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UNDERSTANDING GREEN



Fixed Income Isn't Itself | Climate Change & Sector Risk | What Inflation Means For Bonds

Crypto ETFs Unpacked



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Coming Next Issue

Putting the focus on international investing

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Green Bonds Flourishing

A look at what green bonds are and what's driving their exponential growth

By Debbie Carlson

Fixed Income Needs Fixing?

With bonds behaving strangely, investors need to rethink the space

By Debbie Carlson

Defining ESG

The ESG concept is fairly wide ranging, but there are different types of funds under that umbrella

By Jessica Ferringer

Climate **Change & Sector Risk**

Climate change will likely impact financial markets and the economy more than we expect

By Dan Mika

Inflation's **Impact On Bonds**

How will inflationary forces affect an already unusual bond market?

By Sumit Roy

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The first bitcoin futures ETF rapidly gathered \$1 billion in assets

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A review of fund flows and trends around the energy sector and the broad U.S. market

Last Word 50

Fixed income and ESG are nearly eclipsing even bitcoin

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NEW FUNDS By Heather Bell

ETF Launches

Featured ETF

BITO

The first-ever bitcoin futures ETF was a blockbuster right out of the gate.

The first-ever bitcoin futures ETF made its debut on Oct. 19 with a bang. The **ProShares Bitcoin Strategy ETF (BITO)** offers actively managed exposure to bitcoin futures traded on the Chicago Mercantile Exchange. It comes with an expense ratio of 0.95%.

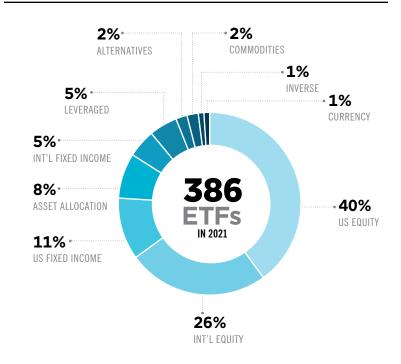
The fund invests primarily in front-month futures contracts and uses a wholly owned Cayman Islands subsidiary that can represent up to 25% of the fund's assets for this purpose. The remainder of the portfolio not held in bitcoin futures primarily consists of short-term cashlike instruments such as Treasury bills.

BITO closed its first day with roughly \$1 billion traded and was one of the most popular ETF launches ever. It ended its first trading session with roughly \$570 million in assets, putting it in the top 30% of ETFs by size, according to Bloomberg.

The arrival of BITO marks the culmination of eight years of filings and SEC rejections. Several firms have filed for futures-based or physical bitcoin ETFs, and approval on most of them is still pending.

Just one day after the ProShares fund's launch, bitcoin reached a new record high of \$64,863 despite its price being nearly cut in half earlier in the year.

Launch Allocation



BITO Quick View

ISSUER	SEGMENT	EXPENSE RATIO	STRUCTURE	INCEPTION
ProShares	Currency: Pair Long Bitcoin,	0.95%	Open-Ended Fund	10/19/2021

ETF Launch Activity

U.S. EQUITIES

AllianzIM US LrgCap 6 Mo Buffer10 Apr/Oct Alpha Dog Avantis US Large Cap Value ETRACS IFED Invest with the Fed ETN First Trust Multi-Manager SmCap Opps FlexShares ESG & Climate US Large Cap Core Fount Subscription Economy FT Choe Vest Buffered Allocation Defensive FT Choe Vest Buffered Allocation Growth FT Choe Vest Nasdaq-100 Buffer - September Hoya Capital High Dividend Yield Innovator Growth Accelerated Plus - Oct Innovator US Equity Accelerated 9 Buffer - Oct Innovator US Equity Accelerated - Oct Innovator US Equity Accelerated Plus - Oct Invesco ESG NASDAQ 100 Invesco ESG NASDAQ Next Gen 100 IQ Engender Equality Janus Henderson US Sustainable Equity JPMorgan Active Value Lyrical US Value Nuveen ESG Dividend Nuveen Growth Opportunities Pacer Swan SOS Conservative Oct Pacer Swan SOS Flex Oct

Pacer Swan SOS Moderate Oct Simplify Health Care VanEck Morningstar ESG Moat VictoryShares THB Mid Cap ESG WisdomTree Target Range

U.S. FIXED INCOME

FlexShares ESG & Climate HiYld Corp Core FlexShares ESG & Climate Inv Gr Corp Core FolioBevond Rising Rates Harbor Scientific Alpha High-Yield Invesco BulletShares 2031 Corporate Bond Invesco BulletShares 2029 High Yield Corp. Bond Invesco BulletShares 2031 Municipal Bond iShares USD Bond Factor Janus Henderson Sustainable Corporate Bond Janus Henderson Sustainable & Impact Core Bond KraneShares Quadratic Deflation PIMCO Muni Income Opportunities Active Simplify Risk Parity Treasury SPDR Loomis Sayles Opportunistic Bond T. Rowe Price QM U.S. Bond T. Rowe Price Total Return T. Rowe Price Ultra Short-Term Bond VanEck HIP Sustainable Muni VictoryShares ESG Core Plus Bond VictoryShares ESG Corporate Bond

INTERNATIONAL EQUITY

AdvisorShares Psychedelics ALPS Global Travel Beneficiaries Amplify Digital and Online Trading APEX HealthCare Avantis Emerging Markets Value Avantis International Large Cap Value Avantis Real Estate Cannabis Growth CrossingBridge Pre-Merger SPAC Dimensional World ex US Core 2 Dimensional International Value ETFMG Breakwave Sea Decarbonization Tech ETFMG Real Estate Tech Fidelity Clean Energy Fidelity Cloud Computing Fidelity Digital Health Fidelity Electric Veh/Future Transport First Trust SkyBridge Crypto Industry/Digital Econ FlexShares ESG & Climate Dev Mkts ex-US Core FMQQ The Next Frontier Internet & Ecommerce Fount Metaverse FT Choe Vest Intl. Equity Buffer - September Global X Solar Global X Wind Energy Goldman Sachs Future Tech Leaders Equity

Innovator Emerging Mkts Power Buffer Innovator Intl Dev Power Buffer - Oct Invesco Blockchain Users/Decentralized Comm. Invesco Alerian Galaxy Crypto Economy IQ Clean Oceans 10 Cleaner Transport Janus Henderson Intl. Sustainable Equity Janus Henderson Net Zero Transition Resources KraneShares China Innovation ProShares Nanotechnology ProShares On-Demand ProShares Smart Materials ProShares S&P Kensho Cleantech ProShares Big Data Refiners ProShares S&P Kensho Smart Factories Roundhill 10 Digital Infrastructure Volt Crypto Industry Revolution/Tech

INT'L FIXED INCOME

Columbia Short Duration Bond Day Hagan/NDR Smart Sector Fixed Income Harbor Scientific Alpha Income Hartford Sustainable Income

ALTERNATIVES

AltShares Event-Driven

ASSET ALLOCATION

Advocate Rising Rate Hedge
Discipline Fund
Invesco Blockchain Users/Decentralized Comm
LifeGoal Children Investment
LifeGoal Homeowner Investment
LifeGoal General Conservative Investment
LifeGoal Vacation Investment
LifeGoal Wealth Builder
Simplify Tail Risk Strategy

CURRENCY DroCharge P

ProShares Bitcoin Strategy Valkyrie Bitcoin Strategy

COMMODITIES

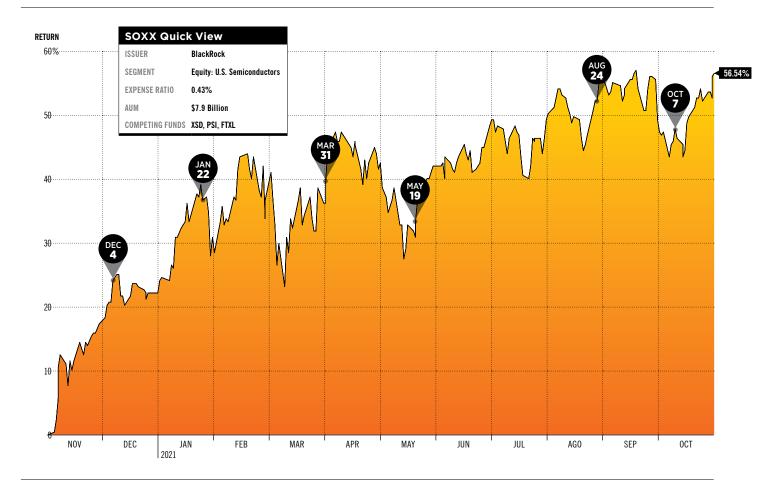
abrdn Bloomberg Ind.Metals Strategy K-1 Free Hartford Schroders Commodity Strategy KraneShares Cal Carbon Allowance KraneShares Eur Carbon Allowance

LEVERAGED/INVERSE

Direxion Daily Select Large Caps & FANGs Bull 2X Direxion Daily US Infrastructure Bull 2X ETFMG 2X Daily Inv Alt Harvest ETRACS 2x Leveraged IFED Invest with the Fed ETN ETRACS 2x Leveraged MSCI US ESG Focus TR ETN IN DETAIL By Heather Bell

ETF Explainer

Each month, we look at an ETF selected by ETF.com based on its performance and importance to investors. This month, we consider the performance of the \$7.9 billion **iShares Semiconductor ETF**, **(SOXX)**, the largest semiconductor ETF on the market. All the companies mentioned below are holdings in SOXX, unless otherwise noted (*).



Shares of Micron Technology rise sharply after multiple analysts
 raised their price targets and a power outage at one of its factories disrupted production, potentially increasing demand.

JAN Intel's stock price spikes on better-than-expected earnings,but plunges the next day on concerns the data had been hacked before its release.

Applied Materials stock receives a significant boost after
a Bernstein analyst initiates coverage on the company with an "outperform" rating.

Analog Devices exceeds expectations to deliver record breaking results for its second fiscal quarter, with revenue up 26% year-over-year.

AUG Nvidia stock rises over multiple days on a 68% y-o-y24 increase in earnings and news that it will provide some of the chips for a new Dept. of Energy supercomputer.

Shares of Marvell Technology rise sharply in the wake of
 an investor call during which it raised its long-term growth target to 15-20% from 10-15%.

ETF Comparison Tool

The ETF.com Comparison Tool allows investors to make one-to-one comparisons on a variety of features and metrics between any two ETFs www.etf.com/etfanalytics/etf-comparison-tool

Facts & Costs

\$848.78M	0.85%	\$41.51M	36
AUM	EXPENSE RATIO	AVERAGE Daily \$ Volume	NUMBER OF HOLDINGS
Exchange	Traded Conce	epts	
1001150			
URNM	North Sho	ore Global Urai	nium Mining ET
TICKER			FUI

Performance

AVERAGE SPREAD (%)

0.38%

13 25%	51 40%	108 18%	239 08%	_	-
1 MONTH	3 MONTHS	YTD	1 YEAR	3 YEARS	5 YEARS

AVERAGE SPREAD (\$)

\$0.27

Facts & Costs

URA	Global X Uranium ETF
TICKER	FUND

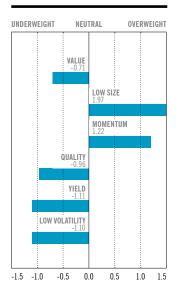
Mirae Asset Global Investments Co., Ltd.

0.14%	\$0.03		20.00% / 39.60%
AVERAGE SPREAD (%)	AVERAGE SPREAD (\$)	MEDIAN TRACKING Difference (12 MO)	MAX LT/ST Capital gains rate
\$1.33B	0.69%	\$57.30M	45
AUM	EXPENSE RATIO	AVERAGE Daily \$ volume	NUMBER OF HOLDINGS

Performance

13.59%	39.36%	80.12%	155.96%	32.24%	21.40%
1 MONTH	3 MONTHS	YTD	1 YEAR	3 YEARS	5 YEARS

MSCI URNM Factors

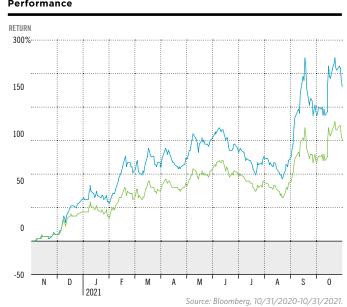


Performance

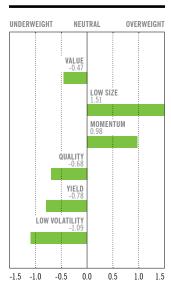
DIFFERENCE (12 MO)

CAPITAL GAINS RATE

20.00% / 39.60%



MSCI URA Factors



URNM TOP 3 SECTORS

Energy	80.93%
Financials	
Basic Materials	
	······
	······

URNM TOP 10 HOLDINGS

Cameco Corporation	16.93%
National Atomic Co. Kazatomprom JSC	16.49%
Sprott Physical Silver Trust	7.17%
Energy Fuels Inc.	5.61%
Yellow Cake Plc	5.43%
Denison Mines Corp.	5.29%
NexGen Energy Ltd.	4.87%
Uranium Energy Corp.	4.42%
Paladin Energy Ltd	3.92%
Uranium Royalty Corp	3.31%

URA TOP 5 SECTORS

Energy	69.98%
Later Colors	15.74%
Pagia Materiala	7.89%
Et a contrata	4.56%
Utilities	1.83%
	······
	······

URA TOP 10 HOLDINGS

Cameco Corporation	23.88%
National Atomic Co. Kazatomprom JSC	10.19%
NexGen Energy Ltd.	8.20%
Denison Mines Corp.	
Paladin Energy Ltd	
Energy Fuels Inc.	
Uranium Energy Corp.	
Centrus Energy Corp. Class A	
Yellow Cake Plc	0.500/
Global Atomic Corporation	1.79%

ETF Stock Finder

The ETF.com Stock Finder Tool helps you find which ETFs hold a certain stock and how much of it they own.

www.etf.com/etfanalytics/etf-stock-finder

Each month, we look at selected stocks based on their performance and importance to investors.

This month, we highlight Amazon.com, Inc. (AMZN), Robinhood Markets, Inc. Class A (HOOD) and FuelCell Energy, Inc. (FCEL).

Stock

AMZN

Amazon.com, Inc.

SPDR S&P 500 ETF Trust	Vanguard Consumer Discretionary ETF
SPY	VCR
Biggest Holder	Largest Allocation
303	29.3 Million
ETFs Holding AMZN	AMZN Shares in ETFs

Most AMZN Exposure

Ticker	Fund	% of Allocation
VCR	Vanguard Consumer Discretionary ETF	22.74%
ONLN	ProShares Online Retail ETF	22.47%
XLY	Consumer Discretionary Select Sector SPDR	21.94%
FDIS	Fidelity MSCI Consumer Discretionary Index	21.91%
CLIX	ProShares Long Online/Short Stores ETF	20.61%

Most AMZN Shares

Ticker	Fund	# of Allocation
SPY	SPDR S&P 500 ETF Trust	4.40M
QQQ	Invesco QQQ Trust	4.28M
IVV	iShares Core S&P 500 ETF	3.39M
V00	Vanguard S&P 500 ETF	2.73M
VTI	Vanguard Total Stock Market ETF	2.42M

Top ETF Strategies Using AMZN

Strategy	# of ETFs
Active Management ETFs	11
Vanilla ETFs	58
Multi-factor ETFs	30
Fundamental ETFs	30
Equal ETFs	22

Stock

HOOD

Robinhood Markets, Inc. Class A

ETFs Holding HOOD	HOOD Shares in ETFs	
5	6.7 Million	
Biggest Holder	Largest Allocation	
ARKK	ARKK	
ARK Innovation FTF	ARK Innovation FTF	

Most HOOD Exposure

Ticker	Fund	% of Allocation
ARKK	ARK Innovation ETF	1.19%
ARKF	ARK Fintech Innovation ETF	1.02%
ARKW	ARK Next Generation Internet ETF	0.90%
ONEQ	Fidelity NASDAQ Composite Index ETF	0.10%
FPX	First Trust U.S. Equity Opportunities ETF	0.03%

Most HOOD Shares

Ticker	Fund	# of Allocation
ARKK	ARK Innovation ETF	4.89M
ARKW	ARK Next Generation Internet ETF	954.94K
ARKF	ARK Fintech Innovation ETF	680.11K
ONEQ	Fidelity NASDAQ Composite Index ETF	116.30K
FPX	First Trust U.S. Equity Opportunities ETF	10.87K

Top ETF Strategies Using HOOD

3
1
1

Stock

FCEL

FuelCell Energy, Inc.

ETFs Holding FCEL	FCEL Shares in ETFs
59	34.6 Million
Biggest Holder	Largest Allocation
IWM	HJEN
iShares Russell 2000 ETF	Direxion Hydrogen ETF

Most FCEL Exposure

Ticker	Fund	% of Allocation
HJEN	Direxion Hydrogen ETF	4.83%
HDRO	Defiance Next Gen H2 ETF	4.33%
HYDR	Global X Hydrogen ETF	4.15%
CNRG	SPDR S&P Kensho Clean Power ETF	1.47%
CTEC	Global X CleanTech ETF	1.18%

Most FCEL Shares

Ticker	Fund	# of Allocation
IWM	iShares Russell 2000 ETF	7.30M
ICLN	iShares Global Clean Energy ETF	5.41M
PBW	Invesco WilderHill Clean Energy ETF	3.13M
QCLN	First Trust NASDAQ Clean Edge Green Energy	2.78M
VB	Vanguard Small-Cap ETF	2.58M

Top ETF Strategies Using FCEL

Strategy	# of ETFs
Vanilla ETFs	27
Multi-factor ETFs	7
Fundamental ETFs	6
Active Management ETFs	5
Equal ETFs	4

HIGHLIGHTS Compiled by Heather Bell

Data At A Glance

Monthly Flows

Below are the ETFs that experienced the top and bottom flows in October 2021, as well as the net flows for major asset classes.

TOP GAINERS

TICKER	FUND	ISSUER	NET FLOWS (\$M)	AUM (\$M)
IVV	iShares Core S&P 500 ETF	BlackRock	9,119.51	315,543.91
QQQ	Invesco QQQ Trust	Invesco	4,260.19	200,420.28
SPY	SPDR S&P 500 ETF Trust	SSGA	3,965.20	416,428.26
V00	Vanguard S&P 500 ETF	Vanguard	3,834.17	267,483.86
VTI	Vanguard Total Stock Market ETF	Vanguard	2,441.59	282,562.07
IEFA	iShares Core MSCI EAFE ETF	BlackRock	2,134.15	104,012.93
TIP	iShares TIPS Bond ETF	BlackRock	1,897.95	35,841.17
NUGO	Nuveen Growth Opportunities ETF	Nuveen Securities	1,636.44	1,677.91
XLF	Financial Select Sector SPDR Fund	SSGA	1,447.61	45,525.93
SCHP	Schwab U.S. TIPS ETF	Charles Schwab	1,440.11	21,428.28

BIGGEST LOSERS

TICKER	FUND	ISSUER	NET FLOWS (\$M)	AUM (\$M)
LQD	iShares iBoxx USD Invt. Grade Corp. Bond ETF	BlackRock	-2,917.16	37,903.46
TLT	iShares 20+ Year Treasury Bond ETF	BlackRock	-1,862.85	15,243.40
IGSB	iShares 1-5 Year Invt.Grade Corp. Bond ETF	BlackRock	-1,460.18	23,596.06
BBJP	JPMorgan BetaBuilders Japan ETF	JPMorgan Chase	-967.44	8,002.81
PDP	Invesco DWA Momentum ETF	Invesco	-645.62	1,865.14
IYR	iShares U.S. Real Estate ETF	BlackRock	-574.18	7,330.02
IXN	iShares Global Tech ETF	BlackRock	-557.38	5,552.61
XLI	Industrial Select Sector SPDR Fund	SSGA	-549.36	17,833.61
FAS	Direxion Daily Financial Bull 3x Shares	Direxion	-519.07	3,643.71
TQQQ	ProShares UltraPro QQQ	ProShares	-484.02	17,122.40

ASSET CLASSES

	NET FLOWS (\$M)	AUM (\$M)	% OF AUM
U.S. Equity	51,225.99	4,168,658.43	1.23%
International Equity	10,084.17	1,323,105.36	0.76%
U.S. Fixed Income	12,905.41	1,095,280.85	1.18%
International Fixed Income	980.93	149,475.52	0.66%
Commodities	542.34	140,771.43	0.39%
Currency	1,321.95	3,140.70	42.09%
Leveraged	-1,633.28	69,494.52	-2.35%
Inverse	556.36	12,541.61	4.44%
Asset Allocation	434.99	19,287.96	2.26%
Alternatives	474.75	7,061.44	6.72%

Interesting Charts Of Past 12 Months

The below charts highlight some of the key ETF trends of the past year so far.

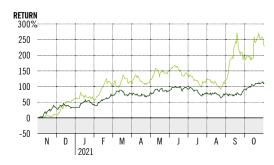
United States Natural Gas Fund LP USO United States Oil Fund LP

Natural gas prices have seen a sharp spike, allowing UNG to outperform USO during 2021.



North Shore Global Uranium Mining ETF Energy Select Sector SPDR XLE

URNM's performance exploded relative to that of the broad energy sector, even as other forms of clean energy lagged during the past 12 months.



iShares Russell 1000 ETF iShares Russell 2000 ETF

Small caps have outperformed large caps over the past 12 months, but the gap between the two segments has narrowed in recent months.

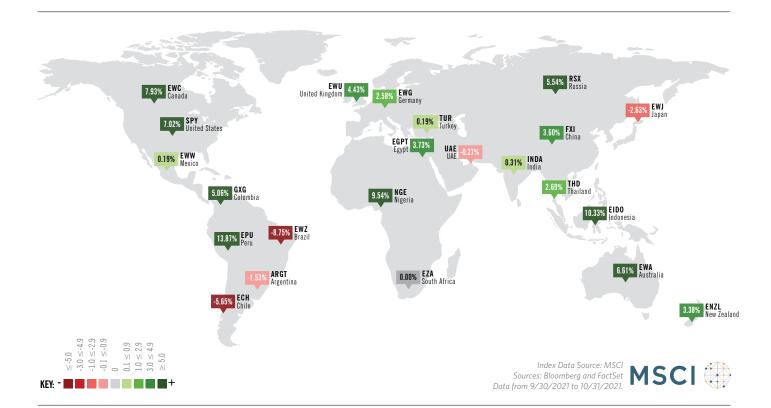


IN REVIEW by Dan Mika

Countries

In October, the iShares MSCI Peru ETF (EPU) led returns among country-specific ETFs, with a gain of 13.87% on the month, despite a credit downgrade by Fitch Ratings. It was followed by the iShares MSCI Indonesia ETF (EIDO), with a gain of 10.33% and the Global X MSCI Nigeria ETF (NGE), up 9.54%. The iShares MSCI Brazil ETF (EWZ) was the biggest loser, seeing losses of 8.75%. The iShares MSCI Chile ETF (ECH) had the second-worst return profile, with a loss of 5.65%, followed by the iShares MSCI Japan ETF (EWJ) decreasing by 2.63%. The SPDR S&P 500 ETF Trust

(SPY) led inflows for country-specific ETFs, pulling in nearly \$4 billion during the month as its underlying index hit a new high. EWJ was in a distant second place, adding \$400 million in the month, while the iShares MSCI Canada ETF (EWC) saw \$212 million in inflows. Leading the outflows was the iShares MSCI United Kingdom ETF (EWU), which decreased by \$433 million, followed by the iShares MSCI Taiwan ETF (EWT), with just shy of \$300 million in outflows and the iShares MSCI South Korea ETF (EWY), with a loss of \$169 million.



TOP INFLOWS

TICKER	FUND	NET FLOWS (\$M)	AUM (\$M)
SPY	SPDR S&P 500 ETF Trust	3,965.2	411,269.6
EWJ	iShares MSCI Japan	400.4	12,691.0
EWC	iShares MSCI Canada	212.0	4,222.1
EWZ	iShares MSCI Brazil	122.7	4,770.0
EZA	iShares MSCI South Africa	58.5	325.2

TOP OUTFLOWS

TICKER	FUND	NET FLOWS (\$M)	AUM (\$M)
EWU	iShares MSCI United Kingdom	-433.4	3,020.2
EWT	iShares MSCI Taiwan	-299.9	7,010.5
EWY	iShares MSCI South Korea	-168.9	5,568.6
EWL	iShares MSCI Switzerland	-88.9	1,626.6
EWP	iShares MSCI Spain	-68.9	686.5

Cryptocurrency Corner

By Dan Mika

ETF Report takes the pulse of the cryptocurrency space, including the performance of leading cryptocurrencies and the top related news items

Performance

#	Bitcoin (BTC)		Ethereum (ETH)		Ripple (XRP)		Cardano (ADA)	P	Polkadot (DOT)	Ð	Dogecoin (DOGE)
YTD	▲ 111.67%	YTD	▲ 481.03%	YTD	▲ 404.32%	YTD	▲ 983.05%	YTD	▲ 361.67%	YTD	▲ 5838.08%
1 YEAR	▲ 344.93%	1 YEAR	▲ 1010.74%	1 YEAR	▲ 364.60%	1 YEAR	2017.10 %	1 YEAR	▲ 924.81%	1 YEAR	1 0892.51%
3 YEARS	▲ 113.57%	3 YEARS	▲ 179.39%	3 YEARS	▲ 35.36%	3 YEARS	204.27 %	3 YEARS	N/A	3 YEARS	321.16 %

(Data as of 10/31/2021)

By Dan Mika

By Sumit Roy

Data Provided By

First-Ever Bitcoin Futures ETFs Debut

The ProShares Bitcoin Strategy ETF (BITO) closed its first day of trading on Oct. 19 as one of the most popular ETF launches ever.

After a particularly volatile hour of early trading in which its price reached a high of \$42.55 per share and a low of \$40.94, BITO rose beyond the \$41 per share mark on calmer volumes over the next several hours. It ended the day at \$41.94 per share, with the NYSE ultimately recording \$1.01 billion in trades shortly before 5 p.m. on the launch day, including trades executed after the close.

Its dollar volume of approximately \$968 million made it the second-largest ETF debut in history, according to data compiled by Bloomberg ETF analyst Eric Balchunas. Only the **BlackRock U.S. Carbon Transition Readiness ETF (LCTU)** had a larger first day, with \$1.16 billion in volume upon its debut in April.

On Oct. 21, the **Valkyrie Bitcoin Strategy ETF (BTF)** followed BITO into the market, but its debut was much less impressive, ending the day with \$38 million in AUM. BITO and BTF both primarily invest in bitcoin futures, although BITO reserves the right to purchase stakes in foreign ETFs and investment vehicles that hold bitcoin directly.

Geared Bitcoin ETF Filings Withdrawn

In just under a full week, the SEC put the kibosh on two issuers seeking to launch inverse and leveraged versions of bitcoin futures-linked ETFs.

In the span of hours on Tuesday, Oct. 26, Valkyrie Funds filed for an ETF that provided leverage of a multiple of 1.25 over the price of bitcoin futures, while Direxion filed for a fund providing -1x exposure.

However, both issuers pulled their filings within days, saying that the SEC had requested withdrawals of those ETF proposals that same day based on reasons from a 2018 letter outlining the SEC's questions on cryptocurrencies and fund management.

Valkyrie issued a withdrawal form on Oct. 29, while Direxion pulled its filing Nov. 2.

Neither issuer disclosed which parts of the letter the SEC had determined were grounds for objection for those filings moving forward, and the SEC did not immediately respond to a request for comment.

While U.S. regulators allowed the **ProShares Bitcoin Strategy ETF (BITO)** and the **Valkyrie Bitcoin Strategy ETF (BTF)** to launch midway through October, the next test for backers of the cryptocurrency is approval of a physical bitcoin ETF. However, the SEC denied VanEck's application for just such a fund as recently as mid-November.

Crypto By The Numbers

Crypto seems to be everywhere lately. But just how big is crypto really, based on the cold hard numbers?

According to CoinMarketCap, the total market capitalization of all crypto assets is \$2.6 trillion. That's a big number, but one that is dwarfed by the market value of traditional assets like stocks and bonds. For instance, as of this writing, the market cap of Apple alone is over \$2.5 trillion.

The market cap of all the stocks within the S&P 500 is \$40.3 trillion; the market value of the MSCI ACWI Index is \$92 trillion; and the global bond market is worth \$119 trillion.

From that perspective, crypto looks quite small. And that's even more the case when you consider that, of crypto's market cap, 46% comes from bitcoin alone and 19% from ether. All the other crypto assets only account for 35% of the crypto market cap, or \$900 billion.

If you go one step further and strip out the top 10 crypto assets—like tether, ada, dogecoin and XRP—the market value shrinks further to \$500 billion

However, for bitcoin to come out of nowhere and be worth more than \$1 trillion, and for other crypto assets to collectively be worth hundreds of billions of dollars is an impressive feat.



Unpacking The Crypto ETF Dilemma

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UNDERSTANDING GREEN BONDS

THIS FAIRLY NEW ASSET CLASS IS GROWING RAPIDLY







The green bond market could soon reach US\$1 trillion in annual issuance volume globally by 2023, as governments, supranational entities and corporations make pledges to reduce carbon or have net-zero carbon emissions by 2050.

That's still a tiny part of the \$100 trillion total global debt, but considering the infrastructure upgrades that must be made to cut greenhouse gases—everything from improving the electrical grid to developing more efficient use of natural resources—the debt markets will play

a key role in financing these projects.

"Green bonds are really well-suited to achieve those goals," said William Sokol, product manager, ETFs, for VanEck, which issues the VanEck Green Bond ETF (GRNB).

But the market is still relatively new, having launched in 2007, when the World Bank and the European Investment Bank issued AAA investment-grade bonds from multilateral institutions, according to the Climate Bonds Initiative, a global non-profit focused on using debt markets for climate solutions.

Green bonds fit in the larger environmental, social and governance framework, but advisors interested in adding them to client portfolios should understand their differences.

FUNDING ENVIRONMENTAL PROJECTS

Green financing has always existed in some respects, such as when municipalities would issue bonds for stormwater remediation, observes Trenton Allen, managing director and CEO at Sustainable Capital Advisors, which specializes in sustainable finance, including project finance.

What's different now is, under the green-bond structure, investors can isolate and track the environmental component of the proceeds' use, Allen explains, adding that by offering green bonds, issuers might be able to increase their investor base, and perhaps demand for their particular bonds, which may reduce their overall funding costs.

Although the issuer offers additional information about the bonds by explaining proceeds use, Sokol says investors still need to do their standard credit due diligence before buying these.

When green bonds come to market, the Climate Bonds Initiative reviews issuance using a taxonomy it developed based on the latest climate science and research from the Intergovernmental Panel on Climate Change, the International Energy Agency and other experts.

The taxonomy includes a broad list of assets and projects that will help reduce greenhouse gas emissions by 50% by 2030, and will achieve net-zero by 2050. Based on the list, it will designate whether a green bond meets its taxonomy, and its

designation is considered the gold standard for third-party certification.

The group's taxonomy includes eight categories for green bonds, including energy, water, buildings and waste.

Some green bonds get oversubscribed and have a "greenium" – a green premium, which means their yields are lower than a similar non-green bond. However, TD Securities notes premiums in recent green-bond sales have declined, so this may become less of an issue for income seekers.

HOW GREEN BONDS FIT WITH ESG

Ashley Schulten, head of responsible investing for global fixed income at Black-Rock, which offers the iShares Global **Green Bond ETF (BGRN)**, points out that green bonds share some similarities with other ESG-type offerings, but they aren't interchangeable.

Green bonds focus specifically on the "E" part of ESG. Many sustainably minded investors often consider all three pillars of ESG, so they may avoid buying a green bond from a company that doesn't consider the social or governance criteria.

ESG investments are subjective, Sokol

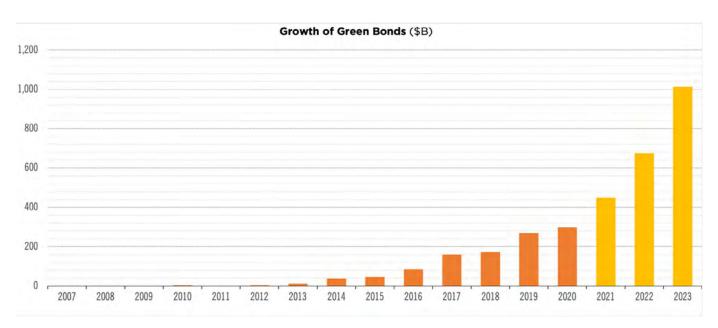
notes, and an overall ESG score is based on several data points, while green bonds are solely about proceeds earmarked to a project: "You're not necessarily looking at ESG scores, or even the broader activities of the issuer."

Companies that are just starting to address climate change internally may offer green bonds as a way to fund that transition. Schulten remarks.

"I think those are the most interesting stories in the green space," she said. "How can we use this funding tool to help companies go through this really rapid restructuring of the types of businesses they do, even if their parent company might not be the chosen child of today's ESG portfolio?"

Jim Pratt-Heaney, founding partner of Coastal Bridge Advisors, stresses that advisors need to understand the distinction between green bonds and ESG if they're considering green bonds for their sustainable investors.

"You have to look at the broader picture. For instance, if a project sounds really good, but [the issuer] is horrible to their people, I wouldn't call that a green bond," he noted.



Source: Climate Bonds Initiative

'There's a whole spectrum now where you can be dark green or light green'

AVOIDING GREENWASHING

Sustainable investing's popularity has led to some "greenwashing," in which issuers sell green bonds that don't align with carbon reduction. For example, a few years ago, Spanish energy company Repsol issued green bonds to make their oil refineries more energy efficient.

Mark Haefele, chief investment officer, global wealth management, at UBS, reassures investors that greenwashing isn't widespread, and he expects it to become less of an issue as regulations and external reviews become more prevalent.

To identify greenwashing, UBS verifies whether the issuer is only refinancing existing activities or projects they must implement; is investing mostly in non-green business or aims to maintain existing polluting activities for as long as possible; doesn't set any ambitious environmental targets on a corporate level; and how much transparency it offers.

BlackRock's Schulten observes there aren't huge incentives to greenwash bonds because of the transparency involved in stating bond proceeds. What investors may see are some debates about what can be included as green, such as blue hydrogen, which is made from methane.

"I think there is this agreement that we really need to stay away from fossil fuel upgrades in green bonds, or if they're extending the life of some of these assets," she explained. "[Those] have to be decommissioned if we're actually to have any shot of getting to net zero."

"Transition" bonds have started to become a small part of the green-bond market. These are bonds of companies that are legitimately transitioning from fossil fuels by aligning with Paris Agreement goals to reduce carbon emissions.

"There's this whole spectrum now where you can be dark green or light green," Sokol said. "Investors can take different views of what they want to invest in."

VanEck's green-bond ETF's methodology doesn't include transition bonds because, if the bond issuer's offering doesn't align with the Climate Bonds Initiative's definition of green, the firm won't include it.

"As the green finance market expands, I think there'll be the ability to differentiate," he noted. "I guess the question is whether investors want that lighter green transitionary [bond]. We'll have to see."

EXPANDING THE MARKET

Sustainable Capital Advisors' Allen expects this market to continue to grow, especially if issuers believe there's a way to expand their investor base, and he adds that if growth continues, it needs to be met by ever-improving transparency into proceeds' use and metrics that can quantify outcomes such as the amounts of carbon avoided or energy saved.

"As we start to get comfortable with the longer-term disclosure and performance of these particular assets, how are we going to deem impact and how will we evaluate targets?" he asked.

Schulten believes issuers have also become more comfortable with giving information and understanding what data investors want, which helps bring more credibility to the sector. With the green bond markets expected to reach US\$1 trillion in annual issuance volume in a few years, she says she'd rather see a better market than a bigger market.

"I'm not keen on seeing growth just for growth," Schulten noted. "If growth is there, because the actual projects are there, then great. But let's not widen our standards just to incentivize larger AUM numbers."



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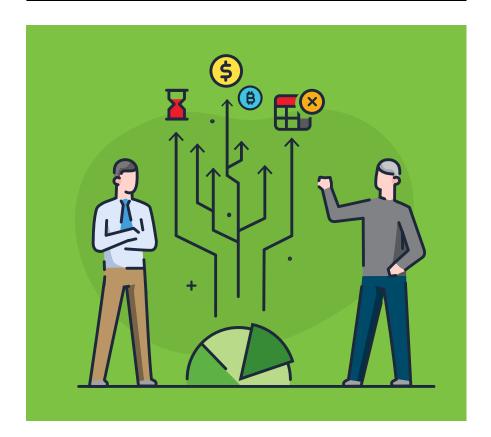
FIXED INCOME

ISN'T A PARADI REQUIRES OF LOOKI ENTIRE A

A PARADIGM SHIFT REQUIRES NEW WAYS OF LOOKING AT AN ENTIRE ASSET CLASS



By Debbie CarlsonContributor to ETF.com
& ETF Report



Interest rates have been at rock-bottom lows for years, and there's no sign that rates will rise substantially enough to satisfy a fixed income investor's hunger for yield. To feed that appetite, financial advisors need to find alternatives.

But there are risks. Staying in traditional debt markets means accepting lower-to-negative returns for stability, while seeking income in stocks or credit brings different risks. It comes down to what type of risk advisors and investors can accept, market watchers note.

HOW DID WE GET HERE?

Interest rates peaked in 1981, with the U.S. 10-year Treasury note yielding 15.8% that September, and have sloped downward since. As recently as November 2018, benchmark yields topped 3%, and a year later, they were at 1.8%. When the global pandemic happened, rates dropped sub-1% for the first time, falling as low as 0.55% in July. Rates are creeping up, but remain below pre-COVID levels.

Pat O'Hare, chief market analyst at Briefing.com, says that the pandemic caused a confluence of factors to weigh on rates as buyers snapped up U.S. Treasurys, spooked by global recession worries, and the Federal Reserve bought government and corporate debt to stabilize markets.

Foreign buyers have long sought U.S. debt, appreciating meager yields here versus negative interest rates offered in some of their home markets, he adds. Finally, short-covering—buying back previously sold positions—may be suppressing rates.

O'Hare notes there's a mindset that rates are artificially low, which enticed fixed income short-sellers, particularly in Treasurys. Yet yields continue to fall, triggering short-covering, which further pressures those yields.

All three factors are why rates can be so low, even with an economy showing 6%-plus gross domestic product growth. "That's how we got here," O'Hare observed.

How investors and advisors approach the fixed income market depends on their view on interest rates, O'Hare suggests.



Source: Federal Reserve Bank of St. Louis, 1/1/1981-9/30/2021.

Inflation expectations play a big factor in this, especially with the Consumer Price Index at 5.3% as of August 2021.

Fed Chairman Jay Powell and U.S. Treasury Secretary Janet Yellen have both said that inflation is temporary and should run its course once the U.S. gets through the supply chain bottleneck. If deflation occurs, U.S. Treasurys should still be OK to hold, O'Hare believes.

But he notes some people think rates should rise for a variety of reasons, including the Fed tapering its extraordinary monetary policy, and that inflation may not completely retreat. Even if inflation cools to a 3% annual rate or even meets the Fed's stated 2% target, U.S. 10-year Treasury yields should be higher than the current 1.5% yield, O'Hare posits.

SOLUTIONS

A standard approach for principal protection while addressing inflation concerns is to buy Treasury inflation-protected securities, such as the **iShares TIPS Bond ETF (TIP)**, O'Hare says.

Chris Shea, chief investment officer of WealthSource, still uses some Treasurys,

and reminds clients that fixed income is a ballast against equities in a portfolio, at least from a principal-protection perspective, and advocates that investors consider total return, not just yield. He's also selective about credit and duration, but he admits fixed income isn't easy.

"I wish there was a really good answer," he said. "When you're thinking long-only, liquid solutions, it's challenging."

Some advisors and exchange-traded fund providers are using a variety of strategies to handle low yields, including options strategies designed to offer risk management and income.

Garrett Paolella, managing director and portfolio manager at Harvest Volatility Management, subadvisor for the **Nationwide Risk-Managed Income ETF (NUSI)**, explains the ETF uses covered calls and puts to create high income while offering protection when stock markets are falling.

The actively managed ETF fully replicates the Nasdaq-100 Index, and each month it sells a Nasdaq-100 call option against that replicated portfolio. The ETF takes a portion of the income generated

from the call to buy an out-of-the-money put. The fund has a managed monthly distribution of 0.65% to ensure consistency for investors, which works out to a 7.8% distribution yield.

ALLOCATION ENHANCEMENT

"It's a net credit collar, so that you always have a degree of income to be distributed to your shareholders through the cash generated from that net credit," Paolella said, noting most investors are using it as an enhancement to their overall asset allocation.

David Miller, chief investment officer of Strategy Shares, which issues the **Strategy Shares Nasdaq 7 HANDL Index ETF (HNDL)**, designed the ETF as a total portfolio solution for the investor looking for a 7% return or higher.

Half of the ETF is a fixed allocation core portfolio of 30% large cap U.S. equities, and 70% Bloomberg Barclays bond aggregate. The other 50% is allocated to a "Dorsey Wright Explore Portfolio," a tactical allocation that uses a relative strength algorithm to allocate to whatever asset class demonstrates the best relative strength at any given point in

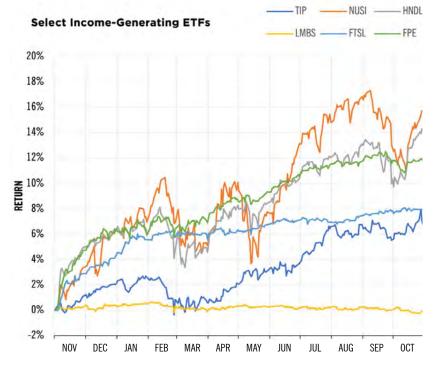
'All preferred securities aren't created equal'

time. Those asset classes include U.S. fixed income, U.S. blend, U.S. equity and U.S. alternative assets.

The ETF works as a total portfolio solution, although Miller sees investors slot it into portfolios by reducing part of their equity and fixed income asset allocation, or by reducing their corporate bond exposure.

Lori Van Dusen, founder and CEO of LVW Advisors, sticks with high quality, shorter duration investments since there's "no substitute" for the safety those offer.

In the past, she's used the **First Trust Low Duration Opportunities ETF (LMBS)**. The fund holds 90% bonds rated AAA or government-backed debt. It has a 12-month distribution of about 2% with a duration of two months. "It's not very exciting, but if somebody says, 'I want to get more income than what I'm getting in cash or bonds,' it's potentially a good alternative," she said.



Source: FactSet, 10/30/2020-10/29/2021.

EXTRA CREDIT

With a relatively good economy and the outlook for rates cloudy, some advisors are taking higher credit risk for their clients who seek income. Senior loans are one way to wade into this part of the market.

John Ingram, chief investment officer at Crestwood Advisors, recommends the SPDR Blackstone Senior Loan ETF (SRLN), noting in December 2020 and in January, his firm increased exposure to floating-rate notes. Historically the firm was wary of credit-risk vehicles such as high yield bonds since they act like stocks in troubled times, but the pandemic changed that.

"We've taken on a little bit more credit risk just to get some yield, and also shortened duration. Floating-rate notes have been great in that area," he said, noting this is more of a tactical view because of the higher risk.

Van Dusen also has used a senior loan ETF, the First Trust Senior Loan Fund (FTSL).

Briefing.com's O'Hare says firms that issue bank loans may not be in the best financial shape, but those loans are also at the top of the capital structure, and typically they're collateralized loans. Bank loan ETFs might also benefit from inflation because they're floating-rate structures.

"It's another type of inflation hedge that could work well for investors," he noted.

Van Dusen suggests preferred stocks could be an alternative for fixed income investors, and ETF investors should seek an actively managed fund such as the **First Trust Preferred Securities & Income ETF (FPE)**: "All preferreds aren't created equal."

Because FPE invests in preferred securities, its dividends are "qualified," and therefore taxed at the long-term capital gains rate. These tax savings boost its current 12-month yield to 4.5%, with an average duration of four years.

"That's a tool for someone who's looking to get higher income, and not extend a lot of risk," she said. ●



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With no specific definition, ESG funds run the gamut from broadly diversified to more niche in nature

PINNING DOWN



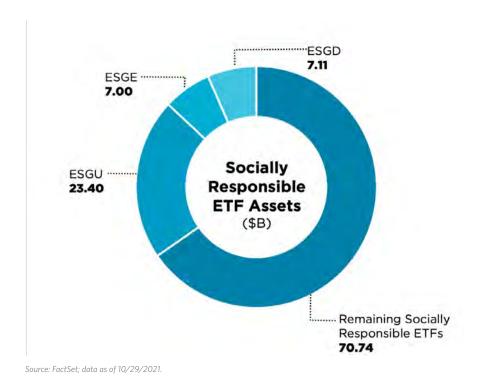
Investments that meet certain environmental, social or governance criteria—otherwise known as ESG or socially responsible investments—have gained interest from investors and issuers alike this year.

The pandemic, extreme weather events and the movement for racial justice have drawn attention to the importance of sustainability and social responsibility. According to data from FactSet, there are now 160 socially responsible ETFs, with assets totaling over \$89 billion.

Yet a glance at the funds that fall under this umbrella reveals a wide range, from the broad-based to the more thematic. Even those that sound alike can differ based on how the issuer or index defines ESG.

Since ESG preferences are personal to every investor, understanding the differences between these funds is essential to ensure the investors' values align with the funds they're selecting. Having a framework to analyze and consider the various





types of ESG funds is critical for those who would like to invest within this space.

ISHARES LEADS PACK

Some of the biggest socially responsible ETFs come from iShares and are the issuer's take on ESG as it pertains to broad domestic equity, international equity and emerging markets. Three ETFs make up 40% of all assets invested in socially responsible ETFs

The largest is the iShares ESG Aware MSCI USA ETF (ESGU), which, at \$22 billion in AUM, is nearly a quarter of all socially responsible ETF assets by itself. The fund has a similar investment universe as that of the SPDR S&P 500 ETF Trust (SPY). According to the prospectus, the index selects and weights companies for positive ESG characteristics.

The iShares ESG Aware MSCI EAFE ETF (ESGD) and the iShares ESG Aware MSCI EM ETF (ESGE) have similar philosophies applied to international developed and emerging markets, respectively.

ESG FOR EVERYBODY

These three ETFs fall under MSCI's "ESG Aware" series. Other flavors of ESG offered by the issuer include "ESG Screened" and "ESG Advanced." The ESG Aware series falls in the middle of the spectrum, seeking exposure to similar risks and returns as broad non-ESG ETFs, while targeting slightly more sustainable companies.

The process uses negative screening, excluding companies such as those that are classified as producers of civilian firearms and tobacco, or others that derive more than 5% of their revenue from oil sands

extraction or the mining of thermal coal.

The benefit of using these basic, negative screens is that most who are interested in ESG investing are likely to agree that companies involved in these activities should be excluded for social or sustainability reasons.

Another benefit of these ETFs is that they're fairly cheap, ranging from 0.15% to 0.25%. While more expensive than some traditional ETFs offered by iShares, this means that investors can get access to a portfolio that excludes the worst offenders in terms of ESG at a reasonable price.

ENVIRONMENTALLY FRIENDLY ETFs

However, these ETFs are unlikely to satisfy more discerning ESG investors who want a specific set of values to be reflected throughout their portfolio. For that, investors should turn to the wide array of thematic ESG ETFs that are available.

While these ETFs haven't drawn the same assets as more broad-based diversified ESG funds, they do have more targeted investment mandates that help align the portfolio with specific sustainable or socially responsible criteria.

Many of these ETFs target environmental concerns. Nearly a quarter of the 160 socially responsible ETFs use the words "clean," "low carbon," "fossil fuels," "green" or "climate" in the fund name.

The largest of these ETFs is, once again, an iShares fund. The **iShares Global Clean** Energy ETF (ICLN) invests in global clean energy companies, defined as those involved in the biofuels, ethanol, geothermal, hydroelectric, solar and wind industries.

TRADITIONAL VS. ESG FUND FEE COMPARISON						
ASSET CLASS	TRADITIONAL*		ESG			
Domestic Equity	IVV	0.03%	ESGU	0.15%		
Developed International	IEFA	0.07%	ESGD	0.20%		
Emerging Markets	IEMG	0.11%	ESGE	0.25%		

*iShares Core S&P 500 ETF (IVV), iShares Core MSCI EAFE ETF (IEFA) and iShares Core MSCI Emerging Markets ETF (IEMG)

What is greenwashing, and what are some examples of it in the ETF space?

With investor and issuer interest in ESG growing, there has also been increased skepticism of just how ESG-aware these ETFs truly are. Some ETFs are even accused of using "greenwashing" practices.

In other words, these funds are being deceptively marketed as more sustainable or ESG-friendly than they actually are. ESG's fuzzy definition only further complicates the matter.

While many ESG funds are focused on environmental sustainability goals, over 80% of equity ESG ETFs have some exposure to fossil fuel users and producers. This includes those ETFs that have carbon-emissions-related screens in place.

The **iShares ESG Aware MSCI USA ETF (ESGU)**, the largest socially responsible ETF by assets, has nearly as much exposure to the energy sector as the **SPDR S&P 500 ETF Trust (SPY)**. However, as it looks to closely mirror the broad market it represents, that's not surprising.

Another large ESG fund, the **Vanguard ESG U.S. Stock ETF (ESGV)**, holds several companies in its top holdings that could be deemed problematic from an ESG lens. Many of the top holdings are in line with that of SPY, including Amazon and Facebook.

The National Council on Occupational Safety and Health releases a "Dirty Dozen" list of companies on an annual basis, highlighting companies that put workers and communities at risk. Amazon is a repeat offender, appearing as a finalist on 2019's list as well as being included as a dishonorable mention in 2020.

For those who prioritize workers' rights and humane working conditions, Amazon would likely not be a suitable company for their ESG portfolio. Yet it's included in many broad-based ESG funds since it doesn't violate the basic exclusionary screens used by such funds.

Facebook has recently come under fire for prioritizing profits over the safety of its users. The company has also been fined in the past by the Federal Trade Commission for its use of deceptive practices regarding its users' privacy preferences.

While ESG ETFs like these do have some ESG criteria used within their index construction process, they are proof that having "ESG" within the name of the fund doesn't necessarily mean the companies included within the portfolio have low ESG risk. Investors should be sure to look beyond the name when analyzing just how ESG-aware a fund truly is.

State Street is another large issuer with its own take on environmentally friendly ETFs. The SPDR S&P 500 Fossil Fuel Reserves Free ETF (SPYX), for example, tracks an S&P 500-based index, excluding companies with known fossil fuel reserves.

These two portfolios look significantly different from one another, even though they're both different versions of an environmentally friendly ETF. And earlier this year, BlackRock rolled out two actively managed ETFs covering companies that are likely to benefit from the transition to a low-carbon economy. The BlackRock World ex U.S. Carbon Transition Readiness ETF (LCTD) and the BlackRock U.S. Carbon Transition Readiness ETF (LCTU) launched in April, with LCTU ending its first day of trading with \$1.25 billion - the fastest ETF to reach the \$1 billion threshold ever – and LCTD racking up \$586 million. While investors can get more targeted exposure through ETFs like these, there's still due diligence required to ensure the theme is being expressed in the way the investor prefers.

SOCIAL ISSUES IN FOCUS

Environmental issues are not the only ones ETFs seek to address. Those who care about social issues such as gender diversity and racial equity can also find ways to implement those values within a portfolio through the ETF wrapper.

Here, State Street has an option as well. The **SPDR SSGA Gender Diversity Index ETF (SHE)** is one of the largest socially focused ETFs, with nearly \$300 million in AUM.

This ETF invests in companies that employ women in high-level leadership roles, defined as being on the board of directors or in executive positions at the senior VP level or higher. While this fund has a targeted focus, performance is highly correlated with that of SPY, at an expense ratio of 0.20%.



GOVERNANCE: NEBULOUS CONCEPT

While the "E" and "S" are well-represented in the ETF space, there are very few ETFs that strictly consider corporate governance. Corporate governance metrics are a factor in many ESG funds, and some ETFs like SHE straddle the line between being a social or corporate governance fund. But very few governance-focused ETFs exist.

The WisdomTree Emerging Markets ex-State-Owned Enterprises Fund (XSOE) is an example of an ETF that might be as close to a governance pure-play as possible. This ETF tracks an index of emerging market companies, excluding state-owned enterprises. Another option might be the Global X Founder-Run Companies ETF (BOSS).

However, just because a fund has strong corporate governance does not mean it scores well on environmental or social measures. As the concept of what makes good governance is so nebulous, it's often a secondary factor in ESG ETFs.

FAITH-BASED FUNDS

Those who want to align their portfolio with specific religious principles are in luck

too. Inspire is one of the most prolific issuers in this space, offering eight faith-based ETFs aimed at conservative Christians.

Inspire's largest ETF is the **Inspire 100 ETF (BIBL)**, which has \$266 million in AUM and holds U.S. large cap stocks that align with the index provider's definition of biblical values and positive impact on the world. The methodology excludes companies with any degree of participation in activities such as abortion, gambling, alcohol, tobacco, pornography, support of the LGBT community or rights violations.

Other religious beliefs have options as well. The Global X S&P 500 Catholic Values ETF (CATH) and the Wahed FTSE USA Shariah ETF (HLAL) track cap-weighted indices of U.S. equities selected based on Catholic and Muslim beliefs, respectively, but there is only about 35% overlap between the two portfolios.

Fixed income ETFs can also be in the ESG bucket. While fixed income ETF options are less numerous than their equity counterparts, options here range from the iShares ESG Aware U.S. Aggregate Bond ETF (EAGG) to ETFs that spe-

cifically invest in "green bonds" that fund climate-related or environmental projects.

ESG EVOLVING

While these ETFs encompass some of the major themes seen in the ESG ETF market, this space is continually evolving. Of the 160 current U.S.-listed ETFs, 31 have launched this year alone.

And while ESG's fuzzy definition lends itself to hurdles such as "greenwashing," the increased scrutiny brought on by the growth of investor interest and asset flow could bring greater regulation to the space. Such efforts are already happening in Europe with the EU's Sustainable Finance Disclosure Regulation.

For now, ESG investors should decide whether broadly diversified ESG funds meet their needs or if a more thematic approach is necessary. Some might even choose to incorporate both into their portfolio.

Due to a lack of specificity regarding the meaning of ESG, selecting ETFs means investors shouldn't just opt for a fund with the acronym in the name. Further research is required. ●

SEVERE WEATHER POSES ETF SECTOR RISKS

CLIMATE CHANGE IS INTENSIFYING WILDFIRES AND HURRICANES, THREATENING PEOPLE AND PORTFOLIOS

Climate change is here, and it's already wreaking billions of dollars' worth of damage.

The National Oceanic and Atmospheric Administration estimates that severe weather events in 2021 so far have generated an inflation-adjusted \$104.8 billion in damage, and that isn't including the ongoing droughts and wildfires in the Western portion of the country.

While these disasters aren't directly generated by human-driven climate change, a hotter world means drier forests prone to burning out of control, and warmer sea water that can intensify tropical storms and ultimately cause more damage to life and property.

Swiss Re, the second-largest reinsurer in the world, estimated in April that 11-14% of global gross domestic product is at risk if the world's temperature rises past 2 degrees Celsius by midcentury compared with pre-industrial levels. That doesn't even encompass the political instability and human suffering that would come from droughts, crop failures, deadly heat waves and mass migration out of environments newly inhospitable to people.

So what—if anything—can investors do to prepare for a crisis that at minimum will be highly damaging to the economy as we know it today, and potentially catastrophic if it can't be solved?

Derek Lemoine, a professor of economics at the University of Arizona who has a doctorate in energy and resource studies, says it's difficult to quantify the current and future costs of climate change on the economy because there's no direct historical analog with which to compare a modern economy operating in an abnormally hot climate.

However, he expects the interconnected nature of the global economy will cause severe weather events to generate knockon effects across the world in a way that's hard to defend against in a portfolio.

"It does seem like it's really hard to escape any exposure by focusing on certain sectors," he said.

CLIMATE CHANGE HITTING INSURANCE

The shift in the climate is also forcing fundamental shifts to what the business world has taken for granted for decades.

Take the insurance industry, which faces the prospect of more loss events in the wake of climate-driven weather events like hurricanes and wildfires. More people and more property will congregate on a smaller amount of land around the world as rising oceans make coastal communities uninhabitable or too expensive to insure.

Lynne McChristian, director of the Office of Risk Management & Insurance Research at the University of Illinois Gies College of Business, said insurers are having to balance pressure both from regulators to be able to cover claims and from the rising risk of costlier weather events cutting into profitability.

That may mean the cost to build homes in wildfire or hurricane-prone areas can rise due to the higher premiums demanded to cover that property, with the knock-on effects rippling into other industries like construction and real estate.

These trends are here to stay, as the Intergovernmental Panel on Climate Change's latest report estimates it would take anywhere between several decades and several thousands of years to reverse



temperature increases caused by carbon emissions.

And damage from weather events themselves is setting up a vicious cycle. McChristian notes that wildfires burning available timber can reduce the amount of wood available to rebuild, and COVID-19's effects on the global supply chain have disrupted the flow of key materials needed to rebuild property damaged by a severe weather event.

"What the insurance companies are doing-whether they're mutuals or whether they're stock companies – is trying to tell people they need to pay more attention to their vulnerability, and the costs are going to change," she said.

RISK ACROSS ALL SECTORS

Derek Horstmeyer, a finance professor at George Mason University, said investors will need to demand better risk management from companies they hold. He points to Pacific Gas & Electric, a California utility that went bankrupt after fire officials determined its lapses in safety measures led to several wildfires, including the 2018 Camp Fire that burned 153,000 acres, destroyed 18,800 structures and killed 85.

The company's stock was trading north of \$70 per share in late 2017, but has traded around \$10 per share since the start of 2020, after a sharp series of declines in late 2018 and early 2019. Horstmeyer notes that risk of share prices tanking will drive more volatility after several years of recovery from the 2008 financial crisis, and that volatility is likely to be spread unevenly across sectors.

For example, the real estate sector faces obvious risk regarding buildings being susceptible to severe weather damage. But if an affected building happens to host a server for a major technology company, it could easily disrupt services for a sector that isn't thought of as carrying much climate risk.

"Maybe our notions of what are safe ETFs, safe sector ETFs, might change," he posited. "Not so much in volatility, but maybe in crash risk."

RACING TOWARD 2030

The Intergovernmental Panel on Climate Change's latest report estimates that the world will breach the 1.5 degree Celsius of average warming from pre-industrial levels sometime within the decade unless severe decarbonization happens across every industry.

That poses a quandary in the finance world, where companies are incentivized to put quarterly results and shareholder value ahead of spending capital to mitigate emissions or build resistance to adverse weather events.

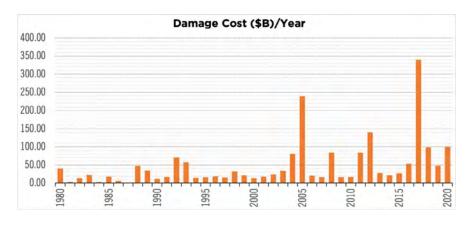
Horstmever said novel ideas like a special dividend that kicks in after a shareholder holds their position over five years could reduce short-term pressures for financial performance. However, he sees an opportunity for climate-minded activist investors to put pressure on heavy emitters or companies seen as unprepared because the cost of borrowing capital for a campaign is extremely low right now.

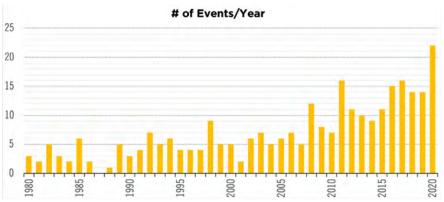
"Having activist investors target companies to hopefully change these things, to get these things in line, will add value to a company if they don't have good protocols in place," he explained.

But UofA's Lemoine said there's reason for hope. He points to the plummeting price of solar panels, commitments from automakers toward phasing out internal combustion-powered cars and carboncapture technologies as promising ways to avoid a worst-case climate scenario.

While those technologies aren't magic and their initial costs would be high, he argues that widespread adoption of zerocarbon technologies at scale will drop the price burden.

"There are ways to deal with the problem that I think don't warrant just sticking heads in the sand," he said. •





Source: National Centers For Environmental Information.

WHATION INFLATION MEANS FOR BOND ETFs

WITH INFLATION RUNNING AT A THREE-DECADE HIGH, SHOULD BOND INVESTORS BE CONCERNED?

According to the latest reading of consumer prices in the U.S., inflation hasn't been this hot since the early-1990s. The core Consumer Price Index (CPI) for September 2021 registered growth of 4% year-over-year, down from the previous month's 4.5% print, but still double the Fed's 2% inflation target.

The core CPI measure strips out food and energy prices, but if you leave those in, inflation is running even hotter -5.4% as of September.

Consumers are feeling the pinch. Everything from home prices to car prices to food prices has been surging, and many are starting to worry that the U.S. could be entering a sustained period of higher inflation.

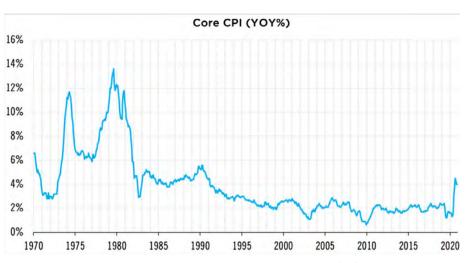
If that's the case, bond ETFs could take a hit ... but that's only one possible scenario. There's still the potential for a much more benign future in which inflation cools down significantly from here.

TRANSITORY CAMP

Those who foresee this more optimistic course for inflation — a group that includes the Federal Reserve — argue that high inflation is merely transitory, the consequence of massive one-off economic stimulus, a post-pandemic reopening of the economy, and base effects (unusually low inflation last year).

Regarding the latter, the core CPI only increased by 1.7% year-over-year in September 2020, when the economy was still very much at the mercy of COVID trends. Comparing prices this year to last year's depressed levels makes inflation seem hotter than it would be under more normal circumstances.

Additionally, the \$5 trillion of fiscal stimulus unleashed due to COVID—including hundreds of billions of dollars' worth of direct cash payments to taxpayers—is obviously not something that will be repeated on an ongoing basis.





Source: Bloomberg, 11/30/1970-9/30/2021

Likewise, the immediate post-pandemic period, when a colossal amount of pent-up demand was released all at once, is a one-time situation. It's this third factor that's driven severe supply constraints and logistics bottlenecks across the world, and it may be the biggest driver of inflation today.

As Fed Chair Powell recently said: "The process of reopening the economy is unprecedented, as was the shutdown at the onset of the pandemic. As the reopening continues, bottlenecks, hiring difficulties, and other constraints could again prove to be greater and longer lasting than anticipated, posing upside risks to inflation."

However, he added: "While these supply effects are prominent for now, they will abate, and as they do, inflation is expected to drop back toward [the Fed's] longer-run goal."

DEFLATIONARY TRENDS

Powell and the Fed expect inflation to average 2.2% in 2022, down from 4.2% this year. If that's the case, the "inflation is transitory" camp will have won out, putting inflation back on a much more subdued path, in line with what the economy saw during the decade after the financial crisis.

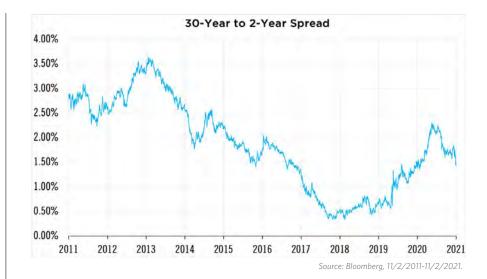
In the period between the end of 2009 and the end of 2019, inflation only averaged 1.8%, while interest rates lurched ever lower.

The great savings glut, an aging of the population and deflationary technological trends were factors driving inflation and rates downward during that period. If those secular trends reassert themselves, today's high levels of inflation won't last long.

On the other hand, if something has truly changed post-COVID—say, sustained, higher levels of fiscal spending—perhaps inflation could linger at more elevated levels than before. The economy only has a certain amount of productive capacity. If there's more demand than supply, higher prices will result.

RISKS TO BOND ETFs

Nowhere would the risk of high inflation manifest itself more clearly than in the



bond market. Bond investors are hypersensitive to vagaries in the inflation rate, as inflation matters a great deal regarding what "real" (inflation-adjusted) return those investors receive.

Higher-than-expected inflation could spark a sell-off in bonds, particularly in bonds with longer maturities that are more sensitive to changes in interest rates (bond prices and yields move inversely). The **iShares 20+ Year Treasury Bond ETF (TLT)** dropped 5.9% this year, as long-term rates climbed off their record lows of 2020.

The **iShares 7-10 Year Treasury Bond ETF (IEF)**, which hews closely to the all-important 10-year Treasury bond, has fallen 3.9% on a year-to-date basis.

If inflation surprises to the upside, these ETFs will likely take a hit. Conversely, they could also rally if the long-term disinflationary trend that was evident prepandemic reasserts itself.

CREDIT SPREADS & CORPORATE BONDS

Corporate bond ETFs, like the iShares iBoxx USD Investment Grade Corporate Bond ETF (LQD) and the iShares iBoxx USD High Yield Corporate Bond ETF (HYG), face a somewhat different dynamic than Treasuries. Interest rates matter for them, of course, but so do credit spreads—or the additional yield that investors demand for taking on credit risk.

As the economy has boomed and corporations find themselves flush with cash, credit spreads have narrowed to all-timelow levels, offsetting some of the negative pressure from rising rates. LQD is down 1.9% on a year-to-date basis, but HYG has risen by 2.5%.

DEBATE RAGES ON

With the Fed set to begin unwinding its massive stimulus programs in the coming months, all eyes will be on the inflation data. The trajectory for consumer prices will have ramifications for how quickly or slowly the central bank tightens its monetary spigots, shifting interest rates in the process.

Recently, just the hint of the Fed tapering its bond purchases in the coming months was enough to push rates all over the place.

Since the start of the year, the 30-year Treasury bond yield, which is sensitive to inflation expectations, edged up from 1.64% to 1.97%, while the two-year Treasury yield, which is driven more by the Fed's policy rate, surged from 0.12% to 0.51%, its highest point in a year and a half.

This flattening of the yield curve is a win of the "inflation is transitory" camp, though the inflation debate is far from over. ●

Harbor Capital: Accessing Income With Science

The ETF issuer offers investors a compelling angle on fixed income investing



Steve Cook

Managing Director & Head of ETFs

Harbor Capital

Steve Cook, managing director and head of ETFs at Harbor Capital, explains scientific fixed income investing, how it may help investors achieve their income investing goals, and ways to access the approach with Harbor Scientific Alpha ETFs.

Tell us about scientific fixed income investing. What are the potential benefits to investors?

The scientific method has been the primary means of solving hard problems for over 400 years. In a scientific light, investing is data-driven decision-making in the face of uncertainty. We believe that this challenge can be robustly met with the application of a scientific investment process.

At its essence, scientific fixed income investing stipulates that its investment process is grounded in the scientific method and subject to continual refinement.

What does this mean? It means that the investment process engages in each aspect of the scientific method—systematic observation, gathering of information, formulation of hypotheses, experimentation, drawing conclusions, and the continual modification of hypotheses.

We recently launched our first two ETFs at Harbor. Each is managed by BlueCove, who are seasoned professionals in scientific fixed income portfolio management.

Using this scientific process is obviously a distinctly different approach than what

Scientific Method

- · Mitigates cognitive and behavioral biases
- Improves transparency and lowers costs
- Optimizes portfolio construction



- · People build the investment process
- · People validate it
- · People drive continuous improvement



Trusted Partnerships > Trusted Solutions

BlueCove's Business Model Is Custom-Built for Scientific Investing



many investors would consider traditional discretionary active, or index investing in fixed income, and has exhibited multiple outcome benefits for investors, including:

- Has the potential to offer low correlations to traditional discretionary strategies while removing unwanted market exposures
- Can potentially improve returns by mitigating cognitive and behavioral biases that can compromise traditional discretionary investment strategies via the application of tested market insights across a large set of instruments and markets
- Harnesses large datasets to help create innovative sources of alpha
- Applies modern portfolio construction techniques by targeting consistent risk-adjusted returns while mitigating transactions costs
- Adapts to changes in market behavior by transparently attributing performance

You mentioned BlueCove is the investment manager of your Scientific Fixed Income ETFs. Why was BlueCove the right fit?

It's important to share that sourcing specialized investment talent is at Harbor's core. BlueCove stands out as a firm that is solely dedicated to scientific fixed income investment management.

The firm was founded in 2018, and brings together leading fixed income industry investment and engineering professionals with expertise and a collective passion for scientific investment management.

BlueCove is focused on researching and developing state-of-the-art scientific investment processes applicable to fixed income investment management. Their mission is to create market-leading scientific fixed income investment solutions designed to give investors both an alternative and a complement to the index-based and traditional active discretionary fixed income strategies that dominate the industry today.

More specifically, their approach to the management of fixed income aims to strip the traditional investment process of its weaknesses. It is thus reduced to its component parts—universe definition, data sourcing, alpha sourcing, portfolio construction, trade execution and process review—which are then reassembled, with people and technology assigned the roles to which BlueCove feels they are best suited.

BlueCove uses a firm-level investment process in which human discretion is principally focused on process design and improvement and directed away from areas in which it is relatively weak, such as subjective forecasting.

When BlueCove's capabilities are coupled with its scientific investment process, the firm is able to create innovative and powerful active investment solutions. It is this combination, joined with the added potential benefits of the ETF structure, that we feel makes our new ETFs so compelling.

Tell us more about your new ETF offerings, SIFI and SIHY. Why these strategies, and why was now the right time to launch these ETFs?

Historically, fixed income investors have had two choices: traditional active discretionary investing or index investing. We believe that scientific active fixed income investing provides a compelling third choice to investors looking to achieve alpha potential plus income, a particularly welcome choice in today's low yield environment.

The Harbor Scientific Alpha Income ETF (SIFI) seeks to provide income and total return to investors with a lower volatility than investing solely in the high yield market. The Harbor Scientific Alpha High-Yield ETF (SIHY) seeks to outperform a broad USD high yield index while also delivering high-yielding income to investors.

Both are active strategies that we believe have a place in investor and allocator portfolios in all market conditions. We believe investors will welcome the potential

Firm-level Investment Process Breadth Implementation Skill 5 6 Universe Portfolio Trade **Process** Data Alpha Definition Sourcing Sourcing Construction Execution Review R&D R&D R&D R&D R&D R&D

for diversifying their core allocations with new sources of high quality returns versus similarly themed traditionally active or index products.

Ultimately, SIFI and SIHY offer cost-efficient solutions to gaining access to differentiated, actively managed and scientifically driven fixed income exposure in the U.S. multisector and high yield bond categories.

This is a challenging market environment for income-seeking investors. How may scientific fixed income and your ETFs benefit investors?

Scientific investing is characterized by higher instrument liquidity, broad portfolio diversification, and a transparent portfolio construction framework that takes into account transaction costs, risk and liquidity considerations.

In the current environment, many income-seeking investors are looking to diversify their exposures through differentiated strategies.

BlueCove's proprietary investment process is designed to deliver multiple potential outcome benefits to a portfolio, such as enhanced alpha, increased diversification, reduced risk potential, plus income generation. Because of this, both SIFI and SIHY may be impactful solutions for many investors in the current environment.

About Harbor

Harbor offers a diverse family of cost-aware investment solutions managed by institutional-caliber firms. We source talented investment teams to manage portfolios and apply a rigorous fiduciary oversight program to monitor their performance and investment decisions. Harbor had combined assets under management of approximately \$63 billion as of September 30, 2021. For more information, visit harborcapital.com.

BEFORE INVESTING YOU SHOULD CAREFULLY CONSIDER A FUND'S INVESTMENT OBJECTIVES, RISKS, CHARGES, AND EXPENSES. THIS AND OTHER INFORMATION IS IN THE PROSPECTUS. PLEASE READ THE PROSPECTUS CAREFULLY BEFORE YOU INVEST. FOR PROSPECTUS OR SUMMARY PROSPECTUS WITH THIS AND OTHER INFORMATION ABOUT THE FUND, PLEASE VISIT OUR WEBSITE AT WWW.HARBORCAPITAL.COM.

All investments involve risk including the possible loss of principal. Fixed income securities fluctuate in price in response to various factors, including changes in interest rates, changes in market conditions and issuer-specific events, and the value of your investment in the Fund may go down. There is a greater risk that the Funds will lose money because they invest in below investment-grade fixed income securities and unrated securities of similar credit quality (commonly referred to as "high-yield securities" or "junk bonds"). These securities are considered speculative because they have a higher risk of issuer default, are subject to greater price volatility, and may be illiquid. Because the Funds may invest in securities of foreign issuers, an investment in the Funds is subject to special risks in addition to those of U.S. securities. These risks include heightened political and economic risks, greater volatility, currency fluctuations, higher transaction costs, delayed settlement, possible foreign controls on investment, possible sanctions by government bodies of other countries and less stringent investor protection and disclosure standards of foreign markets.

Unlike mutual funds, ETFs may trade at a premium or discount to their net asset value. The ETFs are new and have limited operating history to judge.

Foreside Fund Services, LLC is the Distributor of the Harbor Scientific Alpha High-Yield ETF and the Harbor Scientific Alpha Income ETF.

BlueCove Limited is a third-party subadviser to the Harbor Scientific Alpha Income ETF and the Harbor Scientific Alpha High-Yield ETF.

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Recapping ETF.com's recent webinar featuring a lively discussion among bitcoin and crypto ETF experts



CRYPTO ETFS UNPACKED

ETF.com's webinar "Unpacking The Crypto ETF Dilemma" was a fast-paced, insightful rundown of the crypto ETF space, with plenty of broader cryptorelated nuggets of information thrown in as well.

The panel—which consisted of Bitwise's Matt Hougan, Ric Edelman of the Digital Assets Council of Financial Professionals and CME Group's Tim McCourt— was broadly in agreement that the recent launch of bitcoin futures ETFs was a significant step toward bringing the new crypto asset class to mainstream investors.

"We should applaud the SEC for approving the first bitcoin futures ETFs," said Matt Hougan, chief investment officer of Bitwise. He noted that the crypto industry wasn't mature enough to support an ETF back in 2013, when the first bitcoin ETF attempted to come to market, but it is now.

"Over the past eight years, the crypto industry has matured incredibly. There were a large number of regulated insured custodians in the market; we've seen [the CME Group] bring regulated bitcoin futures to the market; and billions of dollars of bitcoin trade per day at pennywide spreads. We've emerged into a truly institutional ecosystem," he noted.

FLOURISHING FUTURES MARKET

Of course, the latest batch of bitcoin futures ETFs wouldn't have been possible without the growth and success of the underlying bitcoin futures market. Tim McCourt, managing director and global head of equity products at CME Group, explained how his firm's futures contracts work and why they've been so popular.

"The bitcoin futures are financially settled, which makes it easy for market participants who are already trading futures contracts to make that leap into trading crypto derivatives. It works the same way e-mini S&P 500 futures or micro Nasdaq futures work," he said.

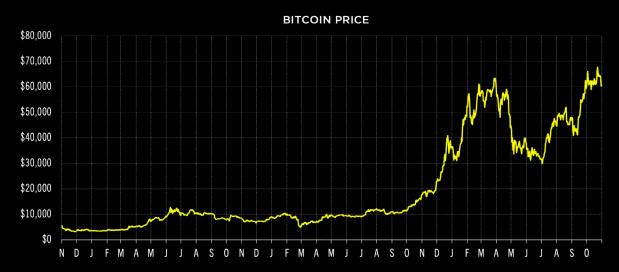
McCourt noted that there's a wide range of market participants who use the contracts: "We have active individual traders, we have institutions, we have asset managers, hedge funds and crypto firms."

"The contract has grown up a lot and emulates a lot of the characteristics and benefits that futures contracts provide in other asset classes. You have commercial end users. you have professional trading firms, you have liquidity providers, you have hedgers, you have people who are being a little bit more opportunistic about their trading," he added.

"It's that diversity of personalities that really enable efficient, two-way price discovery and offers all of this in a regulated futures market in the U.S. It's enabling some of the product innovations that we're seeing such as ETFs and other structured products around the globe," McCourt continued.

A BETTER ETF

As excited as Hougan is about bitcoin futures and bitcoin futures ETFs, his firm, Bitwise, is focused on another type of product.



Source: Bloomberg, 11/18/2018-11/17/2021.

Bitwise had previously filed for a bitcoin futures ETF, but it recently withdrew the application. Instead, the fund manager is now focused on bringing a spot bitcoin ETF to market, a product that Hougan says is superior.

"For long-term investors, a spot-based ETF is a better solution. Futures-based ETFs are a valid and important product, particularly for short-term traders, but they face a number of significant challenges, including that the bitcoin futures market has historically traded in contango, and that contango has represented a 5-10% annualized head wind," he explained.

"I do think we'll get a spot-based ETF much sooner than many people anticipate. I think we're closer than we've ever been, and I feel relatively certain that it won't be three years until we get a spot-based ETF; it's going to happen sooner than that," Hougan added.

ADVISORS NEED TO CONSIDER CRYPTO

Ric Edelman, founder of the Digital Assets Council of Financial Professionals and a financial advisor with more than 30 years of experience, agreed with Hougan's prediction for a spot bitcoin ETF.

"We'll eventually get there, but in the meantime, the price has been continuing to rise," he said. "So, the question for investment advisors is, how long are you going to wait?"

\$6,000 \$5,000 \$4,000 \$3,000 \$1,000 \$0 NDJFMAMJJASONDJFMAMJJASONDJFMAMJJASO

Source: Bloomberg, 11/18/2018-11/17/2021.

Most advisors are still not investing in bitcoin and crypto, which, according to Edelman, is a problem.

"It doesn't matter whether you like bitcoin or not. Take a look at your diversified portfolios today. You already have assets in your portfolio you don't like. But you have them there anyway because you recognize the importance of broad-based diversification," he said.

"Bitcoin has proved itself as an asset that's additive to your effort to provide your clients with improved returns and lower risks. That's all there is to it," Edelman noted.

He added that there are many financial products offering exposure to crypto that advisors and investors can use in portfolios. In addition to bitcoin futures ETFs, he pointed out that there are ETFs of crypto-related companies and OTC-traded index funds from firms like Bitwise that are easily accessible.

MERITS OF ETHEREUM

The panel was particularly bullish on the prospects for Ethereum and some of the other smart contract platforms. While bitcoin has greater name recognition and holds the "store of value" crown within the crypto space, Ethereum is fundamentally rewiring how big parts of the world work, they said.

"If you're an investor in the crypto space, and your thesis isn't specific to wanting a nonsovereign store of value as a hedge against runaway inflation," you need more than just bitcoin, explained Bitwise's Hougan.

"If you're making a bet on the idea that programmable money is going to be a big thing; if you're making a bet on the idea that digital property rights are going to be a big thing; if you're making a bet on the idea that Web 3 is going to be a big thing, then you need exposure to these other more powerful, more flexible blockchains, like Ethereum and Solana," he added.

Hougan suggested taking a look at the Bitwise 10 Crypto Index Fund (BITW), the world's first crypto index fund, which is available both as private placement and an OTC-traded product.

The above summary is a brief overview of all the topics covered in the webinar. Hougan, Edelman and McCourt also answered myriad audience questions pertaining to everything from the energy efficiency of various blockchains to the merits of investing in crypto-related companies versus cryptoassets directly. **Check out the full webinar** on ETF.com. •



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U.S.-LISTED ETFs BY ASSET CLASS AND YEAR-TO-DATE RETURN

- **>** Data as of 10/31/2021
- > Exp Ratio is annual expense ratio
- > AUM is net assets in \$US millions
- > YTD is year-to-date
- > 3YR and 5YR returns are annualized
- > Includes all U.S.-listed ETFs and ETNs with assets of \$177 million and above
- > Source: ETF.com

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
U.S. EQUITY: TOTAL MARKET						
Cambria Shareholder Yield	SYLD	0.59	311.4	42.20	22.40	18.68
Invesco BuyBack Achievers	PKW	0.64	1,810.0	29.23	19.37	16.50
Shares ESG MSCI USA Leaders	SUSL	0.10	4,221.3	28.27	-	-
Xtrackers MSCI USA ESG Leaders Equity	USSG	0.10	4,096.6	28.27	-	-
iShares MSCI KLD 400 Social	DSI	0.25	3,816.7	28.13	24.43	20.03
Vident Core US Equity	VUSE	0.48	437.1	28.04	13.50	12.87
VictoryShares USAA MSCI USA Val Mom	ULVM	0.20	372.6	27.48	13.27	-
Schwab Fundamental US Broad Market	FNDB	0.25	397.6	27.05	17.67	15.77
iShares MSCI USA ESG Select	SUSA	0.25	4,079.5	26.51	24.88	20.33
Avantis US Equity	AVUS	0.15	1,648.2	25.35	-	-
IQ Candriam ESG US Equity	IQSU	0.09	479.6	25.03	-	-
FlexShares Mstar US Market Factor Tilt	TILT	0.25	1,725.7	24.64	19.44	17.07
TrimTabs US Free Cash Flow Quality	TTAC	0.59	208.6	24.62	18.98	18.98
FlexShares STOXX US ESG Select	ESG	0.32	191.1	24.44	22.09	19.55
SPDR Portfolio S&P 1500 Composite	SPTM	0.03	5,772.9	24.00	21.17	18.60
American Century STOXX US Qual Growth	QGRO	0.29	242.9	23.76	29.80	-
Shares ESG Advanced MSCI USA	USXF	0.10	485.4	23.74	-	-
Shares MSCI USA Equal Weighted	EUSA	0.09	495.6	23.60	19.50	16.47
Shares ESG Aware MSCI USA	ESGU	0.15	23,552.4	23.59	22.75	-
Goldman Sachs MarketBeta US Equity	GSUS	0.07	444.5	23.54	-	-
iShares MSCI USA Quality Factor	QUAL	0.15	24,131.7	23.38	21.33	18.56
IPMorgan BetaBuilders US Equity	BBUS	0.02	781.1	23.27	-	-
iShares Dow Jones US	IYY	0.20	1,789.4	23.16	21.51	18.73
Invesco PureBeta MSCI USA	PBUS	0.04	2,544.8	23.08	22.03	-
Vanguard ESG US Stock	ESGV	0.12	5,769.1	23.07	24.18	-
Schwab US Broad Market	SCHB	0.03	23,161.1	23.01	21.63	18.89
iShares MSCI USA Size Factor	SIZE	0.15	642.9	22.90	19.49	16.68
Vanguard Total Stock Market	VTI	0.03	282,562.1	22.88	21.66	18.93
Shares Core S&P Total US Stock Market	ITOT	0.03	44,978.6	22.85	21.52	18.86
iShares Russell 3000	IWV	0.20	12,452.7	22.66	21.39	18.70
Global X Conscious Companies	KRMA	0.43	741.8	22.66	20.78	18.64
Innovator IBD 50	FFTY	0.80	272.4	22.66	17.20	17.94
Dimensional US Core Equity Market	DFAU	0.12	1,326.1	22.64	-	-
Vanguard Russell 3000	VTHR	0.10	1,187.7	22.62	21.46	18.77
Vanguard US Momentum Factor	VFMO	0.13	186.0	22.56	22.14	-
VanEck Morningstar Wide Moat	MOAT	0.47	6,987.3	22.55	21.80	19.59
Motley Fool 100	TMFC	0.50	548.4	22.28	28.95	-
Al Powered Equity	AIEQ	0.80	247.6	22.05	21.77	-
SPDR MSCI USA StrategicFactors	QUS	0.15	1,011.8	21.76	19.21	17.47

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Shares Morningstar US Equity	ILCB	0.03	939.3	20.76	20.19	17.62
Fidelity NASDAQ Composite	ONEQ	0.21	4,698.1	20.61	29.72	25.51
American Century STOXX US Quality Value	VALQ	0.29	216.2	20.54	11.59	-
Shares Core Dividend Growth	DGRO	0.08	21,078.1	20.39	17.68	17.02
WisdomTree US Total Dividend	DTD	0.28	978.0	20.21	13.77	13.16
Etho Climate Leadership US	ETH0	0.48	192.4	20.01	23.69	20.40
FlexShares Quality Dividend	QDF	0.37	1,644.0	19.76	13.04	12.87
Shares MSCI USA Multifactor	LRGF	0.20	1,235.7	19.52	15.16	14.70
Shares MSCI USA Momentum Factor	MTUM	0.15	16,985.1	18.60	22.50	21.64
FlexShares Quality Dividend Defensive	QDEF	0.37	448.4	18.57	12.66	12.84
Invesco Dividend Achievers	PFM	0.53	701.6	17.84	15.51	13.84
Vanguard Dividend Appreciation	VIG	0.06	64,798.6	17.81	18.76	17.05
WisdomTree US Quality Dividend Growth	DGRW	0.28	6,663.4	17.22	17.13	17.06
Legg Mason Low Volatility High Dividend	LVHD	0.27	744.5	16.90	10.80	9.86
SPDR SSGA US Sector Rotation	XLSR	0.70	186.0	15.72	-	-
Shares MSCI USA Min Vol Factor	USMV	0.15	29,090.1	15.47	14.48	14.11
Goldman Sachs Hedge Industry VIP	GVIP	0.45	225.5	12.11	24.26	
nvesco DWA Momentum	PDP	0.62	1,865.1	11.32	22.83	19.17
First Trust US Equity Opportunities	FPX	0.57	2,055.1	10.64	24.98	20.81
Renaissance IPO	IP0	0.60	509.7	6.31	37.74	28.04
Dimensional US Core Equity 2	DFAC	0.19	14,448.5	0.31	37.74	20.04
Dimensional US Equity	DFUS	0.13		··············	········ -	
/anEck Social Sentiment	BUZZ	0.75	6,028.3 192.9	······		
J.S. EQUITY: TOTAL MARKET GROWTH	DUZZ	0.73	192.9	-	-	-
	IIICC	0.04	12 120 2	20 40	20.00	22.47
Shares Core S&P US Growth	IUSG	0.04	13,120.2	26.49	26.68	23.47
Share Morningstar Growth	ILCG	0.04	2,237.3	22.84	28.65	25.29
First Trust Multi Cap Growth AlphaDEX	FAD	0.63	257.6	21.58	23.48	20.75
American Century Focused Dyn Growth	FDG	0.45	218.4	18.03		
anus Henderson Sm/Mid Cap Gro Alpha	JSMD	0.30	200.7	8.42	18.85	19.14
J.S. EQUITY: TOTAL MARKET VALUE						
Vanguard US Value Factor	VFVA	0.14	437.2	32.99	13.98	-
Alpha Architect US Quantitative Value	QVAL	0.49	224.3	28.97	9.80	11.38
SPDR S&P 1500 Value Tilt	VLU	0.12	229.6	26.97	17.21	15.67
Shares Morningstar Value	ILCV	0.04	788.6	21.30	12.30	12.07
Shares Core S&P US Value	IUSV	0.04	11,126.9	20.88	14.43	12.98
Shares MSCI USA Value Factor	VLUE	0.15	15,460.1	20.70	10.65	12.67
Dimensional US Targeted Value	DFAT	0.34	6,462.5	-	-	-
U.S. EQUITY: EXTENDED CAP						
Invesco FTSE RAFI US 1500 Small-Mid	PRFZ	0.39	1,880.6	26.99	15.54	14.89
First Trust SMID Cap Rising Div Achievers	SDVY	0.60	285.8	25.20	16.48	
Shares Russell 2500	SMMD	0.15	386.8	19.43	18.33	-
Vanguard Extended Market	VXF	0.06	18,228.8	17.66	21.94	18.58
J.S. EQUITY: LARGE CAP						
nvesco S&P 500 High Beta	SPHB	0.25	1,512.8	39.52	28.60	21.62
Pacer Lunt Large Cap Alternator	ALTL	0.60	210.6	37.36	-	-
Pacer US Cash Cows 100	COWZ	0.49	940.5	35.53	19.61	-
HCM Defender 500	LGH	1.25	301.1	33.45	-	-
SPDR Russell 1000 Yield Focus	ONEY	0.20	704.2	31.32	16.12	14.31
Overlay Shares Large Cap Equity	0VL	0.79	208.5	27.31	-	-
Schwab Fundamental US Large Company	FNDX	0.25	8,165.1	26.92	17.77	15.88
SPDR Portfolio S&P 500 High Dividend	SPYD	0.07	5,071.6	26.91	8.84	9.04
nvesco FTSE RAFI US 1000	PRF	0.39	5,571.3	26.82	16.89	15.10
SPDR S&P 500 ESG	EFIV	0.10	352.3	26.45	-	-
/ictoryShares US EQ Income Enh Vol Wtd	CDC	0.37	993.7	26.45	17.10	14.37
/ictoryShares US Lrg Cap High Div Vol Wtd	CDL	0.35	226.1	26.39	13.14	12.05
ProShares Large Cap Core Plus	CSM	0.46	511.3	26.29	16.66	15.34
nvesco S&P 500 Top 50	XLG	0.20	2,274.7	26.23	24.07	20.96
irst Trust Rising Dividend Achievers	RDVY	0.50	6,674.5	26.22	21.60	19.28
trackers S&P 500 ESG	SNPE	0.10	815.9	25.84	21.00	13.20
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nvesco RAFI Strategic US	IUS	0.19	183.3	25.44	19.68	16 14
nvesco S&P 500 Equal Weight	RSP	0.20	30,633.7	25.08	19.04	16.14
Fidelity Quality Factor	FQAL	0.29	225.1	24.88	19.96	18.10
U DO Famal Casta (Mariata)	FOI	0.00	010 4			
	EQL	0.28	212.4	24.79	18.31	15.65
ALPS Equal Sector Weight Inspire 100 iShares S&P 100	EQL BIBL OEF	0.28 0.35 0.20	212.4 293.9 8,822.3	24.79 24.74 24.72	18.31 23.07 22.64	15.65 - 19.70

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Path Shiller CAPE ETN	CAPE	0.45	455.1	24.71	22.03	19.92
lobal X S&P 500 Catholic Values	CATH	0.29	593.2	24.53	21.30	18.91
Shares ESG Screened S&P 500	XVV	0.08	277.3	24.42		.
rvesco S&P 500 Revenue	RWL	0.39	1,086.9	24.35	16.54	15.48
nvesco Russell 1000 Dynamic Multifactor	OMFL	0.29	1,847.2	24.26	22.82	-
anguard S&P 500	V00	0.03	267,483.9	24.08	21.44	18.87
PDR Portfolio S&P 500	SPLG	0.03	13,181.0	24.07	21.67	18.94
irst Trust Large Cap Core AlphaDEX	FEX	0.59	1,207.8	24.06	16.84	14.71
PDR S&P 500 Trust	SPY	0.09	416,428.3	24.05	21.42	18.81
Shares Core S&P 500	IVV	0.03	315,543.9	24.04	21.43	18.88
lain Sector Rotation	SECT	0.78	1,002.7	23.91	19.06	-
anguard Mega Cap	MGC	0.07	4,379.8	23.62	22.46	19.81
anguard Large-Cap	W	0.04	27,171.9	23.57	22.19	19.33
Shares Russell Top 200	IWL	0.15	980.9	23.53	22.61	19.97
ivesco QQQ Trust	QQQ	0.20	200,420.3	23.50	32.45	27.98
ivesco NASDAQ 100	QQQM	0.15	2,503.7	23.44	-	
acer Trendpilot US Large Cap	PTLC	0.60	2,013.0	23.44	12.88	13.34
chwab US Large-Cap	SCHX	0.03	34,100.4	23.44	22.06	19.25
ay Hagan/ND Research Smart Sector	SSUS	0.81	333.7	23.39	-	-
anguard Russell 1000	VONE	0.08	2,785.8	23.21	21.95	19.07
PMorgan US Momentum Factor	JMOM	0.12	221.1	23.20	23.45	-
PDR Russell 1000 Momentum Focus	ONEO	0.20	325.9	23.20	16.13	14.23
PDR S&P 500 Fossil Fuel Reserves Free	SPYX	0.20	1,262.5	23.18	21.82	19.23
Shares Russell 1000	IWB	0.15	31,849.2	23.06	21.83	19.00
ovesco S&P 500 Quality	SPHQ	0.15	3,251.1	23.04	20.83	17.64
chwab 1000	SCHK	0.05	2,228.0	22.90	21.80	-
oldman Sachs Equal Wt US Large Cap	GSEW	0.09	903.2	22.84	19.52	.
ohn Hancock Multifactor Large Cap	JHML	0.29	781.7	22.83	20.33	17.82
PMorgan Diversified Return US Equity	JPUS	0.18	710.9	22.68	15.65	14.39
/isdomTree US LargeCap	EPS	0.08	629.0	22.55	18.71	17.38
PDR Russell 1000 Low Volatility Focus	ONEV	0.20	583.0	22.50	16.83	15.19
PMorgan US Quality Factor	JQUA	0.12	391.6	22.38	19.60	
NY Mellon US Large Cap Core Equity	BKLC	0.00	390.5	22.25	-	
oldman Sachs JUST US Large Cap Equity	JUST	0.20	276.4	22.20	20.65	-
oldman Sachs ActiveBeta US Large Cap	GSLC	0.09	14,143.2	22.01	20.31	18.23
Q Chaikin US Large Cap	CLRG	0.25	326.4	21.80	15.17	-
rincipal US Mega-Cap	USMC	0.12	2,439.4	21.64	19.09	-
ivesco Russell 1000 Equal Weight	EQAL	0.20	689.2	21.60	17.53	14.93
trackers Russell US Multifactor	DEUS	0.17	207.8	21.43	16.35	14.48
ictoryShares US 500 Volatility Wtd	CFA	0.35	709.0	21.29	17.83	16.16
artford Multifactor US Equity	ROUS	0.19	402.9	21.27	13.63	14.05
ictoryShares US 500 Enhanced Vol Wtd	CF0	0.35	1,028.1	21.26	17.77	16.08
PDR SSGA US Large Cap Low Volatility	LGLV	0.12	633.6	20.88	17.64	16.07
irst Trust Lunt US Factor Rotation	FCTR	0.65	561.7	20.88	23.23	-
imothy Plan US Large/Mid Cap Core	TPLC	0.52	197.4	20.49	-	-
istillate US Fundamental Stability & Val	DSTL	0.39	431.6	20.28	21.63	-
PDR SSGA Gender Diversity	SHE	0.20	293.3	20.21	18.19	16.10
LPS Sector Dividend Dogs	SDOG	0.40	1,185.9	20.05	10.40	9.36
idelity Low Volatility Factor	FDLO	0.29	515.2	19.49	18.16	17.27
irst Trust Capital Strength	FTCS	0.56	8,702.4	19.47	16.31	15.76
ranklin LibertyQ US Equity	FLQL	0.15	968.1	19.33	16.98	
avis Select US Equity	DUSA	0.62	398.0	19.28	17.15	
/isdomTree US LargeCap Dividend	DLN	0.28	3,177.8	19.23	14.53	13.78
roShares S&P 500 Dividend Aristocrats	NOBL	0.35	9,237.1	19.07	15.35	13.34
implify US Eq PLUS Downside Convexity	SPD	0.29	352.0	18.96	-	<u> </u>
PDR Dow Jones Industrial Average	DIA	0.16	29,903.8	18.69	14.92	17.05
mplify CWP Enhanced Dividend Income	DIVO	0.55	763.8	18.56	16.16	<u> </u>
T Cboe Vest S&P 500 Div Aristo Target Inc	KNG	0.75	294.4	18.50	15.39	- -
HA Market State Tactical Beta	MSTB	1.18	294.5	18.35	-	-
nvesco S&P 500 High Dividend Low Vol	SPHD	0.30	2,979.1	18.04	6.92	7.09
/isdomTree US Dividend ex-Financials	DTN	0.38	544.8	17.50	8.05	8.27
lobal X S&P 500 Covered Call	XYLD	0.60	669.6	17.41	8.65	10.00
ovesco Defensive Equity	DEF	0.53	260.8	17.38	15.39	14.53
PMorgan Equity Premium Income	JEPI	0.35	4,481.0	16.87		-
ictoryShares Dividend Accelerator	VSDA	0.35	340.2	16.85	18.30	<u>.</u>
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FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Direxion NASDAQ-100 Equal Weighted	QQQE	0.35	430.3	16.42	27.14	21.91
0?Shares US Quality Dividend	OUSA	0.48	729.7	16.41	14.32	13.24
Aptus Drawdown Managed Equity	ADME	0.79	292.0	16.33	11.26	11.85
6 Meridian Hdgd Equity-Index Option	SIXH	0.87	251.2	15.02	-	-
Invesco S&P 500 Low Volatility	SPLV	0.25	8,059.5	14.69	12.17	11.80
FT Choe Vest US Equity Buffer - February	FFEB	0.85	263.3	14.43	-	-
Aptus Collared Income Opportunity	ACIO	0.79	315.8	14.43	-	-
Invesco NASDAQ Next Gen 100	QQQJ	0.15	1,241.9	13.34	-	-
Invesco S&P 500 Downside Hedged	PHDG	0.40	249.8	12.02	11.04	11.13
Pacer Trendpilot 100	PTNQ	0.65	814.3	11.53	21.14	21.10
FT Cboe Vest Fund of Buffer	BUFR	1.05	443.5	10.15	-	-
Global X NASDAQ 100 Covered Call	QYLD	0.60	5,025.2	9.98	10.61	11.19
FT Choe Vest US Equity Buffer - August	FAUG	0.85	208.8	9.40	-	-
Innovator US Equity Buffer - July	BJUL	0.79	183.1	8.93	10.03	-
Nationwide Risk-Managed Income	NUSI	0.68	756.5	8.88	-	-
Innovator US Equity Power Buffer - Oct	POCT	0.79	209.8	8.27	9.06	-
Innovator US Equity Power Buffer - Jan	PJAN	0.79	296.0	8.21	-	-
FT Choe Vest US Equity Deep Buffer - Feb	DFEB	0.85	250.3	7.92	-	-
Innovator US Equity Power Buffer - Sept	PSEP	0.79	303.4	7.31	-	-
Innovator US Equity Power Buffer - May	PMAY	0.79	239.1	6.68	-	-
Innovator US Equity Power Buffer - April	PAPR	0.79	242.8	6.62	-	-
Innovator US Equity Power Buffer - August	PAUG	0.79	186.1	6.12		
Innovator US Equity Power Buffer - July	PJUL	0.79	219.0	5.98	7.35	
Nuveen Growth Opportunities	NUGO	0.55	1,677.9	-		
Invesco S&P 500 QVM Multi-Factor	QVML	0.11	809.5	-		
FT Choe Vest Fund of Deep Buffers	BUFD	1.05	212.9	-		
U.S. EQUITY: LARGE CAP GROWTH						
Invesco S&P 500 Pure Growth	RPG	0.35	3,458.8	30.04	25.95	21.53
Invesco S&P 500 GARP	SPGP	0.36	650.0	29.66	25.23	24.08
Nuveen ESG Large-Cap Growth	NULG	0.25	933.9	27.90	31.84	-
Vanguard S&P 500 Growth	VOOG	0.10	7,178.2	27.03	27.18	23.65
SPDR Portfolio S&P 500 Growth	SPYG	0.04	14,723.9	27.00	27.25	23.70
iShares S&P 500 Growth	IVW	0.18	38,419.1	26.89	27.06	23.57
Schwab US Large-Cap Growth	SCHG	0.04	17,213.6	25.96	30.08	25.56
iShares Russell Top 200 Growth	IWY	0.20	4,513.2	25.66	29.98	26.23
SoFi Select 500	SFY	0.00	352.4	25.31		
Vanguard Mega Cap Growth	MGK	0.07	13,309.8	25.18	30.48	25.54
Vanguard Growth	VUG	0.04	88,011.6	24.48	30.13	24.78
First Trust Large Cap Growth AlphaDEX	FTC	0.60	1,307.4	24.31	24.97	20.53
Vanguard Russell 1000 Growth	VONG	0.08	7,829.0	24.25	29.30	25.37
iShares Russell 1000 Growth	IWF	0.19	76,990.9	24.10	29.15	25.26
Invesco Dynamic Large Cap Growth	PWB	0.56	833.5	17.19	21.79	21.25
U.S. EQUITY: LARGE CAP VALUE						
Invesco S&P 500 Pure Value	RPV	0.35	2,903.5	30.80	9.66	11.12
JPMorgan US Value Factor	JVAL	0.12	432.6	25.73	16.40	-
Fidelity Value Factor	FVAL	0.29	432.4	24.24	17.25	16.68
Invesco Dynamic Large Cap Value	PWV	0.58	778.0	24.19	12.72	11.32
First Trust Large Cap Value AlphaDEX	FTA	0.60	1,093.2	23.57	10.00	9.67
Vanguard Russell 1000 Value	VONV	0.08	6,970.7	22.04	13.85	12.29
Vanguard Value	VTV	0.04	88,393.0	22.00	13.73	13.59
iShares Russell 1000 Value	IWD	0.19	56,808.4	21.89	13.73	12.21
Vanguard Mega Cap Value	MGV	0.07	4,713.7	21.22	13.74	13.74
Schwab US Large-Cap Value	SCHV	0.04	10,089.8	21.15	13.56	12.77
iShares Russell Top 200 Value	IWX	0.20	1,222.2	20.60	13.06	12.17
SPDR Portfolio S&P 500 Value	SPYV	0.04	13,241.5	20.56	14.42	13.10
Vanguard S&P 500 Value	VOOV	0.10	2,406.5	20.54	14.30	12.90
iShares S&P 500 Value	IVE	0.18	23,104.4	20.45	14.24	12.86
Nuveen ESG Large-Cap Value	NULV	0.25	1,178.6	19.73	13.51	-
American Century Focused Large Cap Value U.S. EQUITY: MID CAP	FLV	0.42	245.5	14.58	-	-
Invesco S&P MidCap 400 Revenue	RWK	0.39	401.5	28.38	17.92	14.49
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WisdomTree US MidCap Dividend	DON	0.38	3,055.7	26.25	10.94	10.70
WisdomTree US MidCap	EZM	0.38	802.5	26.01	14.87	13.60
First Trust Mid Cap Core AlphaDEX	FNX	0.60	1,061.0	24.52	17.10	15.15
JPMorgan Diversified Ret US Mid Cap	JPME	0.24	240.2	23.95	15.80	14.17
Invesco Zacks Mid-Cap	CZA	0.69	227.5	23.26	15.65	13.99

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Vanguard Mid-Cap	V0	0.04	55,173.6	23.07	20.66	16.78
Shares Core S&P Mid-Cap	IJH	0.05	66,134.7	22.33	17.03	14.83
SPDR Portfolio S&P 400 Mid Cap	SPMD	0.05	4,972.7	22.31	16.42	15.12
anguard S&P Mid-Cap 400	IV00	0.10	1,560.4	22.26	16.99	14.77
SPDR S&P Midcap 400 Trust	MDY	0.23	21,179.5	22.12	16.86	14.61
ohn Hancock Multifactor Mid Cap	JHMM	0.41	2,486.7	22.01	19.37	16.43
Shares Russell Mid-Cap	IWR	0.19	30,872.3	21.96	19.70	16.31
Shares Morningstar Mid-Cap	IMCB	0.04	925.7	21.61	18.59	15.27
nvesco S&P Midcap Quality	XMHQ	0.25	289.2	19.80	20.83	16.80
PMorgan BetaBuilders US Mid Cap Equity	BBMC	0.07	1,698.8	19.54	-	-
Schwab US Mid-Cap	SCHM	0.04	10,191.8	19.50	17.06	15.59
nvesco S&P Midcap Momentum	XMMO	0.33	1,012.7	16.24	24.68	25.33
nvesco S&P MidCap Low Volatility	XMLV	0.25	1,364.9	15.67	8.27	9.81
ProShares S&P MidCap 400 Div Aristocrats	REGL	0.41	1,030.0	14.52	10.52	10.02
Pacer Trendpilot US Mid Cap	PTMC	0.60	470.6	11.17	6.26	8.85
nvesco S&P MidCap 400 QVM Multi-Factor	QVMM	0.15	209.7	-	-	-
J.S. EQUITY: MID CAP GROWTH						
anguard Mid-Cap Growth	VOT	0.07	12,391.4	21.42	26.77	21.05
anguard S&P Mid-Cap 400 Growth	IVOG	0.15	942.4	18.42	18.79	16.23
Shares S&P Mid-Cap 400 Growth	IJK	0.17	8,453.4	18.39	18.75	16.18
nvesco S&P MidCap 400 Pure Growth	RFG	0.35	410.8	18.36	17.91	15.56
PDR S&P 400 Mid Cap Growth	MDYG	0.15	1,740.9	18.22	18.79	16.23
Shares Russell Mid-Cap Growth	IWP	0.23	16,614.0	17.22	25.92	21.65
Shares Morningstar Mid-Cap Growth	IMCG	0.06	1,348.0	16.69	28.90	23.72
luveen ESG Mid-Cap Growth	NUMG	0.30	400.2	16.68	28.05	
irst Trust Mid Cap Growth AlphaDEX	FNY	0.70	441.1	16.38	23.66	21.34
I.S. EQUITY: MID CAP VALUE		0.70		20.00	20.00	22.0
nvesco S&P MidCap Value w/ Momentum	XMVM	0.39	183.4	28.82	18.13	13.07
Shares Morningstar Mid-Cap Value	IMCV	0.06	481.8	28.62	12.24	11.14
luveen ESG Mid-Cap Value	NUMV	0.30	278.1	28.00	15.36	-
anguard S&P Mid-Cap 400 Value	IVOV	0.15	821.1	26.30	14.58	12.73
PDR S&P 400 Mid Cap Value	MDYV	0.15	1,602.1	26.24	14.60	12.74
Shares S&P Mid-Cap 400 Value	IJJ	0.18	9,185.6	26.17	14.40	12.64
Shares Russell Mid-Cap Value	IWS	0.23	14,737.8	24.32	14.86	12.09
anguard Mid-Cap Value	VOE	0.07	15,286.9	24.08	14.16	12.31
I.S. EQUITY: SMALL CAP						
nvesco S&P SmallCap 600 Revenue	RWJ	0.39	689.6	48.89	22.38	17.56
Pacer US Small Cap Cash Cows 100	CALF	0.59	513.1	37.91	19.06	-
VisdomTree US SmallCap	EES	0.38	651.0	29.95	13.15	14.54
rincipal US Small-Cap Multi-Factor	PSC	0.38	2,009.8	28.80	15.63	14.64
chwab Fundamental US Small Company	FNDA	0.25	4,868.7	28.41	15.69	14.28
nvesco DWA SmallCap Momentum	DWAS	0.60	562.2	25.00	23.95	21.88
Q Chaikin US Small Cap	CSML	0.35	224.3	24.87	14.19	
irst Trust Small Cap Core AlphaDEX	FYX	0.63	959.4	24.73	16.22	15.45
Shares Core S&P Small-Cap	IJR	0.06	71,644.4	24.17	14.83	15.37
anguard S&P Small-Cap 600	VIOO	0.10	1,882.6	24.11	14.83	15.39
PDR S&P 600 Small Cap	SLY	0.15	1,784.6	24.11	14.80	15.33
PDR Portfolio S&P 600 Small Cap	SPSM	0.05		24.08	15.85	15.27
Shares MSCI USA Small-Cap Multifactor	SMLF	0.30	4,435.8		13.99	• · · · · · · · · · · · · · · · · · · ·
PDR SSGA US Small Cap Low Volatility	SMLV	0.30	1,092.2 221.2	24.06 23.67	11.93	14.11
lobal X Russell 2000 Covered Call		0.12	554.5		11.55	11.04
	RYLD			23.39	12 7/	• • • • • • • • • • • • • • • • • • • •
ictoryShares MSCI USA SmCap Val Mom	USVM	0.24	301.4	22.62	13.74	.
Soldman Sachs ActiveBeta US Small Cap	GSSC	0.20	445.0	22.56	15.84	7 00
ivesco S&P SmallCap Low Volatility	XSLV	0.25	1,207.7	21.75	4.97	7.93
VisdomTree US SmallCap Dividend	DES	0.38	1,848.4	21.74	8.16	8.87
Shares ESG Aware MSCI USA Small-Cap	ESML	0.17	1,205.8	20.26	18.54	14.40
ictoryShares US SmCap High Div Vol Wtd	CSB	0.35	236.3	20.24	14.52	14.42
Shares Morningstar Small-Cap	ISCB	0.04	242.4	19.42	13.77	12.40
anguard Small-Cap	VB	0.05	49,721.2	18.80	17.87	16.02
ohn Hancock Multifactor Small Cap	JHSC	0.42	445.8	18.76	14.03	
nvesco S&P SmallCap Momentum	XSMO	0.39	182.7	18.59	18.12	18.97
Schwab US Small-Cap	SCHA	0.04	17,227.3	18.34	16.97	15.24
	NUSC	0.30	1,108.0	18.08	19.09	-
luveen ESG Small-Cap		•••••••			• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · ·
Nuveen ESG Small-Cap PMorgan BetaBuilders US SmCap Equity VisdomTree US SmCap Qual Div Growth	BBSC DGRS	0.09	451.0 206.3	17.88 17.84	12.69	11.69

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Vanguard Russell 2000	VTW0	0.10	6,564.1	17.20	16.57	15.58
Shares Russell 2000	IWM	0.19	70,353.9	17.06	16.42	15.45
BNY Mellon US Small Cap Core Equity	BKSE	0.04	181.0	16.40	-	-
Shares MSCI USA SmCap Min Vol Factor	SMMV	0.20	862.1	13.37	8.88	11.49
ProShares Russell 2000 Dividend Growers	SMDV	0.41	825.7	13.28	6.23	7.24
Dimensional US Small Cap	DFAS	0.34	4,284.2	-	-	-
U.S. EQUITY: SMALL CAP GROWTH						
First Trust Small Cap Growth AlphaDEX	FYC	0.71	348.9	22.40	18.83	19.56
Vanguard S&P Small-Cap 600 Growth	VIOG	0.16	595.0	19.47	16.00	17.00
SPDR S&P 600 Small Cap Growth	SLYG	0.15	2,378.8	19.38	15.97	16.97
Shares S&P Small-Cap 600 Growth	IJT	0.18	6,122.5	19.28	15.81	16.87
Vanguard Small-Cap Growth	VBK	0.07	16,886.5	10.69	21.91	19.67
Vanguard Russell 2000 Growth	VTWG	0.15	731.7	7.62	18.69	17.89
iShares Russell 2000 Growth	IW0	0.24	12,150.7	7.46	18.55	17.85
iShares Morningstar Small-Cap Growth	ISCG	0.06	472.9	2.76	19.08	18.69
U.S. EQUITY: SMALL CAP VALUE						
Invesco S&P SmCap Val w/ Momentum	XSVM	0.39	453.7	51.81	22.22	18.09
Invesco S&P SmallCap 600 Pure Value	RZV	0.35	305.5	46.25	12.66	11.03
Avantis US Small Cap Value	AVUV	0.25	1,947.9	39.42	-	-
SPDR S&P 600 Small Cap Value	SLYV	0.15	4,163.8	28.77	13.21	14.37
Vanguard S&P Small-Cap 600 Value	VIOV	0.15	1,315.3	28.74	13.24	13.43
iShares S&P Small-Cap 600 Value	IJS	0.18	8,874.9	28.73	13.24	13.43
iShares Russell 2000 Value	IWN	0.18	16,070.9	27.50	13.03	12.46
Vanguard Russell 2000 Value	VTWV	0.24	982.6	27.37	13.44	12.40
				• · · · · · · · · · · · · · · · · · · ·	•••••	•••••
Shares Morningstar Small Cap Value	ISCV	0.06	418.2	26.95	10.46	9.51
Vanguard Small-Cap Value	VBR	0.07	26,019.3	25.88	14.05	12.72
First Trust Small Cap Value AlphaDEX	FYT	0.72	217.6	25.05	13.86	12.04
U.S. EQUITY: MICRO CAP		0.00	1 000 1	04.04	17.00	10.10
iShares Micro-Cap	IWC	0.60	1,303.1	24.81	17.26	16.13
U.S. EQUITY: BASIC MATERIALS						
Shares North American Natural Resources	IGE	0.43	474.5	40.54	4.78	2.58
SPDR S&P North Amer Natural Resources	NANR	0.35	517.2	33.73	14.74	8.65
SPDR S&P Metals & Mining	XME	0.35	1,885.1	31.18	14.47	13.13
First Trust Materials AlphaDEX	FXZ	0.67	497.3	26.13	18.74	12.86
First Trust Water	FIW	0.54	1,425.5	25.80	26.42	20.76
Invesco Water Resources	PH0	0.60	2,013.3	24.97	26.58	20.20
Invesco S&P 500 Equal Weight Materials	RTM	0.40	456.7	23.28	21.99	17.01
Fidelity MSCI Materials	FMAT	0.08	493.6	19.80	18.99	14.35
Vanguard Materials	VAW	0.10	3,865.8	19.78	18.94	14.34
iShares US Basic Materials	IYM	0.43	858.2	19.15	16.80	13.44
Materials Select Sector SPDR	XLB	0.12	7,688.6	19.11	19.87	15.02
U.S. EQUITY: CONSUMER CYCLICALS						
SPDR S&P Retail	XRT	0.35	861.1	47.34	27.74	19.08
Invesco Dynamic Leisure/Entertainment	PEJ	0.55	1,437.6	26.36	6.73	7.44
Consumer Discr Select Sector SPDR	XLY	0.12	22,510.8	25.68	25.43	22.30
Invesco S&P 500 Eq Wt Cons Discretionary	RCD	0.40	567.8	25.55	17.27	13.91
Vanguard Consumer Discretionary	VCR	0.10	7,170.9	23.93	29.76	24.28
Fidelity MSCI Consumer Discretionary	FDIS	0.08	1,722.2	23.18	29.77	24.73
First Trust Consumer Discr AlphaDEX	FXD	0.63	1,967.5	21.95	15.37	12.61
Shares US Consumer Discretionary	IYC	0.43	1,402.8	19.46	20.87	19.52
ETFMG Travel Tech	AWAY	0.75	329.7	5.17		10.02
Amplify Online Retail	IBUY	0.65	900.0	-3.25	36.60	32.54
ProShares Online Retail				-3.23	• • • • • • • • • • • • • • • • • • • •	JL.J4
	ONLN	0.58	861.9	-10.10	28.62	-
U.S. EQUITY: CONSUMER NON-CYCLICALS		0.62	252.0	12.00	7 52	4 70
First Trust Consumer Staples AlphaDEX	FXG	0.63	262.2	12.68	7.53	4.78
Vanguard Consumer Staples	VDC	0.10	5,946.0	8.56	12.05	9.23
Fidelity MSCI Consumer Staples	FSTA	0.08	822.0	8.46	12.22	9.34
Shares US Consumer Staples	IYK	0.43	693.3	7.60	18.84	12.86
Consumer Staples Select Sector SPDR	XLP	0.12	11,792.5	7.55	12.04	9.12
Invesco S&P 500 Eq Wt Consumer Staples	RHS	0.40	452.0	4.50	9.12	7.40
U.S. EQUITY: ENERGY						
First Trust Natural Gas	FCG	0.60	512.3	110.07	0.00	-4.11
		0.05	4 104 0	04.02	7 9 /	-4.10
SPDR S&P Oil & Gas Expl & Prod	X0P	0.35	4,164.6	84.02	-7.84	7.10
SPDR S&P Oil & Gas Expl & Prod iShares US Oil & Gas Expl & Production	XOP IEO	0.35	4,164.6 378.5	81.57	2.52	4.07

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Vanguard Energy	VDE	0.10	5,988.5	61.49	-0.21	0.62
Fidelity MSCI Energy	FENY	0.08	1,071.3	60.75	-0.42	0.40
First Trust Energy AlphaDEX	FXN	0.64	404.5	60.59	-5.44	-2.48
iShares US Energy	IYE	0.42	2,435.3	58.99	-0.49	0.44
Energy Select Sector SPDR	XLE	0.12	28,022.4	56.70	0.62	1.11
InfraCap MLP	AMZA	2.01	301.3	51.10	-13.47	-10.35
iPath Select MLP ETN	ATMP	0.95	193.4	49.18	2.04	0.57
Global X MLP & Energy Infrastructure	MLPX	0.45	816.2	48.61	10.05	3.89
Alerian MLP	AMLP	0.90	5,527.8	45.69	-1.75	-2.41
Global X MLP	MLPA	0.46	1,092.2	45.09	-1.55	-2.53
JPMorgan Alerian MLP Index ETN	AMJ	0.85	2,292.5	44.25	-0.70	-1.47
ETRACS Alerian MLP Infrastr ETN Ser B	MLPB	0.85	203.0	39.91	-5.10	-
Tortoise North American Pipeline	TPYP	0.40	455.9	38.48	7.53	5.15
First Trust North American Energy Infrastr	EMLP	0.96	2,146.9	22.65	6.18	1.79
First Trust Clean Edge Green Energy	QCLN	0.60	3,072.2	10.24	60.54	39.77
SPDR S&P Kensho Clean Power	CNRG	0.45	410.7	1.75	58.86	-
ALPS Clean Energy	ACES	0.55	1,072.3	-0.71	50.32	-
BlackRock US Carbon Transition Readiness	LCTU	0.15	1,478.0	-	-	-
U.S. EQUITY: FINANCIALS						
First Trust Nasdaq Bank	FTX0	0.60	293.3	44.88	12.56	12.82
iShares US Broker-Dealers & Sec Exch	IAI	0.41	1,018.9	44.53	25.33	24.39
SPDR S&P Capital Markets	KCE	0.35	219.8	43.27	29.98	25.02
Invesco KBW Bank	KBWB	0.35	3,574.5	43.19	14.59	15.63
iShares US Regional Banks	IAT	0.41	1,362.3	42.75	14.81	14.42
First Trust Financials AlphaDEX	FX0	0.62	1,498.2	39.70	17.10	14.74
Vanguard Financials	VFH	0.10	11,955.7	38.77	17.65	17.10
SPDR S&P Regional Banking	KRE	0.35	5,479.3	38.62	12.64	12.68
Fidelity MSCI Financials	FNCL	0.08	1,953.7	38.60	17.56	17.07
Financial Select Sector SPDR	XLF	0.12	45,525.9	38.32	17.83	17.62
Invesco S&P 500 Equal Weight Financials	RYF	0.40	496.0	37.87	20.14	18.10
VanEck BDC Income	BIZD	10.07	521.7	36.14	14.45	10.58
iShares US Financials	IYF	0.42	2,455.6	35.00	17.79	16.64
SPDR S&P Bank	KBE	0.35	3,463.8	34.47	11.85	12.25
Invesco KBW High Dividend Yld Financial	KBWD	1.24	506.6	34.43	8.00	8.60
iShares US Financial Services	IYG	0.42	2,696.0	34.34	18.80	19.19
SPDR S&P Insurance	KIE	0.35	506.8	21.95	12.62	12.37
U.S. EQUITY: HEALTH CARE	Tu_	0.00	000.0	21.00	12.02	12.07
iShares US Medical Devices	IHI	0.41	8,750.0	20.09	24.51	24.24
iShares US Healthcare Providers	IHF	0.42	1,262.5	19.34	15.66	20.36
Health Care Select Sector SPDR	XLV	0.12	31,540.7	19.25	16.84	16.71
iShares US Healthcare	IYH	0.12	2,995.1	18.45	17.08	17.12
Invesco S&P 500 Equal Weight Health Care	RYH	0.40	994.8	18.16	18.70	17.06
Vanguard Health Care	VHT	0.10	16,557.0	16.58	17.60	17.68
×	FHLC	0.10		•	***************************************	•
Fidelity MSCI Health Care First Trust Health Care AlphaDEX			2,921.8	16.39	17.51	17.61
	FXH	0.61	1,579.9	12.24	16.81	16.73
Invesco Dynamic Pharmaceuticals	PJP	0.58	431.6	11.53	7.13	7.96
SPDR S&P Health Care Equipment	XHE	0.35	780.6	10.54	17.73	21.55
Invesco S&P SmallCap Health Care	PSCH	0.29	492.2	7.47	14.35	22.22
Invesco Dynamic Biotech & Genome	PBE	0.59	295.9	7.04	13.60	15.20
iShares US Pharmaceuticals	IHE	0.42	373.4	6.11	8.84	8.12
iShares Biotechnology	IBB	0.45	10,374.9	5.54	15.55	13.54
Invesco DWA Healthcare Momentum	PTH	0.60	476.2	2.11	25.81	29.59
First Trust NYSE Arca Biotechnology	FBT	0.55	1,797.6	-1.24	7.44	13.81
SPDR S&P Pharmaceuticals	XPH	0.35	231.9	-7.43	4.22	4.52
ALPS Medical Breakthroughs	SBI0	0.50	208.7	-10.07	12.05	17.20
SPDR S&P Biotech	XBI	0.35	7,190.1	-11.32	16.52	17.50
U.S. EQUITY: INDUSTRIALS			***		0.0-	
First Trust RBA American Industrial Ren		0.70	238.3	29.31	21.96	17.78
	AIRR			• · · · · · · · · · · · · · · · · · · ·	*	
***************************************	XTN	0.35	854.5	28.46	16.68	15.00
Invesco S&P 500 Equal Weight Industrials	XTN RGI	0.35 0.40		28.46 23.66	16.68 21.81	17.88
iShares U.S Transportation Average	XTN RGI IYT	0.35 0.40 0.42	854.5 443.8 1,818.4	28.46 23.66 23.56	16.68 21.81 15.26	17.88 14.62
Invesco S&P 500 Equal Weight Industrials iShares U.S Transportation Average Invesco Dynamic Building & Construction	XTN RGI	0.35 0.40	854.5 443.8	28.46 23.66	16.68 21.81	17.88
Invesco S&P 500 Equal Weight Industrials iShares U.S Transportation Average Invesco Dynamic Building & Construction First Trust Nasdaq Transportation	XTN RGI IYT PKB FTXR	0.35 0.40 0.42 0.60 0.60	854.5 443.8 1,818.4	28.46 23.66 23.56	16.68 21.81 15.26 25.03 13.78	17.88 14.62 15.67 12.18
Invesco S&P 500 Equal Weight Industrials iShares U.S Transportation Average Invesco Dynamic Building & Construction	XTN RGI IYT PKB	0.35 0.40 0.42 0.60	854.5 443.8 1,818.4 278.9	28.46 23.66 23.56 22.02	16.68 21.81 15.26 25.03	17.88 14.62 15.67

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Industrial Select Sector SPDR	XLI	0.12	17,833.6	19.12	16.54	14.96
Vanguard Industrials	VIS	0.10	5,169.1	19.05	17.06	14.96
Invesco DWA Industrials Momentum	PRN	0.60	264.9	18.42	25.28	19.43
iShares US Industrials	IYJ	0.42	1,648.9	15.25	18.28	16.26
iShares US Aerospace & Defense	ITA	0.42	2,577.9	11.04	4.17	11.21
Invesco Aerospace & Defense	PPA	0.61	677.9	8.49	11.48	14.89
SPDR S&P Aerospace & Defense	XAR	0.35	1,189.1	4.73	11.60	16.52
U.S. EQUITY: TECHNOLOGY						
HCM Defender 100	QQH	1.25	323.9	31.57	-	-
iShares US Technology	IYW	0.43	9,176.2	30.06	36.41	31.08
SPDR S&P Semiconductor	XSD	0.35	1,220.1	29.68	49.42	34.95
Invesco Dynamic Semiconductors	PSI	0.56	757.1	29.65	43.31	34.07
iShares Semiconductor	SOXX	0.43	7,823.8	25.86	44.43	35.15
VanEck Semiconductor	SMH	0.35	6,759.4	25.28	45.03	33.67
Technology Select Sector SPDR	XLK	0.12	47,484.0	24.94	34.18	29.46
iShares Expanded Tech-Software Sector	IGV	0.43	6,532.5	23.99	34.15	31.56
Vanguard Information Technology	VGT	0.10	53,229.4	23.39	34.22	30.80
Fidelity MSCI Information Technology	FTEC	0.08	6,637.2	23.37	34.05	30.10
iShares Expanded Tech Sector	IGM	0.43	3,873.4	23.05	32.29	29.11
First Trust NASDAQ-100 Technology Sector	QTEC	0.57	3,900.5	23.01	33.43	27.22
iShares US Tech Breakthrough Multisector	TECB	0.40	451.3	22.63	-	-
Invesco S&P 500 Equal Weight Technology	RYT	0.40	2,854.4	20.76	27.48	25.13
Invesco DWA Technology Momentum	PTF	0.60	364.8	20.57	44.06	33.98
First Trust Cloud Computing	SKYY	0.60	6,662.9	19.85	29.89	26.99
First Trust Technology AlphaDEX	FXL	0.61	2,837.6	18.62	34.05	30.12
SPDR S&P Software & Services	XSW	0.35	594.8	17.77	31.48	28.06
SPDR S&P NYSE Technology	XNTK	0.35	738.6	17.69	38.11	30.38
Invesco S&P SmallCap Information Tech	PSCT	0.29	485.6	17.13	24.27	18.83
WisdomTree Cloud Computing	WCLD	0.45	1,389.4	16.83		-
First Trust Dow Jones Internet	FDN	0.51	10,885.0	15.19	24.72	24.62
SPDR S&P Kensho Smart Mobility	HAIL	0.45	179.8	8.26	33.44	24.02
Invesco NASDAQ Internet	PNQI	0.60	1,063.1	7.55	27.10	23.10
SPDR FactSet Innovative Technology	XITK	0.45	331.9	6.74	37.39	32.39
Invesco Dynamic Software	PSJ	0.45	473.0	-0.64	26.24	26.64
U.S. EQUITY: TELECOMMUNICATIONS	1 03	0.30	4/3.0	-0.04	20.24	20.04
	PAVE	0.47	4 002 5	20.52	22.16	
Global X US Infrastructure Development	IFRA		4,902.5	30.52	23.16	······ ·
iShares US Infrastructure		0.30	729.6	22.06	15.78	······ ·
Communication Svcs Select Sector SPDR	XLC	0.12	15,014.2	19.63	21.41	11.24
Vanguard Communication Services	VOX	0.10	4,603.8	18.64	21.31	11.34
Fidelity MSCI Communication Services	FCOM	0.08	928.7	18.55	21.69	16.06
iShares US Telecommunications	IYZ	0.42	426.0	7.61	6.74	3.02
U.S. EQUITY: UTILITIES	EVIII.	0.00	170.4	10.04	4.10	2.50
First Trust Utilities AlphaDEX	FXU	0.62	179.4	10.04	4.16	3.58
iShares US Utilities	IDU	0.43	835.1	9.44	10.16	9.26
Utilities Select Sector SPDR	XLU	0.12	12,267.4	9.16	11.18	9.81
Fidelity MSCI Utilities	FUTY	0.08	1,151.1	9.15	10.50	9.71
Vanguard Utilities	VPU	0.10	5,090.4	9.01	10.40	9.67
Invesco S&P 500 Equal Weight Utilities	RYU	0.40	252.6	8.64	9.01	8.82
U.S. EQUITY: REAL ESTATE						
iShares Residential/Multisector Real Est	REZ	0.48	1,173.4	37.32	16.98	11.79
Pacer Benchmark Industrial Real Estate	INDS	0.60	309.9	36.20	27.93	-
SPDR S&P Homebuilders	XHB	0.35	2,030.4	35.17	32.93	20.75
SPDR Dow Jones REIT	RWR	0.25	1,998.6	34.41	11.92	8.37
Real Estate Select Sector SPDR	XLRE	0.12	4,716.3	33.68	18.07	12.98
JPMorgan BetaBuilders MSCI US REIT	BBRE	0.11	1,469.3	32.48	13.61	-
iShares Core US REIT	USRT	0.08	2,560.8	32.45	13.85	9.70
iShares Cohen & Steers REIT	ICF	0.33	2,731.8	32.28	15.32	10.45
First Trust S&P REIT	FRI	0.50	212.3	32.14	10.49	6.14
Fidelity MSCI Real Estate	FREL	0.09	2,116.2	30.91	15.63	11.27
Vanguard Real Estate	VNQ	0.12	46,233.6	30.87	15.70	10.31
Schwab US REIT	SCHH	0.07	6,761.7	30.07	9.33	6.90
iShares US Real Estate	IYR	0.41	7,330.0	29.87	15.04	10.94
iShares US Home Construction	ITB	0.41	2,774.2	29.40	32.92	23.41
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iShares Mortgage Real Estate	REM	0.48	1,512.2	22.28	4.14	6.26

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Invesco KBW Premium Yield Equity REIT	KBWY	0.35	337.2	21.28	-1.07	0.58
Pacer Benchmark Data/Infrastr Real Est U.S. EQUITY: HIGH DIVIDEND YIELD	SRVR	0.60	1,634.1	14.51	20.48	-
iShares Select Dividend	DVY	0.39	18,581.6	25.88	11.30	10.89
Global X SuperDividend US	DIV	0.45	673.7	24.61	0.57	3.29
Schwab US Dividend Equity	SCHD	0.45	29,783.1	23.55	19.78	16.87
Vanguard High Dividend Yield	VYM	0.06	39,799.0	21.02	12.84	12.29
nvesco HiYld Equity Dividend Achievers	PEY	0.53	968.4	20.67	10.47	9.77
nvesco S&P Ultra Dividend Revenue	RDIV	0.39	845.1	20.21	6.95	9.24
First Trust Value Line Dividend	FVD	0.70	12,375.1	19.03	11.73	9.88
SPDR S&P Dividend	SDY	0.75	20,856.2	18.66	12.94	12.35
First Trust Morningstar Dividend Leaders	FDL	0.45	1,671.2	17.17	6.26	5.43
WisdomTree US High Dividend	DHS	0.43	809.2	16.15	8.22	7.89
Shares Core High Dividend	HDV	0.08	7,407.6	15.12	7.54	8.29
GLOBAL EQUITY	HUV	0.00	7,407.0	13.12	7.54	0.23
Shares Global 100	100	0.40	3,651.5	21.30	20.33	17.80
	FV			21.25	***************************************	•
First Trust Dorsey Wright Focus 5	FVC	0.87 0.71	2,881.5	*****************	22.19 14.89	17.38
First Trust Dorsey Wright Dynamic Focus 5			224.8	21.23	14.09	13.08
F. Rowe Price Blue Chip Growth	TCHP	0.57	244.2	20.24	20.62	21.20
Global X Internet of Things	SNSR SPGM	0.68	499.2 647.8	19.90	29.63	21.36
SPDR Portfolio MSCI Global Stock Market		0.09	647.8	19.48	17.60	• · · · · · · · · · · · · · · ·
Vanguard Total World Stock	VT	0.08	25,238.3	16.99	17.75	14.89
Shares MSCI ACWI	ACWI	0.32	17,186.3	16.91	17.51	14.92
ClearBridge All Cap Growth ESG	CACG	0.53	230.8	16.54	21.88	
Shares MSCI Global Min Vol Factor	ACWV	0.20	5,282.2	10.10	10.47	9.88
Shares MSCI Global Impact	SDG	0.49	567.9	4.04	23.33	17.11
Davis Select Worldwide	DWLD	0.63	388.6	0.78	13.60	-
Horizon Kinetics Inflation Beneficiaries	INFL	0.85	892.7	-	-	-
GLOBAL EQUITY EX-U.S.						
nvesco International Dividend Achievers	PID	0.56	625.5	22.24	11.78	9.14
Avantis International Small Cap Value	AVDV	0.36	1,161.4	17.22		
/anguard FTSE All-World ex-US Small-Cap	VSS	0.11	10,025.0	14.22	13.97	10.29
NisdomTree Global ex-US Qual Div Gro	DNL	0.58	438.5	12.08	19.50	14.33
/anguard Intl Dividend Appreciation	VIGI	0.20	4,186.5	11.64	17.20	12.36
/ident International Equity	VIDI	0.59	466.9	11.24	8.26	7.38
FlexShares International Quality Dividend	IQDF	0.47	621.3	10.43	9.71	7.37
Shares Core MSCI Total Intl Stock	IXUS	0.09	31,790.0	9.99	12.60	10.12
Vanguard Total International Stock	VXUS	0.08	52,246.1	9.91	12.71	10.05
SPDR MSCI ACWI ex-US	CWI	0.30	1,822.5	9.12	12.21	9.71
Vanguard FTSE All-World ex-US	VEU	0.08	35,841.3	9.11	12.53	10.01
Shares International Dividend Growth	IGR0	0.15	251.5	8.91	12.23	9.49
Shares MSCI ACWI ex US	ACWX	0.32	4,648.2	8.73	11.87	9.66
Vanguard ESG International Stock	VSGX	0.17	2,852.3	8.44	13.06	-
American Century Quality Diversified Intl	QINT	0.39	213.6	8.41	15.16	
First Trust Dorsey Wright Intl Focus 5	IFV	1.06	272.2	5.67	10.47	7.15
First Trust International Equity Opps	FPXI	0.70	1,180.5	-4.20	28.99	19.76
Davis Select International	DINT	0.65	262.4	-12.08	9.01	-
NTERNATIONAL EQUITY: BLENDED DEVE	LOPMENT					
idelity Blue Chip Growth	FBCG	0.59	484.3	22.95	-	-
ClearBridge Large Cap Growth ESG	LRGE	0.59	177.0	21.15	25.62	-
Shares MSCI All Country Asia ex Japan	AAXJ	0.70	5,251.9	-3.40	12.87	9.81
Shares Asia 50	AIA	0.50	2,377.8	-7.76	15.56	12.47
NTERNATIONAL EQUITY: DEVELOPED						
Shares MSCI Saudi Arabia	KSA	0.74	954.7	40.30	15.81	17.19
PMorgan BetaBuilders Canada	BBCA	0.19	6,129.6	28.52	17.44	-
Shares MSCI Canada	EWC	0.51	4,282.7	27.82	16.50	11.44
Shares MSCI Netherlands	EWN	0.51	367.8	26.86	25.35	18.56
idelity High Dividend	FDW	0.29	961.4	24.32	13.99	13.72
Shares MSCI Sweden	EWD	0.51	741.0	23.18	20.84	15.26
Shares Currency Hedged MSCI Eurozone	HEZU	0.54	724.8	22.45	14.27	11.73
Shares MSCI Kokusai	TOK	0.25	206.7	21.56	19.30	16.31
Ktrackers MSCI Europe Hedged Equity	DBEU	0.46	611.9	21.12	12.66	10.88
WisdomTree Europe Hedged Equity	HEDJ	0.58	2,117.6	21.05	12.14	10.26
					*	
FlexShares STOXX Global ESG Select	ESGG	0.42	186.0	20.96	19.40	16.62

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
iShares MSCI World	URTH	0.24	1,632.9	20.01	18.47	15.75
Xtrackers MSCI Kokusai Equity	KOKU	0.09	665.8	19.54	-	-
iShares MSCI France	EWQ	0.51	732.1	19.51	13.45	12.51
Invesco DWA Developed Mkts Momentum	PIZ	0.80	254.3	19.22	18.99	13.77
WisdomTree Europe SmallCap Dividend	DFE	0.58	340.3	18.58	12.62	10.68
iShares MSCI Israel	EIS	0.59	185.7	18.50	14.16	11.69
Xtrackers MSCI EAFE Hedged Equity	DBEF	0.36	4,156.3	17.96	12.29	10.89
iShares Currency Hedged MSCI EAFE	HEFA	0.35	3,190.9	17.94	12.26	10.96
iShares MSCI Denmark	EDEN	0.53	183.6	17.65	27.09	18.46
First Trust Europe AlphaDEX	FEP	0.80	558.0	17.00	11.70	11.37
iShares MSCI United Kingdom	EWU	0.51	3,021.5	16.93	5.64	6.21
Vanguard FTSE Europe	VGK	0.08	21,770.3	16.82	13.28	11.23
JPMorgan BetaBuilders Europe	BBEU	0.09	9,518.5	16.77	12.83	
Global X Artificial Intel/Technology	AIQ	0.68	178.4	16.72	32.39	- 12.55
iShares MSCI Europe Small-Cap	IEUS	0.40	388.0	16.58	15.95	13.55
iShares Core MSCI Europe	IEUR SPEU	0.09	5,323.6	16.53 16.39	13.07 14.19	11.16 11.35
SPDR Portfolio Europe Franklin FTSE United Kingdom	FLGB	0.09	371.4 629.7	16.37	6.91	11.55
		• • • • • • • • • • • • • • • • • • • •	1,916.2		• • • • • • • • • • • • • • • • • • • •	0.45
WisdomTree Japan Hedged Equity iShares Europe	DXJ IEV	0.48 0.59	2,174.7	16.35 16.11	8.48 12.39	9.45 10.37
Invesco FTSE RAFI DM ex-US	PXF	0.45	1,211.0	16.10	9.83	8.99
Franklin FTSE Europe	FLEE	0.45	202.6	16.06	12.82	- 0.33
SPDR Euro STOXX 50	FEZ	0.29	2,636.1	16.02	13.37	10.66
WisdomTree Intl Hdgd Qual Div Growth	IHDG	0.58	1,082.9	15.98	16.60	13.50
IQ 500 International	IQIN	0.25	246.6	15.79		-
Schwab Fundamental Intl Large Company	FNDF	0.25	7,200.3	15.74	10.26	9.12
iShares MSCI Intl Value Factor	IVLU	0.30	1,154.4	15.56	6.01	6.40
iShares MSCI Eurozone	EZU	0.51	8,005.8	15.24	12.97	10.68
iShares MSCI Italy	EWI	0.51	636.9	15.11	13.30	11.40
Schwab International Small-Cap Equity	SCHC	0.11	3,924.6	14.66	13.22	10.39
Avantis International Equity	AVDE	0.23	1,086.0	14.31	-	-
Invesco RAFI Strategic Developed ex-US	ISDX	0.23	308.3	14.28	11.37	-
iShares MSCI Intl Small-Cap Multifactor	ISCF	0.40	211.3	14.20	12.53	11.39
Global X Robotics & Artificial Intelligence	BOTZ	0.68	2,768.6	13.91	25.23	20.87
FlexShares Mstar DM ex-US Factor Tilt	TLTD	0.39	654.4	13.85	10.58	8.86
Dimensional Intl Core Equity Market	DFAI	0.18	773.9	13.82		-
iShares Core MSCI Intl Developed Markets	IDEV	0.05	6,586.4	13.72	12.80	
Schwab Fundamental Intl Small Company	FNDC	0.39	2,805.9	13.62	10.80	8.85
iShares MSCI Switzerland	EWL	0.51	1,651.2	13.58	16.74	13.72
Knowledge Leaders Developed World	KLDW	0.75	201.6	13.58	15.93	13.31
iShares MSCI Singapore	EWS	0.51	648.2	13.28	6.37	6.44
WisdomTree International SmallCap Div	DLS	0.58	1,483.1	13.11	8.49	7.98
iShares MSCI Intl Quality Factor	IQLT	0.30	4,074.2	12.91	15.99	12.53
Xtrackers MSCI Japan Hedged Equity IQ 50 Percent Hedged FTSE International	DBJP	0.46	198.4	12.80	11.03 12.01	11.09
Invesco FTSE RAFI DM ex-US Small-Mid	HFXI PDN	0.20 0.49	324.4	12.68	11.87	10.38 9.64
iShares MSCI EAFE Small-Cap	SCZ	0.49	438.8 15,502.4	12.63 12.60	13.53	11.24
iShares Currency Hedged MSCI Japan	HEWJ	0.51	587.6	12.51	10.75	11.06
iShares Core MSCI EAFE	IEFA	0.07	104,012.9	12.31	12.21	10.28
IQ Candriam ESG International Equity	IQSI	0.15	214.3	12.30	-	-
iShares ESG Aware MSCI EAFE	ESGD	0.20	7,173.5	12.28	12.52	10.32
Vanguard FTSE Developed Markets	VEA	0.05	107,596.5	12.24	12.71	10.43
SPDR Portfolio Developed World ex-US	SPDW	0.04	12,360.0	12.22	12.88	10.47
SPDR MSCI EAFE StrategicFactors	QEFA	0.30	849.6	12.13	12.13	10.18
John Hancock Multifactor Developed Intl	JHMD	0.39	533.3	12.05	11.01	-
iShares MSCI Australia	EWA	0.51	1,493.6	12.02	12.95	9.92
SPDR S&P International Small Cap	GWX	0.40	843.1	12.01	12.10	9.25
iShares MSCI EAFE Value	EFV	0.39	15,711.1	11.93	6.11	6.09
Schwab International Equity	SCHF	0.06	28,990.7	11.93	12.50	10.28
JPMorgan BetaBuilders International	BBIN	0.07	3,712.5	11.85	-	- · · · · · · · · · · · · · · · · · · ·
iShares MSCI EAFE	EFA	0.32	58,457.1	11.82	11.77	9.81
First Trust Dev Mkts ex-US AlphaDEX	FDT	0.80	420.7	11.72	8.65	7.74
iShares ESG Advanced MSCI EAFE	DMXF	0.12	273.3	11.57	-	-
iShares MSCI Intl Multifactor	INTF	0.30	926.5	11.49	8.50	8.04
Goldman Sachs ActiveBeta International	GSIE	0.25	3,198.6	11.20	11.48	9.80

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Goldman Sachs MarketBeta International	GSID	0.20	354.2	11.12	-	-
SPDR MSCI EAFE Fossil Fuel Reserves Free	EFAX	0.20	252.2	10.94	12.47	9.76
Shares MSCI EAFE Growth	EFG	0.40	12,831.2	10.85	16.78	12.89
/ictoryShares MSCI Intl Val Momentum	UIVM	0.35	358.9	10.83	6.30	-
NisdomTree Intl Quality Dividend Growth	IQDG	0.42	318.3	10.74	16.06	12.51
Hartford Multifactor Dev Mkts (ex-US)	RODM	0.29	1,960.1	10.55	7.56	7.88
Global X FinTech	FINX	0.68	1,429.4	10.06	27.01	28.27
ALPS International Sector Dividend Dogs	IDOG	0.50	182.7	9.98	7.92	7.73
NisdomTree International Equity	DWM	0.48	622.1	9.57	6.65	6.70
WisdomTree International LargeCap Div	DOL	0.48	368.5	9.27	6.29	6.42
PMorgan BetaBuilders Dev Asia ex-Japan	BBAX	0.19	4,170.9	8.97	12.06	-
Shares MSCI Pacific ex-Japan	EPP	0.48	2,478.3	8.33	10.91	8.56
Shares MSCI Germany	EWG	0.51	2,766.4	8.10	9.83	7.85
nvesco S&P Intl Developed Low Volatility	IDLV	0.25	706.3	7.29	4.27	5.03
PMorgan Diversified Return International	JPIN	0.37	851.2	7.23	8.10	7.10
NisdomTree International High Dividend	DTH	0.58	177.2	7.18	4.11	4.99
Shares MSCI Intl Momentum Factor	IMTM	0.30	912.0	6.97	15.18	11.76
Shares MSCI EAFE Min Vol Factor	EFAV	0.20	8,339.8	6.23	6.95	6.82
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Shares MSCI Spain	EWP	0.51	697.8	6.04	4.01	3.96
Shares Core MSCI Pacific	IPAC	0.09	1,110.6	4.98	10.42	8.73
(trackers MSCI EAFE High Dividend YId	HDEF	0.20	820.6	4.64	6.88	3.69
ARK Israel Innovative Technology	IZRL	0.49	263.7	3.91	17.13	
NisdomTree Japan SmallCap Dividend	DFJ	0.58	235.1	3.68	4.39	5.56
/anguard FTSE Pacific	VPL	0.08	5,549.4	2.82	10.90	8.93
PMorgan BetaBuilders Japan	BBJP	0.19	8,002.8	2.16	9.44	-
BlueStar Israel Technology	ITEQ	0.75	199.3	2.16	29.17	23.96
ranklin FTSE Japan	FLJP	0.09	757.8	2.15	9.47	
Shares MSCI Japan	EWJ	0.51	12,837.8	1.99	9.37	7.97
Shares MSCI Hong Kong	EWH	0.51	974.0	1.00	7.58	5.79
BlackRock World ex US Carbon Transition	LCTD	0.20	600.5	-	-	-
NTERNATIONAL EQUITY: EMERGING						
Shares MSCI India Small Cap	SMIN	0.81	356.0	42.03	20.83	11.26
Shares MSCI Russia	ERUS	0.59	664.4	37.11	21.33	16.56
/anEck Russia	RSX	0.67	1,663.7	32.51	20.91	15.98
NisdomTree India Earnings	EPI	0.84	972.7	29.16	19.80	12.64
Shares MSCI Poland	EP0L	0.59	308.5	22.62	4.64	6.61
Shares India 50	INDY	0.90	762.8	21.79	17.99	12.12
Shares MSCI India	INDA	0.69	6,314.7	21.54	18.28	11.81
Shares MSCI Taiwan	EWT	0.59	7,057.2	18.73	27.02	17.25
Shares MSCI Emerging Markets Small-Cap	EEMS	0.71	398.7	16.42	17.03	9.77
SPDR S&P Emerging Markets Small Cap	EWX	0.65	652.2	15.71	16.04	9.56
nvesco S&P Emerging Markets Low Vol	EELV	0.30	361.7	15.24	6.87	6.27
Schwab Fundamental EM Large Company	FNDE	0.39	5,102.0	15.11	9.87	8.58
Shares MSCI Mexico	EWW	0.51	993.6	13.35	6.93	1.02
NisdomTree EM SmallCap Dividend					*	8.95
	DGS	0.58	2,277.3	12.73	12.79	*
Shares Emerging Markets Dividend	DVYE	0.49	810.7	10.55	7.75	7.50
KraneShares MSCI China Clean Technology	KGRN	0.79	204.7	10.44	43.87	
SPDR S&P Emerging Markets Dividend	EDIV	0.49	295.7	9.76	4.86	4.86
NisdomTree Emerging Markets High Div	DEM	0.63	1,912.9	9.44	7.34	7.39
/ictoryShares USAA MSCI EM Value Mom	UEVM	0.45	239.2	9.23	8.42	-
nvesco DWA Emerging Mkts Momentum	PIE	0.90	214.5	9.02	17.67	11.08
Shares MSCI South Africa	EZA	0.59	323.5	8.26	6.31	1.84
nvesco FTSE RAFI Emerging Markets	PXH	0.50	1,375.3	8.26	7.14	6.84
Shares MSCI Emerging Markets ex China	EMXC	0.25	1,650.4	7.34	12.50	-
irst Trust Emerging Markets AlphaDEX	FEM	0.80	465.7	6.44	7.76	7.88
lexShares Mstar EM Factor Tilt	TLTE	0.59	336.5	6.38	11.50	7.70
Shares MSCI Emerging Mkts Multifactor	EMGF	0.45	842.4	5.35	11.89	8.79
Avantis Emerging Markets Equity	AVEM	0.33	905.8	5.22	-	-
Shares MSCI Emrg Mkts Min Vol Factor	EEMV	0.25	3,754.6	3.93	7.32	6.18
Shares ESG MSCI EM Leaders	LDEM	0.16	875.1	3.69	-	-
			5,825.2	3.08	12.46	9.19
	SPEM	0.11	3,023.2			
SPDR Portfolio Emerging Markets	SPEM DFAE	0.11				-
SPDR Portfolio Emerging Markets Dimensional Emerging Core Equity Market	DFAE	0.35	398.4	2.84	-	-
SPDR Portfolio Emerging Markets					4.34 13.13	-0.31 8.81

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
iShares MSCI China A	CNYA	0.60	709.4	1.72	23.54	12.04
Schwab Emerging Markets Equity	SCHE	0.11	9,488.5	1.47	12.31	8.85
KraneShares Bosera MSCI China A Share	KBA	0.60	746.0	1.42	23.68	11.90
iShares Core MSCI Emerging Markets	IEMG	0.11	80,272.6	1.33	12.64	9.42
iShares MSCI Thailand	THD	0.59	399.8	0.97	-1.75	3.78
iShares Curr Hdgd MSCI Emerging Mkts	HEEM	0.70	194.5	0.47	11.99	9.26
iShares ESG Aware MSCI EM	ESGE	0.25	6,935.7	0.23	13.13	10.03
SPDR S&P Emerging Asia Pacific	GMF	0.49	613.6	-0.44	14.88	11.31
iShares MSCI Emerging Markets	EEM	0.70	30,389.4	-1.02	11.50	8.70
iShares MSCI Emerging Markets Asia	EEMA	0.50	868.2	-2.23	13.87	10.68
Goldman Sachs ActiveBeta EM Equity	GEM	0.45	1,365.7	-2.59	9.30	7.45
WisdomTree EM ex-SOE	XS0E	0.32	4,217.7	-3.22	16.25	11.87
Xtrackers Harvest CSI 300 China A-Shares	ASHR	0.65	2,396.9	-3.25	19.83	10.51
iShares MSCI Malaysia	EWM	0.51	256.0	-6.02	-1.43	-0.41
iShares MSCI South Korea	EWY	0.59	5,578.9	-7.62	12.49	9.33
Invesco BLDRS Emerging Markets 50 ADR	ADRE	0.30	192.9	-11.31	11.30	8.70
SPDR S&P China	GXC ILF	0.59	1,741.4	-13.19	11.02	9.67
iShares Latin America 40 iShares MSCI China	•	0.48	1,231.7	-13.53	-6.17	-1.72
WisdomTree China ex-SOE	MCHI	0.59 0.32	6,520.0 1,095.5	-14.30 -15.10	10.57 21.66	9.54 17.43
iShares MSCI Turkey	TUR	0.52	246.0	-17.23	-0.42	-8.09
iShares MSCI Chile	ECH	0.59	429.9	-17.42	-14.28	-7.46
Franklin FTSE Brazil	FLBR	0.19	188.3	-19.03	-7.17	
iShares MSCI Brazil	EWZ	0.59	4,691.9	-19.70	-7.60	-2.53
Invesco Golden Dragon China	PGJ	0.69	245.9	-30.61	9.90	7.54
KraneShares CSI China Internet	KWEB	0.76	8,571.1	-37.83	5.88	4.79
JPMorgan ActiveBuilders EM Equity	JEMA	0.39	329.2	-	-	-
INTERNATIONAL EQUITY: FRONTIER						
iShares MSCI Frontier and Select EM	FM	0.79	525.7	29.44	13.56	10.96
VanEck Vietnam	VNM	0.66	573.7	16.07	10.99	8.44
GLOBAL EQUITY: SECTOR					_	
North Shore Global Uranium Mining	URNM	0.85	867.2	104.36	-	-
VanEck Rare Earth/Strategic Metals	REMX	0.59	1,053.1	79.54	36.58	24.37
Global X Uranium	URA	0.69	1,339.0	75.42	32.64	20.44
Amplify Transformational Data Sharing	BLOK	0.71	1,465.2	58.58	49.63	-
Global X Lithium & Battery Tech	LIT	0.75	5,593.8	48.58	47.26	33.47
iShares Global Energy	IXC	0.43	1,721.6	45.28	-0.42	2.06
VanEck Oil Services	OIH	0.35	2,845.5	36.52	-18.54	-16.23
Davis Select Financial	DFNL	0.64	230.8	34.44	14.29	17 20
Invesco Global Listed Private Equity	PSP	1.44	280.0	30.38	21.77	17.32
KraneShares Electric Veh/Future Mobility iShares Global Financials	KARS	0.70 0.43	309.0 2,936.4	30.15 28.11	39.81 12.79	12.27
First Trust Clean Edge Smart Grid Infrastr	GRID	0.43	625.6	26.59	34.87	22.32
Invesco S&P Global Water	CGW	0.57	1,205.2	26.20	24.46	16.99
Global X Autonomous & Electric Vehicles	DRIV	0.68	1,113.8	25.78	33.55	-
iShares Global REIT	REET	0.14	3,438.3	25.10	10.56	7.45
Amplify Lithium & Battery Technology	BATT	0.59	209.5	24.41	16.70	-
SPDR Dow Jones Global Real Estate	RW0	0.50	1,740.8	24.29	9.55	6.80
FlexShares Global Quality Real Estate	GQRE	0.45	423.1	24.09	10.10	7.43
Global X Copper Miners	COPX	0.65	994.4	23.46	26.98	18.17
VanEck Agribusiness	M00	0.56	1,182.1	22.85	17.50	15.95
FlexShares Mstar Global Upstrm Nat Res	GUNR	0.46	6,090.0	22.58	10.99	10.46
Siren Nasdaq NexGen Economy	BLCN	0.68	300.7	22.50	32.96	-
SPDR S&P Global Natural Resources	GNR	0.40	2,380.1	22.25	9.22	9.96
iShares Self-Driving EV and Tech	IDRV	0.47	470.9	21.82	-	
First Trust NASDAQ Cybersecurity	CIBR	0.60	5,374.6	21.78	29.43	22.68
iShares Global Tech	IXN	0.43	5,552.6	21.36	32.52	28.16
Invesco Global Water	PI0	0.75	323.8	20.39	22.19	15.92
Global X Millennial Consumer	MILN	0.50	234.8	19.65	27.47	24.24
VanEck Retail	RTH	0.35	218.9	18.72	22.86	21.40
3D Printing	PRNT	0.66	474.0	18.72	20.02	13.31
Global X Cybersecurity	BUG	0.50	1,008.3	18.27		- 17.70
First Trust NASDAQ Technology Dividend	TDIV	0.50	1,646.9	18.03	20.45	17.72
ProShares Pet Care	PAWZ	0.50	352.0	17.16	10 22	1/100
iShares MSCI ACWI Low Carbon Target	CRBN	0.20	1,187.1	17.00	18.23	14.98

Shares MSCI Global Metals/Mining Prod PICK 0.39 1,085.2 16.87 17.74 15.82 Shares Cybersecurty and Tech IRAK 0.47 6887 16.81 - -	FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Recundual Sports Detting & Gaming Shares Global Industriatis EXI 0.43 4223 15.98 2.00.2 16.82 Shares Global Industriatis EXI 0.43 4125 15.78 15.39 12.99 Global X SuperDividend PEIT SRET 0.58 474.6 15.75 5.48 10.08 Shares Global Healthcare EXI 0.43 307.3 15.56 15.69 10.55 Shares Global Healthcare EXI 0.43 350.99 14.98 15.56 10.55 Shares Global Healthcare EXI 0.43 350.99 14.98 15.56 10.55 Shares Global Healthcare EXI 0.43 350.99 14.98 15.56 10.55 Shares Global Healthcare EXI 0.43 350.99 14.98 15.56 10.55 Shares Global Healthcare EXI 0.43 350.99 14.98 15.56 10.55 Shares Clobal Healthcare EXI 0.40 0.50 24.23.2 14.52 9.53 17.4 EXIMA 0.50 12.24.32 14.50 23.20 20.60 Goldman Sachs Innovate Equity Global X Cloud Computing EXI 0.47 14.10.1 14.21 24.24 22.22.6 Global X Cloud Computing EXI 0.47 14.10.1 14.21 24.24 22.22.6 Global X Cloud Computing EXI 0.40 0.45 15.30.3 12.24 13.35 28.43 - Global X Cloud Computing EXI 0.40 0.45 15.30.3 12.24 13.35 28.43 - EXISTENCE Shares Rebotics Multiseator EXI 0.47 14.99 13.35 28.43 - EXISTENCE Shares Rebotics EXI 0.47 14.99 13.35 28.43 - EXISTENCE Shares Rebotics EXI 0.40 14.99 13.35 28.43 - EXISTENCE Shares Rebotics EXI 0.40 14.99 13.35 28.43 - EXISTENCE Shares Rebotics EXI 0.40 14.99 13.35 28.43 - EXISTENCE Shares Rebotics EXI 0.40 14.99 13.35 28.43 - EXISTENCE Shares Rebotics EXI 0.40 14.99 13.35 28.43 - EXISTENCE Shares Rebotics EXISTENCE Shares Rebotics EXISTENCE Shares Shares Rebotics EXISTENCE Shar	•		••••••				
Shares Global Consumer Discretionary RXI 0.43	iShares Cybersecurity and Tech	IHAK	0.47	688.7	16.61	-	-
Shares Global Industrials	Roundhill Sports Betting & iGaming	BETZ	0.75	377.9	15.98	-	-
Sibares Global Comm Services MP	iShares Global Consumer Discretionary	RXI	0.43	432.3	15.98	20.02	16.82
Shares Global Comm Services	iShares Global Industrials	EXI	0.43	412.5	15.78	15.39	12.99
Sibares Global Healthcare	Global X SuperDividend REIT	SRET	0.58	474.6	15.75	-5.48	-0.08
VanEck Pharmaceutical PPH 0.35 326.2 14.62 9.33 9.74 ETFIME Prime Cyber Security HACK 0.60 2,423.2 14.50 23.20 20.60 Goldman Sachs Innovate Equity GINN 0.50 493.5 14.49	iShares Global Comm Services	IXP	0.43	307.3	15.36	18.62	10.55
EIFMG Prime Cyber Security	iShares Global Healthcare	IXJ	0.43		14.98	15.76	15.03
Goldman Sachs Innovate Equity GINN 0.50 493.5 14.49 - 22.50 Sibares Exponential Technologies XT 0.47 4,101.0 1,121 2, 24.24 22.25 Defiance Next Gen Comnectivity FING 0.30 1,229.7 13.58 - - - Global X Cloud Computing CLOU 0.68 1,503.2 13.41 - - Global X Cloud Computing CLOU 0.68 1,503.2 13.41 - - Global X Cloud Computing CLOU 0.68 1,503.2 13.41 - - Sibares Robotics, All Multisactor IRBO 0.47 449.5 13.05 28.43 - Sibares Robotics, All Multisactor IRBO 0.47 449.5 13.05 28.43 - Sibares Robotics, All Multisactor IRBO 0.95 1,905.3 12.40 23.91 20.20 ALPS Disruptive Technologies DITEC 0.50 252.1 11.83 26.77 - First Trust Indox NextG NXTG 0.70 1,020.6 11.71 20.83 15.05 ARR Actonomous Technology & Robotics S ARNO 0.75 2,644.8 11.15 39.46 33.85 SPDR S&P Global Infrastructure GII 0.40 458.3 11.15 8.86 6.71 First Trust Nasdad Artificial Intel/Robotics MOST 0.55 277.4 10.99 25.47 First Trust Nasdad Artificial Intel/Robotics MOST 0.55 277.4 10.99 25.47 First Trust Nasdad Artificial Intel/Robotics MOST 0.55 445.8 10.76 29.20 22.09 Sibares Global Infrastructure ERTH 0.55 445.8 10.76 29.20 22.09 Sibares Global Broad Infrastr NFRA 0.47 2,668.2 9.24 11.40 8.64 Invesco MSCI Sustainable Future ERTH 0.55 445.8 10.76 29.20 22.09 Sibares Global Broad Infrastr NFRA 0.47 2,668.2 9.24 11.40 8.64 Invesco Sibares Global Broad Infrastr NFRA 0.47 2,668.2 9.24 11.40 8.64 ARK Firstich Innovation ARK 0.75 3,421.8 7.40 -	VanEck Pharmaceutical				***************	***************************************	**************
Shares Exponential Technologies					******************	23.20	20.60
Defiance Neat Gen Connectivity FIVG 0.30 1,292.7 13.58 - - Clobal X Cloud Computing CLOU 0.68 1,503.2 13.41 - - - - Clobal X Cloud Computing CLOU 0.68 1,503.2 13.41 3.1.41 - - - - SPORS AP Kensho New Economics KOM 0.70 448.5 13.05 28.43 - CROBO Global Robotics and Automation ROBO 0.95 1.905.3 12.40 23.91 20.20 ALPS Disruptive Technologies DTEC 0.50 25.21 11.83 26.77 - 26.44 11.15 39.46 33.86 67.1 11.15 39.46 33.86 67.1 11.15 39.46 33.86 67.1 11.15 39.46 33.86 67.1 11.15 39.46 33.86 67.1 11.15 39.46 33.86 67.1 11.15 39.46 33.86 67.1 11.15 39.46 33.86 67.1 11.15 39.42 12.4 49.4					**************		
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SPDR S&P Kensho New Economies KOMP 0.20 2,096.7 13.14 31.41 Sharers Robotics/All Multisector IRBO 0.47 44.95 13.05 28.43 20.20 ALPS Disruptive Technologies DTEC 0.50 1.52.3 12.40 23.91 20.20 ALPS Disruptive Technologies DTEC 0.50 252.1 11.83 26.77					• · · · · · · · · · · · · · · · · · · ·		······ -
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Name	iShares Global Consumer Staples	KXI	0.43	656.6	6.96	10.21	7.69
VanEck Low Carbon Energy SMOG 0.62 331.3 6.31 48.17 28.84 O'Shares Global Internet Giants OGIG 0.48 615.3 3.72 40.29 - U.S. Global Jets JETS 0.60 3.414.4 -0.71 -8.42 -1.16 Global X Social Media SOCL 0.65 406.5 -1.07 28.15 21.47 VanEck Video Gaming and eSports ESPO 0.55 644.3 -1.39 35.43 - ETFMG Prime Mobile Payments IPAY 0.75 1,152.9 -1.88 18.97 21.52 Global X CleanTech CTEC 0.50 198.6 -2.10 - - ARK Innovation ARKK 0.75 21,460.7 -2.58 44.21 45.38 Invesco Solar TAN 0.69 3,978.7 -3.56 75.65 41.17 Global X Video Games & Esports HERO 0.50 496.1 -4.92 - - First Trust Global Wind Energy FAN 0.62	iShares Global Timber & Forestry	WOOD	0.43	297.8	6.82	10.51	12.80
O'Shares Global Internet Giants OGIG 0.48 615.3 3.72 40.29 - U.S. Global Jets JETS 0.60 3.414.4 -0.71 -8.42 -1.16 Global X Social Media SOCL 0.65 406.5 -1.07 28.15 21.47 VanEck Video Gaming and eSports ESPO 0.55 644.3 -1.39 35.43 - ETFMG Prime Mobile Payments IPAY 0.75 1,152.9 -1.88 18.97 21.52 Global X E-commerce EBIZ 0.50 198.6 -2.10 - - Global X Clean Fech CTEC 0.50 184.4 -2.28 - - Global X Idea Germent ARK M. 0.75 21.460.7 -2.58 44.21 45.38 Invesco Solar TAN 0.69 3.978.7 -3.56 75.65 41.17 Global X Idea Germentes Seports HERO 0.50 496.1 -4.92 - - First Trust Global Wind Energy FAN 0.62	ROBO Global Healthcare Tech/Innovation	HTEC	0.68	241.0	6.76	-	-
U.S. Global Jets JETS 0.60 3,414.4 -0.71 -8.42 -1.16 Global X Social Media SOCL 0.65 406.5 -1.07 28.15 21.47 VanEck Video Gaming and eSports ESPO 0.55 644.3 -1.39 35.43 - ETFMG Prime Mobile Payments IPAY 0.75 1,152.9 -1.88 18.97 21.52 Global X E-commerce EBIZ 0.50 198.6 -2.10 Global X CleanTech CTEC 0.50 184.4 -2.28 ARK Innovation ARKK 0.75 21,460.7 -2.58 44.21 45.38 Invesco Solar TAN 0.69 3,978.7 -3.56 75.65 41.17 Global X Video Games & Esports HERO 0.50 496.1 -4.92 ETFIST Trust Global Wind Energy FAN 0.62 400.0 -5.03 25.42 11.10 Global X Telemedicine & Digital Health EDOC 0.68 578.4 -5.19 ETFING Alternative Harvest MJ 0.75 1,025.5 -5.38 -21.24 -11.06 Global X Genomics & Biotechnology GNOM 0.50 275.1 -9.27 Invesco Global Clean Energy PBD 0.75 398.4 -9.52 44.13 26.16 iShares Global Clean Energy ICLN 0.42 6,873.3 -10.02 47.95 25.74 AdvisorShares Pure Cannabis YOLO 0.76 224.9 -11.71 iShares MSCI Global Gold Miners RING 0.39 505.4 -11.77 22.71 5.65 Sprott Gold Miners GDX 0.50 323.9 -11.91 20.49 4.46 VanEck Gold Miners GDX 0.50 323.9 -11.91 20.49 4.46 VanEck Gold Miners SIL 0.65 1,127.3 -14.52 21.03 0.79 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global	VanEck Low Carbon Energy	SMOG	0.62	331.3	6.31	48.17	28.84
Social Media Soci	O'Shares Global Internet Giants	OGIG	0.48	615.3	3.72	40.29	-
VanEck Video Gaming and eSports ESPO 0.55 644.3 -1.39 35.43 - ETFMG Prime Mobile Payments IPAY 0.75 1,152.9 -1.88 18.97 21.52 Global X E-commerce EBIZ 0.50 198.6 -2.10 - - Global X CleanTech CTEC 0.50 184.4 -2.28 - - ARK Innovation ARKK 0.75 21,460.7 -2.58 44.21 45.38 Invesco Solar TAN 0.69 3,978.7 -3.56 75.65 41.17 Global X Video Games & Esports HERO 0.50 496.1 -4.92 - - First Trust Global Wind Energy FAN 0.62 400.0 -5.03 25.42 11.10 Global X Telemedicine & Digital Health EDOC 0.68 578.4 -5.19 - - ETFMG Alternative Harvest MJ 0.75 1,025.5 -5.38 -21.24 -11.06 Global X Genomics & Biotechnology GNOM 0.50	U.S. Global Jets	JETS	0.60	3,414.4	-0.71	-8.42	-1.16
EFFMG Prime Mobile Payments IPAY 0.75 1,152.9 -1.88 18.97 21.52 Global X E-commerce EBIZ 0.50 198.6 -2.10 - - Global X CleanTech CTEC 0.50 184.4 -2.28 - - ARK Innovation ARKK 0.75 21,460.7 -2.58 44.21 45.38 Invesco Solar TAN 0.69 3,978.7 -3.56 75.65 41.17 Global X Video Games & Esports HERO 0.50 496.1 -4.92 - - First Trust Global Wind Energy FAN 0.62 400.0 -5.03 25.42 11.10 Global X Telemedicine & Digital Health EDOC 0.68 578.4 -5.19 - - ETFMG Alternative Harvest MJ 0.75 1,025.5 -5.38 -21.24 -11.06 Global X Genomics & Biotechnology GNOM 0.50 275.1 -9.27 - - Invesco Global Clean Energy PBD 0.75	Global X Social Media	SOCL	0.65	406.5	-1.07	28.15	21.47
Global X E-commerce EBIZ 0.50 198.6 -2.10 - - Global X CleanTech CTEC 0.50 184.4 -2.28 - - - ARK Innovation ARKK 0.75 21,460.7 -2.58 44.21 45.38 ARKK Innovation ARKK 0.69 3,978.7 -3.56 75.65 41.17 Global X Video Games & Esports HERO 0.50 496.1 -4.92 - - - -	VanEck Video Gaming and eSports		0.55	644.3	-1.39	35.43	
Global X CleanTech	ETFMG Prime Mobile Payments				• · · · · · · · · · · · · · · · · · · ·	18.97	21.52
ARKK Innovation ARKK 0.75 21,460.7 -2.58 44.21 45.38 Invesco Solar TAN 0.69 3,978.7 -3.56 75.65 41.17 Global X Video Games & Esports HERO 0.50 496.1 -4.92 First Trust Global Wind Energy FAN 0.62 400.0 -5.03 25.42 11.10 Global X Telemedicine & Digital Health EDOC 0.68 578.4 -5.19 ETFING Alternative Harvest MJ 0.75 1,025.5 -5.38 -21.24 -11.06 Global X Genomics & Biotechnology GNOM 0.50 275.1 -9.27 Invesco Global Clean Energy PBD 0.75 398.4 -9.52 44.13 26.16 iShares Global Clean Energy ICLN 0.42 6.873.3 -10.02 47.95 25.74 AdvisorShares Pure Cannabis YOLO 0.76 224.9 -11.71 iShares MSCI Global Gold Miners RING 0.39 505.4 -11.77 22.71 5.65 Sprott Gold Miners GDX 0.50 232.9 -11.91 20.49 4.46 VanEck Gold Miners GDX 0.52 13,742.5 -11.97 19.44 5.87 Invesco WilderHill Clean Energy PBW 0.61 1,977.9 -13.45 58.39 38.98 Global X Silver Miners SIL 0.65 1,127.3 -14.52 21.03 0.79 ETFING Prime Junior Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver/Metals Miners SLVP 0.39 270.7 -19.27 22.35 3.19 ARK Genomic Revolution ARKG 0.75 7,369.0 -19.47 42.29 37.00 VanEck Junior Gold Miners GDX 0.53 4,776.3 -20.22 17.59 2.84 AdvisorShares Pure US Cannabis MSOS 0.73 746.0 -25.75 ARK Space Exploration & Innovation ARKX 0.75 544.4					• · · · · · · · · · · · · · · · · · · ·	.	.
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First Trust Global Wind Energy FAN 0.62 400.0 -5.03 25.42 11.10 Global X Telemedicine & Digital Health EDOC 0.68 578.4 -5.19 ETFMG Alternative Harvest MJ 0.75 1,025.5 -5.38 -21.24 -11.06 Global X Genomics & Biotechnology GNOM 0.50 275.1 -9.27 Invesco Global Clean Energy PBD 0.75 398.4 -9.52 44.13 26.16 iShares Global Clean Energy ICLN 0.42 6.873.3 -10.02 47.95 25.74 AdvisorShares Pure Cannabis YOLO 0.76 224.9 -11.71 iShares MSCI Global Gold Miners RING 0.39 505.4 -11.77 22.71 5.65 Sprott Gold Miners SGDM 0.50 232.9 -11.91 20.49 4.46 VanEck Gold Miners GDX 0.52 13.742.5 -11.97 19.44 5.87 Invesco WilderHill Clean Energy PBW 0.61 1,977.9 -13.45 58.39 38.98 Global X Silver Miners SIL 0.65 1,127.3 -14.52 21.03 0.79 ETFMG Prime Junior Silver Miners SIL 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver/Metals Miners SLVP 0.39 270.7 -19.27 22.35 3.19 ARK Genomic Revolution ARKG 0.75 7,369.0 -19.47 42.29 37.00 VanEck Junior Gold Miners GDX 0.53 4,776.3 -20.22 17.59 2.84 AdvisorShares Pure US Cannabis MSOS 0.73 746.0 -25.75 ARK Space Exploration & Innovation ARKX 0.75 544.4 GOldman Sachs Future Tech Leaders Equity GTEK 0.75 231.6 GOLDBAL EX-U.S. EQUITY: SECTOR	•				***************************************	/5.65	41.17
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AdvisorShares Pure Cannabis YOLO 0.76 224,9 -11.71 - - iShares MSCI Global Gold Miners RING 0.39 505.4 -11.77 22.71 5.65 Sprott Gold Miners SGDM 0.50 232.9 -11.91 20.49 4.46 VanEck Gold Miners GDX 0.52 13,742.5 -11.97 19.44 5.87 Invesco WilderHill Clean Energy PBW 0.61 1,977.9 -13.45 58.39 38.98 Global X Silver Miners SIL 0.65 1,127.3 -14.52 21.03 0.79 ETFMG Prime Junior Silver Miners SILJ 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver/Metals Miners SLVP 0.39 270.7 -19.27 22.35 3.19 ARK Genomic Revolution ARKG 0.75 7,369.0 -19.47 42.29 37.00 VanEck Junior Gold Miners GDX 0.53 4,776.3 -20.22 17.59 2.84 AdvisorShares Pure US Ca	**************************************				• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·
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Global X Silver Miners SIL 0.65 1,127.3 -14.52 21.03 0.79 ETFMG Prime Junior Silver Miners SILJ 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver/Metals Miners SLVP 0.39 270.7 -19.27 22.35 3.19 ARK Genomic Revolution ARKG 0.75 7,369.0 -19.47 42.29 37.00 VanEck Junior Gold Miners GDXJ 0.53 4,776.3 -20.22 17.59 2.84 AdvisorShares Pure US Cannabis MSOS 0.73 746.0 -25.75 - - ARK Space Exploration & Innovation ARKX 0.75 544.4 - - - Goldman Sachs Future Tech Leaders Equity GTEK 0.75 231.6 - - - GLOBAL EX-U.S. EQUITY: SECTOR BBH 0.35 583.5 17.57 19.11 14.66	Invesco WilderHill Clean Energy				***************************************	*	***************
ETFMG Prime Junior Silver Miners SILJ 0.69 852.7 -19.07 20.24 -0.27 iShares MSCI Global Silver/Metals Miners SLVP 0.39 270.7 -19.27 22.35 3.19 ARK Genomic Revolution ARKG 0.75 7,369.0 -19.47 42.29 37.00 VanEck Junior Gold Miners GDXJ 0.53 4,776.3 -20.22 17.59 2.84 AdvisorShares Pure US Cannabis MSOS 0.73 746.0 -25.75 - - ARK Space Exploration & Innovation ARKX 0.75 544.4 - - - Goldman Sachs Future Tech Leaders Equity GTEK 0.75 231.6 - - - GLOBAL EX-U.S. EQUITY: SECTOR SECTOR 8BH 0.35 583.5 17.57 19.11 14.66	Global X Silver Miners	SIL			• · · · · · · · · · · · · · · · · · · ·	***************************************	0.79
ARK Genomic Revolution ARKG 0.75 7,369.0 -19.47 42.29 37.00 VanEck Junior Gold Miners GDXJ 0.53 4,776.3 -20.22 17.59 2.84 AdvisorShares Pure US Cannabis MSOS 0.73 746.0 -25.75 - - ARK Space Exploration & Innovation ARKX 0.75 544.4 - - - - Goldman Sachs Future Tech Leaders Equity GTEK 0.75 231.6 - - - - GLOBAL EX-U.S. EQUITY: SECTOR Wan Eck Biotech BBH 0.35 583.5 17.57 19.11 14.66	ETFMG Prime Junior Silver Miners	SILJ	0.69	852.7	-19.07	20.24	-0.27
VanEck Junior Gold Miners GDXJ 0.53 4,776.3 -20.22 17.59 2.84 AdvisorShares Pure US Cannabis MSOS 0.73 746.0 -25.75 - - ARK Space Exploration & Innovation ARKX 0.75 544.4 - - - Goldman Sachs Future Tech Leaders Equity GTEK 0.75 231.6 - - - GLOBAL EX-U.S. EQUITY: SECTOR VanEck Biotech BBH 0.35 583.5 17.57 19.11 14.66	iShares MSCI Global Silver/Metals Miners	SLVP	0.39	270.7	-19.27	22.35	3.19
AdvisorShares Pure US Cannabis MSOS 0.73 746.0 -25.75 - - ARK Space Exploration & Innovation ARKX 0.75 544.4 - - - - Goldman Sachs Future Tech Leaders Equity GTEK 0.75 231.6 - - - - GLOBAL EX-U.S. EQUITY: SECTOR VanEck Biotech BBH 0.35 583.5 17.57 19.11 14.66	ARK Genomic Revolution	ARKG	0.75	7,369.0	-19.47	42.29	37.00
ARK Space Exploration & Innovation ARKX 0.75 544.4 - - - Goldman Sachs Future Tech Leaders Equity GTEK 0.75 231.6 - - - GLOBAL EX-U.S. EQUITY: SECTOR VanEck Biotech BBH 0.35 583.5 17.57 19.11 14.66	VanEck Junior Gold Miners	GDXJ	0.53	4,776.3	-20.22	17.59	2.84
Goldman Sachs Future Tech Leaders Equity GTEK 0.75 231.6 - - - - GLOBAL EX-U.S. EQUITY: SECTOR VanEck Biotech BBH 0.35 583.5 17.57 19.11 14.66	AdvisorShares Pure US Cannabis	MSOS	0.73	746.0	-25.75		-
GLOBAL EX-U.S. EQUITY: SECTOR VanEck Biotech BBH 0.35 583.5 17.57 19.11 14.66					<u> </u>	-	-
VanEck Biotech BBH 0.35 583.5 17.57 19.11 14.66		GTEK	0.75	231.6	-	=	-
iShares Intl Developed Real Estate IFGL 0.48 284.4 10.17 7.29 6.01	VanEck Biotech				• · · · · · · · · · · · · · · · · · · ·	***************************************	• · · · · · · · · · · · · · · · · · · ·
	iShares Inti Developed Real Estate	IFGL	0.48	284.4	10.17	7.29	6.01

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Ktrackers International Real Estate	HAUZ	0.10	544.4	10.06	8.23	6.87
SPDR Dow Jones International Real Estate	RWX	0.59	892.7	9.66	5.98	4.56
/anguard Global ex-U.S. Real Estate	VNQI	0.12	5,143.1	6.99	7.07	5.87
NTERNATIONAL EQUITY: DEVELOPED SEC	TOR				_	
Shares MSCI Europe Financials	EUFN	0.48	1,755.2	22.45	8.02	7.21
NTERNATIONAL EQUITY: EMERGING SECT	OR					
trackers EM Carbon Reducers	EMCR	0.15	483.7	8.08	-	-
(raneShares MSCI All China Health Care	KURE	0.65	204.1	-9.04	21.79	-
Global X MSCI China Consumer Discr	CHIQ	0.65	657.3	-16.78	31.49	21.39
nvesco China Technology	CQQQ	0.70	1,527.8	-17.10	19.07	12.44
Emerging Markets Internet & Ecommerce	EMQQ	0.86	1,275.9	-20.62	22.50	14.94
GLOBAL EQUITY: HIGH DIVIDEND YIELD						
irst Trust Dow Jones Global Select Div	FGD	0.59	521.6	20.49	5.40	3.92
SPDR S&P Global Dividend	WDIV	0.40	334.0	14.03	6.48	6.26
Global X SuperDividend	SDIV	0.59	936.9	7.47	-4.43	-1.24
GLOBAL EX-U.S. EQUITY: HIGH DIVIDEND Y	/IELD					
/anguard International HiDiv Yield	VYMI	0.27	3,091.2	15.15	9.29	8.03
SPDR S&P International Dividend	DWX	0.45	653.3	9.45	7.52	5.96
NTERNATIONAL EQUITY: HIGH DIVIDEND	/IELD					
irst Trust Stoxx European Select Dividend	FDD	0.58	296.2	14.51	5.78	5.00
Shares International Select Dividend	IDV	0.49	4,433.1	11.10	6.96	7.17
J.S. FIXED INCOME: BROAD MARKET - BR	OAD MAT	URITIES				
idelity Corporate Bond	FCOR	0.36	274.0	-1.25	8.46	4.91
Shares Core Total USD Bond Market	IUSB	0.06	15,924.5	-1.36	5.75	3.29
Shares ESG Adv Total USD Bond Market	EUSB	0.12	548.7	-1.50	-	-
J.S. FIXED INCOME: BROAD MARKET - LO	NG-TERM					
Shares Core 10+ Year USD Bond	ILTB	0.06	355.2	-2.89	11.95	6.23
J.S. FIXED INCOME: BROAD MARKET - SH	ORT-TERM	Л				
ictoryShares USAA Core Short-Term Bond	USTB	0.34	273.5	0.68	3.71	-
irst Trust Enhanced Short Maturity	FTSM	0.25	4,411.5	0.06	1.39	1.53
Shares Core 1-5 Year USD Bond	ISTB	0.06	6,234.6	-0.49	3.65	2.38
irst Trust Low Duration Strategic Focus	LDSF	0.77	202.8	-0.79	-	-
J.S. FIXED INCOME: GOVERNMENT/CREDI	T - INTER	MEDIATE				
/ictoryShares Core Intermediate Bond	UITB	0.38	1,112.6	0.22	7.36	-
ident Core US Bond Strategy	VBND	0.39	421.4	-0.44	5.54	2.56
J.S. FIXED INCOME: GOVERNMENT/CREDI	T - LONG	-TERM				
Shares Int Rate Hedged Long-Term Corp	IGBH	0.16	831.6	2.64	2.94	4.59
/anguard Long-Term Corporate Bond	VCLT	0.05	5,361.4	-1.28	12.21	6.93
Shares 10+ Year Inv Grade Corporate Bond	IGLB	0.06	2,636.3	-1.28	12.04	6.81
SPDR Portfolio Long Term Corporate Bond	SPLB	0.07	899.7	-1.55	12.09	6.77
J.S. FIXED INCOME: GOVERNMENT						
Shares New York Muni Bond	NYF	0.25	541.6	0.43	4.50	2.77
VisdomTree Floating Rate Treasury	USFR	0.15	1,743.9	0.00	0.96	1.02
Shares Treasury Floating Rate Bond	TFL0	0.15	261.4	-0.01	0.93	1.07
Shares US Treasury Bond	GOVT	0.05	15,664.0	-2.06	4.92	2.32
ranklin Liberty US Treasury Bond	FLGV	0.09	413.0	-2.39	-	-
nvesco 1-30 Laddered Treasury	PLW	0.25	408.6	-4.13	7.63	3.28
J.S. FIXED INCOME: TREASURY - SHORT 1						
Shares 0-3 Month Treasury Bond	SGOV	0.03	795.2	0.03	-	-
nvesco Treasury Collateral	CLTL	0.08	683.6	0.01	1.22	-
Goldman Sachs Access Treasury 0-1 Year	GBIL	0.12	1,809.3	-0.06	1.04	1.05
SPDR Bloomberg 1-3 Month T-Bill	BIL	0.14	13,052.5	-0.08	0.91	0.95
	SHV	0.15	13,622.6	-0.08	1.15	1.10
Silates Silutt ileasury Dullu			*******************		2.47	1.53
	VGSH	0.05	13,615.1	-0.36	2.47	
anguard Short-Term Treasury	VGSH SCH0	0.05 0.05	13,615.1 9,380.7	-0.36 -0.37		
languard Short-Term Treasury Schwab Short-Term US Treasury	SCH0	0.05	9,380.7	-0.37	2.47	1.53
Yanguard Short-Term Treasury Schwab Short-Term US Treasury Shares 1-3 Year Treasury Bond	SCH0 SHY	0.05 0.15	9,380.7 20,029.6	-0.37 -0.45	2.47 2.36	1.53 1.45
Yanguard Short-Term Treasury Chwab Short-Term US Treasury Shares 1-3 Year Treasury Bond SPDR Portfolio Short Term Treasury	SCHO SHY SPTS	0.05 0.15 0.06	9,380.7 20,029.6 3,464.3	-0.37 -0.45 -0.45	2.47 2.36 2.48	1.53 1.45 1.38
anguard Short-Term Treasury chwab Short-Term US Treasury Shares 1-3 Year Treasury Bond SPDR Portfolio Short Term Treasury ranklin Liberty Short Duration US Govt	SCHO SHY SPTS FTSD	0.05 0.15	9,380.7 20,029.6	-0.37 -0.45	2.47 2.36	1.53 1.45 1.38
/anguard Short-Term Treasury Schwab Short-Term US Treasury Shares 1-3 Year Treasury Bond SPDR Portfolio Short Term Treasury Franklin Liberty Short Duration US Govt J.S. FIXED INCOME: TREASURY - INTERM	SCHO SHY SPTS FTSD EDIATE	0.05 0.15 0.06 0.25	9,380.7 20,029.6 3,464.3 453.3	-0.37 -0.45 -0.45 -0.66	2.47 2.36 2.48 1.97	1.53 1.45 1.38 1.40
Vanguard Short-Term Treasury Schwab Short-Term US Treasury Shares 1-3 Year Treasury Bond SPDR Portfolio Short Term Treasury Franklin Liberty Short Duration US Govt J.S. FIXED INCOME: TREASURY - INTERMI Shares 3-7 Year Treasury Bond	SCHO SHY SPTS FTSD EDIATE IEI	0.05 0.15 0.06 0.25	9,380.7 20,029.6 3,464.3 453.3	-0.37 -0.45 -0.45 -0.66	2.47 2.36 2.48 1.97	1.53 1.45 1.38 1.40 2.06
Vanguard Short-Term Treasury Schwab Short-Term US Treasury Shares 1-3 Year Treasury Bond SPDR Portfolio Short Term Treasury Franklin Liberty Short Duration US Govt J.S. FIXED INCOME: TREASURY - INTERMI Shares 3-7 Year Treasury Bond SPDR Portfolio Intermediate Treasury	SCHO SHY SPTS FTSD EDIATE IEI SPTI	0.05 0.15 0.06 0.25 0.15 0.06	9,380.7 20,029.6 3,464.3 453.3 10,594.6 3,033.1	-0.37 -0.45 -0.45 -0.66 -2.43 -2.64	2.47 2.36 2.48 1.97 4.22 4.70	1.53 1.45 1.38 1.40 2.06 2.43
Shares Short Treasury Bond /anguard Short-Term Treasury Schwab Short-Term US Treasury Shares 1-3 Year Treasury Bond SPDR Portfolio Short Term Treasury Franklin Liberty Short Duration US Govt J.S. FIXED INCOME: TREASURY - INTERM Shares 3-7 Year Treasury Bond SPDR Portfolio Intermediate Treasury /anguard Intermediate-Term Treasury Schwab Intermediate-Term US Treasury	SCHO SHY SPTS FTSD EDIATE IEI	0.05 0.15 0.06 0.25	9,380.7 20,029.6 3,464.3 453.3	-0.37 -0.45 -0.45 -0.66	2.47 2.36 2.48 1.97	1.53 1.45 1.38 1.40 2.06

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
U.S. FIXED INCOME: TREASURY - LONG-1	ERM					
iShares 20+ Year Treasury Bond	TLT	0.15	15,243.4	-5.27	11.23	4.63
Vanguard Long-Term Treasury	VGLT	0.05	2,646.1	-5.61	10.92	4.52
SPDR Portfolio Long Term Treasury	SPTL	0.06	4,421.7	-5.64	10.94	4.51
Shares 25+ Year Treasury STRIPS Bond	GOVZ	0.15	413.2	-5.76		<u> </u>
PIMCO 25+ Year Zero Coupon US Treasury	ZR0Z	0.15	395.5	-5.98	16.45	6.40
Shares 10-20 Year Treasury Bond	TLH	0.15	1,520.3	-6.15	7.56	3.05
Vanguard Extended Duration Treasury	EDV	0.07	1,274.9	-6.93	14.68	5.81
U.S. FIXED INCOME: AGENCIES						
Shares Agency Bond	AGZ	0.20	771.6	-0.82	4.16	2.40
U.S. FIXED INCOME: AGENCY MBS						
anus Henderson MBS	JMBS	0.32	848.0	-0.25	5.02	-
irst Trust Low Duration Opportunities	LMBS	0.68	6,780.2	-0.61	0.20	-0.61
/anguard Mortgage-Backed Securities	VMBS	0.05	15,254.1	-1.06	3.79	2.03
Shares MBS	MBB	0.06	25,900.9	-1.06	3.94	2.06
SPDR Portfolio Mortgage Backed Bond	SPMB	0.04	4,213.2	-1.49	3.76	1.99
Shares GNMA Bond	GNMA	0.11	483.7	-1.70	3.41	1.67
J.S. FIXED INCOME: TIPS						
Shares 0-5 Year TIPS Bond	STIP	0.05	7,425.3	5.01	5.08	3.21
FlexShares iBoxx 3 Year Target Dur TIPS	TDTT	0.18	1,428.5	4.99	6.05	3.58
PIMCO 1-5 Year US TIPS	STPZ	0.20	1,198.7	4.96	5.14	3.10
anguard Short-Term Infl-Protected Sec	VTIP	0.05	18,018.1	4.77	4.94	3.12
SPDR Bloomberg Barclays 1-10 Year TIPS	TIPX	0.15	997.9	4.71	6.89	3.91
lexShares iBoxx 5-Yr Target Duration TIPS	TDTF	0.18	712.2	4.69	7.97	4.38
Schwab US TIPS	SCHP	0.05	21,428.3	4.60	8.32	4.60
PIMCO Broad US TIPS	TIPZ	0.20	210.9	4.46	8.38	4.56
Shares TIPS Bond	TIP	0.19	35,841.2	4.34	8.17	4.47
SPDR Portfolio TIPS	SPIP	0.12	3,282.5	4.28	8.50	4.63
PIMCO 15+ Year US TIPS	LTPZ	0.20	889.5	3.07	15.81	7.69
Quadratic Int Rate Vol/Inflation Hedge	IVOL	1.05	3,622.9	0.80	-	-
J.S. FIXED INCOME: MUNICIPAL - BROAI	MARKET					
irst Trust Municipal High Income	FMHI	0.55	335.0	5.80	7.17	-
/anEck CEF Muni Income	XMPT	2.32	197.8	4.62	11.74	6.11
American Century Diversified Muni	TAXF	0.29	183.6	1.74	5.87	-
irst Trust Managed Municipal	FMB	0.50	2,392.8	1.33	5.26	3.68
nvesco Taxable Municipal Bond	BAB	0.28	2,496.9	0.97	8.34	5.23
Hartford Municipal Opportunities	HMOP	0.29	218.2	0.90	4.58	-
nvesco National AMT-Free Muni Bond	PZA	0.28	2,495.3	0.87	5.79	3.69
/anguard Tax-Exempt Bond	VTEB	0.06	14,132.3	0.34	5.08	3.22
Shares National Muni Bond	MUB	0.07	23,833.8	0.30	4.97	3.08
Q MacKay Municipal Insured	MMIN	0.31	479.6	0.16	6.07	-
Shares California Muni Bond	CMF	0.25	1,908.4	-0.13	4.66	2.78
J.S. FIXED INCOME: MUNICIPAL - SHORT	T-TERM					
irst Trust Ultra Short Duration Municipal	FUMB	0.35	180.3	0.25	-	-
PMorgan Ultra-Short Municipal Income	JMST	0.18	2,244.0	0.22	1.64	-
PIMCO Short Term Municipal Bond Active	SMMU	0.35	548.7	0.11	2.38	1.73
Shares iBonds Dec 2022 Term Muni Bond	IBMK	0.18	379.1	0.09	2.54	1.40
Shares iBonds Dec 2023 Term Muni Bond	IBML	0.18	336.4	0.04	3.15	-
BlackRock Short Maturity Municipal Bond	MEAR	0.25	293.2	-0.01	1.17	1.07
Shares Short-Term National Muni Bond	SUB	0.07	6,326.6	-0.08	2.22	1.46
Shares iBonds Dec 2021 Term Muni Bond	IBMJ	0.18	276.4	-0.11	1.77	1.03
/anEck Short Muni	SMB	0.20	330.5	-0.11	2.99	1.80
SPDR Nuveen Bloomberg Short Term Muni	SHM	0.20	5,095.0	-0.41	2.43	1.42
I.S. FIXED INCOME: MUNICIPAL - INTER		-	,	.=		
Q MacKay Municipal Intermediate	MMIT	0.31	232.8	0.55	5.96	_
PIMCO Intermediate Muni Bond Active	MUNI	0.35	682.1	0.13	4.70	2.96
Shares iBonds Dec 2024 Term Muni Bond	IBMM	0.18	243.2	-0.13	3.99	-
Shares iBonds Dec 2025 Term Muni Bond	IBMN	0.18	182.5	-0.48		-
/anEck Intermediate Muni	ITM	0.24	1,930.1	-1.41	5.35	3.08
J.S. FIXED INCOME: MUNICIPAL - LONG-			-,		00	3.00
nvesco California AMT-Free Municipal	PWZ	0.28	564.3	0.76	5.68	3.63
/anEck Long Muni	MLN	0.24	242.4	0.70	6.80	3.95
SPDR Nuveen Bloomberg Municipal Bond	TFI	0.23	4,052.5	-0.66	5.20	2.98
J.S. FIXED INCOME: MUNICIPAL - HIGH \		0.23	7,032.3	-0.00	3.20	2.30
SPDR Nuveen Bloomberg High Yield Muni	HYMB	0.35	1,827.6	3.40	6.19	4.22
/anEck Short High Yield Muni	SHYD	0.35	423.0	2.70	4.41	3.04
ander Short right held Midth	υПΙ	0.30	423.U	2.70	4.41	3.04

Next	FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Shares Int Rate Hedged Corporate Bond QDH Q.24 71,70 2.01 3.30 3.78 ProShares Int Grade Intreser Rate Hedged GRG Q.30 2273 3.00 3.25 New Tribution Prostate March Quant Q.20 2273 3.00 3.25 New Tribution Quant Quant Q.20 2273 3.00 3.25 New Tribution Quant Quant Q.20 2793 3.00 3.25 New Tribution Quant Quant Q.20 2793 3.00 3.25 New Tribution Quant Q.20 2793 3.00 3.25 New Tribution Quant Q.20 2793 3.00 4.25 4.27 New Tribution Q.20 2793 3.00 4.25 4.25 4.25 New Tribution Q.20 2793 4.25 4.25 4.25 4.25 New Tribution Q.20 2793 4.25 4.25 4.25 4.25 4.25 New Tribution Q.20 2793 4.25 4.25 4.25 4.25 4.25 4.25 New Tribution Q.20 2793 4.25 4.2	VanEck High Yield Muni	HYD	0.35	3,548.8	2.04	4.38	3.67
PVSDIATES INTO Grade - Interest Rate Hedged GHG G.30							
Misdom/Tree Int Rate Hedged US Agg Bond AGZD 0.23 227.3 0.80 1.86 1.95 1.76 1.04 1.05 2.07 1.06 2.03 2.07 1.06 1.05 2.07 1.06 1.05 2.07 1.06 1.05 2.07 1.06 2.03 2.07 1.06 2.03 2.07 1.06 2.03 2.07 1.06 2.03 2.07 1.06 2.03 2.07 2.07 2.05	***************************************						•
Federily Low Duration Bond Factors	-						•
Principal Inv Grade Corporate Extrue G							1.95
PMCO Investment Grade Corporate Bond ORP 0.20 7998 -1.04 8.14 4.71				· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •	.
SPDR Portfolio Carporate Bond SPBO O.03				· · · · · · · · · · · · · · · · · · ·		•••••	Δ71
Shares St G Avare USD Carporate Bond SUSC 0.18 6.702.1 -1.10 7.79 4.57				· · · · · · · · · · · · · · · · · · ·		•••••	• · · · · · · · · · · · · · · · · · · ·
Shares ESG Aware USD Corporate Bond						•••••	• · · · · · · · · · · · · · · · · · · ·
Franklin Liberty US Care Bond	iShares ESG Aware USD Corporate Bond	SUSC	0.18		-1.20	7.78	-
SPDR Portfolio Aggregate Bond SPAB 0.03 6,541.8 -1,68 5,55 3.03 Ishares Core US Aggregate Bond AGG 0.04 89,161.4 -1,68 5,52 3.02 Ishares ESG Aware US Aggregate Bond SCHZ 0.04 9,235.7 -1,69 5,52 2.99 Wisdomfree Yind Enhanced US Agg AGGY 0.12 1,110.7 -1,70 5,90 3.22 Ishares IBoar USD Inv Grade Corporate LOD 0.14 3790.52 -1,76 -5 -7 Vanguard Total Bond Market BND 0.04 83,001.3 -1,76 5,70 3.09 Goldman Sachs Access Inv Grade Corp GIGB 0.14 790.5 -1,81 7,72 -4 Fondlinan Sachs Access IV Aggregate VCEB 0.12 243.8 -1,92 7,73 4,33 Vanguard ESG US Corporate Bond VCEB 0.12 243.8 -1,92 7,73 4,33 Alvanour Core Bond NURD 0.15 268.8 -2,22 5,16 3,00 Sh	Vanguard Total Corporate Bond	VTC	0.05	708.5	-1.21	7.82	-
Shares Core US Aggregate Bond AGG 0.04 89,161.4 -1.68 5.52 3.02	Franklin Liberty US Core Bond	FLCB	0.15	1,667.9	-1.65	-	-
Shares ESG Aware US Aggregate Bond CAGG CAGG	SPDR Portfolio Aggregate Bond	SPAB	0.03	6,541.8	-1.68	5.55	3.03
Schwab US Aggregate Bond SCHZ 0.04 9,235.7 -1.69 5.52 2.99	iShares Core US Aggregate Bond	AGG	0.04	89,161.4	-1.68	5.52	3.02
Wisdom/Tree Yield Enhanced US Agg AGGY 0.12 1.110.7 -1.70 5.90 3.22 Shares Bloxx USD Inv Grade Corporate LQD 0.14 37,903.5 -1.70 9.12 5.19 PMongan US Aggregate Bond JAGG 0.07 1.075.2 -1.76 5.70 3.09 Goldman Sachs Access Inv Grade Corp FLCO 0.35 1.017.3 -1.88 7.73 4.33 Vanguard ESG US Corporate Bond VCEB 0.12 243.8 -1.92 Roldman Sachs Access US Aggregate NUAG 0.20 361.9 -1.93 5.66 3.07 Shares Asa-A Rated Corporate Bond QUTA 0.15 1,711.8 -2.12 7.11 4.00 Nuveen ESG US Aggregate Bond NUBD 0.15 268.8 -2.22 5.16 - BMY Mellon Core Bond BKAG 0.00 194.7 -2.55 - - BMY Mellon Core Bond BKAG 0.00 194.7 -2.55 - - SPOR SSgA Ultra Short Term Bo	iShares ESG Aware US Aggregate Bond	EAGG	0.10	1,629.8	-1.68	5.44	
ISAners IBOX USD Inv Grade Corporate LQD 0.14 37,903.5 -1.70 9.12 5.19 IPMorgan US Aggregate Bond JAGG 0.07 1,075.2 -1.76 5.70 3.09 Vanguard Total Bond Market BND 0.04 83,001.3 -1.76 5.70 3.09 Goldiman Sachs Access Inv Grade Corp GIGB 0.14 790.5 -1.81 7.72 -1.75 Franklin Liberty Investment Grade Corp FLCO 0.35 1,017.3 -1.89 7.73 4.33 Vanguard ESG US Corporate Bond VCEB 0.12 243.8 -1.92 -1 -2 Goldman Sachs Access US Agg Bond GCOR 0.14 236.5 -1.93 5.66 3.07 Goldman Sachs Access US Aggregate NUAG 0.20 361.9 -1.93 5.66 3.07 ISAners Aaa-A Rated Corporate Bond NUBD 0.15 268.8 -2.22 5.16 -2 BNY Mellon Core Bond BNAG 0.00 194.7 -2.55 -2 -2 ENEW Thomas Aggregate Bond NUBD 0.15 268.8 -2.22 5.16 -2 BNY Mellon Core Bond BNAG 0.00 194.7 -2.55 -2 -2 US. FIXED INCOME: CORPORATE - INVESTMENT GRADE - SHORT-TERM PART -2.00	Schwab US Aggregate Bond		0.04	9,235.7	-1.69	5.52	2.99
PMorgan US Aggregate Bond	··········· T ā········					•••••	•
Vanguard Total Bond Market BND 0.04 83,001.3 -1.76 5.70 3.09						9.12	5.19
Goldman Sachs Access Inv Grade Corp FLOO 0.35 1,017.3 -1.89 7.73 4.33	***************************************						
Franklin Liberty Investment Grade Corp							3.09
Vanguard ESG US Corporate Bond OCEB O.12 243.8 -1.92				· · · · · · · · · · · · · · · · · · ·			V 33
Solidiman Sachis Access US Agg Bond GCOR 0.14 236.5 -1.93	***************************************					1./3	4.33
Nuveen Enhanced Yield US Aggregate NUAG 0.20 361.9 -1.93 5.66 3.07				· · · · · · · · · · · · · · · · · · ·			
Shares Aaa-A Rated Corporate Bond QLTA 0.15 1,171.8 2.12 7.11 4.00						5.66	3.07
Number SG US Aggregate Bond NUBD 0.15 268.8 -2.22 5.16 -						•••••	•
BNY Mellon Core Bond BKAG 0.00 194.7 -2.55	***************************************						-
PGIM Ultra Short Bond		BKAG	0.00	194.7	-2.55	-	-
PGIM Ultra Short Bond	Vanguard Long-Term Bond	BLV	0.05	6,099.3	-2.91	11.92	7.25
SPDR SSgA Ultra Short Term Bond ULST 0.20 483.7 0.31 1.71 1.67 ClearShares Ultra-Short Maturity OPER 0.20 180.2 0.31 1.16 - PIMCO Enh Short Maturity Active ESG EMNT 0.24 177.9 0.22 - - BlackRock Ultra Short Income JPST 0.18 18,424.6 0.14 1.99 - IShares iBonds Dec 2021 Term Corporate IBDM 0.10 1,222.0 0.09 2.80 1.91 PIMCO Enhanced Short Maturity Active MINT 0.35 14,104.0 0.08 1.69 1.76 Invesco BulletShares 2022 Corporate Bond BSCM 0.10 2,391.5 0.06 3.99 2.54 Ishares iBonds Dec 2022 Term Corporate IBDN 0.10 1,578.6 0.05 3.99 2.46 Invesco BulletShares 2021 Corporate Bond BSCL 0.10 1,467.5 -0.01 2.71 1.85 Goldman Sachs Access Ultra Short Bond GSST 0.16 329.0 -0.02 - -	U.S. FIXED INCOME: CORPORATE - INVESTI	MENT GF	RADE - SHORT	-TERM			
ClearShares Ultra-Short Maturity	PGIM Ultra Short Bond	PULS	0.15	1,959.1	0.45	1.79	
PIMCO Enh Short Maturity Active ESG	SPDR SSgA Ultra Short Term Bond	ULST	0.20	483.7	0.31	1.71	1.67
BlackRock Ultra Short-Term Bond	***************************************					1.16	
JPST 0.18 18,424,6 0.14 1.99	***************************************			· · · · · · · · · · · · · · · · · · ·		-	.
ISBM 0.10 1,222.0 0.09 2.80 1.91	••••••						1.80
PIMCO Enhanced Short Maturity Active MINT 0.35 14,104.0 0.08 1.69 1.76							- 1.01
Invesco BulletShares 2022 Corporate Bond BSCM 0.10 2,391.5 0.06 3.99 2.54				·······		• • • • • • • • • • • • • • • • • • • •	•
Invesco BulletShares 2021 Corporate Bond BSCL 0.10 1,578.6 0.05 3.90 2.46			. *	· · · · · · · · · · · · · · · · · · ·			•
Invesco BulletShares 2021 Corporate Bond BSCL 0.10 1,467.5 -0.01 2.71 1.85							• · · · · · · · · · · · · · · · · · · ·
Soldman Sachs Access Ultra Short Bond GSST 0.16 329.0 -0.02 - - -							• · · · · · · · · · · · · · · · · · · ·
SPDR Portfolio Short Term Corporate Bond SPSB 0.07 7,886.0 -0.11 3.24 2.34 Invesco BulletShares 2023 Corporate Bond BSCN 0.10 2,191.5 -0.18 4,90 3.19 iShares 1-5 Year Inv Grade Corporate Bond IGSB 0.06 23,596.1 -0.34 4,28 2.85 iShares 0-5 Yr Inv Grade Corporate Bond SLQD 0.06 2,521.7 -0.43 3.72 2.58 Vanguard Short-Term Corporate Bond VCSH 0.05 42,790.7 -0.46 4.11 2.79 Schwab 1-5 Year Corporate Bond SCHJ 0.05 639.8 -0.50 - - iShares ESG Aware 1-5 Year USD Corporate Bond SUSB 0.12 1,055.6 -0.53 3.97 - Vanguard Short-Term Bond BSV 0.05 42,632.1 -0.88 3.36 2.05 Vanguard Ultra-Short Bond VUSB 0.10 1,848.2 - - - IShares iBonds Dec 2023 Term Corporate IBDO 0.10 1,666.4 -0.13 5.08 <						-	-
Invesco BulletShares 2023 Corporate Bond BSCN 0.10 2,191.5 -0.18 4.90 3.19 iShares 1-5 Year Inv Grade Corporate Bond IGSB 0.06 23,596.1 -0.34 4.28 2.85 iShares 0-5 Yr Inv Grade Corporate Bond SLQD 0.06 2,521.7 -0.43 3.72 2.58 Vanguard Short-Term Corporate Bond VCSH 0.05 42,790.7 -0.46 4.11 2.79 Schwab 1-5 Year Corporate Bond SCHJ 0.05 639.8 -0.50 - - iShares ESG Aware 1-5 Year USD Corporate Bond SUSB 0.12 1,055.6 -0.53 3.97 - Vanguard Short-Term Bond BSV 0.05 42,632.1 -0.88 3.36 2.05 Vanguard Ultra-Short Bond VUSB 0.10 1,848.2 - - - U.S. FIXED INCOME: CORPORATE - INVESTMENT GRADE - INTERMEDIATE IShares iBonds Dec 2023 Term Corporate IBDD 0.10 1,666.4 -0.13 5.08 3.11 IShares iBonds Dec 2024 Term Corporate IBDP 0.10 1,503.9 -0.34 5.84 3.52 Invesco BulletShares 2024 Corporate Bond BSCO 0.10 1,679.3 -0.52 5.94 3.71 FlexShares Credit-Scored US Corporate IBDQ 0.10 1,256.3 -1.18 6.37 3.74 IShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.18 6.37 3.74 IShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.19 6.91 4.10 SPDR Portfolio Intermediate Corporate SPIB 0.07 6,072.4 -1.22 5.79 3.58 Invesco BulletShares 2025 Corporate Bond BSCP 0.10 1,104.3 -1.28 6.78 3.88 Inspire Corporate Bond Impact IBD 0.49 233.6 -1.33 4.16 - IShares iBonds Dec 2026 Term Corporate IBDR 0.10 583.0 -1.52 7.91 - IShares iBonds Dec 2026 Term Corporate IBDR 0.10 586.7 -1.56 7.53 4.16 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13	•••••					3.24	2.34
iShares 0-5 Yr Inv Grade Corporate Bond SLQD 0.06 2,521.7 -0.43 3.72 2.58 Vanguard Short-Term Corporate Bond VCSH 0.05 42,790.7 -0.46 4.11 2.79 Schwab 1-5 Year Corporate Bond SCHJ 0.05 639.8 -0.50 - - iShares ESG Aware 1-5 Year USD Corporate Bond SUSB 0.12 1,055.6 -0.53 3.97 - Vanguard Short-Term Bond BSV 0.05 42,632.1 -0.88 3.36 2.05 Vanguard Ultra-Short Bond VUSB 0.10 1,848.2 - - - - U.S. FIXED INCOME: CORPORATE - INVESTMENT GRADE - INTERMEDIATE INVESTMENT GRADE - INTERMEDIATE -	***************************************						
Vanguard Short-Term Corporate Bond VCSH 0.05 42,790.7 -0.46 4.11 2.79 Schwab 1-5 Year Corporate Bond SCHJ 0.05 639.8 -0.50 - - iShares ESG Aware 1-5 Year USD Corporate Bond SUSB 0.12 1,055.6 -0.53 3.97 - Vanguard Short-Term Bond BSV 0.05 42,632.1 -0.88 3.36 2.05 Vanguard Ultra-Short Bond VUSB 0.10 1,848.2 - - - - U.S. FIXED INCOME: CORPORATE - INVESTMENT GRADE - INTERMEDIATE INVESTMENT GRADE - INTERMEDIATE - <t< td=""><td>iShares 1-5 Year Inv Grade Corporate Bond</td><td>IGSB</td><td>0.06</td><td>23,596.1</td><td>-0.34</td><td>4.28</td><td>2.85</td></t<>	iShares 1-5 Year Inv Grade Corporate Bond	IGSB	0.06	23,596.1	-0.34	4.28	2.85
Schwab 1-5 Year Corporate Bond SCHJ 0.05 639.8 -0.50 - - iShares ESG Aware 1-5 Year USD Corporate Bond SUSB 0.12 1,055.6 -0.53 3.97 - Vanguard Short-Term Bond BSV 0.05 42,632.1 -0.88 3.36 2.05 Vanguard Ultra-Short Bond VUSB 0.10 1,848.2 - - - - U.S. FIXED INCOME: CORPORATE - INVESTMENT GRADE - INTERMEDIATE IShares iBonds Dec 2023 Term Corporate IBDO 0.10 1,666.4 -0.13 5.08 3.11 iShares iBonds Dec 2024 Term Corporate IBDP 0.10 1,503.9 -0.34 5.84 3.52 Invesco BulletShares 2024 Corporate Bond BSCO 0.10 1,679.3 -0.52 5.94 3.71 FlexShares Credit-Scored US Corporate SKOR 0.22 315.8 -1.18 6.37 3.74 iShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.19 6.91 4.10 SPDR Portfolio Intermediate Corporate SPIB <t< td=""><td>iShares 0-5 Yr Inv Grade Corporate Bond</td><td>SLQD</td><td>0.06</td><td>2,521.7</td><td>-0.43</td><td>3.72</td><td>2.58</td></t<>	iShares 0-5 Yr Inv Grade Corporate Bond	SLQD	0.06	2,521.7	-0.43	3.72	2.58
iShares ESG Aware 1-5 Year USD Corporate Bond SUSB 0.12 1,055.6 -0.53 3.97 - Vanguard Short-Term Bond BSV 0.05 42,632.1 -0.88 3.36 2.05 Vanguard Ultra-Short Bond VUSB 0.10 1,848.2 - - - - U.S. FIXED INCOME: CORPORATE - INVESTMENT GRADE - INTERMEDIATE IShares iBonds Dec 2023 Term Corporate IBDO 0.10 1,666.4 -0.13 5.08 3.11 iShares iBonds Dec 2024 Term Corporate IBDP 0.10 1,503.9 -0.34 5.84 3.52 Invesco BulletShares 2024 Corporate Bond BSCO 0.10 1,679.3 -0.52 5.94 3.71 FlexShares Credit-Scored US Corporate SKOR 0.22 315.8 -1.18 6.37 3.74 iShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.19 6.91 4.10 SPDR Portfolio Intermediate Corporate SPIB 0.07 6,072.4 -1.22 5.79 3.58 Invesco BulletShares 2025 Corporate Bond	Vanguard Short-Term Corporate Bond	VCSH	0.05	42,790.7	-0.46	4.11	2.79
Vanguard Short-Term Bond BSV 0.05 42,632.1 -0.88 3.36 2.05 Vanguard Ultra-Short Bond VUSB 0.10 1,848.2 - - - - U.S. FIXED INCOME: CORPORATE - INVESTMENT GRADE - INTERMEDIATE IShares iBonds Dec 2023 Term Corporate IBDO 0.10 1,666.4 -0.13 5.08 3.11 iShares iBonds Dec 2024 Term Corporate IBDP 0.10 1,503.9 -0.34 5.84 3.52 Invesco BulletShares 2024 Corporate Bond BSCO 0.10 1,679.3 -0.52 5.94 3.71 FlexShares Credit-Scored US Corporate SKOR 0.22 315.8 -1.18 6.37 3.74 iShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.19 6.91 4.10 SPDR Portfolio Intermediate Corporate SPIB 0.07 6,072.4 -1.22 5.79 3.58 Invesco BulletShares 2025 Corporate Bond BSCP 0.10 1,104.3 -1.28 6.78 3.88 Inspire Corporate Bond Impact IBD	Schwab 1-5 Year Corporate Bond	SCHJ	0.05	639.8	-0.50	- -	
Vanguard Ultra-Short Bond VUSB 0.10 1,848.2 - - - U.S. FIXED INCOME: CORPORATE - INVESTMENT GRADE - INTERMEDIATE iShares iBonds Dec 2023 Term Corporate IBDO 0.10 1,666.4 -0.13 5.08 3.11 iShares iBonds Dec 2024 Term Corporate IBDP 0.10 1,503.9 -0.34 5.84 3.52 Invesco BulletShares 2024 Corporate Bond BSCO 0.10 1,679.3 -0.52 5.94 3.71 FlexShares Credit-Scored US Corporate SKOR 0.22 315.8 -1.18 6.37 3.74 iShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.19 6.91 4.10 SPDR Portfolio Intermediate Corporate SPIB 0.07 6,072.4 -1.22 5.79 3.58 Invesco BulletShares 2025 Corporate Bond BSCP 0.10 1,104.3 -1.28 6.78 3.88 Inspire Corporate Bond Impact IBD 0.49 233.6 -1.33 4.16 - iShares iBonds Dec 2027 Term Corporate IBDS <td>iShares ESG Aware 1-5 Year USD Corporate Bond</td> <td>SUSB</td> <td>0.12</td> <td>1,055.6</td> <td>-0.53</td> <td>3.97</td> <td>-</td>	iShares ESG Aware 1-5 Year USD Corporate Bond	SUSB	0.12	1,055.6	-0.53	3.97	-
U.S. FIXED INCOME: CORPORATE - INVESTMENT GRADE - INTERMEDIATE iShares iBonds Dec 2023 Term Corporate IBDO 0.10 1,666.4 -0.13 5.08 3.11 iShares iBonds Dec 2024 Term Corporate IBDP 0.10 1,503.9 -0.34 5.84 3.52 Invesco BulletShares 2024 Corporate Bond BSCO 0.10 1,679.3 -0.52 5.94 3.71 FlexShares Credit-Scored US Corporate SKOR 0.22 315.8 -1.18 6.37 3.74 iShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.19 6.91 4.10 SPDR Portfolio Intermediate Corporate SPIB 0.07 6,072.4 -1.22 5.79 3.58 Invesco BulletShares 2025 Corporate Bond BSCP 0.10 1,104.3 -1.28 6.78 3.88 Inspire Corporate Bond Impact IBD 0.49 233.6 -1.33 4.16 - iShares iBonds Dec 2027 Term Corporate IBDS 0.10 523.0 -1.52 7.91 - iShares iBonds Dec 2026 Term Corp					-0.88	3.36	2.05
iShares iBonds Dec 2023 Term Corporate IBD0 0.10 1,666.4 -0.13 5.08 3.11 iShares iBonds Dec 2024 Term Corporate IBDP 0.10 1,503.9 -0.34 5.84 3.52 Invesco BulletShares 2024 Corporate Bond BSCO 0.10 1,679.3 -0.52 5.94 3.71 FlexShares Credit-Scored US Corporate SKOR 0.22 315.8 -1.18 6.37 3.74 iShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.19 6.91 4.10 SPDR Portfolio Intermediate Corporate SPIB 0.07 6,072.4 -1.22 5.79 3.58 Invesco BulletShares 2025 Corporate Bond BSCP 0.10 1,104.3 -1.28 6.78 3.88 Inspire Corporate Bond Impact IBD 0.49 233.6 -1.33 4.16 - iShares iBonds Dec 2027 Term Corporate IBDS 0.10 523.0 -1.52 7.91 - iShares iBonds Dec 2026 Term Corporate IBDR 0.10 581.7 -1.56 <t< td=""><td>=</td><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td></t<>	=				-	-	-
iShares iBonds Dec 2024 Term Corporate IBDP 0.10 1,503.9 -0.34 5.84 3.52 Invesco BulletShares 2024 Corporate Bond BSCO 0.10 1,679.3 -0.52 5.94 3.71 FlexShares Credit-Scored US Corporate SKOR 0.22 315.8 -1.18 6.37 3.74 iShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.19 6.91 4.10 SPDR Portfolio Intermediate Corporate SPIB 0.07 6,072.4 -1.22 5.79 3.58 Invesco BulletShares 2025 Corporate Bond BSCP 0.10 1,104.3 -1.28 6.78 3.88 Inspire Corporate Bond Impact IBD 0.49 233.6 -1.33 4.16 - iShares iBonds Dec 2027 Term Corporate IBDS 0.10 523.0 -1.52 7.91 - iShares iBonds Dec 2026 Term Corporate IBDR 0.10 861.7 -1.56 7.53 4.16 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 <t< td=""><td></td><td></td><td></td><td></td><td>0.40</td><td>F 00</td><td>0.11</td></t<>					0.40	F 00	0.11
Invesco BulletShares 2024 Corporate Bond BSCO 0.10 1,679.3 -0.52 5.94 3.71				· · · · · · · · · · · · · · · · · · ·			•
FlexShares Credit-Scored US Corporate SKOR 0.22 315.8 -1.18 6.37 3.74 iShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.19 6.91 4.10 SPDR Portfolio Intermediate Corporate SPIB 0.07 6,072.4 -1.22 5.79 3.58 Invesco BulletShares 2025 Corporate Bond BSCP 0.10 1,104.3 -1.28 6.78 3.88 Inspire Corporate Bond Impact IBD 0.49 233.6 -1.33 4.16 - iShares iBonds Dec 2027 Term Corporate IBDS 0.10 523.0 -1.52 7.91 - iShares iBonds Dec 2026 Term Corporate IBDR 0.10 861.7 -1.56 7.53 4.16 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13				· · · · · · · · · · · · · · · · · · ·			•
iShares iBonds Dec 2025 Term Corporate IBDQ 0.10 1,256.3 -1.19 6.91 4.10 SPDR Portfolio Intermediate Corporate SPIB 0.07 6,072.4 -1.22 5.79 3.58 Invesco BulletShares 2025 Corporate Bond BSCP 0.10 1,104.3 -1.28 6.78 3.88 Inspire Corporate Bond Impact IBD 0.49 233.6 -1.33 4.16 - iShares iBonds Dec 2027 Term Corporate IBDS 0.10 523.0 -1.52 7.91 - iShares iBonds Dec 2026 Term Corporate IBDR 0.10 861.7 -1.56 7.53 4.16 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13				· · · · · · · · · · · · · · · · · · ·		•••••	•
SPDR Portfolio Intermediate Corporate SPIB 0.07 6,072.4 -1.22 5.79 3.58 Invesco BulletShares 2025 Corporate Bond BSCP 0.10 1,104.3 -1.28 6.78 3.88 Inspire Corporate Bond Impact IBD 0.49 233.6 -1.33 4.16 - IShares iBonds Dec 2027 Term Corporate IBDS 0.10 523.0 -1.52 7.91 - iShares iBonds Dec 2026 Term Corporate IBDR 0.10 861.7 -1.56 7.53 4.16 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13				· · · · · · · · · · · · · · · · · · ·			• · · · · · · · · · · · · · · · · · · ·
Invesco BulletShares 2025 Corporate Bond BSCP 0.10 1,104.3 -1.28 6.78 3.88 Inspire Corporate Bond Impact IBD 0.49 233.6 -1.33 4.16 - iShares iBonds Dec 2027 Term Corporate IBDS 0.10 523.0 -1.52 7.91 - iShares iBonds Dec 2026 Term Corporate IBDR 0.10 861.7 -1.56 7.53 4.16 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13	••••••						• · · · · · · · · · · · · · · · · · · ·
Inspire Corporate Bond Impact IBD 0.49 233.6 -1.33 4.16 - iShares iBonds Dec 2027 Term Corporate IBDS 0.10 523.0 -1.52 7.91 - iShares iBonds Dec 2026 Term Corporate IBDR 0.10 861.7 -1.56 7.53 4.16 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13	***************************************			······································			•
iShares iBonds Dec 2027 Term Corporate IBDS 0.10 523.0 -1.52 7.91 - iShares iBonds Dec 2026 Term Corporate IBDR 0.10 861.7 -1.56 7.53 4.16 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13	•••••••••••••					• • • • • • • • • • • • • • • • • • • •	-
iShares iBonds Dec 2026 Term Corporate IBDR 0.10 861.7 -1.56 7.53 4.16 Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13	***************************************						-
Invesco BulletShares 2026 Corporate Bond BSCQ 0.10 598.7 -1.70 7.59 4.13							4.16
iShares iBonds Dec 2028 Term Corporate IBDT 0.10 305.2 -1.71 8.02 -							•
	iShares iBonds Dec 2028 Term Corporate	IBDT	0.10	305.2	-1.71	8.02	-

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Shares 5-10 Yr Inv Grade Corporate Bond	IGIB	0.06	11,939.5	-1.72	7.70	4.53
/anguard Intermediate Corporate Bond	VCIT	0.05	45,891.1	-1.75	7.54	4.38
nvesco BulletShares 2028 Corporate Bond	BSCS	0.10	229.5	-1.83	8.04	-
Schwab 5-10 Year Corporate Bond	SCHI	0.05	340.3	-1.85	-	-
nvesco BulletShares 2027 Corporate Bond	BSCR	0.10	360.1	-1.87	7.77	-
J.S. FIXED INCOME: CORPORATE - INVEST	TMENT GR	ADE - FLOAT	ING RATE			
nvesco Variable Rate Investment Grade	VRIG	0.30	471.6	1.06	2.10	2.25
anEck Investment Grade Floating Rate	FLTR	0.14	748.9	0.70	2.07	2.31
Shares Floating Rate Bond	FLOT	0.15	7,001.8	0.47	1.58	1.73
SPDR Bloomberg Inv Grade Floating Rate	FLRN	0.15	2,453.0	0.47	1.58	1.76
I.S. FIXED INCOME: CORPORATE - HIGH \	(IELD - BR	OAD MATURI	TIES			
anEck Fallen Angel High Yield Bond	ANGL	0.35	5,235.7	6.19	10.97	8.39
VisdomTree Interest Rate Hedged HiYld	HYZD	0.43	182.0	5.25	2.98	4.11
Shares Fallen Angels USD Bond	FALN	0.25	4,671.2	5.08	10.68	8.22
lexShares High Yield Value-Scored Bond	HYGV	0.37	575.5	5.05	7.89	
PDR Portfolio High Yield Bond	SPHY	0.10	556.1	4.61	7.99	5.40
Shares Broad USD HiYld Corp Bond	USHY	0.15	8,312.0	3.99	7.06	-
ranklin Liberty Senior Loan	FLBL	0.45	186.0	3.73	3.49	-
/isdomTree US HiYld Corp Bond	WFHY	0.38	188.5	3.11	7.29	5.21
PDR Bloomberg High Yield Bond	JNK	0.40	8,528.9	2.94	6.36	5.46
trackers USD HiYld Corp Bond	HYLB	0.15	6,757.0	2.91	6.22	-
PMorgan High Yield Research Enhanced	JPHY	0.24	1,573.8	2.83	6.83	5.03
Shares iBoxx USD HiYld Corp Bond	HYG	0.48	20,052.4	2.63	6.06	5.31
trackers Low Beta High Yield Bond	HYDW	0.20	900.1	1.65	5.74	-
oldman Sachs Access HiYld Corp Bond	GHYB	0.34	192.0	1.59	6.10	-
ivesco Senior Loan	BKLN	0.65	6,934.6	1.45	2.56	2.89
acer Trendpilot US Bond	PTBD	0.60	1,322.0	-0.12	-	-
.S. FIXED INCOME: CORPORATE - HIGH Y	IELD - SH	IORT-TERM				
PDR Bloomberg Short Term High Yld Bond	SJNK	0.40	4,648.9	4.49	5.71	5.38
Shares 0-5 Year HiYld Corp Bond	SHYG	0.30	5,435.4	3.96	4.89	4.81
IMCO 0-5 Year HiYld Corp Bond	HYS	0.55	2,011.3	3.84	4.86	4.98
nvesco BulletShares 2022 HiYld Corp Bond	BSJM	0.42	902.9	2.03	2.97	3.44
nvesco BulletShares 2021 HiYld Corp Bond	BSJL	0.42	522.0	0.81	1.78	2.86
S. FIXED INCOME: CORPORATE - HIGH Y	IELD - IN	TERMEDIATE				
ovesco BulletShares 2024 HiYld Corp Bond	BSJ0	0.42	394.2	3.27	5.72	4.81
nvesco BulletShares 2025 HiYld Corp Bond	BSJP	0.42	298.5	3.17	6.35	-
nvesco Fundamental HiYld Corp Bond	PHB	0.50	916.1	2.83	6.32	4.97
nvesco BulletShares 2023 HiYld Corp Bond	BSJN	0.42	694.5	2.33	4.23	4.26
Shares Intermediate Govt/Credit Bond	GVI	0.20	2,464.9	-1.59	4.32	2.40
Shares Government/Credit Bond	GBF	0.20	450.9	-2.29	6.00	3.22
anguard Intermediate-Term Bond	BIV	0.05	14,720.6	-2.59	6.51	3.39
.S. FIXED INCOME: CORPORATE - ASSET	-BACKED					
irst Trust TCW Securitized Plus	DEED	0.65	277.4	0.99	-	-
Shares CMBS	CMBS	0.25	820.4	-1.35	5.57	3.19
.S. FIXED INCOME: CORPORATE - CONVE						
PDR Bloomberg Convertible Securities	CWB	0.40	7,250.3	7.25	24.99	18.37
Shares Convertible Bond	ICVT	0.20	1,907.3	6.65	26.68	20.22
.S. FIXED INCOME: CORPORATE - PREFE			,			
anEck Preferred Securities ex Financials	PFXF	0.40	1,071.7	9.22	10.89	7.25
Shares Preferred and Income Securities	PFF	0.46	20,396.1	5.92	8.45	5.78
lobal X US Preferred	PFFD	0.23	2,481.8	4.59	8.92	
ivesco Variable Rate Preferred	VRP	0.50	1,991.3	4.23	7.27	5.44
ivesco Preferred	PGX	0.52	7,536.3	2.91	8.01	5.71
vesco Financial Preferred	PGF	0.55	1,799.9	2.36	7.31	5.47
novator S&P Inv Grade Preferred	EPRF	0.47	222.6	1.86	7.83	4.91
PDR ICE Preferred Securities	PSK	0.45	1,504.0	1.36	7.12	4.92
LOBAL FIXED INCOME	. 511	55	_,00 1.0	2.50		
	FCVT	0.95	304.7	7.55	24.00	17.64
	1011	0.55			8.34	6.39
·····	FDF	በ ዩ5	/ huh h			0.55
irst Trust Preferred Securities & Income	FPE	0.85	7,695.5 739.5	5.22 2.52	***************************************	*
irst Trust Preferred Securities & Income irst Trust TCW Unconstrained Plus Bond	UCON	0.76	739.5	2.52	2.97	
irst Trust Preferred Securities & Income irst Trust TCW Unconstrained Plus Bond nvesco Global Short Term High Yield Bond	UCON PGHY	0.76 0.35	739.5 236.5	2.52 1.57	***************************************	3.11
irst Trust Preferred Securities & Income irst Trust TCW Unconstrained Plus Bond nvesco Global Short Term High Yield Bond anus Henderson AAA CLO	UCON PGHY JAAA	0.76 0.35 0.25	739.5 236.5 260.0	2.52 1.57 1.17	2.97 3.25	
irst Trust SSI Strategic Convertible Sec irst Trust Preferred Securities & Income irst Trust TCW Unconstrained Plus Bond nvesco Global Short Term High Yield Bond anus Henderson AAA CLO ormulaFolios Tactical Income	UCON PGHY	0.76 0.35	739.5 236.5	2.52 1.57	2.97	

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
IQ Ultra Short Duration	ULTR	0.25	234.7	0.37	-	-
FlexShares Ready Access Variable Income	RAVI	0.25	374.4	0.15	1.89	1.73
SPDR DoubleLine Short Dur Tot Ret Tactical	ST0T	0.45	192.7	0.10	2.61	1.78
Invesco Ultra Short Duration	GSY	0.22	2,941.9	0.06	1.82	1.90
PIMCO Enhanced Low Duration Active	LDUR	0.49	1,211.8	-0.02	2.88	2.39
JPMorgan International Bond Opps	JPIB	0.50	309.8	-0.26	5.48	-
Janus Henderson Short Duration Income	VNLA	0.26	2,778.1	-0.33	2.28	-
Invesco Total Return Bond	GT0	0.50	996.5	-0.39	7.53	5.37
Fidelity Total Bond	FBND	0.36	2,084.3	-0.64	6.60	3.94
Hartford Total Return Bond	HTRB	0.29	1,043.8	-0.83	6.47	-
PIMCO Active Bond	BOND	0.55	4,290.5	-0.83	5.84	3.73
SPDR DoubleLine Total Return Tactical	TOTL	0.55	3,050.7	-0.84	3.79	2.32
Fidelity Limited Term Bond	FLTB	0.36	288.3	-0.97	3.81	2.41
First Trust TCW Opportunistic Fixed Income	FIXD	0.56	5,322.5	-1.44	3.55	-
Hartford Core Bond	HCRB	0.29	262.0	-1.68	-	-
Columbia Diversified Fixed Income Alloc	DIAL	0.28	1,217.1	-1.78	7.40	
Franklin Liberty International Aggregate	FLIA	0.25	222.6	-2.09	2.39	
Vanguard Total World Bond	BNDW	0.06	571.5	-2.24	4.71	
iShares Core International Aggregate Bond	IAGG	0.08	3,893.5	-2.38	3.91	2.97
Vanguard Total International Bond	BNDX	0.08	45,482.4	-2.58	3.80	2.80
iShares Global Green Bond	BGRN	0.20	237.4	-2.81	- 5.00	2.00
SPDR FTSE Intl Govt Inflation-Protected	WIP	0.50	448.8	-3.02	4.81	2.90
SPDR Bloomberg Short Intl Treasury Bond	BWZ	0.35	209.0	-5.53	0.93	0.43
SPDR Bloomberg Intl Treasury Bond	BWX	0.35	952.4	-7.88	3.12	1.56
			332.4	-7.00	3.12	1.50
GLOBAL FIXED INCOME: CORPORATE - P		0.58	224.4	E 77	7.40	4.52
Global X SuperIncome Preferred	SPFF	• • • • • • • • • • • • • • • • • • • •	234.4	5.77	7.48	4.52
First Trust Institutional Pref Sec/Income	FPEI	0.85	489.5	4.73	8.22	.
Principal Spectrum Preferred Sec Active	PREF	0.55	430.1	2.55	8.07	-
GLOBAL FIXED INCOME: HIGH YIELD						
SPDR Blackstone Senior Loan	SRLN	0.70	7,949.6	3.93	4.34	4.19
Fidelity High Yield Factor	FDHY	0.45	294.3	3.34	9.39	.
Franklin Liberty HiYld Corp	FLHY	0.40	322.2	2.79	8.03	-
First Trust Senior Loan	FTSL	0.86	2,864.8	2.70	0.83	0.26
First Trust Tactical High Yield	HYLS	1.01	2,307.1	1.82	1.84	0.54
INTERNATIONAL FIXED INCOME: DEVELO						
iShares US & Intl High Yield Corp Bond	GHYG	0.40	194.2	1.24	6.07	5.32
iShares International Treasury Bond	IGOV	0.35	1,197.2	-8.13	2.71	1.50
INTERNATIONAL FIXED INCOME: EMERGI						
iShares J.P. Morgan EM Corporate Bond	CEMB	0.50	518.6	-0.43	6.91	4.58
VanEck Emerging Markets High Yield Bond	HYEM	0.40	1,302.1	-0.82	6.09	4.53
iShares J.P. Morgan EM High Yield Bond	EMHY	0.50	476.3	-1.81	5.14	3.27
Vanguard Emerging Markets Govt Bond	VW0B	0.25	3,028.1	-2.38	6.14	3.98
iShares JP Morgan USD EM Bond	EMB	0.39	19,646.8	-2.47	6.38	3.75
Invesco Emerging Markets Sovereign Debt	PCY	0.50	2,729.4	-3.80	5.72	2.74
iShares JPM EM Local Currency Bond	LEMB	0.30	519.6	-7.49	1.44	0.10
SPDR Bloomberg EM Local Bond	EBND	0.30	1,274.2	-8.89	2.77	1.26
VanEck JPM EM Local Currency Bond	EMLC	0.30	3,457.4	-10.06	1.91	0.35
First Trust EM Local Currency Bond	FEMB	0.85	260.1	-11.90	1.54	0.11
iShares China Large-Cap	FXI	0.74	5,183.7	-12.85	3.12	4.36
SPDR Bloomberg EM USD Bond	EMHC	0.23	180.5	-	-	-
COMMODITIES: BROAD MARKET						
Invesco DB Commodity	DBC	0.88	2,942.0	45.24	9.02	7.99
Invesco Opt Yld Divrsfd Commod No K-1	PDBC	0.59	6,892.5	45.02	8.52	7.62
iShares S&P GSCI Commodity	GSG	0.85	1,429.2	44.77	1.66	4.16
iShares GSCI Commodity Dyn Roll Strategy	COMT	0.48	2,836.9	40.46	4.66	6.92
iPath Bloomberg Commodity ETN	DJP	0.70	925.3	38.04	9.29	5.26
United States Commodity	USCI	1.03	253.1	33.68	2.10	0.78
GraniteShares Commodity Broad No K-1	COMB	0.25	280.4	31.63	8.35	-
iShares Bloomberg Roll Select Commodity	CMDY	0.28	210.8	31.51	8.28	-
abrdn Bloomberg All Commodity K-1 Free	BCI	0.25	854.6	31.37	8.33	-
First Trust Global Tactical Commodity	FTGC	0.95	2,105.8	30.16	9.68	4.81
Direxion Auspice Broad Commodity	COM	0.70	254.0	29.95	11.09	-
WisdomTree Enhanced Commodity	GCC	0.55	190.7	21.73	8.29	3.41
COMMODITIES: AGRICULTURE	400	0.00	130.7	22.70	5.25	5.71
Invesco DB Agriculture	DBA	0.94	938.0	19.52	4.39	-0.71
	אטט	0.54	JJU.U	10.02	7.33	0.71

FUND NAME Commodities: Energy	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
United States Natural Gas	UNG	1.28	509.5	100.65	-11.58	-10.60
	DBO	0.78	493.4		8.70	12.77
nvesco DB Oil				79.48	*	-7.47
Jnited States Oil	US0	0.79	2,739.0	73.13	-19.69	************
Jnited States Brent Oil	BN0	0.90	254.5	72.75	1.64	9.91
KraneShares Global Carbon	KRBN	0.79	1,062.9	65.85	-	-
COMMODITIES: INDUSTRIAL METALS	DDD	0.00	400 5	04.10	11.71	0.00
nvesco DB Base Metals	DBB	0.80	462.5	24.10	11.71	8.99
Jnited States Copper	CPER	0.80	290.5	23.50	17.18	13.18
COMMODITIES: PRECIOUS METALS						
Credit Suisse Silver Covered Call ETN	SLV0	0.65	243.8	-1.78	10.97	2.41
Aberdeen Standard Physical Platinum	PPLT	0.60	1,245.6	-5.98	5.94	0.14
GraniteShares Gold Trust	BAR	0.17	891.4	-6.35	13.44	
PDR Gold MiniShares Trust	GLDM	0.18	4,300.9	-6.39	13.39	-
Goldman Sachs Physical Gold	AAAU	0.18	411.5	-6.39	13.36	8.59
berdeen Standard Physical Gold	SG0L	0.17	2,394.0	-6.40	13.36	6.59
anEck Merk Gold Trust	OUNZ	0.25	576.7	-6.43	13.22	6.48
Shares Gold Trust	IAU	0.25	28,703.5	-6.43	13.28	6.61
PDR Gold Trust	GLD	0.40	56,931.5	-6.57	13.11	6.45
berdeen Standard Phys Precious Metals	GLTR	0.60	995.1	-9.43	14.88	7.19
berdeen Standard Physical Silver	SIVR	0.30	1,012.9	-9.94	18.30	5.63
Shares Silver Trust	SLV	0.50	13,156.3	-10.09	18.10	5.42
Aberdeen Standard Physical Palladium	PALL	0.60	368.1	-19.09	21.88	25.60
Shares Gold Trust Micro	IAUM	0.00	810.5			20.00
CURRENCY: DEVELOPED	IAUWI	0.13	010.5			
	IIIID	0.70	F12.2	4.17	0.00	0.50
nvesco DB US Dollar Index Bullish	UUP	0.76	513.3	4.17	0.28	0.50
nvesco CurrencyShares Canadian Dollar	FXC	0.40	202.7	2.52	2.25	1.73
nvesco CurrencyShares Swiss Franc	FXF	0.40	261.8	-4.31	2.07	0.39
nvesco CurrencyShares Euro	FXE	0.40	266.5	-6.19	-0.24	0.17
nvesco CurrencyShares Japanese Yen	FXY	0.40	182.3	-9.84	-0.89	-2.17
ProShares Bitcoin Strategy	BIT0	0.95	1,201.4	-	-	-
ISSET ALLOCATION						
DeltaShares S&P 500 Managed Risk	DMRL	0.35	436.9	22.76	14.47	-
VisdomTree US Efficient Core	NTSX	0.20	790.3	18.98	22.87	-
Cabana Target Drawdown 13	TDSD	0.69	301.2	18.17	-	-
Multi-Asset Diversified Income	MDIV	0.73	472.3	15.93	3.43	4.10
implify High Income	YYY	2.45	447.2	15.48	9.98	7.57
nvesco CEF Income Composite	PCEF	2.34	968.8	15.27	12.65	9.68
Shares Core Aggressive Allocation	AOA	0.15	1,556.1	13.98	14.74	12.24
Cabana Target Drawdown 10	TDSC	0.69	843.0	13.41		-
DeltaShares S&P Intl Managed Risk	DMRI	0.50	185.3	11.35	6.54	-
SPDR SSgA Global Allocation	GAL	0.35	293.3	11.31	11.74	9.94
Shares Core Growth Allocation	AOR	0.35	2,026.5	10.04	12.39	9.98
					12.33	3.30
Amplify BlackSwan Growth/Treasury Core	SWAN	0.49	905.2	9.05		
Principal Active High Yield	YLD	0.39	233.2	8.70	7.06	6.01
Cabana Target Drawdown 7	TDSB	0.69	278.9	7.97	-	-
strategy Shares NASDAQ 7 HANDL	HNDL	0.97	1,283.1	6.50	11.25	-
Shares Core Moderate Allocation	AOM	0.15	1,844.4	6.26	10.15	7.77
Shares Core Conservative Allocation	AOK	0.15	962.5	4.29	8.95	6.57
Shares Morningstar Multi-Asset Income	IYLD	0.60	233.8	2.47	4.95	4.28
ptus Defined Risk	DRSK	0.79	811.3	0.63	8.96	-
ambria Tail Risk	TAIL	0.59	328.9	-11.99	-3.86	-
Cabana Target Leading Sector Moderate	CLSM	0.69	269.4	-	-	-
daptive Alpha Opportunities	AGOX	1.69	213.7	_	-	-
Cabana Target Leading Sector Aggressive	CLSA	0.69	193.7	-	-	-
Cabana Target Leading Sector Conservative	CLSC	0.69	185.4	-		-
LTERNATIVES: ABSOLUTE RETURN	5250	0.00	100.4			
irst Trust Long/Short Equity	FTLS	1.60	430.5	15.58	10.01	9.85
					10.01	5.00
PAR Risk Parity	RPAR	0.51	1,528.0	6.11		
Core Alternative	CCOR	1.09	240.5	5.41	6.29	-
Q Hedge Multi-Strategy Tracker	QAI	0.79	820.9	0.53	4.41	3.30
Q Merger Arbitrage	MNA	0.77	728.5	-1.41	1.77	3.21
ALTERNATIVES: TACTICAL TOOLS						
Path Series B S&P 500 VIX Short Futs ETN	VXX	0.89	1,081.3	-68.08	-47.75	<u>-</u>

FUND NAME Leveraged	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
ProShares Ultra Bloomberg Natural Gas	BOIL	0.95	206.7	215.88	-42.21	-37.79
MicroSectors US Big Oil 3X Lev ETN	NRGU	0.95	734.0	211.31	-42.21	-37.73
ProShares Ultra QQQ	QLD	0.95	5,937.7	193.77	101.54	74.49
Direxion Daily Oil/Gas Exp/Prod Bull 2X	GUSH	1.17	904.0	189.45	-76.63	-61.59
ProShares Ultra Bloomberg Crude Oil	UCO	0.95	1,184.0	166.03	-48.57	-27.48
Direxion Daily Financial Bull 3x	FAS	0.99	3,643.7	139.04	36.31	38.47
ProShares Ultra Oil & Gas	DIG	0.95	223.3	130.80	-20.25	-13.84
Direxion Daily Energy Bull 2x	ERX	1.00	609.2	124.33	-49.14	-35.49
Direxion Daily Regional Banks Bull 3X	DPST	0.99	447.9	113.26	-18.97	-5.17
Direxion Daily Homebldr/Supplies Bull 3X	NAIL	1.00	395.2	80.50	43.58	32.21
ProShares UltraPro S&P500	UPR0	0.93	3,182.5	80.40	45.64	43.40
Direxion Daily S&P 500 Bull 3X	SPXL	1.01	3,329.2	80.32	45.61	43.27
Direxion Daily Technology Bull 3X	TECL	1.08	3,035.6	74.80	78.99	72.43
ProShares UltraPro QQQ	TQQQ	0.95	17,292.1	70.69	81.25	72.35
ProShares Ultra Financials	UYG	0.95	984.8	69.33	22.86	24.19
ProShares Ultra Technology	ROM	0.95	1,074.7	63.85	67.85	58.48
Direxion Daily Healthcare Bull 3x	CURE	1.08	247.1	61.06	33.28	37.30
ProShares UltraPro Dow30	UDOW	0.95	912.6	58.97	21.02	35.04
ProShares Ultra Semiconductors	USD	0.95	366.5	57.36	68.84	53.39
Direxion Daily Semiconductor Bull 3X	SOXL	0.96	4,233.8	53.29	93.02	75.46
MicroSectors FANG+ 3X Leveraged ETN	FNGU	0.95	2,274.7	53.16	110.91	-
Credit Suisse FI Large Cap Growth Enh ETN	FLGE	1.52	292.9	50.14	49.09	44.49
ProShares Ultra S&P 500	SSO	0.91	4,779.9	50.10	35.78	32.05
ProShares Ultra MidCap400	MVV	0.95	186.8	44.12	22.98	21.49
ProShares UltraPro Russell2000	URTY	0.95	383.8	41.32	15.26	22.63
MicroSectors FANG+ 2X Leveraged ETN	FNGO	0.95	260.5	40.85	89.89	-
Credit Suisse Mo Pay 2xLev Mort REIT ETN	REML	1.30	220.7	40.74	-21.13	-6.71
Direxion Daily Small Cap Bull 3x	TNA	1.12	1,510.4	40.59	15.00	22.30
ProShares Ultra Dow30	DDM	0.95	487.2	37.79	21.28	28.03
ProShares Ultra Russell2000	UWM	0.95	287.3	30.92	21.23	22.59
Direxion Daily Aerospace/Defense Bull 3X	DFEN	0.99	275.1	21.84	-20.78	-
Virtus InfraCap US Preferred Stock	PFFA	1.47	524.6	18.56	10.05	-
ProShares Ultra NASDAQ Biotechnology	BIB	0.95	233.5	5.39	21.95	19.11
ProShares Ultra Gold	UGL	0.95	230.9	-16.06	19.05	6.73
Direxion Daily 20+ Year Treasury Bull 3X	TMF	1.05	356.5	-19.81	22.89	4.33
ProShares Ultra Silver	AGQ	0.93	570.3	-27.44	17.79	-2.18
Direxion Daily Gold Miners Index Bull 2X	NUGT	1.17	793.9	-29.25	-9.20	-29.28
Direxion Daily MSCI Brazil Bull 2X	BRZU	1.29	195.5	-41.85	-59.57	-47.23
Direxion Daily Jr Gold Miners Bull 2X	JNUG	1.12	545.4	-43.91	-42.48	-51.04
Direxion Daily FTSE China Bull 3X	YINN	1.37	504.6	-44.32	-13.44	-7.41
Direxion Daily S&P Biotech Bull 3X	LABU	1.02	814.4	-46.83	2.90	13.23
Direxion Daily CSI China Internet Bull 2X	CWEB	1.30	330.7	-68.02	-4.71	-
ProShares Ultra VIX Short-Term Futures	UVXY	0.95	1,056.2	-98.50	-86.15	-84.27
MicroSectors FANG & Innovtn 3x Lev ETN INVERSE	BULZ	0.95	296.9	-	-	-
ProShares Short VIX Short-Term Futures	SVXY	1.38	376.1	48.62	8.22	-15.58
ProShares UltraPro Short 20+ Year Treasury	Ш	0.95	202.3	7.20	-36.26	-20.22
Direxion Daily 20 + Year Treasury Bear 3x	TMV	1.04	325.5	6.09	-36.44	-20.75
ProShares UltraShort 20+ Year Treasury	TBT	0.92	1,541.7	5.79	-24.01	-12.22
ProShares Short 20+ Year Treasury	TBF	0.94	713.5	2.79	-11.74	-5.38
ProShares Short Dow30	DOG	0.95	272.1	-17.35	-16.96	-16.85
ProShares Short Russell2000	RWM	0.95	262.9	-18.69	-20.66	-17.72
ProShares Short S&P500	SH	0.90	1,407.3	-20.98	-20.90	-17.71
ProShares Short QQQ	PSQ	0.95	550.4	-21.79	-28.76	-24.81
ProShares UltraShort S&P500	SDS	0.91	562.8	-37.85	-40.76	-34.89
ProShares UltraShort QQQ	QID	0.95	206.0	-40.07	-52.69	-46.37
ProShares UltraPro Short Dow30	SDOW	0.95	403.1	-44.94	-52.17	-49.34
Direxion Daily Small Cap Bear 3X	TZA	1.07	505.7	-51.15	-61.04	-53.22
Direxion Daily S&P 500 Bear 3X	SPXS	1.07	392.7	-51.99	-58.08	-50.53
ProShares UltraPro Short S&P500	SPXU	0.93	650.9	-52.03	-57.96	-50.36
ProShares UltraPro Short QQQ	SQQQ	0.95	1,558.0	-55.27	-70.69	-63.63
			,			

ETF.com by Myles Mellor

Crossword Puzzle

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- 1. Key driver of climate change, 2 words
- 9. Lessens the stress
- 10. Bio____ (derived from plants or animals)
- 12. Yours and mine (singular)
- 13. Suffix with "ideal"
- 15. Agency led by Jelena McWilliams, abbr.
- 17. It's set by the FOMC
- 18. Drink served hot and cold
- 20. __ display
- 21. It's defined by the high and low prices over a trading period
- 22. Last word in the concept that the world's weather patterns have become a threat to human survival
- 24. Golf course starting point
- 25. Indicator
- 26. Fixed income instruments earmarked to raise money for climate and environmental projects, 2 words
- 27. Stockpiled
- 29. Type of energy that is renewable
- 33. An undesirable or failing security or line of business
- 34. Slipped below the surface
- 36. Economic condition marked by rising prices and falling money values
- 39. Clock standard, abbr.
- 40. Link
- 42. Income returned on an investment
- 43. Stop or stanch or dam up

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	27				28				29			30	31	
32												33		
34	35				36	37	38							
39					40									41
			42								43			

DOWN

- 1. Possibility of loss resulting from inability of a borrower to pay, 2 words
- 2. Forecasting and evaluating financial dangers together with identifying procedures to avoid or minimize their impact, 2 words
- 3. Approves, abbr.
- 4. An investment unit traded on a stock exchange, abbr.
- 5. Frozen water
- 6. Concept of acting for the benefit and survival of the whole environment
- 7. Global warming concern
- 8. Filters potential investments according to specific criteria
- 11. California college, abbr.
- 14. Ocean
- 15. Gratis

- 16. _/then statement
- 19. Balance _____
- 22. Middling grade
- 23. Poet's dusk (archaic)
- 24. Green symbol of life and energy
- 28. Collection of software offerings
- 30. Take up as a policy
- 31. ___ sequitur
- 32. Standards framework for socially conscious investors
- 35. The lowest price at which a seller will sell a stock
- 37. Zero (chiefly British)
- 38. Slang for the Federal Reserve, with The
- 41. Dawn time, abbr.

Crossword Answers on p. 5



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Stumped on an ETF term? We get it! The ETF world has many unique terms that may not be familiar to some investors. Here's a quick guide to some key definitions.







UNPACKING 2 PARADIGM SHIFTS



BY HEATHER BELL Editor

It may be hard to look away from all the action—and the attention—that crypto assets get these days. But if you do, you'll find that fixed income and ESG are the other topics du jour in the asset management industry. And for very different reasons.

Fixed income, in a nutshell, just isn't doing what it's historically done, largely because interest rates have been at rock-bottom levels for such a long time. ESG, meanwhile, is gaining attention because climate change, as predicted by many scientists, is becoming a very real threat to human existence, and social issues rank high in everyone's minds these days.

RESTORING FIXED INCOME'S ROLE

Although fixed income has been misbehaving for over a decade, raising interest rates could go a long way to restoring its traditional role as a source of income and ballast in a portfolio. The Fed has indicated it intends to do just that—though the exact timeline and degree are still a question mark.

Even if that doesn't do the trick, investors have other choices to consider in their search for income and stability. Options strategies, preferred stocks and passthrough securities can all add income and diversification to a portfolio's bond allocation. There are also defined outcome ETFs that protect against downside losses up to a certain point in exchange for accepting more muted positive returns.

Low interest rates have immediate and clear ramifications for retirees, but the implications of artificially tamping down on them extend like subtle tendrils to other areas of the economy, like a highly unpredictable but slow-moving Rube Goldberg machine.

ESG TO THE RESCUE?

Given the past few years of rising temperatures, epic wildfires and flooding around the globe, it's not surprising the world is suddenly paying attention to climate change and very concerned about the "E" in ESG.

That's not to say the other pillars aren't important. Corporate governance is still a

concern as it ensures that capitalism works, and does so as fairly as possible, and social issues have come to the forefront with the rise of Black Lives Matter and other human rights movements. Indeed, recent surveys have concluded that social issues are actually the biggest concern for ESG investors. However, climate change is literally about the air we breathe. Ultimately, an uninhabitable planet benefits absolutely no one.

One could also argue that the "E" is a crucial element of the other two letters in the acronym. After all, from a social perspective, marginalized populations tend to be disproportionately affected by climate change and have fewer resources to address it. And given that something like 100 corporations account for more than 70% of carbon emissions, governance can have a meaningful impact on climate change depending on how a company chooses to address it.

Of course, ESG investing practices alone will not fix climate change, but given enough momentum and enough investment dollars, they could help move the needle to where we need it to be. Given the powerlessness of the average person in the face of global trends, ESG investment strategies give every investor the ability to let their portfolios be their voice.

CHANGE DOMINATES

The disruption in fixed income and the rise of ESG investing both represent paradigm shifts in their own ways.

The former may be reversible. If it's not, the ingenuity of the financial industry will likely generate an acceptable solution to the persistent income problem and other related ones before long.

The latter, however, is a permanent change—a genie that will not return to its bottle. Most market participants expect that ESG criteria will be incorporated across the investment space and become the standard in most investment approaches in the near future. To use an overused term, we may very well be at the early days of our "new normal"—whatever "normal" means in the face of constant change. ●

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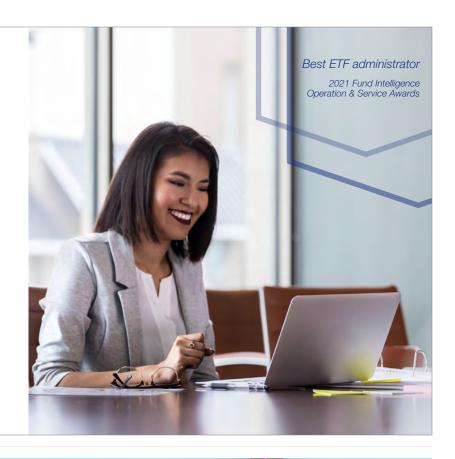
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