

Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

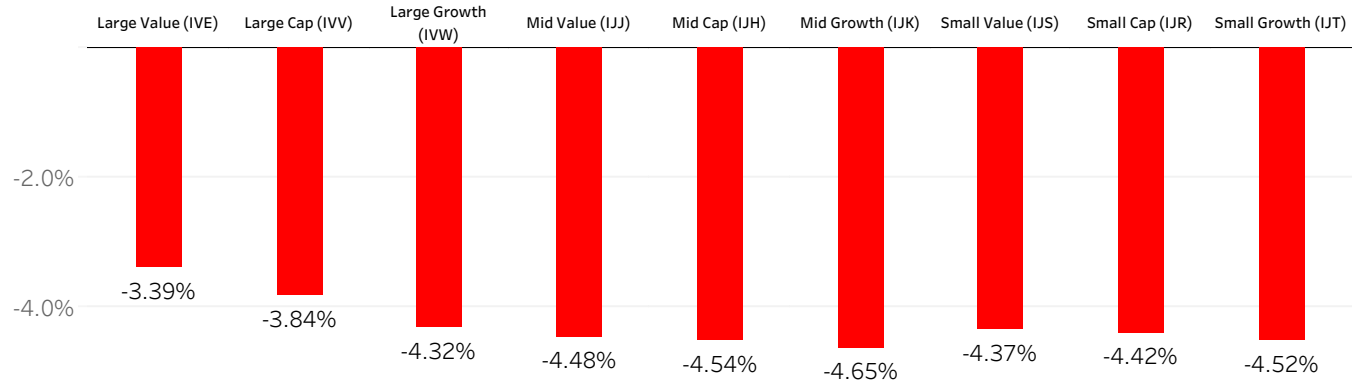


Small Cap Blend (S&P 600) IJR



■ 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
PTMC	Pacer Trendpilot US Mid Cap ETF	0.06%
PTLC	Pacer Trendpilot US Large Cap ETF	0.05%
SPC	CrossingBridge Pre-Merger SPAC ETF	0.00%
CSF	VictoryShares US Discovery Enhanced Volatility Wtd ETF	-0.93%
TPLE	Timothy Plan US Large/Mid Cap Core Enhanced ETF	-1.15%
QQH	HCM Defender 100 Index ETF	-1.99%
PTNQ	Pacer Trendpilot 100 ETF	-2.29%
DJD	Invesco Dow Jones Industrial Average Dividend ETF	-2.30%
LGH	HCM Defender 500 Index ETF	-2.33%
RPHS	Regents Park Hedged Market Strategy ETF	-2.44%

Size & Style Most Overbought

Ticker	Fund	Value
PTMC	Pacer Trendpilot US Mid Cap ETF	54.04
SPC	CrossingBridge Pre-Merger SPAC ETF	51.33
PTLC	Pacer Trendpilot US Large Cap ETF	47.44
QMOM	Alpha Architect U.S. Quantitative Momentum ETF	37.25
PDP	Invesco DWA Momentum ETF	36.96
AVUV	Avantis U.S. Small Cap Value ETF	36.96
CSF	VictoryShares US Discovery Enhanced Volatility Wtd ETF	36.76
XSMO	Invesco S&P SmallCap Momentum ETF	36.47
IPO	Renaissance IPO ETF	36.46
DWAS	Invesco DWA SmallCap Momentum ETF	36.22

Size & Style 1-Day Performance Laggards

Ticker	Fund	Performance
IPO	Renaissance IPO ETF	-7.29%
BUZZ	VanEck Social Sentiment ETF	-6.94%
SPHB	Invesco S&P 500 High Beta ETF	-6.55%
DWAS	Invesco DWA SmallCap Momentum ETF	-6.33%
FFTY	Innovator IBD 50 ETF	-5.88%
MMLG	First Trust Multi-Manager Large Growth ETF	-5.77%
GVIP	Goldman Sachs Hedge Industry VIP ETF	-5.66%
FYC	First Trust Small Cap Growth AlphaDEX Fund	-5.63%
LCG	Sterling Capital Focus Equity ETF	-5.62%
QQQJ	Invesco NASDAQ Next Gen 100 ETF	-5.60%

Size & Style Most Oversold

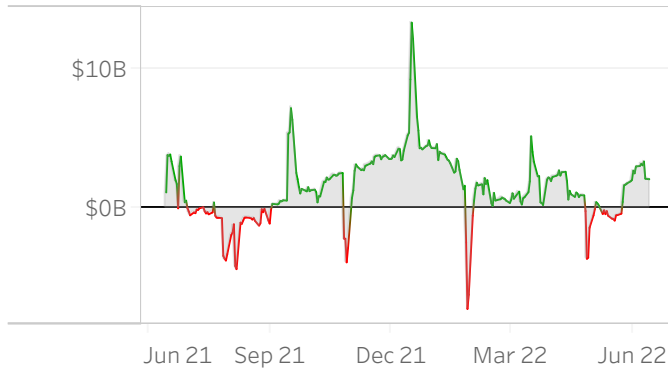
Ticker	Fund	Value
NZUS	SPDR MSCI USA Climate Paris Aligned ETF	20.97
DEIF	Sterling Capital Diverse Multi-Manager Active ETF	21.14
ONOF	Global X Adaptive U.S. Risk Management ETF	23.29
CFO	VictoryShares US 500 Enhanced Volatility Wtd ETF	23.30
SPHD	Invesco S&P 500 High Dividend Low Volatility ETF	26.45
QVML	Invesco S&P 500 QVM Multi-factor ETF	26.65
RDIV	Invesco S&P Ultra Dividend Revenue ETF	27.24
SPLV	Invesco S&P 500 Low Volatility ETF	27.36
RFDA	RiverFront Dynamic US Dividend Advantage ETF	27.53
ALTL	Pacer Lunt Large Cap Alternator ETF	27.59

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

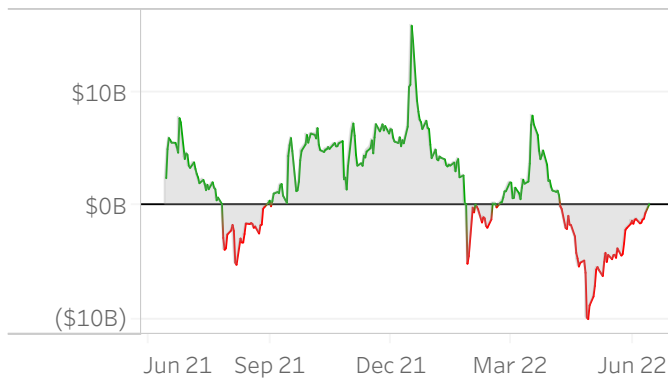
Large-Cap 30-Day Rolling Flows



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	\$1,163B	(\$2.53B)	\$5.86B	\$30.96B	\$135.14B
Large Cap, Beta Growth, Beta: Growth	10	\$209B	\$0.01B	\$6.62B	\$6.52B	\$18.16B
Large Cap, Beta Growth, Beta: Value	11	\$214B	\$0.03B	\$3.09B	\$16.77B	\$25.35B
Mid Cap, Beta, Beta	10	\$170B	(\$0.41B)	\$3.26B	\$5.40B	\$12.11B
Mid Cap, Beta, Beta: Growth	6	\$30B	(\$0.03B)	\$0.29B	(\$0.37B)	\$0.54B
Mid Cap, Beta, Beta: Value	6	\$39B	\$0.00B	(\$0.58B)	(\$0.10B)	(\$0.16B)
Small Cap, Beta, Beta	13	\$185B	\$0.83B	(\$6.21B)	(\$5.53B)	\$7.73B
Small Cap, Beta, Beta: Growth	7	\$30B	(\$0.05B)	\$0.42B	(\$0.15B)	\$1.61B
Small Cap, Beta, Beta: Value	7	\$51B	\$0.09B	(\$2.63B)	(\$2.72B)	(\$2.26B)

U.S. Size & Style Flow Leaders

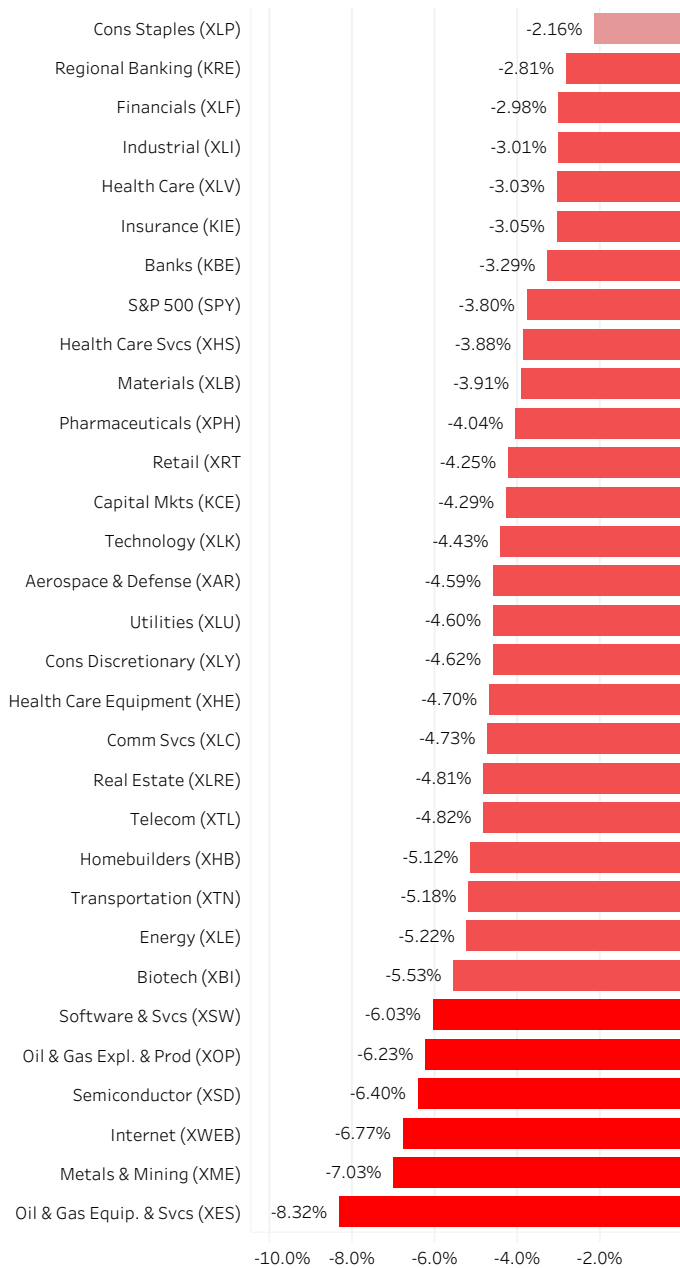
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
VOO	Vanguard S&P 500 ETF	\$4.66B	\$2.04B	\$29.02B	\$45.21B	\$251.51B
QQQ	Invesco QQQ Trust	\$1.31B	\$4.87B	\$7.27B	\$24.42B	\$157.87B
IWM	iShares Russell 2000 ETF	\$0.76B	(\$2.57B)	(\$4.06B)	(\$1.00B)	\$52.65B
HDV	iShares Core High Dividend ETF	\$0.28B	\$4.55B	\$5.12B	\$5.54B	\$13.04B
IWB	iShares Russell 1000 ETF	\$0.25B	\$0.89B	\$1.04B	\$0.58B	\$26.80B
SDY	SPDR S&P Dividend ETF	\$0.23B	\$1.20B	\$1.50B	\$1.66B	\$21.04B
SCHD	Schwab US Dividend Equity ETF	\$0.21B	\$3.49B	\$7.42B	\$10.64B	\$35.38B
VB	Vanguard Small-Cap ETF	\$0.20B	(\$0.70B)	(\$2.33B)	\$3.03B	\$41.23B
VUG	Vanguard Growth ETF	\$0.18B	\$3.46B	\$4.84B	\$6.97B	\$68.56B
VTV	Vanguard Value ETF	\$0.17B	\$3.13B	\$12.77B	\$17.69B	\$97.82B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	(\$8.56B)	(\$7.81B)	(\$25.22B)	\$14.17B	\$344.86B
VO	Vanguard Mid-Cap ETF	(\$0.48B)	\$1.35B	\$1.82B	\$6.39B	\$48.72B
VXF	Vanguard Extended Market ETF	(\$0.32B)	(\$0.13B)	(\$0.10B)	\$0.61B	\$13.14B
DIA	SPDR Dow Jones Industrial Average ETF Trust	(\$0.31B)	\$0.10B	\$1.64B	(\$0.99B)	\$27.19B
IVV	iShares Core S&P 500 ETF	(\$0.24B)	\$4.50B	\$13.90B	\$36.52B	\$290.18B
VIOO	Vanguard S&P Small-Cap 600 ETF	(\$0.19B)	(\$0.17B)	\$0.11B	\$0.25B	\$1.68B
IWV	iShares Russell 3000 ETF	(\$0.14B)	(\$0.15B)	(\$0.22B)	(\$0.35B)	\$10.16B
USMV	iShares MSCI USA Min Vol Factor ETF	(\$0.13B)	\$0.28B	(\$0.65B)	(\$1.01B)	\$25.61B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.11B)	\$0.32B	(\$0.20B)	\$1.45B	\$19.92B
IWD	iShares Russell 1000 Value ETF	(\$0.10B)	(\$0.48B)	(\$1.14B)	\$1.27B	\$52.63B

* 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	-8.89%	83.62%	2.91%	26.54%	46.25
XLU	Utilities Select Sector SPDR Fund	-11.56%	7.64%	-7.51%	-2.19%	28.46
XLP	Consumer Staples Select Sector SPDR Fund	-12.66%	2.28%	-7.52%	-5.20%	32.35
XLB	Materials Select Sector SPDR Fund	-13.39%	0.00%	-8.36%	-8.21%	33.16
XLV	Health Care Select Sector SPDR Fund	-14.80%	0.00%	-8.16%	-8.22%	30.00
XLI	Industrial Select Sector SPDR Fund	-17.75%	0.00%	-8.02%	-12.62%	33.04
SPY	SPDR S&P 500 ETF Trust	-21.50%	0.00%	-9.91%	-15.26%	31.65
XLF	Financial Select Sector SPDR Fund	-23.80%	0.00%	-10.38%	-17.10%	29.84
XLRE	Real Estate Select Sector SPDR Fund	-24.36%	0.00%	-13.93%	-16.53%	27.11
XLK	Technology Select Sector SPDR Fund	-29.08%	0.00%	-11.38%	-19.49%	32.88
XLV	Consumer Discretionary Select Sector SPDR Fund	-34.82%	0.00%	-14.38%	-24.73%	33.50
XLC	Communication Services Select Sector SPDR Fund	-37.21%	0.00%	-11.80%	-25.08%	31.73

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
KBWP	Invesco KBW Property & Casualty Insurance ETF	-1.67%
QABA	First Trust NASDAQ ABA Community Bank Index F..	-1.77%
KBWR	Invesco KBW Regional Banking ETF	-2.07%
XLP	Consumer Staples Select Sector SPDR Fund	-2.16%
IYK	iShares U.S. Consumer Staples ETF	-2.24%
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER ST..	-2.32%
RHS	Invesco S&P 500 Equal Weight Consumer Staples ..	-2.32%
VDC	Vanguard Consumer Staples ETF	-2.32%
IAK	iShares U.S. Insurance ETF	-2.51%
FXG	First Trust Consumer Staples AlphaDEX Fund	-2.56%

Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
PXE	Invesco Dynamic Energy Exploration & Production ETF	51.31
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	51.07
FCG	First Trust Natural Gas ETF	49.47
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	48.83
PSCE	Invesco S&P SmallCap Energy ETF	48.26
PXI	Invesco DWA Energy Momentum ETF	47.98
FENY	Fidelity MSCI Energy Index ETF	46.68
VDE	Vanguard Energy ETF	46.43
XLE	Energy Select Sector SPDR Fund	46.25
FTXN	First Trust Nasdaq Oil & Gas ETF	46.23

Sector & Industry 1 Day Performance Laggards

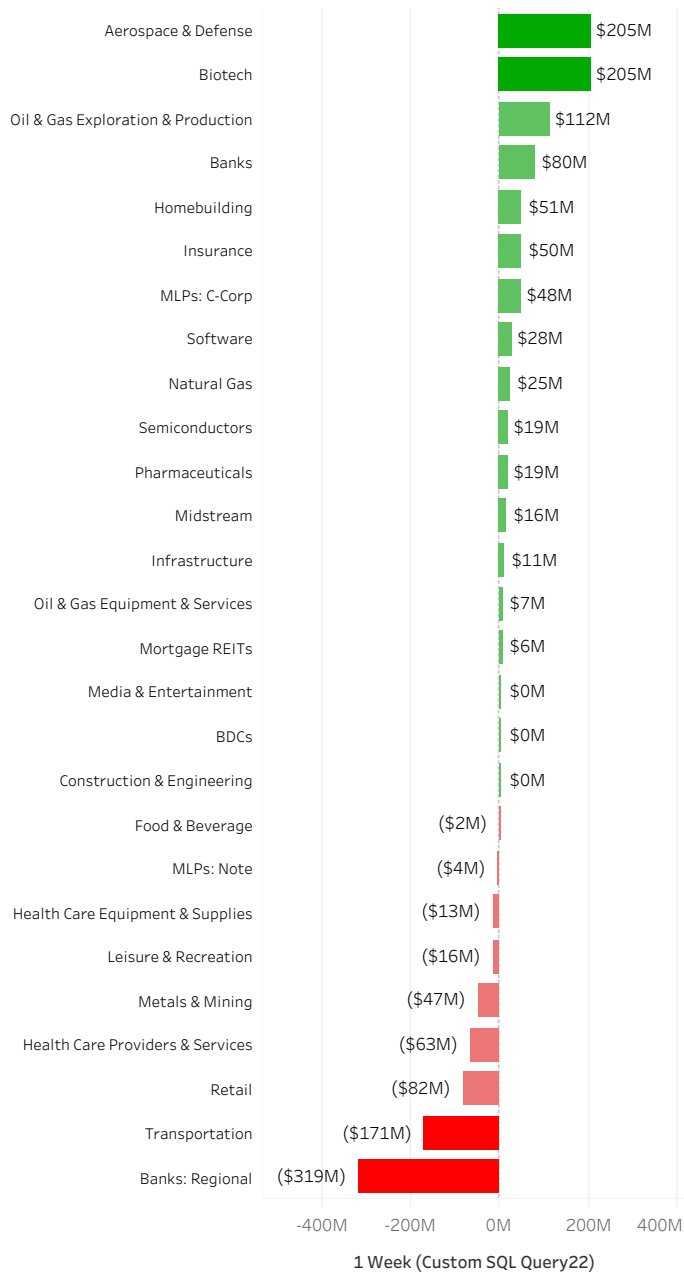
Ticker	Fund	1 Day Performance
MORT	VanEck Mortgage REIT Income ETF	-9.33%
REM	iShares Mortgage Real Estate ETF	-9.32%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-8.32%
PXJ	Invesco Dynamic Oil & Gas Services ETF	-7.26%
IEZ	iShares U.S. Oil Equipment & Services ETF	-7.09%
XME	SPDR S&P Metals & Mining ETF	-7.03%
AMZA	InfraCap MLP ETF	-6.95%
KBWD	Invesco KBW High Dividend Yield Financial ETF	-6.83%
XSD	SPDR S&P Semiconductor ETF	-6.40%
PXI	Invesco DWA Energy Momentum ETF	-6.38%

Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
REM	iShares Mortgage Real Estate ETF	22.25
MORT	VanEck Mortgage REIT Income ETF	23.44
EWRE	Invesco S&P 500 Equal Weight Real Estate ETF	25.70
REZ	iShares Residential and Multisector Real Estate ETF	25.73
KBWD	Invesco KBW High Dividend Yield Financial ETF	25.74
RWR	SPDR Dow Jones REIT ETF	26.01
PPTY	US Diversified Real Estate ETF	26.03
USRT	iShares Core U.S. REIT ETF	26.09
FRI	First Trust S&P REIT Index Fund	26.11
BBRE	JPMorgan BetaBuilders MSCI U.S. REIT ETF	26.34

* 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	\$14B	(\$115M)	(\$496M)	(\$1,251M)	\$113M
Consumer Discretionary	13	\$22B	(\$140M)	(\$1,649M)	(\$5,580M)	(\$4,230M)
Consumer Staples	12	\$26B	\$80M	\$2,002M	\$5,708M	\$5,466M
Energy	34	\$88B	\$200M	(\$1,884M)	\$4,899M	\$4,589M
Financials	28	\$59B	(\$943M)	(\$12,058M)	(\$9,358M)	(\$10,790M)
Health Care	26	\$85B	\$301M	\$5,633M	\$9,281M	\$14,390M
Industrial	14	\$29B	\$118M	(\$1,651M)	(\$1,273M)	(\$5,973M)
Materials	10	\$18B	\$67M	\$505M	\$2,315M	(\$832M)
Multi-Sector	19	\$15B	(\$13M)	(\$1,344M)	(\$4,111M)	(\$2,543M)
Real Estate	24	\$68B	\$292M	(\$1,596M)	(\$1,220M)	\$4,334M
Technology	24	\$117B	\$76M	\$1,827M	(\$922M)	\$6,937M
Utilities	10	\$26B	\$352M	\$3,530M	\$4,482M	\$5,693M

U.S. Sector & Industry Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLU	Utilities Select Sector SPDR Fund	\$311M	\$2,535M	\$2,977M	\$3,799M	\$16,217M
IYR	iShares U.S. Real Estate ETF	\$299M	(\$160M)	(\$626M)	(\$1,176M)	\$4,554M
XLV	Health Care Select Sector SPDR Fund	\$206M	\$5,052M	\$7,222M	\$10,371M	\$37,741M
ITA	iShares U.S. Aerospace & Defense ETF	\$192M	\$876M	\$1,483M	\$1,197M	\$3,818M
XLK	Technology Select Sector SPDR Fund	\$190M	\$1,030M	\$254M	\$2,405M	\$39,236M
ITB	iShares U.S. Home Construction ETF	\$140M	(\$267M)	(\$618M)	(\$644M)	\$1,525M
XBI	SPDR S&P BIOTECH ETF	\$137M	\$672M	\$2,629M	\$2,926M	\$5,860M
VDE	Vanguard Energy ETF	\$108M	(\$591M)	(\$79M)	\$357M	\$9,293M
XLI	Industrial Select Sector SPDR Fund	\$102M	(\$1,097M)	(\$1,475M)	(\$4,995M)	\$13,447M
VNQ	Vanguard Real Estate ETF	\$102M	(\$549M)	\$152M	\$2,598M	\$39,736M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	(\$584M)	(\$6,969M)	(\$5,113M)	(\$7,497M)	\$31,029M
KRE	SPDR S&P Regional Banking ETF	(\$307M)	(\$1,692M)	(\$925M)	(\$1,293M)	\$3,199M
IYT	iShares US Transportation ETF	(\$168M)	(\$526M)	(\$651M)	(\$839M)	\$869M
XLE	Energy Select Sector SPDR Fund	(\$153M)	(\$312M)	\$1,601M	\$1,151M	\$43,579M
VFH	Vanguard Financials ETF	(\$134M)	(\$1,402M)	(\$930M)	(\$623M)	\$8,748M
VGT	Vanguard Information Technology ETF	(\$124M)	\$1,287M	\$218M	\$2,505M	\$41,522M
XHB	SPDR S&P Homebuilders ETF	(\$89M)	(\$261M)	(\$698M)	(\$535M)	\$994M
XRT	SPDR S&P Retail ETF	(\$82M)	\$7M	(\$166M)	(\$208M)	\$292M
VOX	Vanguard Communication Services ETF	(\$73M)	(\$129M)	(\$85M)	\$358M	\$2,925M
IHF	iShares U.S. Healthcare Providers ETF	(\$63M)	\$302M	\$303M	\$341M	\$1,414M

* 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



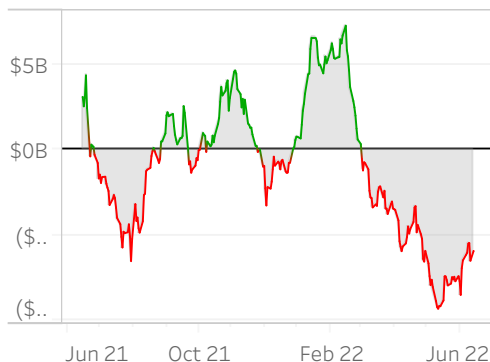
Consumer Staples



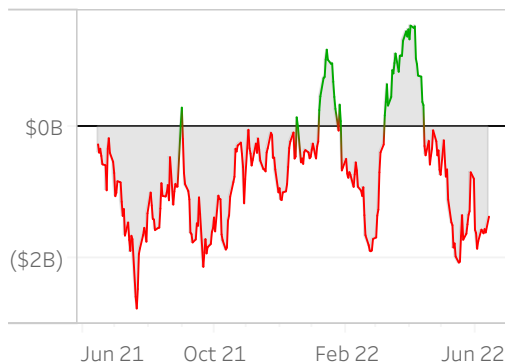
Energy



Financials



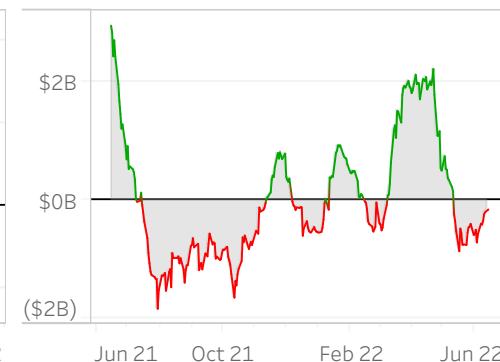
Industrial



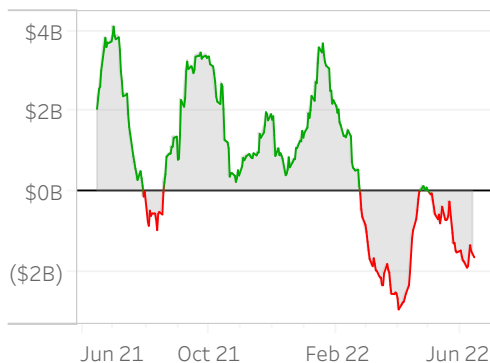
Health Care



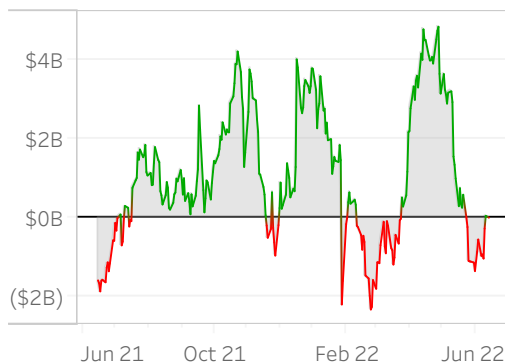
Materials



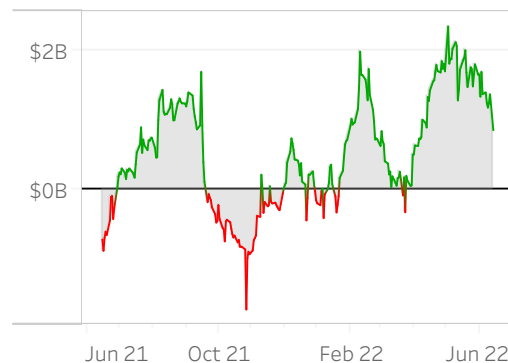
Real Estate



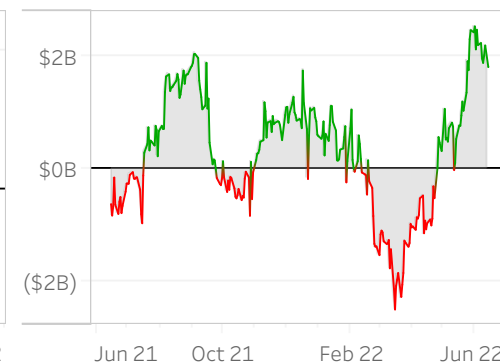
Technology



Utilities

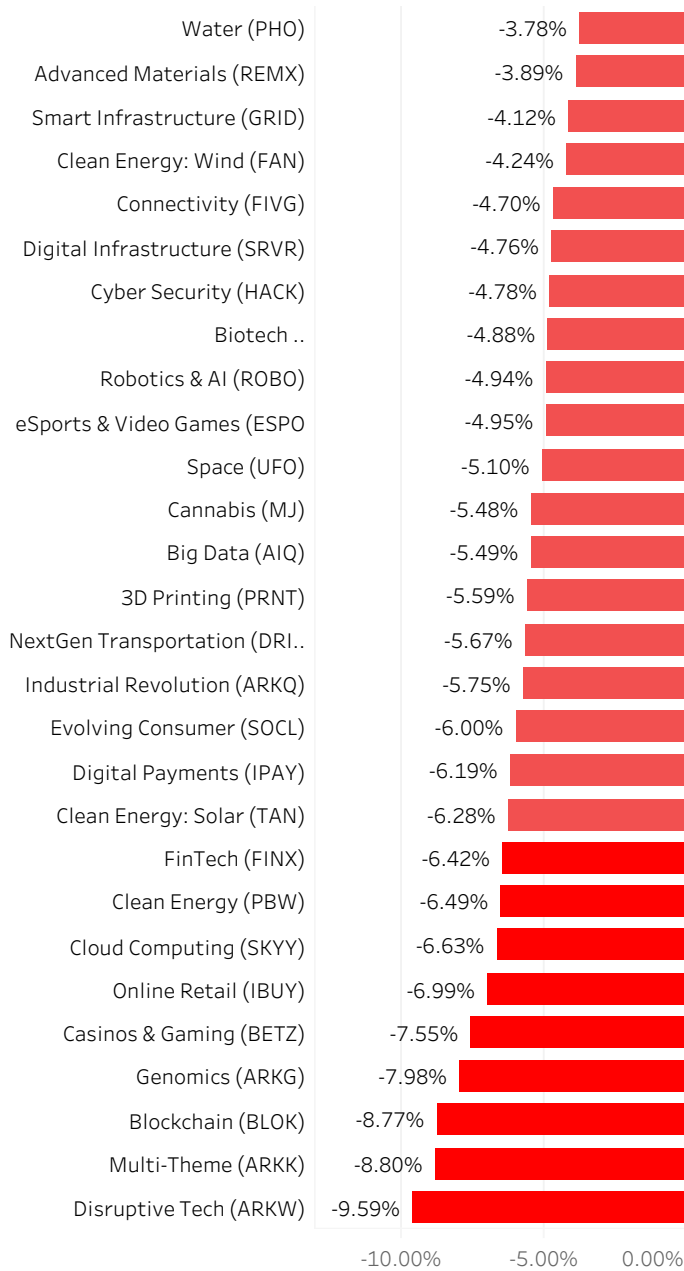


Multi-Sector

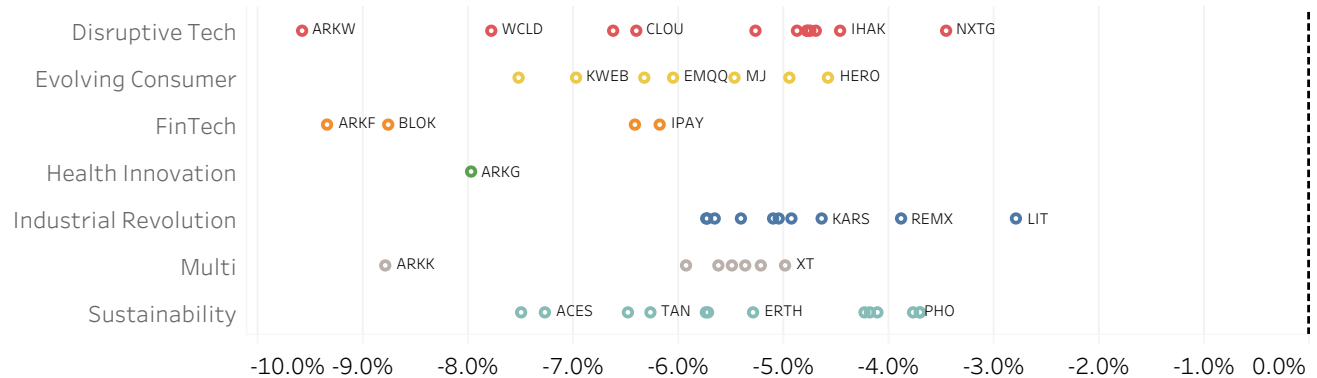


*ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

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	-2.63%
LIT	Global X Lithium & Battery Tech ETF	-2.80%
KGRN	KraneShares MSCI China Clean Technology Index ETF	-3.31%
GDOC	Goldman Sachs Future Health Care Equity ETF	-3.34%
KLDW	Knowledge Leaders Developed World ETF	-3.44%
NXTG	First Trust Indxx NextG ETF	-3.46%
FIW	First Trust Water ETF	-3.71%
PIO	Invesco Global Water ETF	-3.72%
LEGR	First Trust Indxx Innovative Transaction & Process ETF	-3.75%
PAWZ	ProShares Pet Care ETF	-3.78%

Thematic Most Overbought

Ticker	Fund	Value
KGRN	KraneShares MSCI China Clean Technology Index ETF	52.64
KSTR	KraneShares SSE STAR Market 50 Index ETF	52.47
KWEB	KraneShares CSI China Internet ETF	51.65
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	48.14
TAN	Invesco Solar ETF	46.54
LIT	Global X Lithium & Battery Tech ETF	46.18
KEMQ	KraneShares Emerging Markets Consumer Technology Ind..	44.34
CNRG	SPDR S&P Kensho Clean Power ETF	41.87
BATT	Amplify Lithium & Battery Technology ETF	40.76
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	40.73

Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
BITQ	Bitwise Crypto Industry Innovators ETF	-14.79%
BKCH	Global X Blockchain ETF	-13.79%
ARKW	ARK Next Generation Internet ETF	-9.59%
ARKF	ARK Fintech Innovation ETF	-9.35%
ARKK	ARK Innovation ETF	-8.80%
BLOK	Amplify Transformational Data Sharing ETF	-8.77%
YOLO	AdvisorShares Pure Cannabis ETF	-8.27%
MOON	Direxion Moonshot Innovators ETF	-8.19%
ARKG	ARK Genomic Revolution ETF	-7.98%
WCLD	WisdomTree Cloud Computing Fund	-7.79%

Thematic Most Oversold

Ticker	Fund	Value
YOLO	AdvisorShares Pure Cannabis ETF	22.26
MJ	ETFMG Alternative Harvest ETF	26.70
BKCH	Global X Blockchain ETF	26.76
BITQ	Bitwise Crypto Industry Innovators ETF	27.26
BLOK	Amplify Transformational Data Sharing ETF	27.71
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	28.87
IDNA	iShares Genomics Immunology and Healthcare ETF Geno..	29.35
IZRL	ARK Israel Innovative Technology ETF	29.60
CGW	Invesco S&P Global Water Index ETF	29.73
PRNT	3D Printing ETF	30.00

* 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	
KWEB	KraneShares CSI China Internet ETF	\$512M
TAN	Invesco Solar ETF	\$68M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$34M
PBW	Invesco WilderHill Clean Energy ETF	\$25M
ARKF	ARK Fintech Innovation ETF	\$16M
ARKW	ARK Next Generation Internet ETF	\$15M
ARKG	ARK Genomic Revolution ETF	\$12M
ICLN	iShares Global Clean Energy ETF	\$6M
MSOS	AdvisorShares Pure US Cannabis ETF	\$6M
FINX	Global X FinTech ETF	\$4M

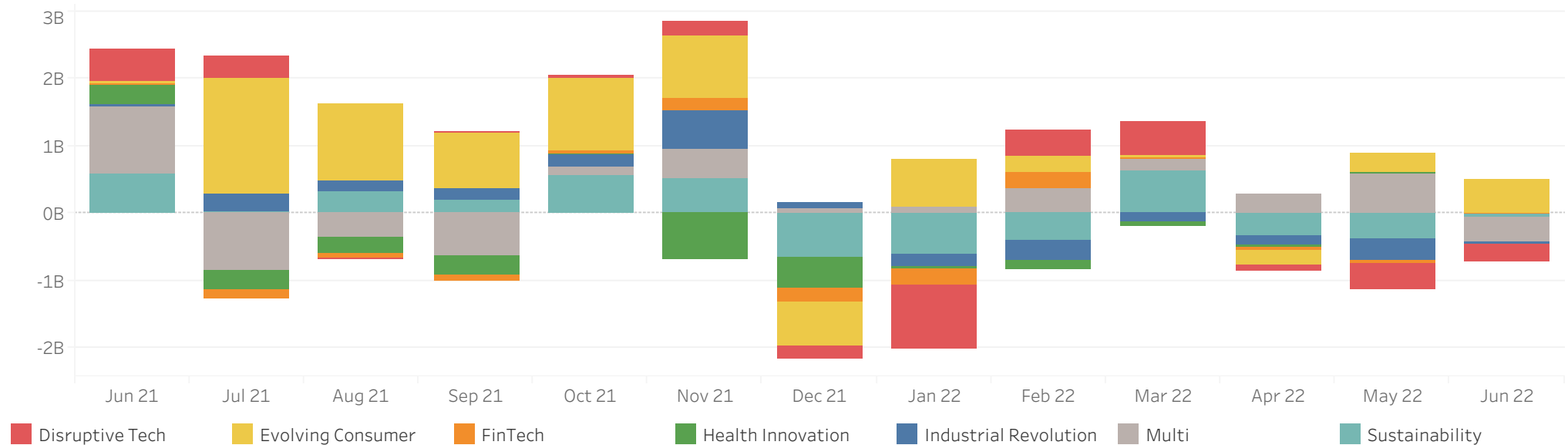
Thematic 1 Week Flow Laggards

Ticker	Fund	
ARKK	ARK Innovation ETF	(\$107M)
POTX	Global X Cannabis ETF	(\$45M)
KOMP	SPDR S&P Kensho New Economies Composite ETF	(\$34M)
ACES	ALPS Clean Energy ETF	(\$21M)
SKYY	First Trust Cloud Computing ETF	(\$14M)
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	(\$12M)
IPAY	ETFMG Prime Mobile Payments ETF	(\$11M)
DTEC	ALPS Disruptive Technologies ETF	(\$10M)
DRIV	Global X Autonomous & Electric Vehicles ETF	(\$8M)
FIW	First Trust Water ETF	(\$8M)

Thematic Landscape Assets & Flows

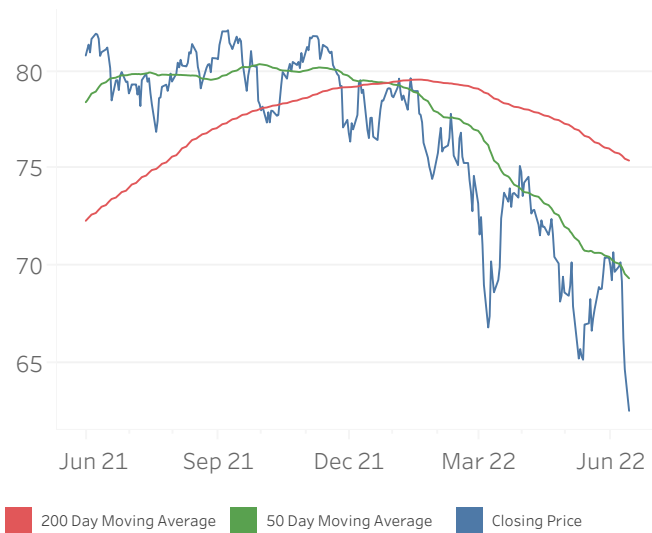
Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$19B	(\$37M)	(\$606M)	(\$942M)	\$76M
Evolving Consumer	48	\$12B	\$424M	\$1,083M	\$869M	\$6,633M
FinTech	24	\$3B	\$6M	(\$44M)	(\$262M)	(\$293M)
Health Innovation	19	\$3B	\$19M	\$32M	(\$615M)	(\$1,884M)
Industrial Revolution	32	\$13B	(\$21M)	(\$584M)	(\$1,155M)	\$337M
Multi	42	\$15B	(\$133M)	\$295M	\$1,306M	\$916M
Sustainability	41	\$18B	\$97M	(\$740M)	(\$1,482M)	\$415M
Grand Total	241	\$83B	\$355M	(\$564M)	(\$2,283M)	\$6,200M

Thematic Monthly Flows

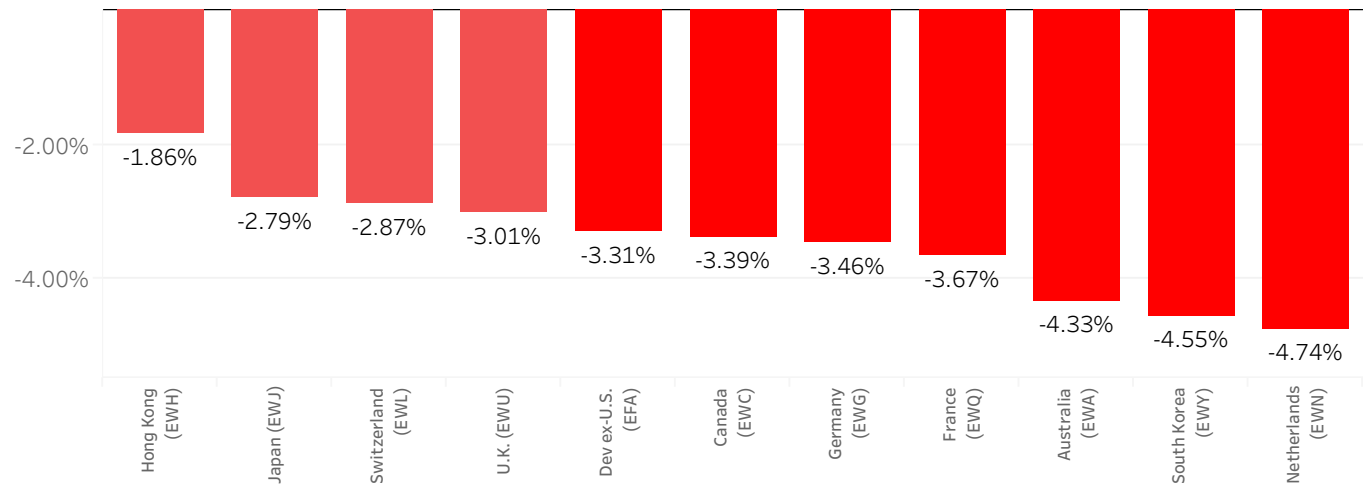


* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day

Developed ex-U.S. (EFA)



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



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



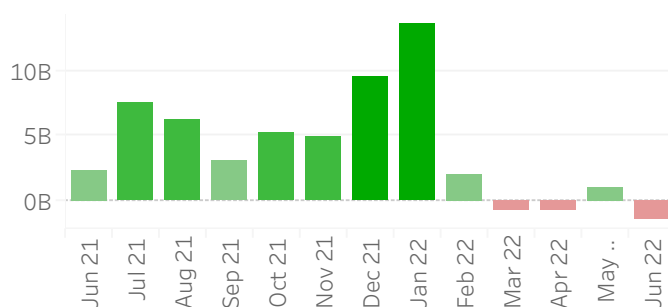
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
PTIN	Pacer Trendpilot International ETF	0.08%
DFJ	WisdomTree Japan SmallCap Dividend Fund	-1.21%
LVHI	Legg Mason International Low Volatility High Dividend ETF	-1.79%
EWJ	iShares MSCI Hong Kong ETF	-1.86%
DXJ	WisdomTree Japan Hedged Equity Fund	-1.88%
SCJ	iShares MSCI Japan Small-Cap ETF	-1.89%
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	-1.98%
IDLV	Invesco S&P International Developed Low Volatility ETF	-1.99%
EWJV	iShares MSCI Japan Value ETF	-2.01%
EFAV	iShares MSCI EAFE Min Vol Factor ETF	-2.11%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
DXJ	WisdomTree Japan Hedged Equity Fund	45.31
AIA	iShares Asia 50 ETF	42.41
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	42.19
HEWJ	iShares Currency Hedged MSCI Japan ETF	41.99
PTIN	Pacer Trendpilot International ETF	40.49
AAXJ	iShares MSCI All Country Asia ex Japan ETF	40.04
EWJ	iShares MSCI Hong Kong ETF	38.66
DFJ	WisdomTree Japan SmallCap Dividend Fund	35.42
FSZ	First Trust Switzerland AlphaDEX Fund	35.24
IHDG	WisdomTree International Hedged Quality Dividend Grow..	34.94

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	1-Day Performance
ISRA	VanEck Israel ETF	-6.18%
EIS	iShares MSCI Israel ETF	-5.86%
NORW	Global X MSCI Norway ETF	-4.76%
EWN	iShares MSCI Netherlands ETF	-4.74%
EWY	iShares MSCI South Korea ETF	-4.55%
GREK	Global X MSCI Greece ETF	-4.50%
IEUS	iShares MSCI Europe Small-Cap ETF	-4.47%
EWUS	iShares MSCI United Kingdom Small Cap ETF	-4.45%
CIL	VictoryShares International Volatility Wtd ETF	-4.40%
EWA	iShares MSCI Australia ETF	-4.33%

Developed ex-U.S. Most Oversold

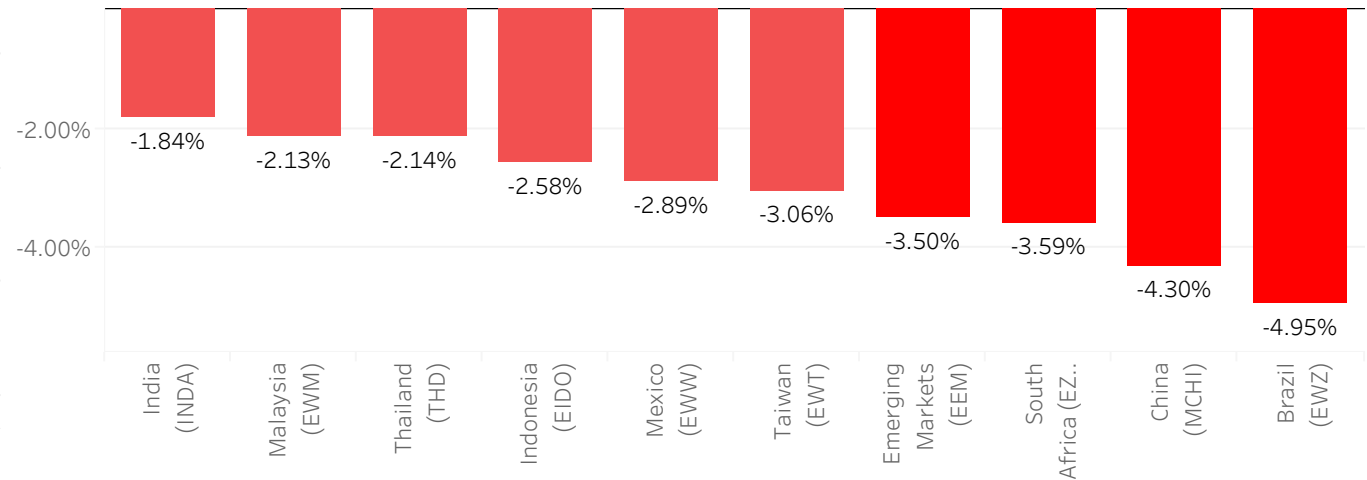
Ticker	Fund	Value
WPS	iShares International Developed Property ETF	22.56
EFAV	iShares MSCI EAFE Min Vol Factor ETF	24.04
ENZL	iShares MSCI New Zealand ETF	24.14
EWL	iShares MSCI Switzerland ETF	24.56
EWA	iShares MSCI Australia ETF	24.93
EIS	iShares MSCI Israel ETF	25.20
QLVD	FlexShares Developed Markets ex-US Quality Low V..	25.51
EWI	iShares MSCI Italy ETF	25.90
SCZ	iShares MSCI EAFE Small-Cap ETF	26.16
EPP	iShares MSCI Pacific ex-Japan ETF	26.88

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

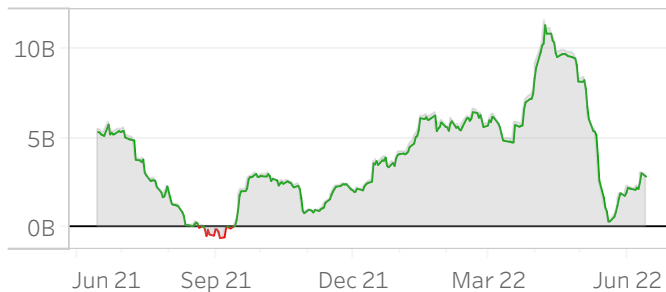
Emerging (EEM)



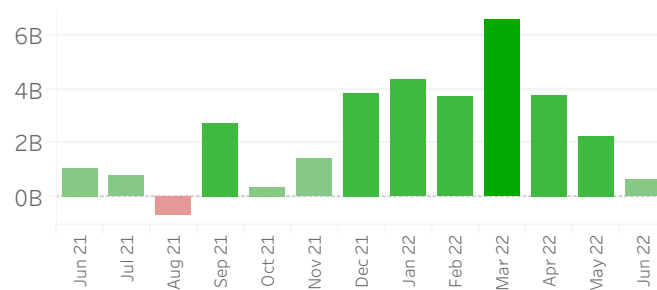
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
EPHE	iShares MSCI Philippines ETF	-1.17%
RAYC	Rayliant Quantamental China Equity ETF	-1.46%
TUR	iShares MSCI Turkey ETF	-1.50%
CNYA	iShares MSCI China A ETF	-1.79%
FLIN	Franklin FTSE India ETF	-1.80%
INDA	iShares MSCI India ETF	-1.84%
QAT	iShares MSCI Qatar ETF	-1.88%
INDY	iShares India 50 ETF	-2.03%
PIN	Invesco India ETF	-2.04%
EDIV	SPDR S&P Emerging Markets Dividend ETF	-2.07%

Emerging Most Overbought

Ticker	Fund	Value
RAYC	Rayliant Quantamental China Equity ETF	52.74
CNYA	iShares MSCI China A ETF	52.05
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	52.00
FLCH	Franklin FTSE China ETF	50.79
KBA	KraneShares Bosera MSCI China A 50 Connect Index E..	50.58
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	50.41
PGJ	Invesco Golden Dragon China ETF	50.32
GXC	SPDR S&P China ETF	50.20
MCHI	iShares MSCI China ETF	49.54
FXI	iShares China Large-Cap ETF	49.37

Emerging 1-Day Performance Laggards

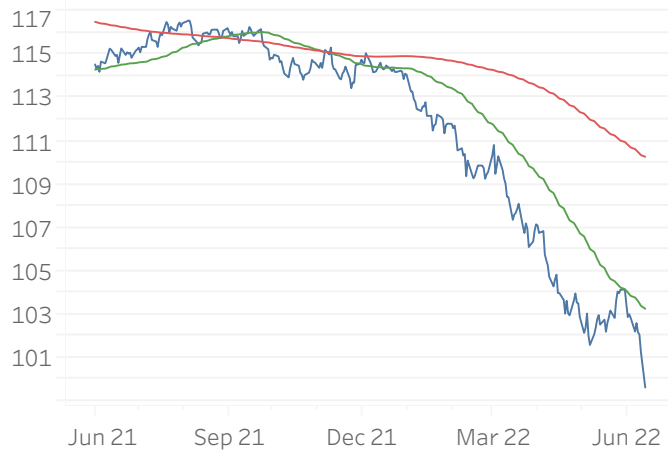
Ticker	Fund	Performance
PGJ	Invesco Golden Dragon China ETF	-6.85%
EWZS	iShares MSCI Brazil Small-Cap ETF	-6.51%
FNI	First Trust Chindia ETF	-5.72%
ADRE	Invesco BLDERS Emerging Markets 50 ADR Index Fund	-5.38%
FLBR	Franklin FTSE Brazil ETF	-5.03%
FLN	First Trust Latin America AlphaDEX Fund	-5.03%
EWZ	iShares MSCI Brazil ETF	-4.95%
FXI	iShares China Large-Cap ETF	-4.37%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	-4.34%
EPOL	iShares MSCI Poland ETF	-4.32%

Emerging Most Oversold

Ticker	Fund	Value
EWM	iShares MSCI Malaysia ETF	18.56
FM	iShares MSCI Frontier and Select EM ETF	22.72
DVYE	iShares Emerging Markets Dividend ETF	24.30
EWZ	iShares MSCI Brazil ETF	25.86
EWZS	iShares MSCI Brazil Small-Cap ETF	26.04
EDIV	SPDR S&P Emerging Markets Dividend ETF	26.48
EWW	iShares MSCI Mexico ETF	26.52
QAT	iShares MSCI Qatar ETF	26.65
ILF	iShares Latin America 40 ETF	26.66
THD	iShares MSCI Thailand ETF	27.60

*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	-1.64%	-2.66%	-11.99%
SHY	1-3 Year Treasury Bonds	-0.51%	-1.14%	-3.76%
IEF	7-10 Year Treasury Bonds	-1.78%	-3.46%	-13.49%
TLT	20+ Year Treasury Bonds	-3.14%	-4.81%	-25.06%
TIP	TIPS Bonds	-1.68%	-1.98%	-8.15%
FLOT	Floating Rate Bonds	-0.56%	-1.01%	-1.33%
LQD	Investment Grade Corporate	-2.31%	-3.06%	-17.65%
HYG	High Yield Corporate	-3.35%	-4.46%	-14.36%
BKLN	Senior Loan	-2.87%	-2.96%	-6.89%
PFF	Preferred & Income Securities	-3.27%	-2.37%	-16.83%
MUB	Municipal Bonds	-1.28%	0.27%	-8.84%
MBB	MBS	-2.36%	-3.44%	-11.16%
EMB	Dollar Denominated EM Bonds	-2.65%	-4.57%	-20.67%
LEMB	Local Currency EM Bond	-1.60%	-0.67%	-13.67%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-2.35%	3.53%	38.92%
DBE	Energy	-0.83%	12.78%	74.65%
USO	WTI Crude Oil	0.26%	11.17%	66.23%
BNO	Brent Crude Oil	0.34%	11.86%	70.92%
UNG	Natural Gas	-1.04%	11.95%	135.47%
UGA	Gasoline	-3.60%	6.15%	82.35%
DBP	Precious Metals	-3.11%	0.32%	-3.22%
GLD	Gold	-2.64%	0.68%	-0.60%
SLV	Silver	-3.42%	0.41%	-9.34%
PPLT	abrdn Physical Platin..	-4.44%	-0.89%	-3.53%
PALL	abrdn Physical Palla..	-7.07%	-7.24%	-5.64%
DBB	Base Metals	-1.90%	-1.85%	-2.47%
CPER	Copper	-2.42%	0.63%	-6.62%
LD	Lead	-1.48%	1.49%	-5.14%
JJN	Nickel	-6.20%	-6.75%	24.35%
JJU	Aluminum	-3.44%	-8.62%	-7.03%
JJT	Tin	-7.59%	-4.08%	-16.24%
DBA	Agriculture	-1.14%	-1.89%	10.18%
CORN	Corn	-0.49%	-2.25%	33.01%
SOYB	Soybeans	-2.35%	1.58%	24.44%
WEAT	Wheat	-0.81%	-5.84%	48.31%
CANE	Sugar	-1.45%	-1.14%	3.26%
BAL	Cotton	0.99%	-4.78%	32.56%
NIB	Cocoa	-3.89%	-6.13%	-12.18%
JO	Coffee	-1.69%	4.19%	-0.44%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.97%	0.46%	9.64%
UDN	Short Dollar	-1.03%	-0.54%	-9.54%
FXE	Euro	-1.03%	-0.01%	-8.91%
FXB	British Pound Sterling	-1.61%	-1.03%	-10.48%
FXF	Swiss Franc	-1.01%	0.39%	-9.10%
FXJ	Japanese Yen	-0.01%	-3.77%	-14.49%
FXC	Canadian Dollar	-0.98%	0.12%	-2.18%
FXA	Australian Dollar	-1.82%	-0.04%	-4.84%

*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