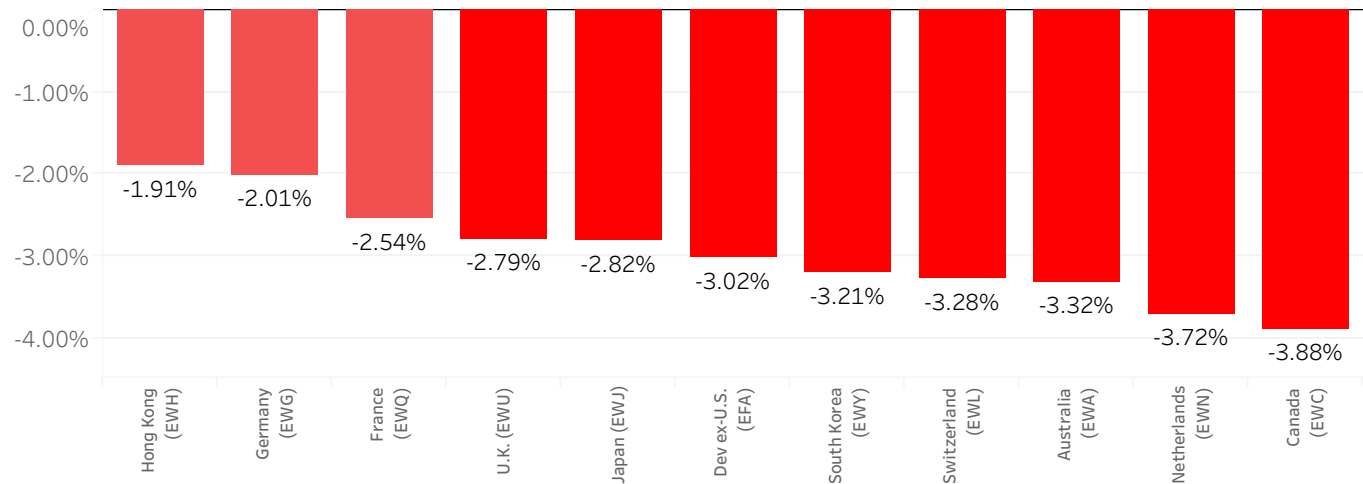


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

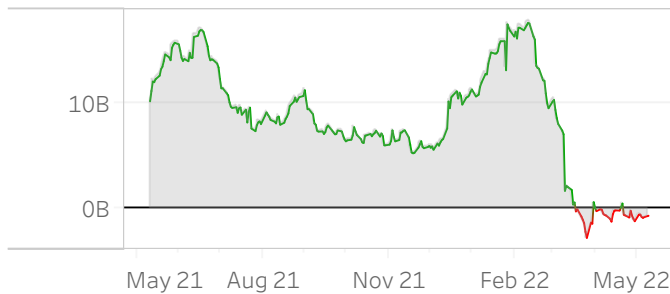
Developed ex-U.S. (EFA)



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



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



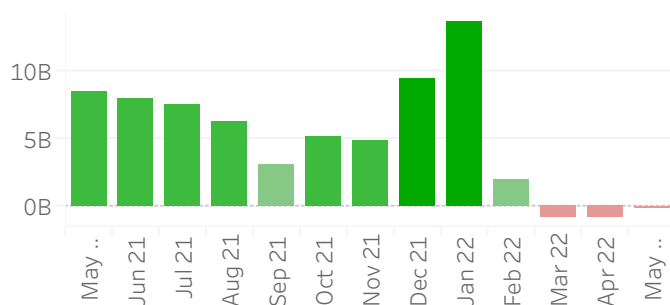
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	Performance
PTIN	Pacer Trendpilot International ETF	-0.10%
LVHI	Legg Mason International Low Volatility High Dividend ETF	-1.07%
DFJ	WisdomTree Japan SmallCap Dividend Fund	-1.53%
IDLV	Invesco S&P International Developed Low Volatility ETF	-1.56%
QLVD	FlexShares Developed Markets ex-US Quality Low Volatility I..	-1.77%
SCJ	iShares MSCI Japan Small-Cap ETF	-1.83%
EWJV	iShares MSCI Japan Value ETF	-1.85%
FDD	First Trust Stoxx European Select Dividend Index Fund	-1.88%
EWJ	iShares MSCI Hong Kong ETF	-1.91%
HDEF	Xtrackers MSCI EAFE High Dividend Yield Equity ETF	-1.92%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
DXJ	WisdomTree Japan Hedged Equity Fund	46.73
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	42.70
HEWJ	iShares Currency Hedged MSCI Japan ETF	42.63
LVHI	Legg Mason International Low Volatility High Dividend ETF	41.77
EWJV	iShares MSCI Japan Value ETF	41.03
DFJ	WisdomTree Japan SmallCap Dividend Fund	37.67
GREK	Global X MSCI Greece ETF	36.16
SCJ	iShares MSCI Japan Small-Cap ETF	35.35
FLJP	Franklin FTSE Japan ETF	35.10
BBJP	JPMorgan BetaBuilders Japan ETF	34.97

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	Performance
FSZ	First Trust Switzerland AlphaDEX Fund	-6.95%
NORW	Global X MSCI Norway ETF	-6.04%
ISRA	VanEck Israel ETF	-5.32%
EDEN	iShares MSCI Denmark ETF	-5.31%
EIS	iShares MSCI Israel ETF	-5.19%
FKU	First Trust United Kingdom AlphaDEX Fund	-4.47%
PIZ	Invesco DWA Developed Markets Momentum ETF	-4.09%
CIL	VictoryShares International Volatility Wtd ETF	-4.04%
BBCA	JPMorgan BetaBuilders Canada ETF	-4.03%
IVAL	Alpha Architect International Quantitative Value ETF	-3.92%

Developed ex-U.S. Most Oversold

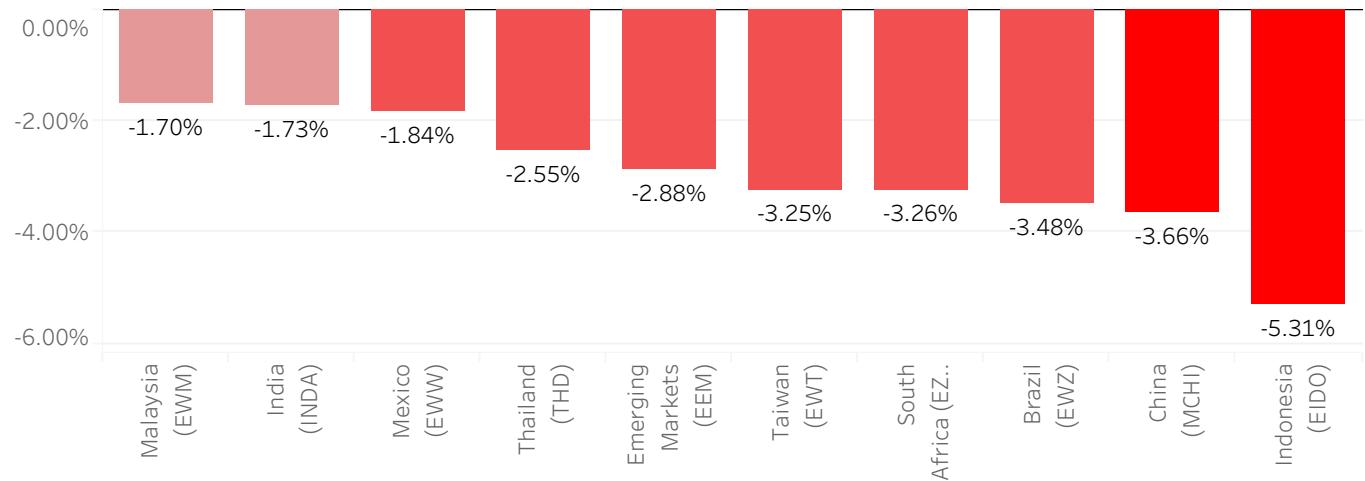
Ticker	Fund	Value
WPS	iShares International Developed Property ETF	17.71
EWUS	iShares MSCI United Kingdom Small Cap ETF	19.44
EIS	iShares MSCI Israel ETF	21.74
IEUS	iShares MSCI Europe Small-Cap ETF	22.72
EWL	iShares MSCI Switzerland ETF	22.88
ISRA	VanEck Israel ETF	23.32
ENZL	iShares MSCI New Zealand ETF	23.48
EFAD	ProShares MSCI EAFE Dividend Growers ETF	24.78
NORW	Global X MSCI Norway ETF	24.79
IDHQ	Invesco S&P International Developed High Quality E..	24.89

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

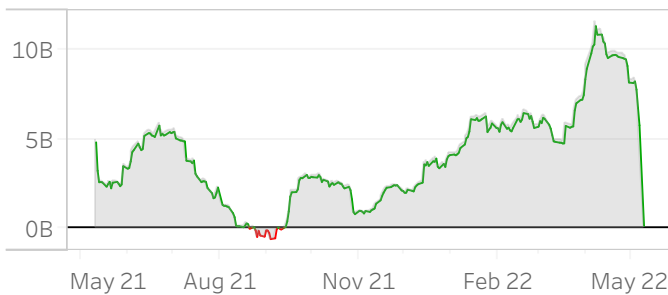
Emerging (EEM)



Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



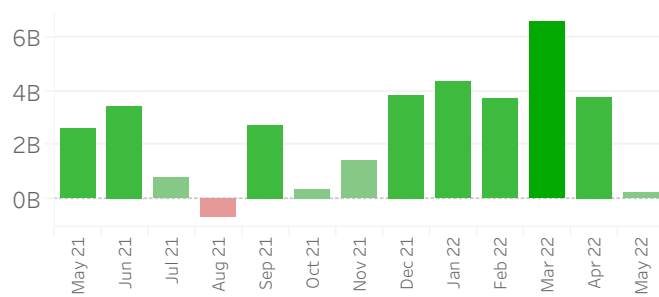
Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
QAT	iShares MSCI Qatar ETF	0.25%
KSA	iShares MSCI Saudi Arabia ETF	0.24%
TUR	iShares MSCI Turkey ETF	-0.85%
EPOL	iShares MSCI Poland ETF	-1.19%
PIN	Invesco India ETF	-1.38%
INDY	iShares India 50 ETF	-1.48%
EEMV	iShares MSCI Emerging Markets Min Vol Factor ETF	-1.62%
EPHE	iShares MSCI Philippines ETF	-1.69%
EWM	iShares MSCI Malaysia ETF	-1.70%
FLIN	Franklin FTSE India ETF	-1.72%

Emerging Most Overbought

Ticker	Fund	Price
KSA	iShares MSCI Saudi Arabia ETF	56.00
TUR	iShares MSCI Turkey ETF	49.01
QAT	iShares MSCI Qatar ETF	42.75
ECH	iShares MSCI Chile ETF	36.08
IDX	VanEck Indonesia Index ETF	35.51
FXI	iShares China Large-Cap ETF	34.81
EIDO	iShares MSCI Indonesia ETF	34.80
PGJ	Invesco Golden Dragon China ETF	34.15
FLCH	Franklin FTSE China ETF	33.92
MCHI	iShares MSCI China ETF	33.88

Emerging Monthly Flows



Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
PGJ	Invesco Golden Dragon China ETF	-7.85%
FNI	First Trust Chindia ETF	-5.45%
EIDO	iShares MSCI Indonesia ETF	-5.31%
IDX	VanEck Indonesia Index ETF	-4.86%
ADRE	Invesco BLDERS Emerging Markets 50 ADR Index Fund	-4.77%
EPU	iShares MSCI Peru ETF	-4.09%
EWZS	iShares MSCI Brazil Small-Cap ETF	-4.02%
ECH	iShares MSCI Chile ETF	-3.94%
PIE	Invesco DWA Emerging Markets Momentum ETF	-3.83%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-3.67%

Emerging Most Oversold

Ticker	Fund	Price
EPU	iShares MSCI Peru ETF	19.19
VNM	VanEck Vietnam ETF	20.80
FM	iShares MSCI Frontier and Select EM ETF	22.65
AFK	VanEck Africa Index ETF	23.94
EZA	iShares MSCI South Africa ETF	24.58
SMIN	iShares MSCI India Small Cap ETF	25.41
LDEM	iShares ESG MSCI EM Leaders ETF	25.73
XCEM	Columbia EM Core ex-China ETF	25.87
EEMS	iShares MSCI Emerging Markets Small Cap ETF	25.88
EPOL	iShares MSCI Poland ETF	26.13

*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	0.49%	-2.37%	-9.97%
SHY	1-3 Year Treasury Bonds	0.25%	0.09%	-2.71%
IEF	7-10 Year Treasury Bonds	0.74%	-2.10%	-11.07%
TLT	20+ Year Treasury Bonds	0.88%	-8.19%	-22.16%
TIP	TIPS Bonds	-0.39%	-2.45%	-7.08%
FLOT	Floating Rate Bonds	-0.12%	-0.01%	-0.29%
LQD	Investment Grade Corporate	0.35%	-4.90%	-15.39%
HYG	High Yield Corporate	-1.06%	-3.95%	-10.41%
BKLN	Senior Loan	-0.89%	-2.94%	-3.23%
PFF	Preferred & Income Securities	-1.39%	-7.34%	-15.97%
MUB	Municipal Bonds	-0.08%	-2.49%	-8.53%
MBB	MBS	0.53%	-1.79%	-8.68%
EMB	Dollar Denominated EM Bonds	-0.88%	-6.53%	-17.56%
LEMB	Local Currency EM Bond	-0.69%	-5.78%	-12.37%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-5.37%	-1.96%	28.99%
DBE	Energy	-5.57%	7.44%	48.77%
USO	WTI Crude Oil	-6.77%	3.32%	40.86%
BNO	Brent Crude Oil	-7.00%	3.18%	44.14%
UNG	Natural Gas	-12.17%	10.05%	94.64%
UGA	Gasoline	-4.59%	16.95%	57.81%
DBP	Precious Metals	-1.78%	-6.48%	-1.08%
GLD	Gold	-1.45%	-4.73%	1.12%
SLV	Silver	-3.05%	-12.23%	-6.88%
PPLT	abrdn Physical Platin..	-1.05%	-2.81%	-1.65%
PALL	abrdn Physical Palla..	3.82%	-12.88%	11.27%
DBB	Base Metals	-2.96%	-15.02%	-1.39%
CPER	Copper	-1.13%	-11.20%	-6.43%
LD	Lead	-6.59%	-11.64%	-8.01%
JJN	Nickel	-6.35%	-17.57%	35.73%
JJU	Aluminum	-1.77%	-17.62%	-1.05%
JJT	Tin	-8.21%	-15.40%	-4.71%
DBA	Agriculture	-2.34%	-4.56%	8.00%
CORN	Corn	-2.52%	-0.49%	30.92%
SOYB	Soybeans	-2.41%	-3.73%	19.16%
WEAT	Wheat	-2.91%	1.42%	44.52%
CANE	Sugar	-1.99%	-7.23%	1.85%
BAL	Cotton	-0.90%	10.79%	33.05%
NIB	Cocoa	-1.09%	-9.68%	-7.45%
JO	Coffee	-2.36%	-11.85%	-8.90%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.04%	3.94%	8.15%
UDN	Short Dollar	0.00%	-3.98%	-8.10%
FXE	Euro	0.12%	-3.00%	-7.52%
FXB	British Pound Sterling	-0.09%	-5.41%	-8.89%
FXF	Swiss Franc	-0.51%	-6.08%	-8.59%
FXJ	Japanese Yen	0.24%	-4.53%	-11.74%
FXC	Canadian Dollar	-0.93%	-3.34%	-2.93%
FXA	Australian Dollar	-1.84%	-6.82%	-4.41%

*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