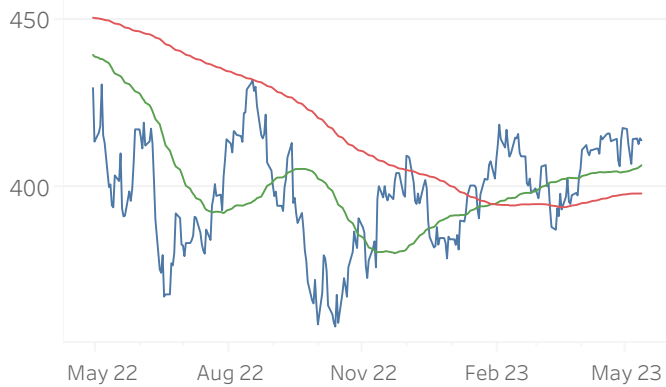


Large Cap Blend (S&P 500) IVV



Mid Cap Blend (S&P 400) IJH

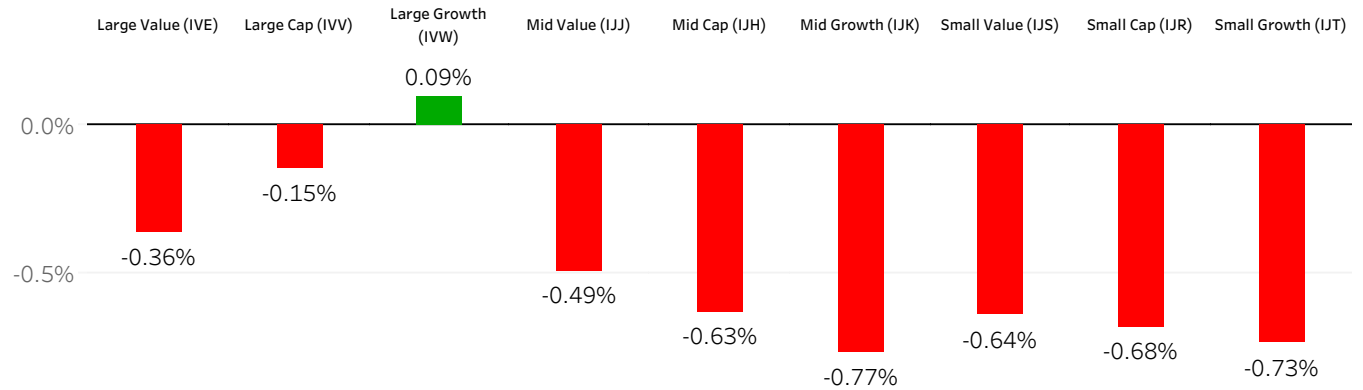


Small Cap Blend (S&P 600) IJR



■ Closing Price ■ 50 Day Moving Average ■ 200 Day Moving Average

U.S. Size & Style 1-Day Performance



Size & Style 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
LCG	Sterling Capital Focus Equity ETF	0.47%
RFV	Invesco S&P Midcap 400 Pure Value ETF	0.40%
WINN	Harbor Long-Term Growers ETF	0.39%
QQQM	Invesco NASDAQ 100 ETF	0.34%
QQQ	Invesco QQQ Trust	0.33%
JEPQ	J.P. Morgan Nasdaq Equity Premium Income ETF	0.31%
MFUS	PIMCO RAFI Dynamic Multi-Factor U.S. Equity ETF	0.29%
QQH	HCM Defender 100 Index ETF	0.26%
SCHG	Schwab U.S. Large-Cap Growth ETF	0.22%
TMFC	Motley Fool 100 Index ETF	0.21%

Size & Style Most Overbought

Ticker	Fund	Value
SPC	CrossingBridge Pre-Merger SPAC ETF	70.93
WINN	Harbor Long-Term Growers ETF	66.56
MGK	Vanguard Mega Cap Growth ETF	64.65
TMFC	Motley Fool 100 Index ETF	64.21
IWY	iShares Russell Top 200 Growth ETF	63.96
IPO	Renaissance IPO ETF	63.88
JEPQ	J.P. Morgan Nasdaq Equity Premium Income ETF	63.88
SCHG	Schwab U.S. Large-Cap Growth ETF	63.50
LCG	Sterling Capital Focus Equity ETF	63.13
QQQM	Invesco NASDAQ 100 ETF	62.72

Size & Style 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
WBIY	WBI Power Factor High Dividend ETF	-1.31%
QVAL	Alpha Architect US Quantitative Value ETF	-1.26%
RDIV	Invesco S&P Ultra Dividend Revenue ETF	-1.24%
FPX	First Trust US Equity Opportunities ETF	-1.10%
CSML	IQ Chaikin U.S. Small Cap ETF	-1.05%
SPYD	SPDR Portfolio S&P 500 High Dividend ETF	-1.04%
REGL	ProShares S&P MidCap 400 Dividend Aristocrats ETF	-1.03%
XSLV	Invesco S&P SmallCap Low Volatility ETF	-1.00%
VTWG	Vanguard Russell 2000 Growth ETF	-1.00%
DVY	iShares Select Dividend ETF	-0.98%

Size & Style Most Oversold

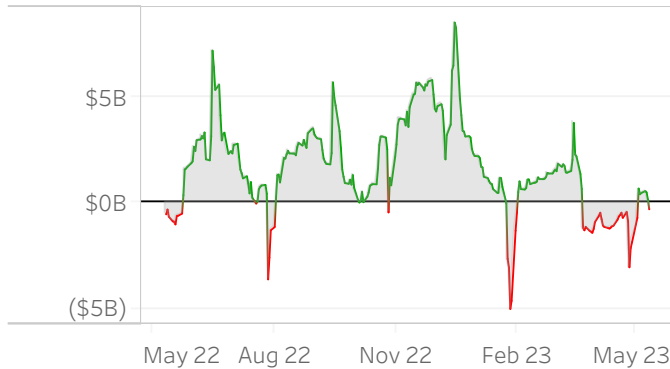
Ticker	Fund	Value
XSLV	Invesco S&P SmallCap Low Volatility ETF	30.98
RDIV	Invesco S&P Ultra Dividend Revenue ETF	31.99
CDC	VictoryShares US EQ Income Enhanced Volatility Wt..	33.41
DHS	WisdomTree U.S. High Dividend Fund	33.71
DIV	Global X SuperDividend US ETF	33.81
WBIY	WBI Power Factor High Dividend ETF	34.07
CSB	VictoryShares US Small Cap High Dividend Volatility ..	34.09
FDL	First Trust Morningstar Dividend Leaders Index Fund	34.45
SVAL	iShares US Small Cap Value Factor ETF	34.87
PEY	Invesco High Yield Equity Dividend Achievers ETF	35.20

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

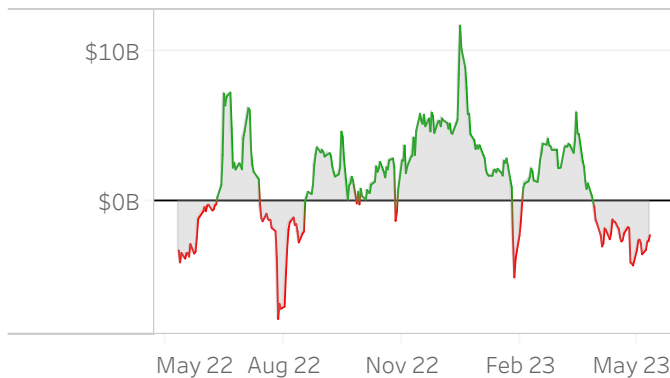
Large-Cap 30-Day Rolling Flows



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, Beta	26	\$1,298B	\$4.81B	\$8.62B	(\$7.03B)	\$69.25B
Large Cap, Beta, Beta: Growth	10	\$250B	(\$0.08B)	\$2.96B	\$6.73B	\$20.67B
Large Cap, Beta, Beta: Value	11	\$216B	(\$0.36B)	(\$4.94B)	(\$5.56B)	\$1.93B
Mid Cap, Beta, Beta	10	\$180B	(\$0.54B)	(\$0.75B)	\$2.60B	\$8.94B
Mid Cap, Beta, Beta: Growth	6	\$33B	\$0.02B	\$0.35B	(\$0.05B)	\$1.38B
Mid Cap, Beta, Beta: Value	6	\$38B	(\$0.09B)	(\$0.97B)	(\$0.53B)	\$1.12B
Small Cap, Beta, Beta	13	\$182B	(\$0.35B)	(\$3.37B)	(\$1.00B)	\$0.92B
Small Cap, Beta, Beta: Growth	7	\$31B	(\$0.04B)	(\$0.22B)	\$0.14B	\$1.03B
Small Cap, Beta, Beta: Value	7	\$46B	(\$0.07B)	(\$1.06B)	(\$0.20B)	\$0.61B

U.S. Size & Style Flow Leaders

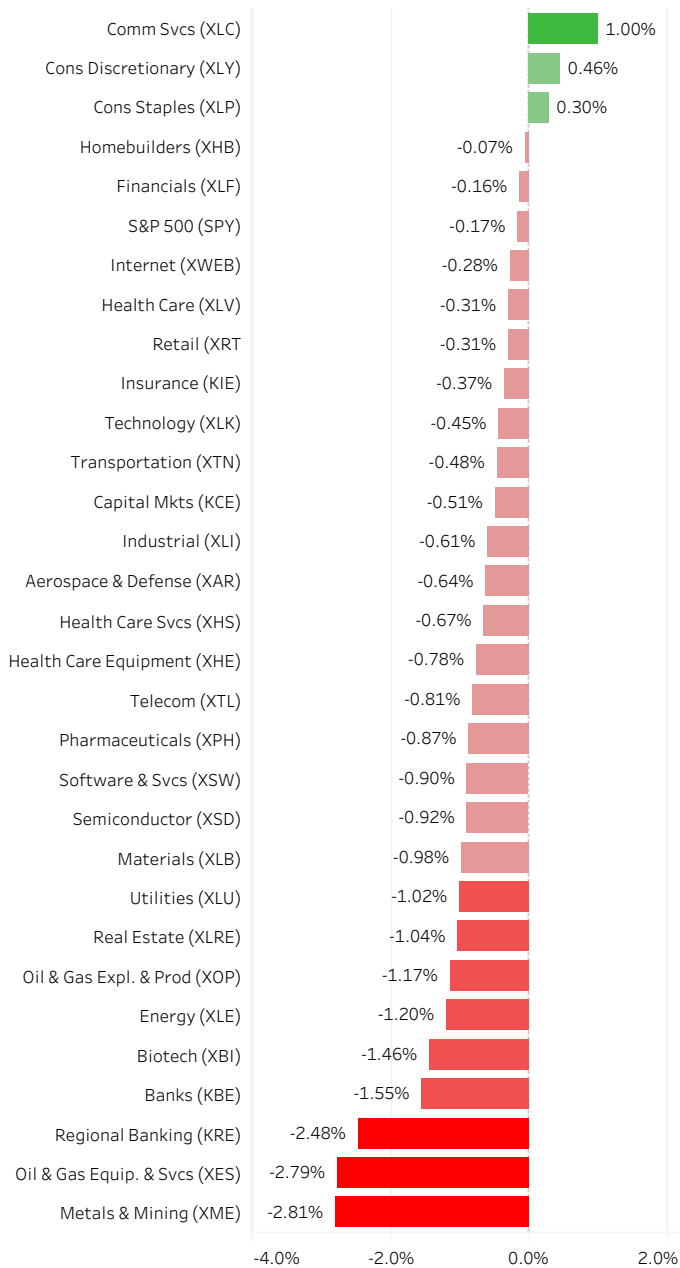
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
SPY	SPDR S&P 500 ETF Trust	\$5.25B	\$0.50B	(\$6.98B)	\$8.29B	\$382.03B
VTI	Vanguard Total Stock Market ETF	\$1.13B	\$3.11B	\$7.71B	\$20.33B	\$285.15B
QUAL	iShares MSCI USA Quality Factor ETF	\$0.14B	\$8.96B	\$8.64B	\$6.78B	\$28.50B
OMFL	Invesco Russell 1000 Dynamic Multifactor ETF	\$0.13B	\$1.13B	\$1.27B	\$1.51B	\$3.66B
JEPQ	J.P. Morgan Nasdaq Equity Premium Income ..	\$0.10B	\$0.94B	\$1.74B	\$2.44B	\$2.58B
LGLV	SPDR SSGA US Large Cap Low Volatility Index ..	\$0.09B	\$0.12B	\$0.15B	\$0.12B	\$0.79B
VOO	Vanguard S&P 500 ETF	\$0.09B	\$7.56B	\$6.37B	\$32.60B	\$291.52B
QQQM	Invesco NASDAQ 100 ETF	\$0.08B	\$1.69B	\$2.98B	\$4.99B	\$9.56B
DIA	SPDR Dow Jones Industrial Average ETF Trust	\$0.08B	(\$1.16B)	(\$2.32B)	(\$0.93B)	\$28.02B
DFUV	Dimensional US Marketwide Value ETF	\$0.08B	\$0.27B	\$0.46B	\$0.70B	\$8.22B

U.S. Size & Style Flow Laggards

Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
RSP	Invesco S&P 500 Equal Weight ETF	(\$0.73B)	(\$2.28B)	\$0.23B	\$1.96B	\$32.26B
IVV	iShares Core S&P 500 ETF	(\$0.46B)	(\$2.55B)	(\$4.22B)	\$15.48B	\$309.03B
IJH	iShares Core S&P Mid-Cap ETF	(\$0.40B)	\$0.26B	\$1.61B	\$4.73B	\$64.71B
IJR	iShares Core S&P Small Cap ETF	(\$0.37B)	(\$0.60B)	\$0.47B	\$2.33B	\$63.38B
RPV	Invesco S&P 500 Pure Value ETF	(\$0.30B)	(\$0.99B)	(\$0.97B)	(\$1.10B)	\$2.25B
VYM	Vanguard High Dividend Yield Index ETF	(\$0.28B)	\$0.12B	(\$0.05B)	\$4.96B	\$47.72B
VTI	Vanguard Value ETF	(\$0.22B)	(\$0.68B)	(\$0.93B)	\$3.44B	\$99.87B
QQQ	Invesco QQQ Trust	(\$0.12B)	\$1.94B	(\$5.67B)	(\$0.08B)	\$175.97B
VO	Vanguard Mid-Cap ETF	(\$0.11B)	(\$0.80B)	\$0.11B	\$1.97B	\$50.20B
VUG	Vanguard Growth ETF	(\$0.10B)	\$0.33B	\$2.52B	\$7.27B	\$82.75B

\* 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)
XLK	Technology Select Sector SPDR Fund	-0.45%	29.68%	3.28%	11.48%	57.37
XLP	Consumer Staples Select Sector SPDR Fund	-0.88%	15.52%	2.86%	4.45%	58.06
XLC	Communication Services Select Sector SPDR Fund	-2.10%	31.38%	4.50%	12.24%	59.03
SPY	SPDR S&P 500 ETF Trust	-4.09%	15.59%	1.84%	4.07%	53.71
XLI	Industrial Select Sector SPDR Fund	-5.07%	18.80%	-0.96%	1.22%	45.17
XLV	Health Care Select Sector SPDR Fund	-5.52%	10.41%	1.31%	0.91%	48.64
XLB	Materials Select Sector SPDR Fund	-11.53%	15.81%	-1.89%	-0.58%	40.53
XLU	Utilities Select Sector SPDR Fund	-12.12%	11.59%	1.24%	-1.25%	49.71
XLF	Financial Select Sector SPDR Fund	-13.43%	5.74%	-1.41%	-5.44%	43.68
XLY	Consumer Discretionary Select Sector SPDR Fund	-13.81%	18.08%	2.88%	2.26%	58.58
XLE	Energy Select Sector SPDR Fund	-16.67%	16.17%	-5.32%	-6.95%	35.38
XLRE	Real Estate Select Sector SPDR Fund	-19.06%	9.62%	0.29%	-3.68%	49.14

## Sector & Industry 1 Day Performance Leaders

Ticker	Fund	1 Day Performance
XLC	Communication Services Select Sector SPDR Fund	1.00%
FCOM	Fidelity MSCI Communication Services Index ETF	0.87%
VOX	Vanguard Communication Services ETF	0.86%
FTXG	First Trust Nasdaq Food & Beverage ETF	0.58%
FDN	First Trust Dow Jones Internet Index Fund	0.51%
PBJ	Invesco Dynamic Food & Beverage ETF	0.49%
VCR	Vanguard Consumer Discretionary ETF	0.47%
XLY	Consumer Discretionary Select Sector SPDR Fund	0.46%
FDIS	Fidelity MSCI Consumer Discretionary Index ETF	0.35%
IGM	iShares Expanded Tech Sector ETF	0.33%

## Sector & Industry Most Overbought

Ticker	Fund	RSI (14D)
ITB	iShares U.S. Home Construction ETF	65.65
PKB	Invesco Dynamic Building & Construction ETF	63.87
IYW	iShares U.S. Technology ETF	62.24
PBJ	Invesco Dynamic Food & Beverage ETF	62.21
XBI	SPDR S&P BIOTECH ETF	62.07
IGM	iShares Expanded Tech Sector ETF	61.96
XHB	SPDR S&P Homebuilders ETF	61.76
PNQI	Invesco NASDAQ Internet ETF	61.58
PTH	Invesco DWA Healthcare Momentum ETF	60.85
XNTK	SPDR NYSE Technology ETF	60.23

## Sector & Industry 1 Day Performance Laggards

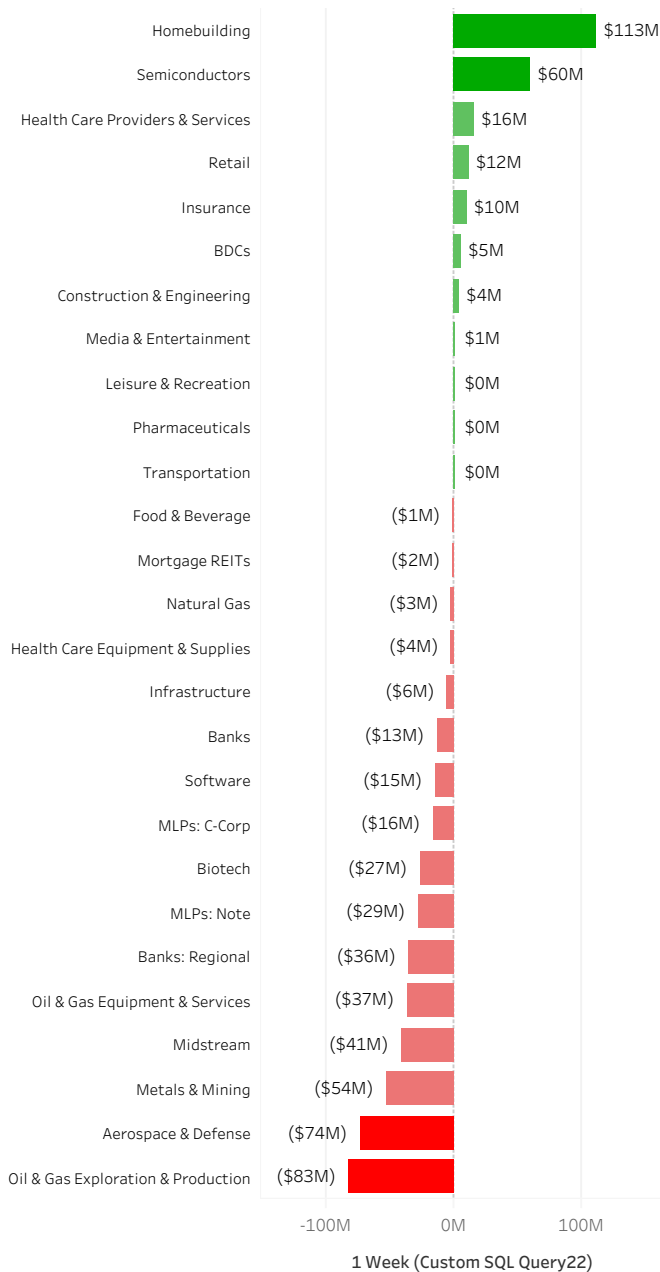
Ticker	Fund	1 Day Performance
IEZ	iShares U.S. Oil Equipment & Services ETF	-2.98%
XME	SPDR S&P Metals & Mining ETF	-2.81%
XES	SPDR S&P Oil & Gas Equipment & Services ETF	-2.79%
KRE	SPDR S&P Regional Banking ETF	-2.48%
KBWR	Invesco KBW Regional Banking ETF	-2.38%
QABA	First Trust NASDAQ ABA Community Bank Index Fund	-2.06%
PXI	Invesco DWA Energy Momentum ETF	-1.78%
PTF	Invesco DWA Technology Momentum ETF	-1.76%
IAT	iShares U.S. Regional Banks ETF	-1.75%
PSCE	Invesco S&P SmallCap Energy ETF	-1.62%

## Sector & Industry Most Oversold

Ticker	Fund	RSI (14D)
XTL	SPDR S&P Telecom ETF	26.84
QABA	First Trust NASDAQ ABA Community Bank Index Fund	27.57
KBWR	Invesco KBW Regional Banking ETF	31.11
KRE	SPDR S&P Regional Banking ETF	31.19
MLPA	Global X MLP ETF	32.33
IAT	iShares U.S. Regional Banks ETF	33.24
KBWB	Invesco KBW Bank ETF	33.34
KBE	SPDR S&P Bank ETF	33.57
IGN	iShares North American Tech-Multimedia Networking ETF	33.82
IEZ	iShares U.S. Oil Equipment & Services ETF	34.65

\* 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	7	\$15B	\$143M	\$1,494M	\$1,320M	\$1,545M
Consumer Discretionary	12	\$23B	(\$5M)	\$496M	\$88M	(\$1,110M)
Consumer Staples	10	\$32B	\$79M	\$1,879M	\$2,497M	\$4,244M
Energy	32	\$67B	(\$407M)	(\$4,525M)	(\$7,707M)	(\$10,067M)
Financials	26	\$52B	(\$569M)	(\$877M)	(\$585M)	(\$5,685M)
Health Care	23	\$93B	\$165M	(\$2,291M)	(\$2,658M)	\$2,342M
Industrial	13	\$31B	(\$133M)	\$31M	\$971M	(\$446M)
Materials	9	\$13B	(\$256M)	(\$561M)	\$334M	(\$2,581M)
Multi-Sector	19	\$14B	\$81M	\$494M	(\$127M)	(\$1,461M)
Real Estate	25	\$56B	(\$175M)	(\$2,921M)	(\$3,604M)	(\$6,012M)
Technology	23	\$132B	\$21M	\$100M	(\$311M)	\$1,020M
Utilities	9	\$26B	(\$44M)	\$274M	\$40M	\$2,252M

## U.S. Sector & Industry Flow Leaders

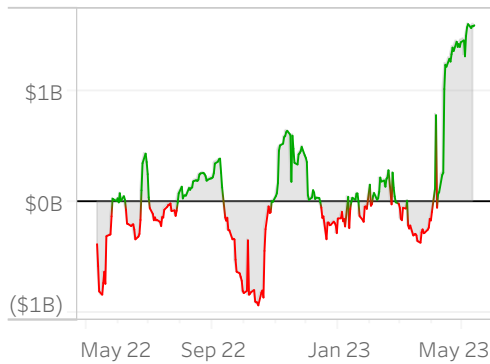
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLV	Health Care Select Sector SPDR Fund	\$286M	\$44M	\$84M	\$2,655M	\$40,545M
RYT	Invesco S&P 500 Equal Weight Technology ETF	\$275M	\$450M	\$653M	\$351M	\$2,740M
XLC	Communication Services Select Sector SPDR Fu..	\$205M	\$1,509M	\$1,371M	\$1,677M	\$11,449M
XLP	Consumer Staples Select Sector SPDR Fund	\$119M	\$1,552M	\$1,771M	\$2,555M	\$18,896M
XHB	SPDR S&P Homebuilders ETF	\$64M	\$27M	(\$117M)	(\$204M)	\$1,000M
SOXX	iShares Semiconductor ETF	\$62M	\$193M	\$206M	(\$150M)	\$7,384M
ITB	iShares U.S. Home Construction ETF	\$49M	\$268M	\$324M	\$83M	\$1,927M
XLRE	Real Estate Select Sector SPDR Fund	\$34M	(\$581M)	(\$511M)	(\$350M)	\$4,439M
PSI	Invesco Dynamic Semiconductors ETF	\$25M	\$4M	\$11M	(\$74M)	\$535M
IYW	iShares U.S. Technology ETF	\$23M	\$720M	\$789M	\$2,541M	\$10,764M

## U.S. Sector & Industry Flow Laggards

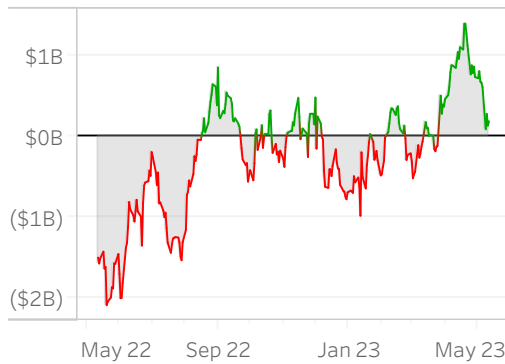
Ticker	Fund	1 Week	3 Month	6 Month	1 Year	AUM
XLF	Financial Select Sector SPDR Fund	(\$398M)	(\$248M)	\$263M	(\$2,846M)	\$29,641M
XLK	Technology Select Sector SPDR Fund	(\$269M)	(\$1,593M)	(\$2,122M)	(\$1,628M)	\$43,518M
XLB	Materials Select Sector SPDR Fund	(\$122M)	(\$64M)	\$246M	(\$938M)	\$5,568M
XLE	Energy Select Sector SPDR Fund	(\$116M)	(\$1,347M)	(\$2,415M)	(\$3,156M)	\$35,255M
VHT	Vanguard Health Care ETF	(\$105M)	(\$73M)	(\$81M)	\$1,034M	\$17,075M
XOP	SPDR S&P Oil & Gas Exploration & Production E..	(\$83M)	(\$125M)	(\$943M)	(\$1,334M)	\$3,198M
IYR	iShares U.S. Real Estate ETF	(\$64M)	(\$567M)	(\$673M)	(\$1,207M)	\$2,828M
VDC	Vanguard Consumer Staples ETF	(\$60M)	(\$54M)	\$53M	\$181M	\$6,933M
SCHH	Schwab U.S. REIT ETF	(\$59M)	\$142M	\$227M	\$319M	\$5,748M
VNQ	Vanguard Real Estate ETF	(\$57M)	(\$1,075M)	(\$1,712M)	(\$3,372M)	\$32,381M

\* 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



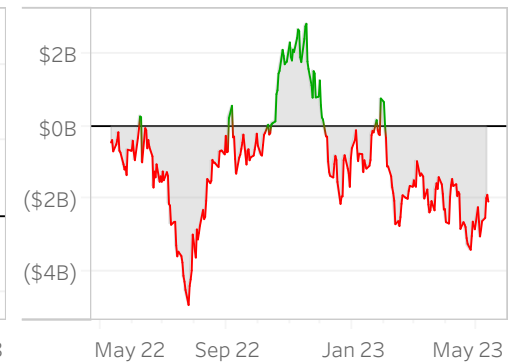
Consumer Discretionary



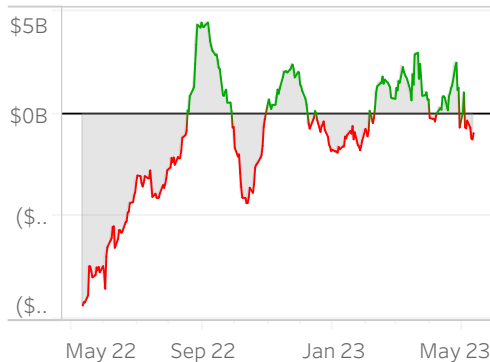
Consumer Staples



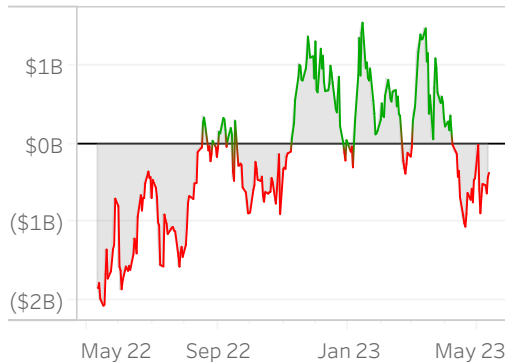
Energy



Financials



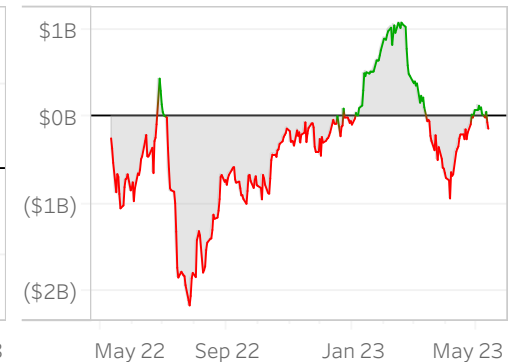
Industrial



Health Care



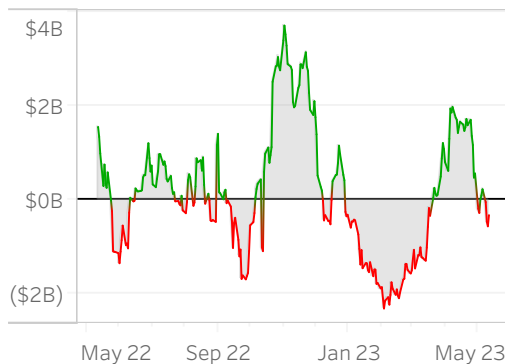
Materials



Real Estate



Technology



Utilities

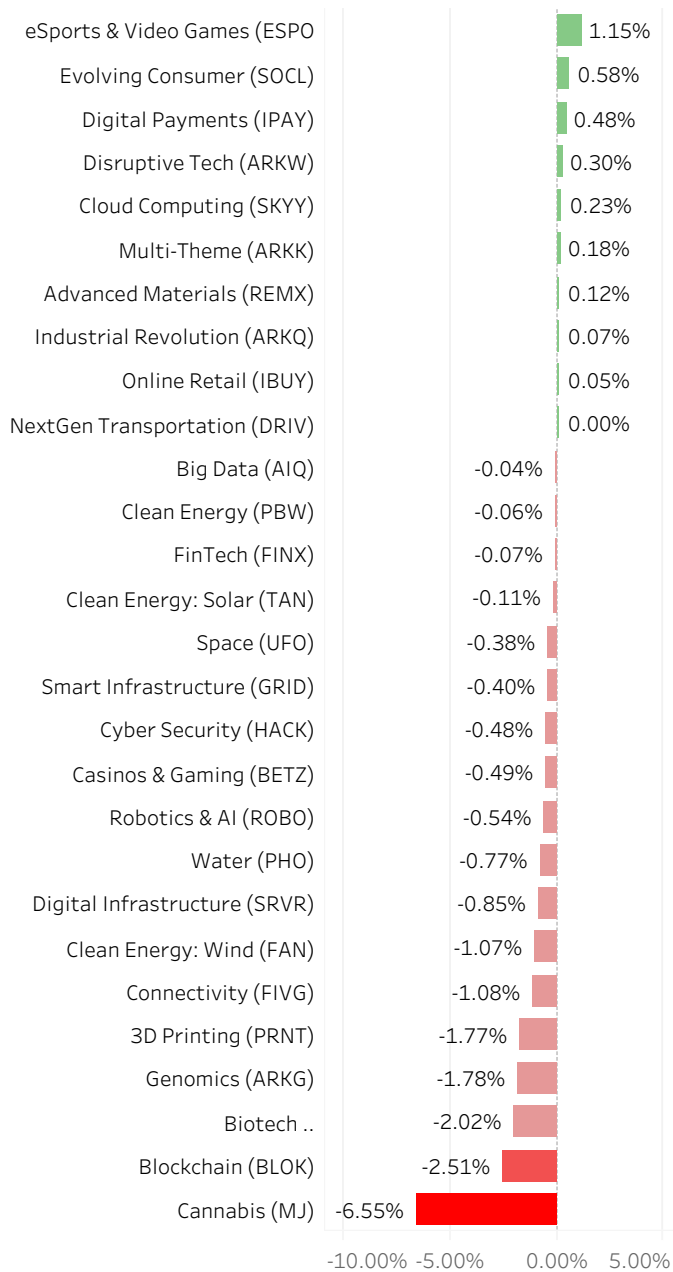


Multi-Sector

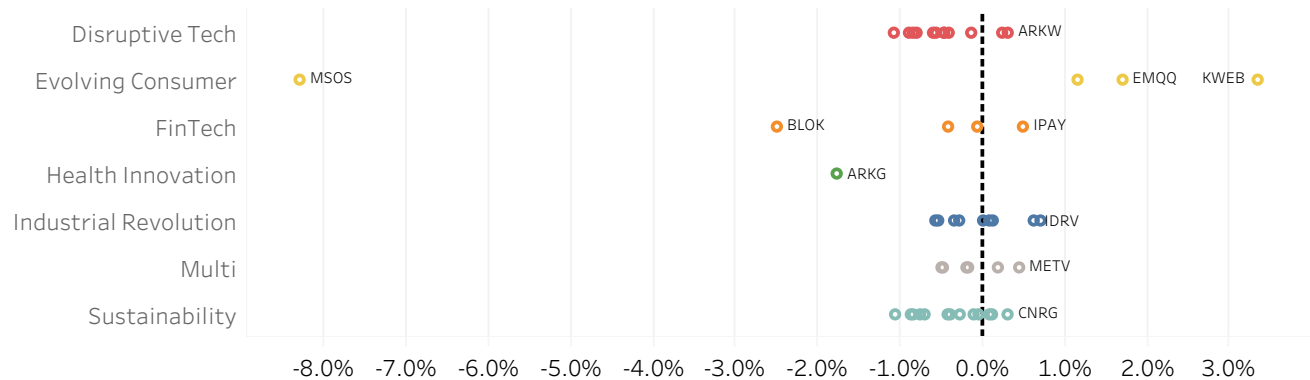


\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

## Global Thematic Segment 1-Day Performance



## Global Thematic 1-Day Performance Landscape



## Global Thematic 1-Day Performance Leaders

Ticker	Fund	1-Day Performance
KWEB	KraneShares CSI China Internet ETF	3.34%
IZRL	ARK Israel Innovative Technology ETF	1.97%
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	1.70%
KGRN	KraneShares MSCI China Clean Technology Index ETF	1.64%
ONLN	ProShares Online Retail ETF	1.22%
ESPO	VanEck Video Gaming and eSports ETF	1.15%
HERO	Global X Video Games & Esports ETF	0.84%
GAMR	Wedbush ETFMG Video Game Tech ETF Wedbush ETFMG ..	0.77%
LIT	Global X Lithium & Battery Tech ETF	0.70%
IDRV	iShares Self-driving EV & Tech ETF	0.62%

## Thematic Most Overbought

Ticker	Fund	Price
EVX	VanEck Environmental Services ETF	67.01
REMX	VanEck Rare Earth/Strategic Metals ETF	63.97
SBIO	ALPS Medical Breakthroughs ETF	63.92
IZRL	ARK Israel Innovative Technology ETF	62.95
TIME	Clockwise Capital Innovation ETF	62.17
AGNG	Global X Aging Population ETF	60.73
ONLN	ProShares Online Retail ETF	60.47
BTEC	Principal Healthcare Innovators ETF	60.46
BOTZ	Global X Robotics & Artificial Intelligence ETF	60.37
BETZ	Roundhill Sports Betting & iGaming ETF	59.88

## Global Thematic 1-Day Performance Laggards

Ticker	Fund	1-Day Performance
MSOS	AdvisorShares Pure US Cannabis ETF	-8.30%
BKCH	Global X Blockchain ETF	-7.03%
BITQ	Bitwise Crypto Industry Innovators ETF	-6.83%
MJ	ETFMG Alternative Harvest ETF	-6.55%
MJUS	ETFMG U.S. Alternative Harvest ETF	-6.49%
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	-2.52%
BLOK	Amplify Transformational Data Sharing ETF	-2.51%
SBIO	ALPS Medical Breakthroughs ETF	-2.02%
ARKG	ARK Genomic Revolution ETF	-1.78%
PRNT	3D Printing ETF	-1.77%

## Thematic Most Oversold

Ticker	Fund	Price
CTEC	Global X CleanTech ETF	39.04
TAN	Invesco Solar ETF	39.45
FIVG	Defiance Next Gen Connectivity ETF	40.23
AWAY	ETFMG Travel Tech ETF	40.60
ICLN	iShares Global Clean Energy ETF	41.22
PBD	Invesco Global Clean Energy ETF	42.50
SNSR	Global X Internet of Things ETF	42.85
MSOS	AdvisorShares Pure US Cannabis ETF	42.88
ACES	ALPS Clean Energy ETF	43.59
MJ	ETFMG Alternative Harvest ETF	43.84

\* 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
ARKK	ARK Innovation ETF	\$88M
PHO	Invesco Water Resources ETF	\$37M
BUG	Global X Cybersecurity ETF	\$26M
BOTZ	Global X Robotics & Artificial Intelligence ETF	\$16M
FIW	First Trust Water ETF	\$13M
ARKG	ARK Genomic Revolution ETF	\$9M
MSOS	AdvisorShares Pure US Cannabis ETF	\$8M
ACES	ALPS Clean Energy ETF	\$6M
ARKF	ARK Fintech Innovation ETF	\$5M
AIQ	Global X Artificial Intelligence & Technology ETF	\$3M

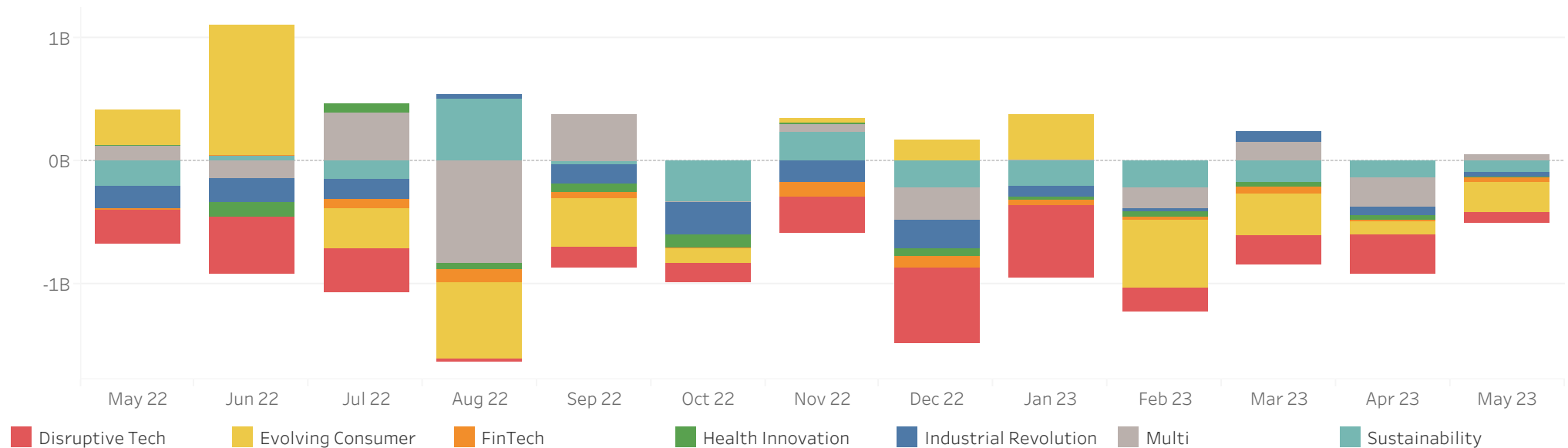
## Thematic 1 Week Flow Laggards

Ticker	Fund	Flow
KWEB	KraneShares CSI China Internet ETF	(\$53M)
ICLN	iShares Global Clean Energy ETF	(\$44M)
LIT	Global X Lithium & Battery Tech ETF	(\$23M)
TAN	Invesco Solar ETF	(\$16M)
PBW	Invesco WilderHill Clean Energy ETF	(\$15M)
DRIV	Global X Autonomous & Electric Vehicles ETF	(\$11M)
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	(\$9M)
EMQQ	EMQQ The Emerging Markets Internet & Ecommerce ETF	(\$7M)
FINX	Global X FinTech ETF	(\$7M)
ARKW	ARK Next Generation Internet ETF	(\$5M)

## Thematic Landscape Assets & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	34	\$15B	\$3M	(\$758M)	(\$2,230M)	(\$3,743M)
Evolving Consumer	44	\$8B	(\$6M)	(\$1,147M)	(\$669M)	(\$792M)
FinTech	18	\$3B	(\$7M)	(\$151M)	(\$313M)	(\$631M)
Health Innovation	18	\$3B	\$11M	(\$140M)	(\$230M)	(\$481M)
Industrial Revolution	31	\$11B	\$11M	(\$45M)	(\$474M)	(\$1,466M)
Multi	41	\$14B	\$67M	(\$53M)	(\$505M)	(\$467M)
Sustainability	40	\$16B	\$3M	(\$471M)	(\$725M)	(\$941M)
Grand Total	226	\$69B	\$82M	(\$2,765M)	(\$5,146M)	(\$8,521M)

## Thematic Monthly Flows

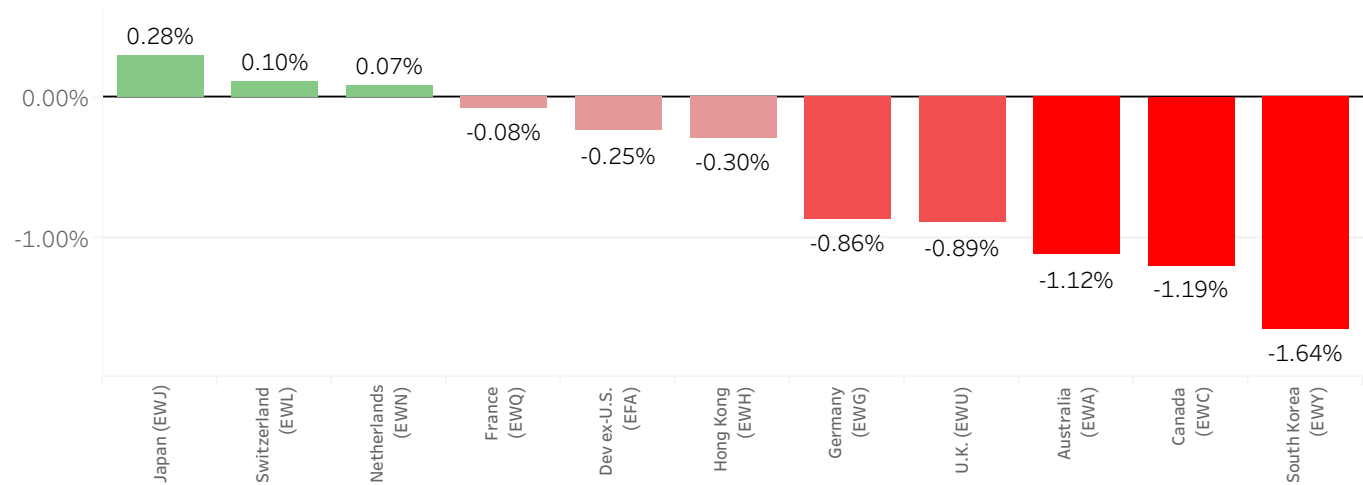


\* ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day

Developed ex-U.S. (EFA)



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



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



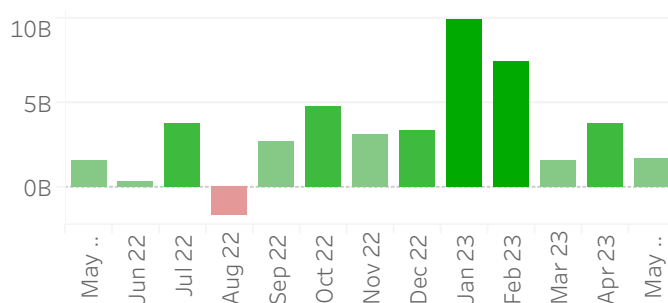
Developed ex-U.S. 1-Day Performance Leaders

Ticker	Fund	Performance
EIS	iShares MSCI Israel ETF	0.84%
IHDG	WisdomTree International Hedged Quality Dividend Growth ..	0.72%
HEWJ	iShares Currency Hedged MSCI Japan ETF	0.54%
HSCZ	iShares Currency Hedged MSCI EAFE Small-Cap ETF	0.44%
MINV	Matthews Asia Innovators Active ETF	0.42%
HEDJ	WisdomTree Europe Hedged Equity Fund	0.42%
DBJP	Xtrackers MSCI Japan Hedged Equity ETF	0.38%
EDEN	iShares MSCI Denmark ETF	0.33%
DBEU	Xtrackers MSCI Europe Hedged Equity ETF	0.32%
HEFA	iShares Currency Hedged MSCI EAFE ETF	0.30%

Developed ex-U.S. Most Overbought

Ticker	Fund	Value
EWL	iShares MSCI Switzerland ETF	65.36
FLSW	Franklin FTSE Switzerland ETF	63.96
BBJP	JPMorgan BetaBuilders Japan ETF	63.47
EWJV	iShares MSCI Japan Value ETF	63.25
EFAV	iShares MSCI EAFE Min Vol Factor ETF	63.11
FLJP	Franklin FTSE Japan ETF	62.66
EWJ	iShares MSCI Japan ETF	62.13
JPXN	iShares JPX-Nikkei 400 ETF	61.62
SCJ	iShares MSCI Japan Small-Cap ETF	61.59
DFJ	WisdomTree Japan SmallCap Dividend Fund	61.42

Developed ex-U.S. Monthly Flows



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

Ticker	Fund	Performance
EWY	iShares MSCI South Korea ETF	-1.64%
FLKR	Franklin FTSE South Korea ETF	-1.60%
IMOM	Alpha Architect International Quantitative Momentum ETF	-1.49%
NORW	Global X MSCI Norway ETF	-1.34%
DAX	Global X DAX Germany ETF	-1.23%
EWC	iShares MSCI Canada ETF	-1.19%
FIDI	Fidelity International High Dividend ETF	-1.19%
DISV	Dimensional International Small Cap Value ETF	-1.18%
ICOW	Pacer Developed Markets International Cash Cows 100 ETF	-1.15%
IDV	iShares International Select Dividend ETF	-1.14%

Developed ex-U.S. Most Oversold

Ticker	Fund	Value
EWH	iShares MSCI Hong Kong ETF	40.54
IMOM	Alpha Architect International Quantitative Moment..	41.39
PIZ	Invesco DWA Developed Markets Momentum ETF	42.50
FYLD	Cambria Foreign Shareholder Yield ETF	42.78
AIA	iShares Asia 50 ETF	43.54
ICOW	Pacer Developed Markets International Cash Cows 1..	44.00
NORW	Global X MSCI Norway ETF	44.08
IDV	iShares International Select Dividend ETF	44.17
EWY	iShares MSCI South Korea ETF	44.22
DTH	WisdomTree International High Dividend Fund	44.43

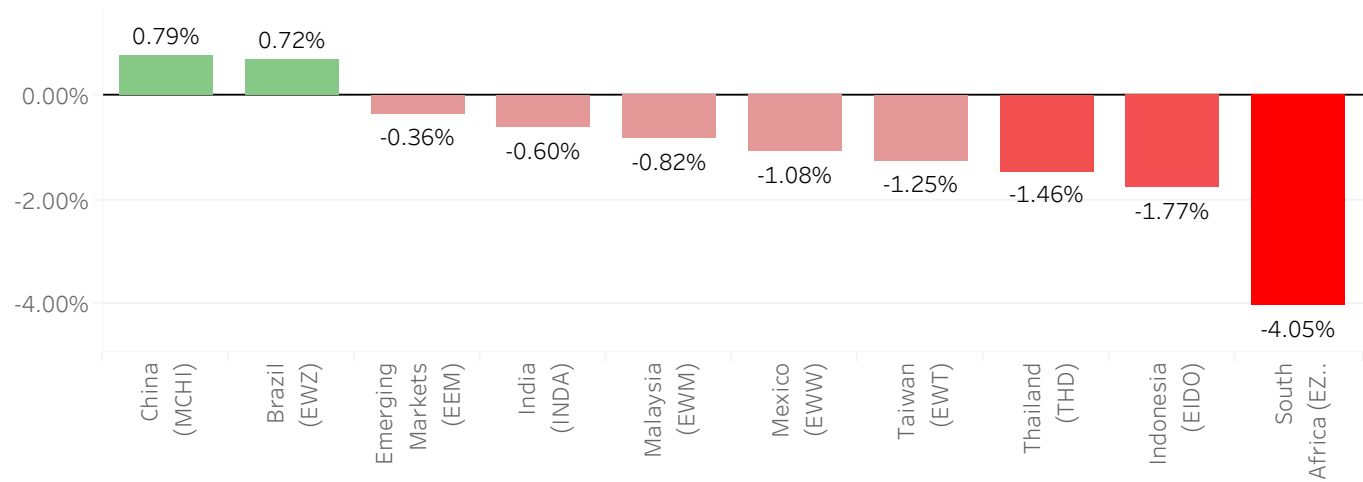
\*ETF Landscape represented using the ETF Action classification system\*\*Leaders/Laggards/Overbought/Oversold ETFs must have \$50 million to qualify \*\*\*Flows delayed one day



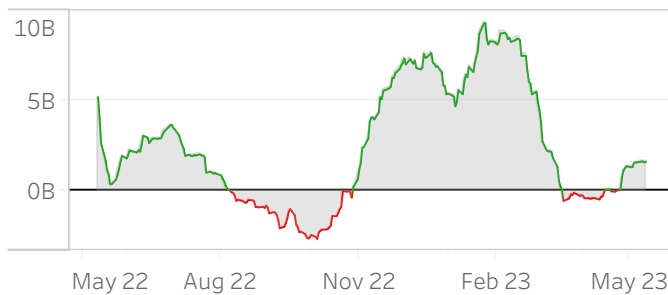
Emerging (EEM)



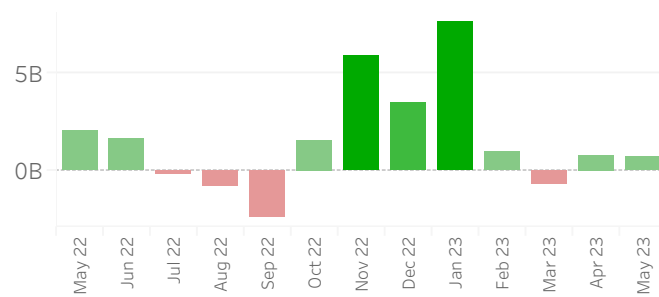
Emerging 1-Day Performance Top 10 Countries



Emerging 30-Day Rolling Flows



Emerging Monthly Flows



Emerging 1-Day Performance Leaders

Ticker	Fund	Performance
TUR	iShares MSCI Turkey ETF	9.36%
PGJ	Invesco Golden Dragon China ETF	3.55%
EWZS	iShares MSCI Brazil Small-Cap ETF	1.60%
CXSE	WisdomTree China ex-State-Owned Enterprises Fund	1.20%
FXI	iShares China Large-Cap ETF	1.06%
FLCH	Franklin FTSE China ETF	0.86%
FLBR	Franklin FTSE Brazil ETF	0.84%
ECH	iShares MSCI Chile ETF	0.80%
MCHI	iShares MSCI China ETF	0.79%
GXC	SPDR S&P China ETF	0.74%

Emerging Most Overbought

Ticker	Fund	Price
QAT	iShares MSCI Qatar ETF	70.52
SMIN	iShares MSCI India Small Cap ETF	70.49
FLIN	Franklin FTSE India ETF	69.33
EWZS	iShares MSCI Brazil Small-Cap ETF	68.52
INDA	iShares MSCI India ETF	66.98
FLLA	Franklin FTSE Latin America ETF	65.89
ECH	iShares MSCI Chile ETF	65.65
FLBR	Franklin FTSE Brazil ETF	64.94
PIN	Invesco India ETF	64.57
EWZ	iShares MSCI Brazil ETF	64.30

Emerging 1-Day Performance Laggards

Ticker	Fund	Performance
EZA	iShares MSCI South Africa ETF	-4.05%
EPOL	iShares MSCI Poland ETF	-1.78%
EIDO	iShares MSCI Indonesia ETF	-1.77%
NFTY	First Trust India NIFTY 50 Equal Weight ETF	-1.53%
EPU	iShares MSCI Peru and Global Exposure ETF	-1.48%
THD	iShares MSCI Thailand ETF	-1.46%
EYLD	Cambria Emerging Shareholder Yield ETF	-1.32%
FRDM	Freedom 100 Emerging Markets ETF	-1.27%
EWT	iShares MSCI Taiwan ETF	-1.25%
FLTW	Franklin FTSE Taiwan ETF	-1.19%

Emerging Most Oversold

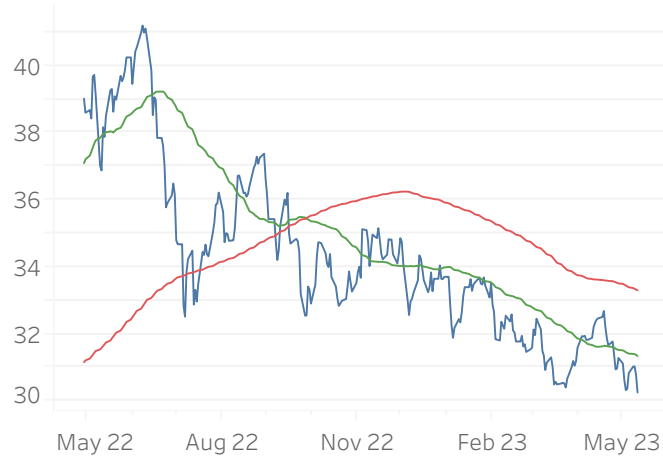
Ticker	Fund	Price
EZA	iShares MSCI South Africa ETF	29.41
RAYC	Rayliant Quantamental China Equity ETF	34.32
CNYA	iShares MSCI China A ETF	40.98
EWT	iShares MSCI Taiwan ETF	41.17
FLTW	Franklin FTSE Taiwan ETF	42.29
KBA	KraneShares Boser MSCI China A 50 Connect Index ..	42.64
ASHR	Xtrackers Harvest CSI 300 China A-Shares ETF	42.70
ECNS	iShares MSCI China Small-Cap ETF	42.81
EWM	iShares MSCI Malaysia ETF	43.07
KWT	iShares MSCI Kuwait ETF	43.25

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

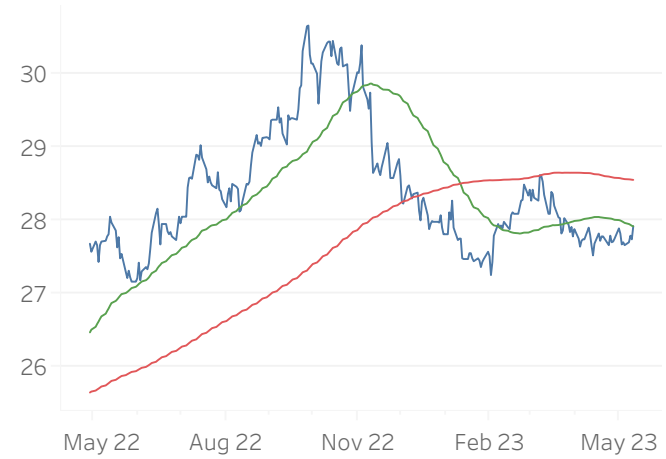
Fixed Income (AGG)



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%	0.39%	4.08%
SHY	1-3 Year Treasury Bonds	0.06%	0.55%	2.26%
IEF	7-10 Year Treasury Bonds	0.37%	0.87%	5.38%
TLT	20+ Year Treasury Bonds	1.06%	-1.47%	6.69%
TIP	TIPS Bonds	0.22%	-0.15%	3.83%
FLOT	Floating Rate Bonds	-0.08%	0.64%	2.04%
LQD	Investment Grade Corporate	0.39%	-0.39%	4.74%
HYG	High Yield Corporate	-0.16%	0.11%	3.46%
BKLN	Senior Loan	-0.19%	-0.13%	3.84%
PFF	Preferred & Income Securities	-0.57%	-4.40%	-0.41%
MUB	Municipal Bonds	0.07%	-0.57%	2.73%
MBB	MBS	0.36%	0.56%	3.71%
EMB	Dollar Denominated EM Bonds	0.32%	0.44%	3.03%
LEMB	Local Currency EM Bond	-0.52%	1.75%	5.24%

Commodities Performance

Ticker	Name	1 Day	1 Month	YTD
DJP	Broad Commodities	-1.69%	-6.05%	-10.23%
DBE	Energy	-1.39%	-9.41%	-14.47%
USO	WTI Crude Oil	-1.77%	-11.00%	-9.78%
BNO	Brent Crude Oil	-1.36%	-11.01%	-10.25%
UNG	Natural Gas	-0.16%	-9.49%	-54.68%
UGA	Gasoline	-1.13%	-11.84%	-4.72%
DBP	Precious Metals	-1.50%	-0.31%	8.08%
GLD	Gold	-0.86%	0.46%	10.31%
SLV	Silver	-4.76%	-3.65%	0.82%
PPLT	abrdn Physical Platin..	-2.02%	9.13%	1.83%
PALL	abrdn Physical Palla..	-3.56%	6.85%	-13.35%
DBB	Base Metals	-3.02%	-5.96%	-5.86%
CPER	Copper	-3.72%	-7.82%	-1.47%
LD	Lead	-1.22%	1.76%	-8.08%
JJN	Nickel	-2.97%	-7.51%	-26.72%
JJU	Aluminum	-2.63%	-4.35%	-8.56%
JJT	Tin	-2.13%	8.30%	2.70%
DBA	Agriculture	-1.19%	-0.29%	3.13%
CORN	Corn	-1.08%	-7.83%	-14.74%
SOYB	Soybeans	0.13%	-3.50%	-8.07%
WEAT	Wheat	-1.40%	-7.45%	-20.55%
CANE	Sugar	-2.06%	10.67%	44.70%
BAL	Cotton	-1.24%	-3.46%	-3.54%
NIB	Cocoa	-1.12%	4.11%	21.64%
JO	Coffee	-1.76%	-2.54%	11.77%

Currencies Performance

Ticker	Name	1 Day	1 Month	YTD
UUP	Long Dollar	0.65%	0.43%	0.40%
UDN	Short Dollar	-0.63%	0.16%	2.22%
FXE	Euro	-0.59%	0.17%	2.36%
FXB	British Pound Sterling	-0.93%	0.84%	4.38%
FXF	Swiss Franc	-0.56%	1.00%	3.23%
FXJ	Japanese Yen	-0.16%	-0.63%	-2.64%
FXC	Canadian Dollar	-0.71%	0.11%	1.13%
FXA	Australian Dollar	-1.11%	0.84%	-1.29%

\*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)