

U.S. Size & Style Performance

64.64

64.47

64.33 64.04

64.01

63.59

63.43 62.91

62.79

62.75

Large Cap Blend (S&P 500) IVV



Large Growth Large Value (IVE) Large Cap (IVV) (IVW) -1.0% -0.89% -1.08% -1.25% -1.75% -2.0%



Ticker Fund

JMEE

AVUV

XSMO

DIVZ PABU

EORR

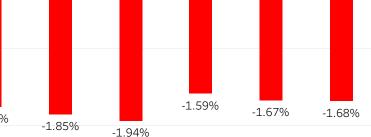
DWAS

DEIF

FFTY

OMOM

U.S. Size & Style 1-Day Performance



Mid Cap Blend (S&P 400) IJH



Small Cap Blend (S&P 600) IJR

Size & Style 1-Day Performance Leaders

Ticker	Fund	
PABU	iShares Paris-Aligned Climate MSCI USA ETF	5.17%
IPO	Renaissance IPO ETF	0.74%
QQXT	First Trust Nasdaq-100 Ex-Technology Sector Index Fund	0.26%
PTLC	Pacer Trendpilot US Large Cap ETF	0.03%
SPC	CrossingBridge Pre-Merger SPAC ETF	-0.05%
РТМС	Pacer Trendpilot US Mid Cap ETF	-0.06%
GURU	Global X Guru Index ETF	-0.25%
NZUS	SPDR MSCI USA Climate Paris Aligned ETF	-0.25%
TPLE	Timothy Plan Us Large/Mid Cap Core Enhanced ETF	-0.39%
WINN	Harbor Long-Term Growers ETF	-0.39%

Size & Style 1-Day Performance Laggards

120	MAN	M M AN	MA	MM MM MM	pt Jah	Tic XM XS FF CA QV RZ
100						XS
					γ	RF
	1 01	6 21	D 21	14 22		ΧN
	Jun 21	Sep 21	Dec 21	Mar 22	Jun 22	M
CI	osing Price		50 Day Moving	Average	200 Day Movir	ng Av

cker Fund -2.46 ммо Invesco S&P MidCap Momentum ETF -2.41 SVM Invesco S&P SmallCap Value with Momentum ETF -2.35 FTY Innovator IBD 50 ETF ALF -2.27 Pacer US Small Cap Cash Cows 100 ETF -2.21 VAL Alpha Architect U.S. Quantitative Value ETF -2.16 ΖV Invesco S&P Smallcap 600 Pure Value ETF SMO Invesco S&P SmallCap Momentum ETF -2.10 -2.05 FG Invesco S&P Midcap 400 Pure Growth ETF MVM -2.01 Invesco S&P MidCap Value with Momentum ETF -1.99 **IGMT** Ballast Small/Mid Cap ETF

verage

Sterling Capital Diverse Multi-Manager Active ETF

Size & Style Most Overbought

JPMorgan Market Expansion Enhanced Equity ETF

Alpha Architect U.S. Quantitative Momentum ETF

TrueShares Low Volatility Equity Income ETF

iShares Paris-Aligned Climate MSCI USA ETF

Avantis U.S. Small Cap Value ETF

Invesco S&P SmallCap Momentum ETF

ProShares Equities for Rising Rates ETF

Invesco DWA SmallCap Momentum ETF

Innovator IBD 50 ETF

Size & Style Most Oversold

	Ticker	Fund	
6%	PTLC	Pacer Trendpilot US Large Cap ETF	43.01
1%	JEPQ	J.P. Morgan Nasdaq Equity Premium Income ETF	46.56
5%	PTMC	Pacer Trendpilot US Mid Cap ETF	47.07
7%	QQH	HCM Defender 100 Index ETF	47.64
1%	TMFS	Motley Fool Small-Cap Growth ETF	49.22
6%	BUZZ	VanEck Social Sentiment ETF	49.83
0%	LGH	HCM Defender 500 Index ETF	49.92
5%	ALTL	Pacer Lunt Large Cap Alternator ETF	50.18
1%	CGGR	Capital Group Growth ETF	50.45
9%	SPLV	Invesco S&P 500 Low Volatility ETF	50.48

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



U.S. Size & Style Flows

Large-Cap 30-Day Rolling Flows



Mid-Cap 30-Day Rolling Flows



Small-Cap 30-Day Rolling Flows



	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Large Cap, Beta Growth, Beta	25	\$1,253B	\$13.17B	\$13.14B	\$52.21B	\$146.39B
Large Cap, Beta Growth, Beta: Growth	10	\$226B	(\$0.11B)	\$6.80B	\$7.27B	\$18.51B
Large Cap, Beta Growth, Beta: Value	11	\$227B	\$0.26B	\$3.95B	\$17.71B	\$25.55B
Mid Cap, Beta, Beta	10	\$183B	\$0.31B	\$3.35B	\$6.96B	\$12.01B
Mid Cap, Beta, Beta: Growth	6	\$33B	(\$0.01B)	\$0.29B	(\$0.11B)	\$0.53B
Mid Cap, Beta, Beta: Value	6	\$42B	(\$0.19B)	(\$0.61B)	\$0.07B	(\$0.17B)
Small Cap, Beta, Beta	13	\$197B	(\$1.12B)	(\$7.45B)	(\$2.92B)	\$7.04B
Small Cap, Beta, Beta: Growth	7	\$32B	\$0.08B	\$0.56B	\$1.20B	\$1.75B
Small Cap, Beta, Beta: Value	7	\$54B	\$0.14B	(\$2.64B)	(\$1.63B)	(\$2.24B)

U.S. Size & Style Landscape Flows

U.S. Size & Style Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IVV	iShares Core S&P 500 ETF	\$6.21B	\$7.45B	\$17.78B	\$37.01B	\$310.76B
V00	Vanguard S&P 500 ETF	\$4.80B	\$2.24B	\$23.75B	\$45.61B	\$268.04B
QQQ	Invesco QQQ Trust	\$2.43B	\$3.92B	\$7.18B	\$24.81B	\$169.68B
VTV	Vanguard Value ETF	\$0.39B	\$3.56B	\$13.16B	\$17.91B	\$103.37B
HDV	iShares Core High Dividend ETF	\$0.27B	\$4.09B	\$5.04B	\$5.43B	\$13.56B
VUG	Vanguard Growth ETF	\$0.25B	\$3.44B	\$4.93B	\$6.87B	\$73.78B
SCHD	Schwab US Dividend Equity ETF	\$0.23B	\$1.98B	\$5.93B	\$10.80B	\$37.19B
COWZ	Pacer US Cash Cows 100 ETF	\$0.17B	\$3.48B	\$5.15B	\$5.62B	\$6.66B
VB	Vanguard Small-Cap ETF	\$0.17B	(\$0.68B)	\$0.12B	\$3.16B	\$44.12B
FDL	First Trust Morningstar Dividend Leaders Ind	\$0.15B	\$1.01B	\$1.14B	\$1.18B	\$3.11B

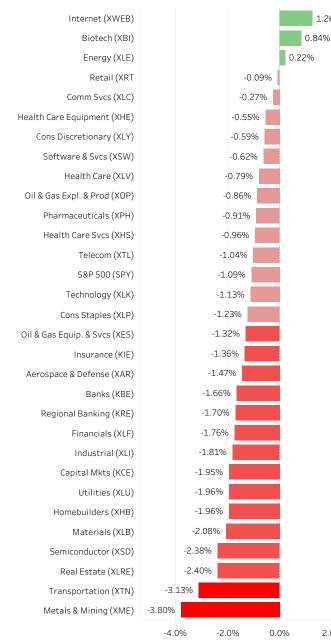
U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
IWM	iShares Russell 2000 ETF	(\$1.14B)	(\$3.87B)	(\$4.08B)	(\$1.83B)	\$55.23B
IWF	iShares Russell 1000 Growth ETF	(\$0.37B)	\$0.88B	\$0.53B	\$1.56B	\$62.44B
DIA	SPDR Dow Jones Industrial Average ETF Trust	(\$0.36B)	\$0.54B	\$1.18B	(\$0.74B)	\$28.83B
ITI	iShares S&P Mid-Cap 400 Value ETF	(\$0.28B)	\$0.02B	(\$1.02B)	(\$1.14B)	\$7.70B
VI00	Vanguard S&P Small-Cap 600 ETF	(\$0.19B)	(\$0.17B)	\$0.11B	\$0.28B	\$1.79B
IVE	iShares S&P 500 Value ETF	(\$0.19B)	\$0.85B	\$2.50B	\$2.26B	\$25.56B
мтим	iShares MSCI USA Momentum Factor ETF	(\$0.12B)	\$0.02B	(\$1.51B)	(\$2.03B)	\$10.96B
QUAL	iShares MSCI USA Quality Factor ETF	(\$0.07B)	\$0.33B	(\$0.21B)	\$1.58B	\$21.38B
VXF	Vanguard Extended Market ETF	(\$0.07B)	(\$0.23B)	(\$0.18B)	\$0.58B	\$14.00B
IWD	iShares Russell 1000 Value ETF	(\$0.06B)	(\$0.40B)	(\$0.67B)	\$1.26B	\$56.14B

* 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

1.26%



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	0.00%	101.09%	14.02%	40.28%	72.12
XLU	Utilities Select Sector SPDR Fund	-2.38%	18.82%	1.70%	8.02%	60.56
XLB	Materials Select Sector SPDR Fund	-2.75%	11.39%	2.30%	3.00%	59.19
XLP	Consumer Staples Select Sector SPDR Fund	-7.86%	7.91%	-2.88%	-0.01%	47.03
XLV	Health Care Select Sector SPDR Fund	-7.91%	5.66%	-1.41%	-0.94%	50.72
XLI	Industrial Select Sector SPDR Fund	-9.22%	8.36%	0.60%	-3.80%	58.60
SPY	SPDR S&P 500 ETF Trust	-12.97%	6.75%	-1.27%	-6.30%	53.69
XLRE	Real Estate Select Sector SPDR Fund	-14.65%	5.97%	-4.15%	-6.10%	49.15
XLF	Financial Select Sector SPDR Fund	-14.92%	7.05%	-1.12%	-7.67%	53.00
XLK	Technology Select Sector SPDR Fund	-19.80%	8.34%	-1.29%	-9.26%	53.19
XLY	Consumer Discretionary Select Sector SPDR Fund	-27.09%	11.85%	-6.12%	-16.14%	49.38
XLC	Communication Services Select Sector SPDR Fund	-29.87%	6.25%	-3.07%	-16.96%	51.02

Select Sector SPDRs Technicals

Sector & Industry 1 Day Performance Leaders

Ticker	Fund	
PNQI	Invesco NASDAQ Internet ETF	1.04%
XBI	SPDR S&P BIOTECH ETF	0.84%
IBB	iShares Biotechnology ETF	0.25%
FBT	First Trust NYSE Arca Biotechnology Index Fund	0.23%
XLE	Energy Select Sector SPDR Fund	0.22%
FDN	First Trust Dow Jones Internet Index Fund	0.08%
XNTK	SPDR NYSE Technology ETF	-0.05%
XRT	SPDR S&P Retail ETF	-0.09%
IYE	iShares U.S. Energy ETF	-0.10%
VDE	Vanguard Energy ETF	-0.11%

Sector & Industry 1 Day Performance Laggards

Ticker	Fund	
XME	SPDR S&P Metals & Mining ETF	-3.80%
PYZ	Invesco DWA Basic Materials Momentum ETF	-3.48%
XTN	SPDR S&P Transportation ETF	-3.13%
IYT	iShares US Transportation ETF	-3.11%
REZ	iShares Residential and Multisector Real Estate ETF	-2.84%
RWR	SPDR Dow Jones REIT ETF	-2.64%
BBRE	JPMorgan BetaBuilders MSCI U.S. REIT ETF	-2.61%
EWRE	Invesco S&P 500 Equal Weight Real Estate ETF	-2.59%
USRT	iShares Core U.S. REIT ETF	-2.59%
PAVE	Global X U.S. Infrastructure Development ETF	-2.58%

Sector & Industry Most Overbought

Ticker	Fund	
XOP	SPDR S&P Oil & Gas Exploration & Production ETF	76.42
IEO	iShares U.S. Oil & Gas Exploration & Production ETF	75.83
PXE	Invesco Dynamic Energy Exploration & Production ETF	75.72
PSCE	Invesco S&P SmallCap Energy ETF	74.85
PXI	Invesco DWA Energy Momentum ETF	74.05
FCG	First Trust Natural Gas ETF	73.95
FXN	First Trust Energy AlphaDEX Fund	73.86
IYE	iShares U.S. Energy ETF	73.25
FENY	Fidelity MSCI Energy Index ETF	73.24
VDE	Vanguard Energy ETF	73.10

Sector & Industry Most Oversold

Ticker	Fund	
REZ	iShares Residential and Multisector Real Estate ETF	45.72
XLP	Consumer Staples Select Sector SPDR Fund	47.03
VDC	Vanguard Consumer Staples ETF	47.03
FSTA	FIDELITY COVINGTON TRUST MSCI CONSUMER STAPLES I	47.04
RHS	Invesco S&P 500 Equal Weight Consumer Staples ETF	47.16
RWR	SPDR Dow Jones REIT ETF	47.17
EWRE	Invesco S&P 500 Equal Weight Real Estate ETF	47.24
IHF	iShares U.S. Healthcare Providers ETF	47.28
FTXG	First Trust Nasdaq Food & Beverage ETF	47.63
XHS	SPDR S&P Health Care Services ETF	47.76
	REZ XLP VDC FSTA RHS RWR EWRE IHF FTXG	REZ iShares Residential and Multisector Real Estate ETF XLP Consumer Staples Select Sector SPDR Fund VDC Vanguard Consumer Staples ETF FSTA FIDELITY COVINGTON TRUST MSCI CONSUMER STAPLES I RHS Invesco S&P 500 Equal Weight Consumer Staples ETF RWR SPDR Dow Jones REIT ETF EWRE Invesco S&P 500 Equal Weight Real Estate ETF IHF iShares U.S. Healthcare Providers ETF FTXG First Trust Nasdaq Food & Beverage ETF

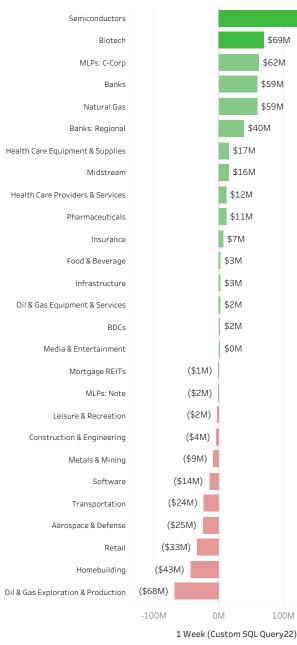
* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify

2.0%

U.S. Sector Landscape

U.S. Sector & Industry 1-Week Flows

\$123M



	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Communication Services	9	\$15B	(\$132M)	(\$427M)	(\$1,060M)	\$109M
Consumer Discretionary	13	\$24B	\$107M	(\$2,065M)	(\$4,883M)	(\$4,283M)
Consumer Staples	12	\$27B	(\$207M)	\$1,708M	\$5,557M	\$6,244M
Energy	34	\$92B	\$451M	(\$1,086M)	\$5,977M	\$4,780M
Financials	28	\$65B	\$271M	(\$11,377M)	(\$8,446M)	(\$10,622M)
Health Care	26	\$89B	\$169M	\$5,697M	\$8,988M	\$14,330M
Industrial	14	\$31B	\$95M	(\$1,977M)	(\$1,780M)	(\$6,436M)
Materials	10	\$19B	\$42M	\$1,443M	\$2,296M	(\$727M)
Multi-Sector	19	\$17B	(\$62M)	(\$2,337M)	(\$3,995M)	(\$2,549M)
Real Estate	24	\$73B	(\$355M)	(\$2,232M)	(\$1,103M)	\$4,362M
Technology	24	\$126B	\$125M	\$1,155M	(\$1,292M)	\$6,973M
Utilities	10	\$27B	(\$157M)	\$3,350M	\$3,884M	\$5,263M

U.S. Sector Landscape

U.S. Sector & Industry Flow Leaders

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLE	Energy Select Sector SPDR Fund	\$329M	(\$739M)	\$1,939M	\$1,462M	\$45,757M
XLF	Financial Select Sector SPDR Fund	\$207M	(\$6,935M)	(\$4,699M)	(\$7,443M)	\$34,291M
XLY	Consumer Discretionary Select Sector SPDR Fu	\$172M	(\$459M)	(\$2,027M)	(\$1,181M)	\$16,231M
XLI	Industrial Select Sector SPDR Fund	\$158M	(\$1,570M)	(\$1,916M)	(\$5,258M)	\$14,301M
VGT	Vanguard Information Technology ETF	\$143M	\$1,615M	\$398M	\$2,657M	\$45,087M
SOXX	iShares Semiconductor ETF	\$128M	(\$63M)	\$530M	\$1,753M	\$7,895M
AMLP	Alerian MLP ETF	\$66M	\$222M	\$733M	\$659M	\$7,370M
XLV	Health Care Select Sector SPDR Fund	\$60M	\$5,047M	\$6,929M	\$10,556M	\$39,331M
VDE	Vanguard Energy ETF	\$60M	(\$684M)	(\$153M)	\$287M	\$9,610M
FCG	First Trust Natural Gas ETF	\$59M	\$207M	\$265M	\$421M	\$1,110M

U.S. Sector & Industry Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLU	Utilities Select Sector SPDR Fund	(\$246M)	\$2,345M	\$2,432M	\$3,415M	\$16,768N
(LP	Consumer Staples Select Sector SPDR Fund	(\$242M)	(\$136M)	\$2,797M	\$3,203M	\$15,527N
VNQ	Vanguard Real Estate ETF	(\$175M)	(\$623M)	\$299M	\$2,660M	\$42,568N
ХОР	SPDR S&P Oil & Gas Exploration & Production E	(\$144M)	(\$1,086M)	\$57M	(\$1,196M)	\$5,939N
XLC	Communication Services Select Sector SPDR Fu	(\$103M)	(\$284M)	(\$797M)	(\$275M)	\$10,261N
RWR	SPDR Dow Jones REIT ETF	(\$89M)	\$168M	\$157M	\$188M	\$1,964N
XLRE	Real Estate Select Sector SPDR Fund	(\$84M)	\$363M	\$557M	\$2,520M	\$5,454N
XLK	Technology Select Sector SPDR Fund	(\$76M)	\$235M	\$459M	\$2,229M	\$42,188N
JPRE	JPMorgan Realty Income ETF	(\$38M)	(\$1,002M)	(\$1,070M)	(\$1,405M)	\$1,126N
XRT	SPDR S&P Retail ETF	(\$33M)	\$50M	(\$315M)	(\$219M)	\$353N

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



\$1B

\$0B

(\$1B)

Jun 21

Oct 21

U.S. Sector Rolling 30-Day Flows

\$2B

\$0B

(\$2B)

Jun 21

Jun 22



Consumer Discretionary

Oct 21

\$2B

\$0B

(\$2B)

Jun 21

Jun 22

Consumer Staples





Feb 22



Feb 22

Health Care

Feb 22

Oct 21

Materials



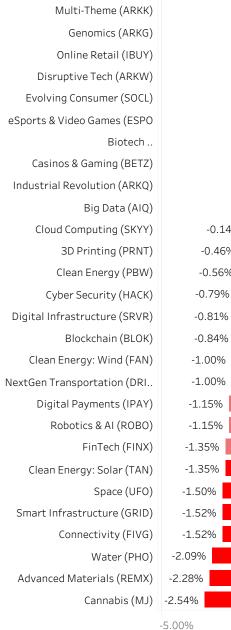


* ETF Landscape represented using the ETF Action classification system ** Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify *** Flows delayed one day



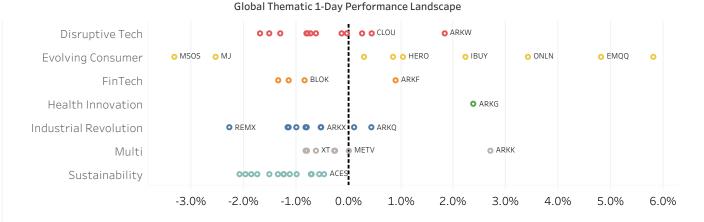
Global Thematic Performance

Global Thematic Segment 1-Day Performance





0.00%



Global Thematic 1-Day Performance Leaders

Ticker	Fund	
KWEB	KraneShares CSI China Internet ETF	5.81%
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	4.81%
ONLN	ProShares Online Retail ETF	3.42%
EBIZ	Global X E-Commerce ETF	3.07%
KEMQ	KraneShares Emerging Markets Consumer Technology In	3.01%
ARKK	ARK Innovation ETF	2.70%
ARKG	ARK Genomic Revolution ETF	2.37%
IBUY	Amplify Online Retail ETF	2.23%
ARKW	ARK Next Generation Internet ETF	1.83%
GNOM	Global X Genomics & Biotechnology ETF	1.78%

Global Thematic 1-Day Performance Laggards

Ticker	Fund	
MSOS	AdvisorShares Pure US Cannabis ETF	-3.33%
YOLO	AdvisorShares Pure Cannabis ETF	-2.94%
MJ	ETFMG Alternative Harvest ETF	-2.54%
REMX	VanEck Rare Earth/Strategic Metals ETF	-2.28%
EVX	VanEck Environmental Services ETF	-2.17%
PHO	Invesco Water Resources ETF	-2.09%
CNBS	Amplify Seymour Cannabis ETF	-2.00%
FIW	First Trust Water ETF	-1.97%
CGW	Invesco S&P Global Water Index ETF	-1.86%
PIO	Invesco Global Water ETF	-1.75%

Thematic Most Overbought

	Ticker	Fund	
ó	TAN	Invesco Solar ETF	69.73
5	KSTR	KraneShares SSE STAR Market 50 Index ETF	67.88
5	KGRN	KraneShares MSCI China Clean Technology Index ETF	66.23
5	KWEB	KraneShares CSI China Internet ETF	65.73
5	CNRG	SPDR S&P Kensho Clean Power ETF	65.60
5	ICLN	iShares Global Clean Energy ETF	64.48
ò	EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	62.94
ò	FAN	First Trust Global Wind Energy ETF	62.63
ò	EVX	VanEck Environmental Services ETF	62.25
5	LIT	Global X Lithium & Battery Tech ETF	61.44

Thematic Most Oversold

	Ticker	Fund	
%	POTX	Global X Cannabis ETF	36.19
%	YOLO	AdvisorShares Pure Cannabis ETF	36.23
%	CNBS	Amplify Seymour Cannabis ETF	37.49
%	вксн	Global X Blockchain ETF	38.14
%	MJ	ETFMG Alternative Harvest ETF	39.46
%	BITQ	Bitwise Crypto Industry Innovators ETF	39.73
%	BLOK	Amplify Transformational Data Sharing ETF	42.48
%	MSOS	AdvisorShares Pure US Cannabis ETF	43.81
%	IDNA	iShares Genomics Immunology and Healthcare ETF Geno	47.34
%	BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	47.78

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

5.00%

© ETF Action. Inc. 2022



Global Thematic Flows

Thematic 1 Week Flow Leaders

Ticker	Fund	
KWEB	KraneShares CSI China Internet ETF	\$83M
TAN	Invesco Solar ETF	\$43M
ARKG	ARK Genomic Revolution ETF	\$16M
XITK	SPDR FactSet Innovative Technology ETF	\$12M
CNRG	SPDR S&P Kensho Clean Power ETF	\$10M
WCLD	WisdomTree Cloud Computing Fund	\$9M
ARKW	ARK Next Generation Internet ETF	\$6M
BUG	Global X Cybersecurity ETF	\$6M
REMX	VanEck Rare Earth/Strategic Metals ETF	\$5M
ARKF	ARK Fintech Innovation ETF	\$5M

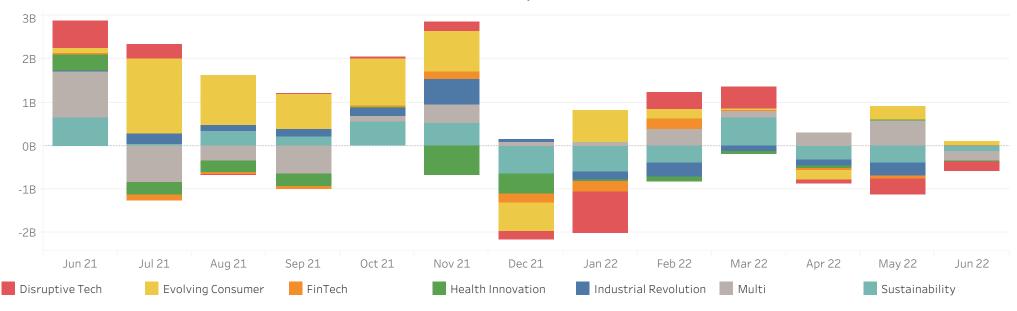
Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	35	\$20B	(\$360M)	(\$618M)	(\$910M)	\$283M
Evolving Consumer	48	\$12B	\$67M	\$622M	\$459M	\$6,314M
FinTech	24	\$4B	(\$4M)	(\$68M)	(\$252M)	(\$281M)
Health Innovation	19	\$4B	\$3M	\$19M	(\$700M)	(\$1,823M)
Industrial Revolution	32	\$13B	(\$28M)	(\$601M)	(\$1,060M)	\$348M
Multi	42	\$16B	(\$64M)	\$438M	\$1,412M	\$1,137M
Sustainability	41	\$19B	\$5M	(\$525M)	(\$1,568M)	\$404M
Grand Total	241	\$87B	(\$380M)	(\$734M)	(\$2,618M)	\$6,382M

Thematic Landscape Assets & Flows

Thematic 1 Week Flow Laggards

Ticker Fund NXTG First Trust Indxx NextG ETF (\$153M) (\$133M) ARKK ARK Innovation ETF ACES ALPS Clean Energy ETF (\$35M) KOMP SPDR S&P Kensho New Economies Composite ETF (\$35M) (\$30M) ICLN iShares Global Clean Energy ETF First Trust Cloud Computing ETF (\$25M) SKYY PBW Invesco WilderHill Clean Energy ETF (\$22M) CIBR First Trust NASDAQ Cybersecurity ETF (\$22M) Global X Lithium & Battery Tech ETF LIT (\$20M) CLOU Global X Cloud Computing ETF (\$14M)

Thematic Monthly Flows



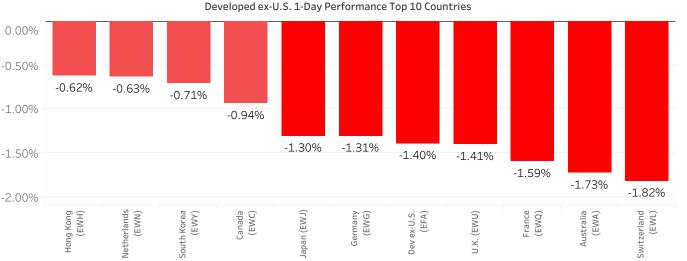
* ETF Landscape represented using the ETF Action classification system**Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify ***Flows delayed one day



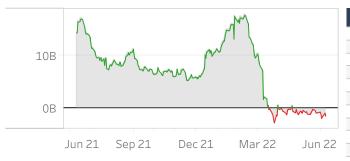
Developed Markets ex-U.S. Performance

Developed ex-U.S. (EFA)





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

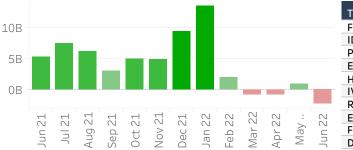


Developed ex-U.S. Monthly Flows

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

Ticker	Fund	
AIA	iShares Asia 50 ETF	2.00%
AAXJ	iShares MSCI All Country Asia ex Japan ETF	0.82%
ISDX	Invesco RAFI Strategic Developed ex-US ETF	0.13%
EWS	iShares MSCI Singapore ETF	-0.05%
PTIN	Pacer Trendpilot International ETF	-0.05%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	-0.10%
HEWJ	iShares Currency Hedged MSCI Japan ETF	-0.10%
CIL	VictoryShares International Volatility Wtd ETF	-0.18%
DXJ	WisdomTree Japan Hedged Equity Fund	-0.30%
HSCZ	iShares Currency Hedged MSCI EAFE Small-Cap ETF	-0.60%

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



Ticker Fund FDD First Trust Stoxx European Select Dividend Index Fund -2.15% IDV iShares International Select Dividend ETF -1.97% -1.84% PBDM Invesco PureBeta FTSE Developed ex-North America ETF EWL iShares MSCI Switzerland ETF -1.82% -1.81% HEDJ WisdomTree Europe Hedged Equity Fund IVAL -1.80% Alpha Architect International Quantitative Value ETF -1.80% RFDI First Trust Riverfront Dynamic Developed International E. -1.73% iShares MSCI Australia ETF EWA -1.72% FKU First Trust United Kingdom AlphaDEX Fund DOL -1.69% WisdomTree International LargeCap Dividend Fund

Developed ex-U.S. Most Overbought

	Ticker	Fund	
5	DXJ	WisdomTree Japan Hedged Equity Fund	65.55
ó	IVAL	Alpha Architect International Quantitative Value ETF	64.12
5	EWH	iShares MSCI Hong Kong ETF	62.87
5	DBJP	Xtrackers MSCI Japan Hedged Equity ETF	62.57
ò	HEWJ	iShares Currency Hedged MSCI Japan ETF	62.32
Ś	ICOW	Pacer Developed Markets International Cash Cows 100 ETF	61.93
5	EWO	iShares MSCI Austria ETF	61.85
5	FYLD	Cambria Foreign Shareholder Yield ETF	61.80
ò	DFIV	Dimensional International Value ETF	61.61
Ś	IDOG	ALPS International Sector Dividend Dogs ETF	61.38

Developed ex-U.S. Most Oversold

Ticker	Fund	
PTIN	Pacer Trendpilot International ETF	39.51
FLSW	Franklin FTSE Switzerland ETF	44.26
EWL	iShares MSCI Switzerland ETF	44.83
WPS	iShares International Developed Property ETF	44.91
EFAD	ProShares MSCI EAFE Dividend Growers ETF	45.54
EFAV	iShares MSCI EAFE Min Vol Factor ETF	45.91
ENZL	iShares MSCI New Zealand ETF	47.33
QEFA	SPDR MSCI EAFE StrategicFactors ETF	47.76
EFAX	SPDR MSCI EAFE Fossil Fuel Free ETF	48.12
QLVD	FlexShares Developed Markets ex-US Quality Low V	48.19

* 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 Markets Performance

June 8, 2022

65.65

65.39

64.94

64.67

64.49

64.32

64.26

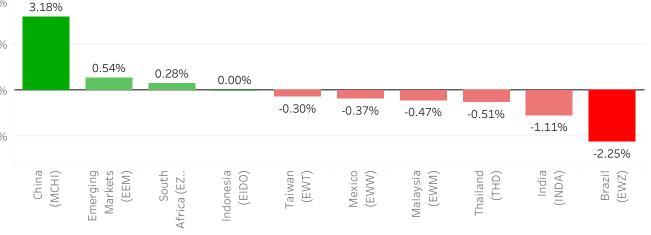
63.61

62.96

62.70

Emerging (EEM)





Ticker Fund

CXSE

PGJ

FNI

FXI

FLCH

MCHI

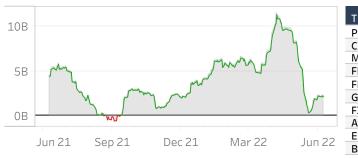
CNYA

GXC

KBA

ECH

Emerging 30-Day Rolling Flows



Emerging Monthly Flows

Feb 22 Mar 22 Apr 22 May 22 Jun 22

6B

4B

2B 0B

Jun 21

Aug 21

Jul 21

Sep 21 Oct 21 Nov 21 Dec 21 Jan 22 Emerging 1-Day Performance Leaders

Ticker	Fund	
PGJ	Invesco Golden Dragon China ETF	5.93%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	3.41%
мсні	iShares MSCI China ETF	3.18%
FNI	First Trust Chindia ETF	3.14%
FLCH	Franklin FTSE China ETF	3.01%
GXC	SPDR S&P China ETF	2.78%
FXI	iShares China Large-Cap ETF	2.74%
ADRE	Invesco BLDRS Emerging Markets 50 ADR Index Fund	2.41%
ECNS	iShares MSCI China Small-Cap ETF	1.28%
BKF	iShares MSCI BIC ETF	1.23%

SMSCIBICEIF

Emerging 1-Day Performance Laggards

Ticker	Fund	
TUR	iShares MSCI Turkey ETF	-5.95%
EPOL	iShares MSCI Poland ETF	-2.31%
EWZ	iShares MSCI Brazil ETF	-2.25%
FEMS	First Trust Emerging Markets Small Cap AlphaDEX Fund	-2.10%
ILF	iShares Latin America 40 ETF	-2.08%
FLBR	Franklin FTSE Brazil ETF	-2.02%
SDEM	Global X MSCI SuperDividend Emerging Markets ETF	-1.46%
QAT	iShares MSCI Qatar ETF	-1.36%
DVYE	iShares Emerging Markets Dividend ETF	-1.19%
DEM	WisdomTree Emerging Markets High Dividend Fund	-1.18%

Emerging Most Oversold

Ticker	Fund	
EWM	iShares MSCI Malaysia ETF	36.76
EWZS	iShares MSCI Brazil Small-Cap ETF	42.13
GLIN	VanEck India Growth Leaders ETF	42.48
KSA	iShares MSCI Saudi Arabia ETF	42.88
FM	iShares MSCI Frontier and Select EM ETF	43.09
EDIV	SPDR S&P Emerging Markets Dividend ETF	43.22
VNM	VanEck Vietnam ETF	44.74
SMIN	iShares MSCI India Small Cap ETF	44.91
QAT	iShares MSCI Qatar ETF	44.94
EPHE	iShares MSCI Philippines ETF	46.08

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

(

© ETF Action, Inc. 2022

Emerging 1-Day Performance Top 10 Countries

Emerging Most Overbought

WisdomTree China ex-State-Owned Enterprises Fund

KraneShares Bosera MSCI China A 50 Connect Index E.

Invesco Golden Dragon China ETF

First Trust Chindia ETF

Franklin FTSE China ETF

iShares MSCI China ETF

iShares MSCI China A ETF

iShares MSCI Chile ETF

SPDR S&P China ETF

iShares China Large-Cap ETF

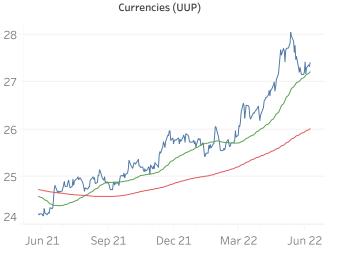


Commodities (DJP)

Fixed Income (AGG)







Fixed Income Performance

Commodities Performance

Ticker Name 1 Month YTD Ticker Name 1 Day 1 Month YTD Ticker Name 1 Month 1 Day 1 Day -0.51% 4.78% 42.82% DJP Broad Commodities -0.41% 0.76% -9.73% AGG U.S. Aggregate 1.27% 12.45% 77.17% 0.29% -1.08% 6.94% DBE Energy UUP Long Dollar 2.17% 12.01% 69.22% US0 WTI Crude Oil -0.07% -2.79% SHY 1-3 Year Treasury Bonds 0.17% 2.54% 11.97% 73.55% BNO Brent Crude Oil IEF 7-10 Year Treasury Bonds -0.37% 0.85% -10.97% UNG Natural Gas -7.28% 6.25% 135.47% -0.22% 1.18% -7.02% UDN Short Dollar 1.24% 15.97% 91.82% UGA Gasoline -22.41% 0.56% 20+ Year Treasury Bonds -0.89% TLT DBP Precious Metals -0.13% -1.60% -0.90% -0.09% -1.50% GLD Gold 1.06% 0.03% 1.48% -6.26% FXE Euro -6.15% TIP **TIPS Bonds** -0.25% 0.61% -0.83% -1.50% -5.39% SLV Silver PPLT abrdn Physical Platin. -0.45% 4.95% 4.32% -0.06% -0.49% -0.66% FLOT Floating Rate Bonds PALL abrdn Physical Palla. -2.16% -4.59% 2.25% FXB British Pound Sterling -0.47% 1.56% -7.39% -0.58% 1.63% -14.31% DBB Base Metals 0.39% 1.68% 3.32% LQD Investment Grade Corporate -0.54% 4.19% -1.40% CPER Copper HYG High Yield Corporate -0.86% 0.35% -9.14% LD 0.75% -0.57% -2.08% Lead -0.62% 0.90% -7.29% FXF Swiss Franc -3.20% -3.26% 40.21% Nickel JJN -2.76% -0.38% -0.41% BKLN Senior Loan JJU 1.06% -0.56% 0.16% Aluminum JJT Tin 3.57% -6.49% -2.93% -0.72% 4.21% -11.20% PFF Preferred & Income Securities -1.22% -2.86% -14.47% FXY Japanese Yen 0.32% 1.56% 12.30% DBA Agriculture -0.07% -1.49% 32.31% CORN Corn -0.31% 1.63% -6.97% MUB Municipal Bonds 1.54% 4.72% 27.87% SOYB Soybeans Canadian Dollar -0.18% 2.62% 0.54% -0.47% 0.91% -8.34% 0.00% 0.64% 49.80% FXC WEAT Wheat MBB MBS 0.21% 1.36% 5.33% CANE Sugar -16.42% -0.99% 0.48% EMB Dollar Denominated EM Bonds -4.45% 0.51% 28.28% BAL Cotton -1.96% -0.66% -7.04% FXA Australian Dollar -0.59% 1.54% -1.12% NIB Cocoa -0.85% 0.87% -10.99% LEMB Local Currency EM Bond JO -0.28% 10.77% 3.35% Coffee

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

© ETF Action, Inc. 2022

Currencies Performance

Definitions & Disclosures

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 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