

2020's BIGGEST DEVELOPMENTS IN ETFS

New Breakout Stars Other Launches To Watch Innovation Vs. Tradition ARK Founder On Firm's Success

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ETF.com 17 State Street, 32nd Floor New York, NY 10004 4 ETF Launches: SPAK

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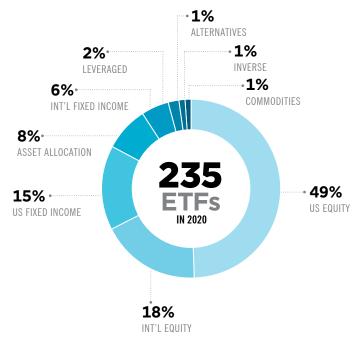
38 The Last Word

2020 was a chaotic year, but ETFs have come out ahead

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By Heather Bell **NEW FUNDS** 

### **ETF Launches**



FEATURED ETF

### **Defiance Next Gen SPAC Derived ETF (SPAK)**

New fund covers an area previously uncharted in ETFs

Defiance ETFs, an issuer focused on providing passive exposure to disruptive innovation, launched an ETF targeting special purpose acquisition corporations (SPACs).

The Defiance Next Gen SPAC Derived

SPAK Quick View	
Defiance	
Equity: U.S Total Market	
0.45%	
Open-Ended fund	
9/30/2020	

ETF (SPAK) tracks an index provided by Indxx and invests in a mix of SPACs (20% weight at reconstitution) and SPAC-derived companies (80%), the prospectus says.

The fund lists on the NYSE Arca and

comes with a expense ratio of 0.45%.

SPACs are similar to IPOs or private equity in that they are companies formed with the intention of acquiring or merging with an existing company. They have a set

period in which to complete this transaction or they are dissolved and the money returned to investors.

Matthew Bielski, CEO of Defiance, describes SPACs as "private-equity-style IPOs."

The underlying index has minimum size, float and liquidity requirements. Although reconstitutions occur on an annual basis, securities can be added to the index throughout the year on set dates. At the ETF's launch, the index had 36 components.

Bielski noted that there is also a governance clause that screens out any company that is subject to a fraud-related investigation. As such, Nikola Motor Company, a popular SPAC-related company that is currently under SEC investigation, is not in the index.

### **ETF LAUNCH ACTIVITY**

### **LAUNCHES**

### **U.S. EQUITY**

AllianzIM US Large Cap Buffer10 Oct AllianzIM US Large Cap Buffer20 Oct American Conservative Values BlackRock Future Innovators Defiance Next Gen SPAC Derived **Emles Federal Contractors** Emles Made in America ETRACS Alerian Midstream Energy ETN FT Cboe Vest US Equity Buffer - Oct FT Choe Vest US Equity Deep Buffer Innovator Double Stacker 9 Buffer - Oct Innovator Double Stacker Innovator Triple Stacker - Oct Invesco NASDAQ 100 Invesco NASDAQ Next Gen 100 iShares US Small Cap Value Value Factor LeaderShares AlphaFactor Tactical Focused Trend Aggregation Conservative TrueShares Structured Outcome (Oct)

### **INT'L EQUITY**

BlackRock Future Health BlackRock Future Tech Global X CleanTech Global X Data Center REITs/Digital Infrastr iShares ESG Advanced MSCI EM iShares Virtual Work/Life Multisector LeaderShares Activist Leaders Nifty India Financials ProShares MSCI Transformational Changes

### **U.S. FIXED INCOME**

ClearShares Piton Intermed Fixed Income Emles Real Estate Credit iShares BB Rated Corporate Bond Rareview Dynamic Fixed Income Rareview Tax Advantaged Income SoFi Weekly Income

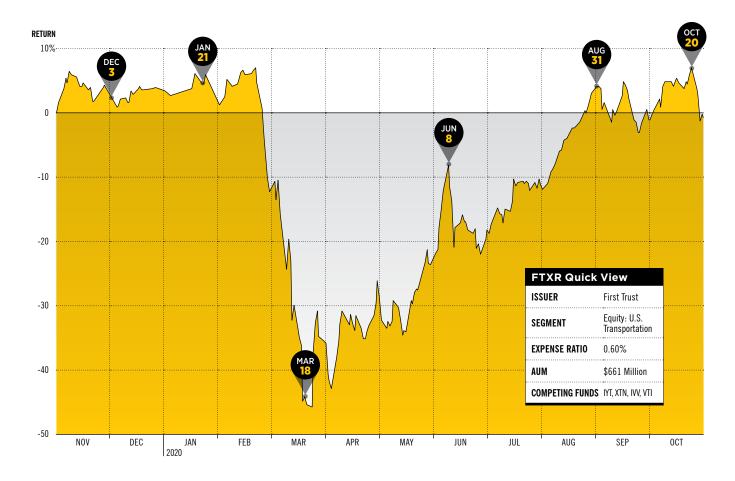
### INT'L FIXED INCOME

Avantis Core Fixed Income Avantis Short-Term Fixed Income Janus Henderson AAA CLO

### ETF Explainer: FTXR

First Trust Nasdaq Transportation ETF

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 \$661 million <u>First Trust Nasdaq Transportation ETF (FTXR)</u>, which has underperformed the broad U.S. market during the past year, but has pulled ahead in recent months. All the companies mentioned below are holdings in FTXR, unless otherwise noted (\*).



Old Dominion Freight Line's fourth quarter report mentions

decreases in less-than-truckload revenues due to lower shipments and tonnage in November.

Airline stocks see a dramatic but brief rally as hopes rise that the worst of the pandemic is over, but the industry is set to have its worst year in history.

**21** Expeditors International of Washington sees its share price plunge over the course of two trading days after warning it'll miss earnings and revenue consensus estimates for the fourth quarter.

Tesla shares reach new record highs and well-above-average volume after its five-for-one stock split takes effect, driving its market capitalization to more than \$430 billion.

Shipping and delivery company UPS sees its share price spikeas the broad U.S. market moves closer to its bottom and the coronavirus pandemic grows.

General Motors announces plans to invest \$2 billion in six different U.S. manufacturing facilities and roll out an electric-powered version of its Hummer truck.

### **MONTHLY FLOWS**

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

### **7** TOP GAINERS

TICKER	FUND	ISSUER	NET FLOWS (\$M)	AUM (\$M)
VTI	Vanguard Total Stock Market ETF	Vanguard	3,759.84	163,635.35
VXUS	Vanguard Total International Stock ETF	Vanguard	2,601.48	28,260.24
BND	Vanguard Total Bond Market ETF	Vanguard	1,978.41	64,108.78
ESGU	iShares ESG Aware MSCI USA ETF	BlackRock	1,961.49	10,478.23
TLT	iShares 20+ Year Treasury Bond ETF	BlackRock	1,648.08	19,795.10
MBB	iShares MBS ETF	BlackRock	1,487.75	23,829.24
BNDX	Vanguard Total International Bond ETF	Vanguard	1,446.05	33,964.45
EMB	iShares JP Morgan USD Emerging Markets Bond ETF	BlackRock	1,399.64	17,483.12
VCSH	Vanguard Short-Term Corporate Bond ETF	Vanguard	1,383.69	34,127.37
AGG	iShares Core U.S. Aggregate Bond ETF	BlackRock	1,178.56	81,734.87

### **D** BIGGEST LOSERS

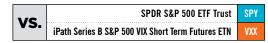
TICKER	FUND	ISSUER	NET FLOWS (\$M)	AUM (\$M)
SPY	SPDR S&P 500 ETF Trust	SSGA	-7,354.70	280,255.43
EFA	iShares MSCI EAFE ETF	BlackRock	-1,525.82	44,707.61
HYG	iShares iBoxx USD High Yield Corporate Bond ETF	BlackRock	-1,019.21	24,669.07
NEAR	iShares Short Maturity Bond ETF	BlackRock	-997.43	4,398.61
BBEU	JPMorgan BetaBuilders Europe ETF	JPMorgan Chase	-984.87	3,805.34
IYG	iShares U.S. Financial Services ETF	BlackRock	-808.39	957.94
IJR	iShares Core S&P Small-Cap ETF	BlackRock	-782.84	41,594.32
USMV	iShares MSCI USA Min Vol Factor ETF	BlackRock	-694.03	32,244.99
GLD	SPDR Gold Trust	SSGA	-628.65	75,623.38
IGIB	iShares 5-10 Year Investment Grade Corp Bond ETF	BlackRock	-603.86	10,910.46

### **ASSET CLASSES**

	NET FLOWS (\$M)	AUM (\$M)	% OF AUM
U.S. Equity	5,566.83	2,594,762.65	0.21%
International Equity	8,562.46	859,522.42	1.00%
U.S. Fixed Income	19,012.62	937,931.74	2.03%
International Fixed Income	3,461.14	112,837.15	3.07%
Commodities	-333.53	144,862.20	-0.23%
Currency	-295.43	1,926.84	-15.33%
Leveraged	-544.83	34,945.15	-1.56%
Inverse	321.92	14,585.68	2.21%
Asset Allocation	290.08	11,842.95	2.45%
Alternatives	306.94	5,635.42	5.45%

### **INTERESTING CHARTS OF PAST 12 MONTHS**

The below charts highlight some of the key ETF trends of the past 12 months.

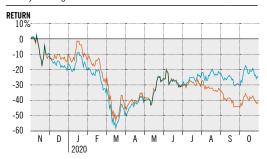


Short-term VIX futures did exactly what they were supposed to when the market tanked in March, providing a much-needed counterweight to plunging stocks.



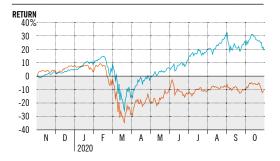


Index-based MJ weathered the market crash a little better than the actively managed CNBS, but the actively managed competitor has seen a stronger recovery since August.





During the past 12 months, value has been among the worst-performing equity factors, while momentum was one of the best.



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### **The Truth About Bond ETF Liquidity**

Given how liquidity in the bond market has dried up, many investors understandably have come worry about the liquidity risk of ETFs based on those bonds.

Some critics argue that if interest rates rise and spark a mass market exodus, bond ETF investors are the ones who'll get burned the worst. Others claim those fears are entirely overblown, and that in a panic, bond ETFs are the safest place to be. The truth is somewhere in the middle.

It comes back to how ETF liquidity works. If you're reading this publication, you understand the basics, and that it occurs on two tiers—at the level of the securities an ETF holds (primary liquidity) and at the level of the ETF itself (secondary liquidity).

### IT'S MORE THAN THE BONDS

The bond market is more illiquid than the stock market. Many bonds trade infrequently. What's more, new regulations introduced in the wake of the 2008-09 financial crisis have dried up bond market liquidity even further, making it harder for banks to maintain deep inventories and retain talent.

But bond ETF liquidity isn't wholly dictated by the underlying bond market. An ETF's liquidity is a function both of how it trades in the secondary market and how easily APs can create and redeem ETF shares. The liquidity of the bond market is only part of the puzzle.

In fact, because bond ETFs are so liquid, they can sometimes circumvent illiquidity in their underlying bonds because they'll trade when their underlying bonds won't. Research by BlackRock shows that bond ETFs trade, on average, four to five times more frequently than the underlying bond market.

### PRIMARY LIQUIDITY MATTERS

Primary liquidity is still important, however. It's tempting to think that the liquidity of the underlying bonds doesn't matter to ETF investors. But that's not true. Primary liquid-

ity, for example, influences the premiums and discounts that an ETF develops.

When it's hard for an AP to buy up underlying bonds, they're more likely to let the ETF trade at a premium to its market price before making new shares. Likewise, when investors want out, an AP will also let the ETF trade at a discount to net asset value (NAV) before buying up the ETF shares to redeem if those underlying bonds are illiquid.

Though most retail investors can focus on secondary, "on screen" liquidity, the liquidity of the underlying market is always important.

### LIQUIDITY WHEN RATES RISE

If interest rates rise and liquidity dries up from the underlying bond market altogether, it's unlikely investors will lose their shirts to mispricing and enormous discounts to NAV.

For starters, a bond ETF's price, even at a discount to NAV, may actually be a better measure of the fair value of its portfolio than the prices of its underlying bonds. Individual bond values are hard to calculate for a number of reasons, and the investment industry relies on bond pricing services, trading desk surveys, matrix models and so on for accurate pricing.

In stressed markets, an ETF's price may fall below its reported NAV. When that happens, it essentially means the APs think the bond pricing service is wrong and don't believe they can actually liquidate the underlying bonds for their reported values.

Large premiums and discounts don't necessarily signal mispricing in a bond ETF. Instead, the ETF may be performing price discovery for the value of its underlying bonds. This is more likely the case if the ETF's shares trade regularly, and with high volume. Also in the case of a bond panic, ETF shareholders don't get stuck bearing the costs of other shareholders exiting their positions, unlike what happens with mutual funds.

### SELECTED TERMS

### **Counterparty Risk**

It's the risk an investor faces that whoever is on the other side of the deal might fail. For example, ETF issuers offer a pattern of returns for a given fee in an ETF wrapper. They can be a source of counterparty risk if they don't deliver on what that ETF prospectus promises. Depending on the type of exchange-traded product, counterparty risk is higher or lower. Exchange-traded notes, which are debt instruments, pose counterparty risk associated with the institutions backing them and whether they can meet these debt obligations. ETFs that use a lot of derivatives contracts in their portfolios can also face counterparty risk stemming from the parties issuing these contracts.

### **Custom Basket**

Like it sounds, a custom basket refers to a select grouping of securities, customized for a purpose. In ETFs, custom baskets come into play during the creation/redemption process for the purpose of improving tax efficiency. When ETF issuers rebalance portfolios, some ETF holdings may have incurred capital gains, which would have to be realized at rebalance. A custom basket is an in-kind mix of only certain securities the ETF issuer wants to trade (redeem) to avoid having to pass on capital gains distributions down the road. Until recently, only some ETFs were allowed to use custom baskets, but the Securities and Exchange Commission changed that when, in September 2019, it approved Rule 6c-11, known as the "ETF Rule." Under the new rule, effective in 2020, all ETFs may use custom baskets, which is great news for ETF investors everywhere.

### **Market Maker**

Also known as a liquidity provider, a market maker is someone who facilitates ETF trading, ensuring tight bid/ask spreads, depth and smooth trading throughout the day. Every ETF has a lead market maker, many of which are incentivized by exchanges to keep markets humming along.

### **Open-End Funds**

These are portfolios of securities that have an elastic supply of shares that trade on an exchange at net asset value. ETFs and most mutual funds are open-end funds.

### **Securities Lending**

This is the common practice of ETFs lending underlying securities to short-sellers. By lending out securities, the ETF picks up extra revenue that can ultimately lower overall costs and boost results for the ETF. If an ETF holds a hot in-demand security, lending it out can generate significant revenue for ETF shareholders. The biggest risk associated with this practice is counterparty risk.



"Most helpful plain-English resource for investors who want to demystify ETFs." - Bloomberg



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### **UPCOMING EPISODES**

### **DECEMBER 1**

**Chris Huemmer,** senior investment strategist at FlexShares ETFs, outlines the case for low volatility investing and their US Quality Low Volatility Index Fund (QLV)

Paul Dellaquila, president of Defiance ETFs, discusses the rise of special purpose acquisition companies (SPACs) and the Defiance NextGen SPAC Derived ETF (SPAK)

### **DECEMBER 8**

**George Milling-Stanley,** chief gold strategist at State Street Global Advisors, weighs in on the gold versus bitcoin debate

**Connor O'Brien,** CEO & president of O'Shares ETFs, walks through their rules-based approach to investing

### **DECEMBER 15**

**Sarah Kjellberg,** U.S. head of iShares Sustainable ETFs, goes in-depth on sustainable investing, including highlighting the iShares lineup of sustainable ETFs

### **DECEMBER 22**

Ben Johnson, director of Global ETF Research at Morningstar, and Dave Nadig, chief investment officer and director of research at ETF Trends and ETF Database, recap the year in ETFs and look ahead to 2021

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## Key Trends Captured In Largest New Launches



Some interesting themes emerge with a little digging

On par with the rest of the world, this year has been a strange and wild ride for ETFs in many corners of the industry. Launches have been going strong, and closures have been hitting record levels before the 12 months are even over.

There were 235 launches in the first 10 months of 2020, and the largest of them are nothing to sneeze at. They are also perhaps the least surprising things about the events of 2020.

The top 20 launches of the first 10 months of 2020 basically reflect the most-talked-about trends of the year, but perhaps not in the way most might expect. Plain vanilla ETFs have long been the largest asset gatherers, and were well-represented in the ranks; however, ESG—perhaps the most talked about investment trend in 2020, with at least 20 associated launches—only had two representatives among the top launches.

But risk management tools are really the big winners. Defined outcome ETFs had their first truly big year, and similar strategies have proliferated. Investors have been nervous during the pandemic and in the lead-up to the election, increasing the appeal of such products. They're the largest category in the top 20 launches, outnumbering even the plain vanilla funds.

### **TOP 20 LAUNCHES OF 2020**

1.	ВВМС	JPMorgan BetaBuilders U.S. Mid Cap Equity
2.	SGOV	iShares 0-3 Month Treasury Bond
3.	коки	Xtrackers MSCI Kokusai Equity
4.	LDEM	iShares ESG MSCI EM Leaders
5.	DFEB	FT Cboe Vest U.S. Equity Deep Buffer ETF - February
6.	TDSC	Cabana Target Drawdown 10
7.	FLGV	Franklin Liberty U.S. Treasury Bond
8.	EDOC	Global X Telemedicine & Digital Health
9.	TDSB	Cabana Target Drawdown 7
10.	TECB	iShares U.S. Tech Breakthrough Multisector
11.	GSID	Goldman Sachs MarketBeta International Equity
12.	FFEB	FT Cboe Vest U.S. Equity Buffer ETF - February
13.	GSUS	Goldman Sachs MarketBeta U.S. Equity
14.	SIXH	6 Meridian Hedged Equity-Index Option Strategy
15.	FDG	American Century Focused Dynamic Growth
16.	KJAN	Innovator Russell 2000 Power Buffer ETF - January
17.	TDSD	Cabana Target Drawdown 13
18.	WFH	Direxion Work From Home
19.	EUSB	iShares ESG Advanced Total USD Bond Market
20.	BETZ	Roundhill Sports Betting & iGaming

Source: FactSet; data as of 10/30/2020

1.	JPMorgan BetaBuilders
BBMC	U.S. Mid Cap Equity ETF
ASSET CLASS	Equity: U.S Mid Cap
AUM (\$M)	INCEPTION
\$1,001.92	4/14/20
2.	iShares 0-3 Month
SGOV	Treasury Bond ETF
CLASS	ed Income: U.S Government, Treasury Investment Grade Ultra-Short Term
AUM (\$M)	INCEPTION
\$915.16	5/26/20
7.	Franklin Liberty U.S.
FLGV	Treasury Bond ETF
ASSET	Fixed Income: U.S Government,
CLASS	TreasuryInvestment Grade
AUM (\$M)	INCEPTION
\$422.67	6/9/20

### **PLAIN VANILLA LEADERS**

Simple, plain vanilla passive investing took the crown for highest assets under management for new launches in 2020. The JPMorgan BetaBuilders U.S. Mid Cap Equity ETF (BBMC) claimed the top spot and had more than \$1 billion as of the end of October, after launching in mid-April. The equity fund is the latest of the passive market-cap-weighted ETFs that J.P. Morgan began rolling out in 2018.

The popular BetaBuilders family currently includes nine ETFs covering core asset classes with rock-bottom pricing. BBMC, for example, comes with an expense ratio of 0.07%. The broad U.S. ETF in the same family charges just 2 basis points.

Interestingly, the bulk of BBMC's assets came in quite recently: More than \$1 billion in flows flooded the fund in the last half of October.

The <u>iShares 0-3 Month Treasury Bond ETF (SGOV)</u> trailed fairly closely behind. The fund launched in late May and has \$915 million in assets. Because iShares is the largest ETF issuer in the world, it's not shocking that it has one of the year's top launches.

Maybe what's more surprising is that, with so many other ETF options for what is essentially a money market fund, SGOV took in nearly \$1 billion in about five months. The bulk of that comes from Boston Private Wealth, an advisory firm that, at last count, had \$737 million invested in the fund. SGOV tracks an index of U.S. Treasury securities with three months or less of remaining maturity.

Fixed income ETFs have been dominating ETF inflows in 2020, pulling in \$160 billion through the end of October versus \$91 million for U.S. equity ETFs, and SGOV is likely surfing that wave. Its bargain basement expense ratio of 0.03% probably doesn't hurt either.

One of the only other fixed income ETFs besides SGOV to make the top 20 was the **Franklin Liberty U.S. Treasury Bond ETF (FLGV)**, which claimed the No. 7 spot, with \$424 million. The actively managed fund invests in U.S. Treasurys that have one to 30 years of remaining maturity. It uses derivatives to enhance its returns.

### FEES FACTOR IN

The top two new ETFs of 2020 seem to reflect the fact that the lowest-cost and simplest ETFs claim the highest assets every year. This trend continues with the **Xtrackers MSCI Kokusai Equity ETF (KOKU)**, which launched in April and had \$731 million in assets under management at the end of October. It's in the No. 3 spot.

KOKU is interesting, because it has one institutional shareholder that represents most of the fund's assets: Nissay Asset Management, a subsidiary of Nippon Life Group. The ETF is basically an EAFE fund for Japanese investors, tracking developed markets with the exception of Japan.

The fund has one competitor, the **iShares MSCI Kokusai ETF (TOK)**, which has been around since 2007 and has about

\$152 million in AUM. The reason for that disparity is likely the fact that TOK costs 0.25% versus KOKU's 0.09% expense ratio.

Further down the list of top new launches are two plain vanilla funds launched by Goldman Sachs. The Goldman Sachs Market-Beta International Equity ETF (GSID) and the Goldman Sachs MarketBeta U.S. Equity ETF (GSUS) claimed the No. 11 and 13 spots, with \$263 million and \$243 million in assets, respectively.

The two funds were part of a three-fund rollout in May and track simple cap-weighted indexes: one covering developed markets and the other the U.S. They are the first plain vanilla funds to be added to the Goldman lineup, one similar in simple vanilla construction to the JP Morgan BetaBuilders brand.

Clearly the titans of Wall Street are all in regarding their ETF push.

3.	Xtrackers MSCI
KOKU	Kokusai Equity ETF
ASSET	Equity: Developed Markets
CLASS	Ex-Japan - Total Market
AUM (\$M)	INCEPTION
\$731.12	4/8/20

11.	Goldman Sachs MarketBeta
GSID	International Equity ETF
ASSET	Equity: Developed Markets
CLASS	Ex-U.S Total Market
AUM (\$M)	INCEPTION
\$262.86	5/12/20

13.	Goldman Sachs MarketBeta
GSUS	U.S. Equity ETF
ASSET CLASS	Equity: U.S Total Market
AUM (\$M)	INCEPTION
\$243.27	5/12/20

### **ESG NEWCOMERS**

This was a big year for ESG investing, and two environmental, social and governance ETFs in particular received a warm welcome. The <u>iShares ESG MSCI EM Leaders ETF (LDEM)</u> claimed the No. 4 spot, with \$661 million after launching in February. Meanwhile, the <u>iShares ESG Advanced Total USD Bond Market ETF (EUSB)</u> fell into the No. 18 spot, with \$136 million after launching in June.

LDEM counts Finnish pension insurer Ilmarinen as its largest shareholder. Ilmarinen was behind two of the biggest launches of 2019, both of which are ESG funds.

EUSB is notable because it's one of the few fixed income ESG funds available to investors.

4. LDEM	iShares ESG MSCI EM Leaders ETF
ASSET CLASS	Equity: Emerging Markets - Total Market
AUM (\$M) \$660.71	INCEPTION 2/5/20
19.	iShares ESG Advanced Total USD Bond Market ETF
<b>EUSB</b>	
ASSET CLASS	Fixed Income: U.S Broad Market

### **NONTRANSPARENT ACTIVE**

Surprisingly, despite a decade of hype before they started launching, only one nontransparent actively managed ETF made it into the ranks of the top launches in 2020. The **American Century Focused Dynamic Growth ETF (FDG)** was No. 15 on our list, with \$190 million at the end of October.

The fund invests primarily in midcap and large cap U.S. growth companies. It discloses its holdings 15 days after the end of each quarter—rather than daily or monthly—and are therefore referred to as semitransparent ETFs. Although roughly a dozen active funds that don't disclose their holdings daily have rolled out, FDG is the only one that cracked the top 20 ranks.

15.	American Century Focused
FDG	Dynamic Growth ETF
ASSET CLASS	Equity: U.S Large Cap
AUM (\$M)	INCEPTION
\$190.12	3/31/20

B.	Global X Telemedicine &
EDOC	Digital Health ETF
ASSET CLASS	Equity: Global Health Care
AUM (\$M)	INCEPTION
\$387.13	7/29/20

10.	iShares U.S. Tech Break-
TECB	through Multisector ETF
ASSET CLASS	Equity: U.S Total Market
AUM (\$M)	INCEPTION
\$318.69	1/8/20

18.	Direxion Work From Home
WFH	ETF
ASSET CLASS	Equity: Global Casinos / Gaming
AUM (\$M)	INCEPTION
\$136.70	6/25/20

20.	Roundhill Sports Betting
BETZ	& iGaming ETF
ASSET CLASS	Equity: Global Casinos / Gaming
AUM (\$M)	INCEPTION
\$128.57	6/4/20

### **CORONAVIRUS TRENDS**

The year also saw a bevy of new ETFs launch after the effects of the coronavirus became clear. The **Global X Telemedicine & Digital Health ETF (EDOC)** is perhaps the most successful of these. It launched in late July and currently has \$387 million, claiming the No. 8 slot in the top 20.

EDOC is a pretty straightforward fund that clearly was intended to capitalize on the paradigm shifts caused by the pandemic. However, its close neighbor on the list, the **iShares U.S. Tech Breakthrough Multisector ETF** (TECB), rolled out in January, well before COVID-19 really took off at the global level. That said, TECB captures many of the trends that pandemicinspired ETFs are focused on. It has \$318 million in assets and fell into the tenth spot on the list.

The **Direxion Work From Home ETF (WFH)** and the **Roundhill Sports Betting & iGaming ETF (BETZ)** are in the Nos. 18 and 20 spots, respectively, with \$137 million and \$129 million in assets. The former launched in late June, while BETZ debuted earlier in the month.

WFH is an obvious pandemic beneficiary, while BETZ is probably less so. However, it's a unique fund that no doubt got a boost from millions of consumers finding themselves sequestered in their homes with an internet connection—and probably some beer.

### **RISK MANAGEMENT ETFs DOMINATE**

Market risk has been at the forefront of investors' minds, and in 2020 we saw a host of new-to-ETFs tools hit the market, including seven funds that made it into the top 20.

First Trust saw two of its defined outcome ETFs gather significant assets during the year. These risk management tools allow investors to see their downside exposure mitigated, usually to the tune of 5% or more, while their upside participation is also limited or reduced.

The FT Cboe Vest U.S. Equity **Deep Buffer ETF - February (DFEB)** protects against losses ranging from 5-30%, meaning that investors can lose up to 5% in a decline, but then are protected from further losses up to a 30% decline in the S&P 500 Price Index. DFEB ended October with \$506 million in assets and claimed the No. 5 spot.

Its counterpart, the FT Cboe Vest U.S. Equity Buffer ETF - February (FFEB), claimed the No. 12 spot, with \$245 million in assets. It protects the investor against the first 10% of losses.

Newcomer Cabana saw three of its ETFs make it into the top 20. The funds in this family, which all launched in September, invest in multiple asset classes-including equities, fixed income, real estate, currencies and commodities-with the intention of limiting downside risk and allowing the investor to stay invested in the market. Its strategy relies on repeating business cycles, with funds looking to limit losses to targeted percentages ranging from 5% to 16%, though the methodology is very different from those of defined outcome ETFs.

### **BYOA Becoming House Rule**

Much of what we've seen above are prime examples of the "Bring Your Own Assets" (BYOA) trend that's

been prevalent in the ETF space during the past few years. The strategies were previously available as separately managed accounts.

With Cabana, the new products were seeded with a total of \$1 billion-not bad for a small advisory firm that just passed \$1 billion in assets under management before getting into ETFs for the first time.

The three funds included in the top 20, and their assets, are as follows: Cabana Target Drawdown 10 ETF (TDSC), \$502 million; Cabana Target Drawdown 7 ETF (TDSB), \$329 million; and Cabana Target Drawdown 13 ETF (TDSD), \$158 million. The funds claimed the Nos. 6, 9 and 17 spots, respectively, among the top funds.

Another risk management ETF in that top 20 is the 6 Meridian **Hedged Equity-Index Option Strat**egy ETF (SIXH), which rolled out in May, and claimed the No. 14 spot.

While the entire 6 Meridian family of ETFs has a focus on high quality or low volatility stocks, SIXH is the only one that implements an options-based hedging strategy designed to perform well in down markets. Wealth manager 6 Meridian, similar to Cabana, packaged products it had run in other wrappers into an ETF structure; almost all of its four ETFs have substantial assets.

Finally, the defined outcome Innovator Russell 2000 Power Buffer ETF - January (KJAN), the remaining risk management ETF in the top 20, claims the No. 16 spot, with \$166 million in assets. It's not surprising that this particular fund should have so much in assets: Small cap stocks have been a popular asset class for investors seeking diversification, but they've severely underperformed the broader U.S. market year to date. Innovator rolled out its first buffer funds in 2018 and has since amassed \$4.5 billion in assets in this category.

5.	FT Cboe Vest U.S. Equity
DFEB	Deep Buffer ETF - February
ASSET CLASS	Equity: U.S Large Cap
AUM (\$M)	INCEPTION
\$505.87	2/21/20
6.	Cabana Target
TDSC	Drawdown 10 ETF
ASSET CLASS	Asset Allocation: Target Outcome
AUM (\$M)	INCEPTION
\$502.18	9/16/20
9.	Cabana Target
TDSB	Drawdown 7 ETF
ASSET CLASS	Asset Allocation: Target Outcome
AUM (\$M)	INCEPTION
\$329.04	9/16/20
12.	FT Cboe Vest U.S. Equity
FFEB	Buffer ETF - February
ASSET CLASS	Equity: U.S Large Cap
AUM (\$M)	INCEPTION
\$245.04	2/21/20
14.	6 Meridian Hedged Equity-
SIXH	Index Option Strategy ETF
ASSET CLASS	Equity: U.S Large Cap
AUM (\$M)	INCEPTION
\$190.12	5/11/20

1/1/20	\$166.05	2/21/20	
	*******		
Cabana Target Drawdown 13 ETF	17. TDSD	Cabana Target Drawdown 10 ETF	
Asset Allocation: Target Outcome	ASSET CLASS	Allocation: Target Outcome	
INCEPTION 9/16/20	AUM (\$M) \$158.40	INCEPTION 9/16/20	
		Cabana Target Drawdown 7 ETF	
		Allocation: Target Outcome	
		INCEPTION 9/16/20	
		Cboe Vest U.S. Equity Buffer ETF - February	
		Equity: U.S Large Cap	
		INCEPTION	

16.

ASSET CLASS

AUM (\$M)

**KJAN** 

Innovator Russell 2000

Equity: U.S. - Small Cap

INCEPTION

Power Buffer ETF - January



## INTERESTING LAUNCHES IN 2020



### aunching a successful ETF is hard. Launching one that takes off immediately is even harder.

Sometimes it takes a while for a fund to catch on with investors. A period of strong performance or a strategy that finds itself at the right place at the right time could propel an ETF from obscurity into popularity in a snap.

We've written about the top 20 ETF launches of 2020 on page 12 of this issue. Here we take a look at some of the interesting launches of the year that fall outside that list—funds that haven't necessarily captured a ton of investor dollars just yet, but that are compelling enough that they could find themselves in the limelight in the future.

### **REACHING FOR YIELD**

Collateralized debt obligations (CDOs) got a bad rap during and after the global financial crisis, and rightfully so. They were a large contributor to the woes inflicted on the financial system more than a decade ago.

It may be surprising then that a similar group of securities is as popular as ever today: collateralized loan obligations (CLOs). Just like CDOs, CLOs group illiquid securities into batches that are then securitized and sold to investors. Instead of the mortgage-backed securities that make up CDOs, CLOs are typically composed of leveraged loans, or floating rate bank loans with low credit ratings.

And just like CDOs, CLOs are tranched debt securities. That means the highest-rated slices get paid before lower-rated slices get their share.

The Janus Henderson AAA CLO ETF (JAAA) focuses on these CLOs: the highest quality tranches with the lowest default risk. It's a strategy that could be attractive for investors looking for the extra yield of leveraged loans with the security of the senior tranches.

The fund attracted a cool \$120 million in one short month on the market, but it has the potential to grow much more in today's low yield environment. Its sole competitor is the AAF First Priority CLO Bond ETF (AAA), which was first to market from a brand new issuer, and has roughly \$10 million in AUM so far.

### **SECTOR PICKING**

Active management is usually thought of as "stock picking." But that's just one way to do it. Another way to do it is a step higher, at the sector level. That's what the Day Hagan/Ned Davis Research Smart Sector ETF (SSUS) does.

It picks and chooses which of the 11 stock market sectors to overweight and underweight based on a proprietary sector model. You can call it "sector picking."

According to the manager, sectors are weighted based on fundamental, technical, economic and behavioral indicators.

SSUS has picked up \$123 million since its January debut.

### **NEXT GEN OF TRIPLE Q'S**

The triple-Q's are as popular as ever. The **Invesco QQQ Trust (QQQ)**, one of the first ETFs on the market, is having one of its best years ever, in terms of both inflows and performance.

It's not a surprise then that the ETF's issuer, Invesco, added another fund to its lineup, based on a similar theme. The Invesco NASDAQ Next Gen 100 ETF (QQQI) tracks what Invesco calls the next generation of Nasdaq-listed companies.

While QQQ focuses on the 100 largest nonfinancial firms on the exchange, QQQJ tracks the next 100 biggest. The result is a completely different portfolio, but one that's still heavy on technology and health care. The two sectors combine to make up nearly 65% of the ETF.

But where QQQJ really differs from its counterpart is the market capitalization of its holdings. QQQJ's top holdings are in the \$30 billion to \$40 billion range, while QQQ, of course, holds giants with market caps of over \$1 trillion.

For investors looking to invest in Nasdaq-listed tech and health care stocks on the smaller side, QQQJ is an intriguing option. The fund currently has \$167 million in assets under management.

Others may find some interest in a QQQ clone that Invesco launched at the same time as QQQJ. The Invesco Nasdaq 100 ETF (QQQM) is 5 basis points cheaper than QQQ—at 0.15%—and provides an alternative vehicle to investors more concerned about cost than liquidity.

REFEREN	ICED ETFs				
TICKER	FUND	EXPENSE RATIO	AUM (\$M)	INCEPTION	SEGMENT
JAAA	Janus Henderson AAA CLO ETF	0.25%	120.4	10/16/20	Fixed Income: Global - Corporate, Bank Loans Investment Grade Floating Rate
AAA	AAF First Priority CLO Bond ETF	0.25%	10.0	9/9/20	Fixed Income: U.S Corporate, Bank Loans Investment Grade Floating Rate
SSUS	Day Hagan/Ned Davis Research Smart Sector ETF	0.79%	124.5	1/17/20	Equity: U.S Large Cap
QQQJ	Invesco NASDAQ Next Gen 100 ETF	0.15%	179.1	10/13/20	Equity: U.S Large Cap
QQQM	Invesco NASDAQ 100 ETF	0.15%	-	10/13/20	Equity: U.S Large Cap
VCEB	Vanguard ESG U.S. Corporate Bond ETF	0.12%	59.9	9/22/20	Fixed Income: U.S Corporate, Broad-based Investment Grade
EUSB	iShares ESG Advanced Total USD Bond Market ETF	0.12%	135.4	6/23/20	Fixed Income: U.S Broad Market
SPAK	Defiance Next Gen SPAC Derived ETF	0.45%	21.2	9/30/20	Equity: U.S Total Market
INDF	Nifty India Financials ETF	0.75%	2.8	10/20/20	Equity:India Sector Financial Services
СНВ	Global X China Biotech Innovation ETF	0.65%	-	9/22/20	Equity: China Biotech

Source: FactSet, data as of 11/12/2020

### **ESG MOVES TO FIXED INCOME**

2020 has been a banner year for ESG. ETFs that select stocks based on environmental, social and governance criteria have really caught the attention of investors, who have added billions of dollars to those funds

Could fixed income ETFs be next? Vanguard seems to think so. The venerable fund company launched the <u>Vanguard</u> <u>ESG U.S. Corporate Bond ETF (VCEB)</u> in September, and the fund has already picked up a solid \$60 million in assets.

VCEB tracks the broad U.S. investment-grade corporate bond universe based on the Bloomberg Barclays US Corporate Index. It then narrows its portfolio based on ESG criteria supplied by index company MSCI.

While VCEB is not the first ESG bond ETF to the market, it is significant that Vanguard's first ETF launch in two years is in this category. A similar launch this year was the iShares ESG Advanced Total USD Bond Market ETF (EUSB), which rolled out in June and currently has \$135 million.

### **SPAC PHENOMENON**

If you made a list of top financial market stories of the year, the explosion of the special purpose acquisition companies (SPACs) has to be on it.

SPACs, which are also known as blank check companies, have dominated the initial public offering (IPO) market this year, raising \$63.6 billion via 174 IPOs, according to SPAC Insider. That's more money raised through SPACs than in the past 10 years combined.

These companies raise money in the hopes of merging with private companies, offering a quicker, more guaranteed route to the public markets for those companies than if they went through the traditional IPO process.

SPACs have historically had a reputation of bringing low quality, specula-

tive companies to market. But several successful SPAC mergers this year—like those that brought DraftKings, Virgin Galactic and Hyliion public—have piqued investors' appetite for this up and coming asset class.

The Defiance Next Gen SPAC Derived ETF (SPAK) is the first ETF to capitalize on the trend. The fund currently has 36 holdings, 80% of which are stocks of companies that have already gone through the complete SPAC process, and another 20% in SPACs that are still searching for companies to merge with. SPAK has \$21 million in AUM.

It remains to be seen whether this year's SPAC phenomenon has staying power, but if it does, SPAK is one potential way to play it.

### **NON-US COUNTRY SECTORS**

ETFs covering specific slices of foreign markets were once quite common, but they've mostly disappeared due to difficulty in gathering assets, unless they target the Chinese market. However, 2020 saw the launch of at least two international sector funds.

The Nifty India Financials ETF (INDF) is the more recent rollout, and the first of its kind from a new entrant to the ETF markets: NextFins. There have been funds, now long closed, that tracked India's small cap market and infrastructure sector, but none has covered India's financials market.

Meanwhile, in September, Global X rolled out another addition to its broad offering of China-focused sector and industry funds with the launch of the Global X China Biotech Innovation ETF (CHB).

### 2020 has been a banner year for ESG

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\$254.18

0.09%

\$229.92B

-7.02 (-2.69%)

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\$15

-18.62% -18.60%

-18.35% -18.33%

5.80% 5.86%

-5.06%

-5.16%

State Street Global Advisors

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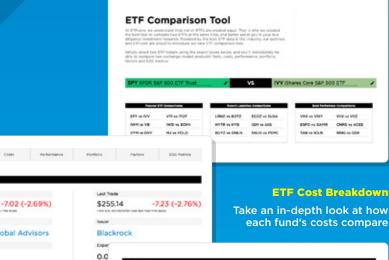
Compare how each fund performed year-over-year

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Simply select two ETF tickers using the search boxes and you'll instantly be able to compare two ETFs





### **Portfolio Makeup** Top 10 sector and stock holdings



### **MSCI ESG Metrics**

**Key ESG metrics** breakdown



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# ETFS look a lot different than when they were first launched nearly 30 years ago Compared to the first launched nearly 30

The U.S. ETF industry has come a long way from its roots of low-cost marketlike passive investing. That initial value proposition of the index-based ETF wrapper has matured, and is now trying to break new ground to grow.

Is this a good evolution when it comes to investing, or should we be concerned? From the original <u>SPDR S&P 500 ETF Trust (SPY)</u> to the 2,300-plus U.S.-listed ETFs today, we've witnessed a lot of them—many of them full of bells and whistles—come and

This year, the shockwaves of a global pandemic hitting markets fueled a lot of fanfare around things like thematic ETFs, actively managed funds and even the arrival of non-transparent strategies.

Perhaps lost in the wave of new and right-for-the-time ETF tools that have dominated our attention this year was the simple idea that broad-based passive index investing with a long time horizon is still a sound strategy for anyone looking to weather the ups and downs of markets.

It's been easy to wonder in 2020 if the originally—and predominately—passive ETF market of yore is also the ETF market of the future.

In truth, it depends who you ask.

go over the years.



EAR-T	O-DATE TOP GAINERS				FIGURE
TICKER	FUND	NET FLOWS (\$M)	AUM (\$M)	% OF Aum	OCT 2020 NET Flows (\$M)
V00	Vanguard S&P 500 ETF	23,824.73	157,286.99	15.15%	216.27
VTI	Vanguard Total Stock Market ETF	21,839.67	163,635.35	13.35%	3,759.84
GLD	SPDR Gold Trust	20,307.24	75,623.38	26.85%	-628.65
LQD	iShares iBoxx USD Investment Grade Corporate Bond ETF	17,553.58	56,464.24	31.09%	1,150.75
QQQ	Invesco QQQ Trust	15,929.60	130,921.16	12.17%	-105.38
BND	Vanguard Total Bond Market ETF	13,269.44	64,108.78	20.70%	1,978.41
VCIT	Vanguard Intermediate-Term Corporate Bond ETF	12,218.37	39,497.68	30.93%	659.67
VXUS	Vanguard Total International Stock ETF	11,078.92	28,260.24	39.20%	2,601.48
IAU	iShares Gold Trust	9,586.69	31,680.34	30.26%	558.12
AGG	iShares Core U.S. Aggregate Bond ETF	9,290.68	81,734.87	11.37%	1,178.56

'THE DOOR HAS BEEN OPENED A LITTLE MORE THAN NORMAL TO SHINY OBJECTS'

Source: FactSet; data as of 10/31/2020

### **LOSING FOCUS**

Some long-timers say that the ETF industry may have lost its focus as it's grown, and gotten caught in the hype and the thrill of "what's new." Is the effort by issuers to keep feeding the beast with new fare leading the industry astray, away from the core benefits of ETFs in the building of a low cost, well-diversified portfolio?

A recent marketing campaign from ARK Funds, the poster child for successful active management, is a good example of that concern. The campaign, which takes aim at broad-based passive investors, ties back to a report the company calls "The Bad Ideas report."

The gist of the message is that owning the market through broad-based passive products simply wouldn't do for anyone serious about investing for the future.

That type of investing, the firm says, is best suited for investors "afraid" of innovative companies, looking for the "comfort" of what they know has worked in the past. According to ARK founder Cathie Wood, the campaign is simply meant to be "provocative" in order to jolt investors into thinking differently about investing.

The campaign is hardly representative of the industry as a whole, and while ARK is all-in on active investing, it's obvious that suggesting that broad-based passive investing is cowardly would rub some people the wrong way.

"Everyone likes to chase performance. A lot of managers crash and burn when they do something like ARK did," said Rick Ferri, a well-known advisor, and founder of Ferri Investment Solutions. "You have to stay humble. I've been around the business a long time, and when we see managers get this confident, maybe the cycle is about to come to an end."

### **ACTIVELY CATCHING UP**

The increase in new launches and asset flows in the active management ETF segment suggests this space is just now catching speed.

A look at the new 235 ETFs that have come to market this year shows that more than half of new ETF launches (through

Oct. 31) were actively managed ETFs. That represents more than 120 new funds in total, some of them in semi- and non-transparent wrappers. (Remember that daily transparency of portfolio holdings has been one of the most beloved benefits of ETFs over mutual funds since the beginning. Lack of transparency is now the latest in ETF innovation.)

Only 12% of the launches—about 29 new ETFs—were categorized as vanilla, according to FactSet data. And vanilla here goes a long way from a broad-based market-cap-weighted portfolio to include even thematic ETFs.

That's not surprising: With some 120 ETF issuers in the market and more coming in at rapid speed—thanks to the lower-bar-to-entry courtesy of the ETF Rule—product development and innovation will try to go where few have gone before. At times, it may go places that don't really seem to benefit long-term investors very much.

But the low cost, broad-based beta world—the cap-weighted funds of the world—is pretty crowded already. Unless it's to bring in something infinitely cheaper—which is hard to do in the era of Vanguard, and with 0.03% expense ratios common in this space—finding a new tune and reaching a new crowd will take some clever thinking.

### **HYPE VS. IMPLEMENTATION**

This concern about a veering industry focus aimed at growing the size of the asset pie—if we can even say that—may be more about confusing noise for implementation.

"There's no question that launches have been much more focused on shiny objects or innovation, because asset managers are working hard to find opportunity in a very saturated market," said FactSet Director of ETF Research Elisabeth Kashner. "That's reflected in the count of launches and closures,"

"But that's what asset managers are doing," she added.
"ETF investors don't have to follow what asset managers are doing. What we see in investor behavior is entirely different, and reflected in asset flows."

As of the end of October, the biggest ETF creations com-

prised cheap beta products like the <u>Vanguard S&P 500 ETF</u> (VOO), with \$23 billion in net inflows; the <u>Vanguard Total Stock Market ETF</u> (VTI), with \$22 billion in net inflows; the <u>iShares iBoxx USD Investment Grade Corporate Bond ETF</u> (LQD); <u>Invesco QQQ Trust</u> (QQQ); the <u>Vanguard Total Bond Market ETF</u> (BND) and so on (Figure 1).

"How many shiny objects do you find in that list of flows?" Kashner said.

### **'95/5 PHENOMENON'**

Eric Balchunas, senior ETF analyst at Bloomberg Intelligence, has been tracking the ETF market with a fine-tooth comb on a daily basis for a long time, and he best illustrated the difference between what we, in this industry, pay attention to, and what ETF investors are actually doing.

What we find fascinating when it comes to storytelling may be very different from how we actually invest our money. He called it the "95/5 Phenomenon" (Figure 2).

"It can feel as though some of the non-Bogle-like shiny objects and ideas that are outside of dirt cheap beta are taking over, but they get a lot more press because they're more interesting to talk about," Balchunas said. "There's plenty of money going into cheap beta."

"Theme ETFs are having a good year because of COVID-related themes," he explained. "It's an unusual year, where the door has been opened a little more than normal to shiny objects, but at least two-thirds of the money continues to go to Bogle-like products."

ETF issuers that are bringing to market some of these ETFs that fall into the "shiny object" category may be finding success because they appeal to a new group of investors. As Ferri put it, they're chasing "thematic-type hot money," or traditional active fund buyers that are now entering the ETF fold

for the first time. Some of the newest ETF issuers are veterans of the mutual fund world looking to break into the ETF space because that's where their clients want to go.

That's not a loss for the ETF industry, or a surrender to the noisemakers. That's a win for the ETF wrapper itself.

U.S.-listed ETFs had attracted more than \$350 billion in 2020 as of the end of October, putting the overall market close to the \$5 trillion-in-assets mark—the bulk of which remains allocated to broad-based plain vanilla funds.

"More money dollarwise will continue to go to BlackRock and Vanguard, but it's going to continue to get more dispersed," Ferri said. "That's not a signal that people are doing more of this new 'other stuff,' but that they're doing more of it in ETFs now rather than in mutual fund wrappers."

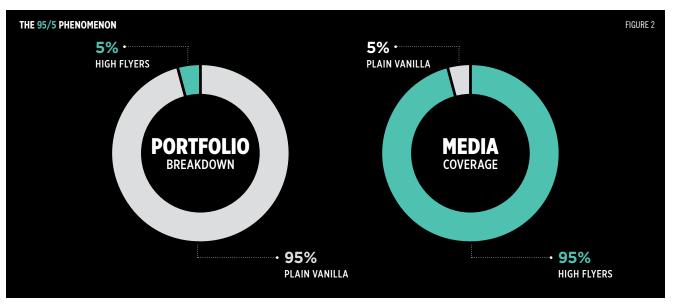
### **ISSUER VS. INVESTOR DISCONNECT?**

The data suggests there's a disconnect between ETF issuers and ETF investors when it comes to new product ideas and actual demand for implementation. New is attention-grabbing, but it's not always right for everyone.

"Product development hasn't lost its way, but messaging perhaps has," Ferri noted. "Part of the problem is that ETF issuers don't want to advertise direct to retail. They want to advertise to advisors. But individual buyers, as a market, are 50x the size of the advisor market."

Ferri says that if you want to grow your ETF footprint today as a new entrant, coming up with a novel idea is less important than messaging what actually sells: tax efficiency.

"ARK is doing that well, spot on, even if their latest marketing campaign misses the most important message," Ferri said. "The way to get the audience to listen is taxes. You don't want taxes. And ETFs give you that: They're cheaper and you don't have to pay taxes at the end of the year."



Source: Bloomberg/Eric Balchunas



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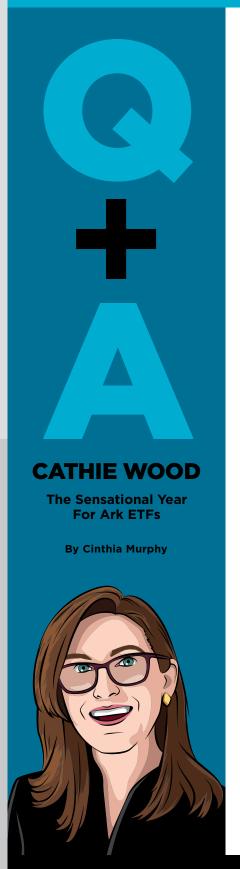


### **ETF Dictionary**

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.

### START LEARNING TODAY!





It may have been a challenging year for active investors everywhere, but 2020 will go down in history as the best year yet for ARK Funds. The boutique ETF active manager known for sometimescontrarian conviction in disruptive innovation saw founder Cathie Wood and its ETF tickers become household names.

Through the end of October, ARK had picked up some \$10 billion in net creations, led by the \$5.2 billion asset haul of the <u>ARK Innovation ETF (ARKK)</u>. ARKK is now the biggest active equity ETF in the market, with \$10.9 billion.

Here, Wood tells us what she's taking away from the roller coaster that has been 2020.

### ARK has consistently pulled in assets throughout 2020. To what do you attribute this breakout year?

A couple of things have happened this year. First, innovation takes off during tough times. That's when consumers and businesses are willing to think about doing things differently. They're scared. They're looking for answers, solutions to their problems. And we have a lot of problems.

Because innovation in products and services is usually cheaper, faster, more productive and more creative, people turn to it much more quickly than would otherwise be the case. Some of the companies we invest in are telling us that they didn't expect to see these sorts of customers or clients for at least three to five years, but they're all coming to them now.

The other reason ARK has seen inflows, even when the market's been unsettled, is because of our communication with clients. We have webinars once a month, and anyone can join. All of our analysts are on them.

[Early in the pandemic] I started doing YouTube videos every Friday, "Stay at Home With Cathie." I'm not saying we're the reason [investors] did anything differently, but at least they had data to back up some of the decisions they were making.

Active management in the ETF space has seen slow growth from the beginning. You stand out on three fronts: great storytelling; full transparency, which is unheard of among active managers; and die-hard conviction. Is that the winning recipe for ETF active managers?

The ETF world is so fond of transparency, it's almost become a part of the ETF industry's identity. That's why we wanted to do it, so I agree on the importance of transparency. We publish our trades every day—anyone who signs up for our newsletter can get it.

We had an explosion of requests during the coronavirus because they knew we were actively managing the portfolios aggressively every day. We disclose not only our holdings at the end of every day, but our trades every day, and our research has been key.

Our research is the starting point for the storytelling. As a portfolio manager, I need to be able to communicate our research, but some of it is so deep in the weeds, I have to pull it out and just say, "OK, this is what is important here. This is what will move people into thinking about this, even if they don't act on it.'

That's really what we want, to communicate to people how their lives are going to change. The storytelling is really important. And believe me, sometimes, especially in the genomics space, we have to take a number of cuts at it, because it's very, very tough stuff!

Out of our research comes the conviction you're talking about. In fact, it helps, as I'm digging deeply into the research and pulling out what we can share with people, to increase my own conviction as a portfolio manager. It's a virtuous cycle.

One of the most important metrics for an active manager is performance. Do you worry that the stellar run ARK ETFs have had this year may come to an end, and folks will hold you to it?

We're going to go through periods of underperformance here and there, and we'll have critics dismissing our strategies—as they already are—as nothing but a bubble strategy. I'll be fine with it. I'm convinced that our strategy, which will go through periods of underperformance—it's inevitable—will get back on the relative outperformance track. The platforms and technologies around which we base all of our research are ready for prime time. Many are already in prime time. And they're moving at an exponential growth rate.

Now, many people don't know what that is, because it doesn't happen very often. But we got a glimpse from the tech and telecom bubble—Amazon, in particular—that companies, if they've invested aggressively in the short term, and sacrificed short-term profitability, will capture the lion's share of some massive markets.

in price would have meant some very good periods.

But the end of the story is, whale oil died. We do think the end of the story is that oil is in a world of hurt for a very long time. That doesn't mean you can't pick up value and trade on it. However, we're not going to do that—that's not what we do; others will do it much better.

The other thing I'll say about value and growth investors is that I actually consider ARK a value investor. We have a five-year time horizon, but we're not going to buy anything that we don't think is a good value over a five-year period.

One of the things that managers don't do enough research on is intangible assets. Value investors tend to stick to price-to-book, and book is collapsing. And because of the search for yield, you get

build wealth and make their futures more secure, frankly I'm thrilled. It's been a very humbling year, too. I've been working a lifetime, and I feel like I've been working to make this sort of thing happen as I saw the investing world move away from innovation.

In the public markets, as the indexes were outperforming active for so long, there was almost a defection from innovation to the point where, when I said I was going to start this company, people were saying, "You're crazy. Active is going away."

For the past seven years now, we've been trying to make our way in this world, and most people didn't think there was a place for us. We had to earn our place. It opened my eyes to what we're up against and how we

### Innovation takes off during tough times

People made fun of Amazon for years because Jeff [Bezos] wasn't letting any topline growth drop to the bottom line. Look who's laughing now. The traditional retail space is in shambles. And we're at only 16% penetration online to total retail. That destruction is only going to intensify.

I fully expect to see the value world experience some dramatic moves to the upside here. I say that because in the history of disruptive innovation—and you really have to go back to the late 1800s—if you looked at the whale oil industry (used for lighting) right as we were discovering oil and learning how we could move toward electricity, the whale oil industry collapsed its investment in exploration.

Whale oil prices started gyrating enormously, with extreme volatility, and I presume, if there were whale oil plays in markets around that time, that the collapse in investment and the rise

people investing in dividend yield stocks like auto companies that have 5-7% yields. But they're cheap for a reason.

This lack of focus on intangible assets is where certain strategies are going to lose out. We fully expect extreme volatility around some of these dying trends. It's not what we're going to play, but I'm sure there'll be some great trading opportunities.

When you think of 2020, and the year it's been for ARK and for disruptive technologies, what will you take away from this year?

We were able to go out there and help lend perspective to how these innovative companies were going to solve problems created by the coronavirus. We were able to hold investors' hands, saying, "OK, the odds of this turning into a V-shaped recovery are very high, and here are the reasons."

To the extent that we helped people

really need to share our conviction in our research and our investing.

It's all transparent. The active world now doesn't understand what we're doing by giving our research away, showing our trades every day, putting our models out there. Now the ETF world gets us, but the active world where I came from is trying to figure this out.

The ETF industry is much more entrepreneurial than the traditional asset management world. That's why we've fit in. We've been willing to push the envelope a bit.

My only surprise is that active isn't happening faster—just because I know that the ETF world believes that active is viable, it could be very interesting, and the community's very entrepreneurial. I don't know about nontransparent ETFs, though, because I see how much transparency means to the ETF community. That's another hurdle for them. But I do believe in active management.

October was a mixed month for commodity ETFs, though more funds were in negative territory than not. The worst performer was the **United States Gasoline Fund LP (UGA)**, with a decline of 11.35%. It was followed by the United States Oil Fund LP (USO) and the iPath Bloomberg Cocoa Subindex Total Return ETN (NIB), down 10.75% and 10.16%, respectively. At the other end of the performance spectrum was the **United States Natural Gas Fund LP** (UNG), which was up 11.66%. The iPath Series B Bloomberg Sugar Subindex Total Return ETN (SGG) was up 7.06%, and the iPath Series B Bloomberg Cotton Subindex Total Return ETN (BAL) increased by 5.05%. In terms of flows, redemptions outweighed creations, with the entire category losing nearly \$1 billion. The SPDR Gold Trust (GLD) claimed the No. 1 spot for outflows, with a loss of \$663.8 million; USO bled \$389.9 million; and the Invesco Optimum Yield **Diversified Commodity Strategy No K-1 ETF (PDBC)** shed \$83.7 million. The iShares Silver Trust (SLV) gained \$261.4 million, trailed distantly by the Aberdeen Standard Physical Precious Metals Basket Shares ETF (GLTR), which rose just \$19.1 million; and the Aberdeen Standard Physical Platinum Shares ETF (PPLT), which increased by \$16.5 million.

### **Commodity Performance**

**OCTOBER 2020** 

BROAD-BASED	AGS	ENERGY	INDUST. METALS	PRECIOUS METALS
BROAD	<b>BROAD</b>	<b>BROAD</b>	<b>BROAD</b>	<b>BROAD</b>
USCI	DBA	DBE	DBB	GLTR
-0.11%	-1.29%	-8.06%	2.97%	-0.69%
<b>BROAD</b>	<b>COFFEE</b>	GASOLINE	COPPER	<b>GOLD</b>
DBC	JO	UGA	JJC	GLD
-3.14%	-6.08%	-11.35%	0.94%	-0.52%
BROAD	<b>SUGAR</b>	NATURAL GAS	NICKEL	PLATINUM
DJP	SGG	Ung	JJN	PPLT
1.90%	7.06%	11.66%	4.32%	-5.21%
BROAD	<b>COCOA</b>	<b>CRUDE OIL</b>	<b>LEAD</b>	SILVER
FTGC	NIB	USO	LD	SLV
0.00%	-10.16%	-10.75%	-0.68%	1.62%
BROAD	COTTON		ALUMINUM	PALLADIUM
GCC	BAL		JJU	PALL
-0.81%	5.05%		4.79%	-4.00%
BROAD GSG -3.44%			<b>TIN</b> JJT 1.59%	
BROAD PDBC -3.22%				

KEY: -									+
	<-5.0	<-4.9	<-2.9	Ō.	0	0		< 4.9	
		0.	0	$\exists$		1.	0.1	3.0	

### Top Inflows

	TICKER	NET FLOWS (\$M)	AUM (\$M)
iShares Silver	SLV	261.4	13,385.6
Aberdeen Std Phys Precious Metals	GLTR	19.1	761.3
Aberdeen Standard Phys Platinum	PPLT	16.5	1,078.3
FT GIb Tactical Commodity Strt	FTGC	12.1	171.6
Invesco DB Base Metals Fund	DBB	3.0	140.0

### Top Outflows

•	TICKER	NET FLOWS (\$M)	AUM (\$M)
SPDR Gold	GLD	-663.8	75,623.4
United States Oil	US0	-389.9	3,422.0
Invesco Opt YId Diversfd Commod No K-1	PDBC	-83.7	2,478.5
Invesco DB Agriculture	DBA	-41.4	548.9
Invesco DB Commodity	DBC	-31.8	1,000.6

COUNTRIES IN REVIEW By Heather Bell

### **Country Returns**

### OCTOBER 2020

Country	Returns				00	CTOBER 2
D	EVELOPED MARKE	rs e		EMERGING MARKET	IS	FRONTII
AMERICAS	EMEA	ASIA-PACIFIC	AMERICAS	EMEA	ASIA-PACIFIC	MARKET
CANADA EWC -3.43%	AUSTRIA EWO -2.67%	AUSTRALIA EWA 0.25%	ARGENTINA ARGT 1.03%	EGYPT EGPT -4.17%	CHINA FXI 5.00%	NIGERIA NGE 19.96%
UNITED STATES SPY -2.49%	BELGIUM EWK -7.36%	HONG KONG EWH -1.92%	BRAZIL EWZ -2.89%	GREECE GREK -10.44%	INDIA INDA -0.80%	VIETNAI VNM -0.74%
	DENMARK Eden -2.51%	JAPAN Ewj -1.41%	CHILE ECH -0.79%	POLAND EPOL -15.43%	INDONESIA EIDO 5.85%	
	FINLAND EFNL -5.16%	NEW ZEALAND ENZL 3.18%	COLOMBIA GXG -1.69%	QATAR QAT -5.14%	MALAYSIA EWM -3.17%	
	FRANCE EWQ -4.55%	SINGAPORE EWS -3.69%	MEXICO EWW 2.40%	RUSSIA RSX -7.14%	PAKISTAN Pak 1.05%	
	GERMANY EWG -9.78%		PERU EPU -0.69%	SAUDI ARABIA KSA -4.65%	PHILIPPINES EPHE 5.64%	
	IRELAND Eirl 2.32%			SOUTH AFRICA EZA 0.30%	SOUTH KOREA EWY -0.67%	
	ISRAEL EIS -0.11%			TURKEY TUR -10.22%	TAIWAN EWT 0.58%	
	ITALY EWI -6.44%			UAE UAE -2.37%	THAILAND THD -2.77%	
	NETHERLANDS EWN -2.50%					
	NORWAY NORW -7.10%					
	PORTUGAL PGAL					

Country ETFs had a few bright spots in October, most notably the **Global X MSCI Nigeria ETF** (NGE), which was up an impressive 19.96% for the month. It was followed distantly by the iShares MSCI Indonesia ETF (EIDO), up 5.85%; and the iShares MSCI Philippines ETF (EPHE), up 5.64%. On the downside, the **iShares MSCI Poland ETF** (EPOL) fell 15.43%, the Global X MSCI Greece ETF (GREK) declined 10.44% and the iShares MSCI Turkey ETF (TUR) dropped by 10.22%. When it comes to flows, the SPDR S&P 500 ETF Trust (SPY) hemorrhaged \$10 billion, the iShares MSCI Germany ETF (EWG) lost a far less dramatic \$332 million and the iShares MSCI Spain ETF (EWP) saw outflows of just \$34.8 million. The inflows were less stark and less dispersed, with the iShares MSCI Japan ETF (EWJ) gaining \$647.6 million, the iShares MSCI Taiwan ETF (EWT) pulling in \$113.4 million and the iShares MSCI Australia ETF (EWA) adding \$111.5 million.

### Top Inflows

	TICKER	NET FLOWS (\$M)	AUM (\$M)
iShares MSCI Japan ETF	EWJ	647.6	10,471.9
iShares MSCI Taiwan ETF	EWT	113.4	4,616.8
iShares MSCI Australia ETF	EWA	111.5	1,296.5
iShares MSCI United Kingdom ETF	EWU	82.9	2,179.9
iShares MSCI Mexico ETF	EWW	82.9	805.5

### Top Outflows

Top oddiono illiniilliilliniilliniilliniilliniilliniilliniilliniilliniilliniilliniilliniilliniilliniilliniilliniil										
	TICKER	NET FLOWS (\$M)	AUM (\$M)							
SPDR S&P 500 ETF Trust	SPY	-10,013.2	280,255.4							
iShares MSCI Germany ETF	EWG	-332.0	2,413.0							
iShares MSCI Spain ETF	EWP	-34.8	331.1							
iShares China Large-Cap ETF	FXI	-26.8	3,445.7							
iShares MSCI UAE ETF	UAE	-24.6	12.3							



-5.73%

SPAIN
EWP
-3.45%

SWITZERLAND
EWL
-5.21%

UNITED KINGDOM
EWU
-4.51%



Note: This list intends to capture the returns of most liquid ETFs tracking individual countries around the world. It does not capture every country in the MSCI All Country World Index.





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

- **>** Data as of 10/31/2020
- > 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 \$98 million and above
- > Source: ETF.com

I C FOULTY TOTAL MADVET						
J.S. EQUITY: TOTAL MARKET						
Renaissance IPO	IP0	0.60	316.4	63.36	22.27	19.24
RShares Entrepreneur 30	ENTR	0.49	144.4	30.69	<del>-</del>	·····
Notley Fool 100	TMFC	0.50	328.1	23.14	<del>-</del>	<u>-</u>
idelity NASDAQ Composite	ONEQ	0.21	3,024.8	22.23	18.59	17.78
SPDR S&P Kensho New Economies	KOMP	0.20	1,221.2	20.58		
irst Trust US Equity Opportunities	FPX	0.58	1,512.4	19.33	13.95	13.70
American Century STOXX US Qual Gr	QGRO	0.29	205.9	19.14	<del>.</del>	<del>-</del>
Goldman Sachs Hedge Industry VIP	GVIP	0.45	119.9	18.74	13.00	<del>.</del>
Global X Millennials Thematic	MILN	0.50	98.7	18.08	18.76	
nvesco DWA Momentum	PDP	0.62	1,725.9	17.41	14.36	12.40
Shares MSCI USA Momentum Factor	MTUM	0.15	11,874.9	13.48	13.49	15.53
Q Candriam ESG US Equity	IQSU	0.09	223.7	10.90	<del>-</del>	<del>-</del>
Shares MSCI USA ESG Select	SUSA	0.25	1,822.9	9.07	12.05	12.90
anguard ESG US Stock	ESGV	0.12	2,097.3	8.05		
Shares ESG Aware MSCI USA	ESGU	0.15	10,603.3	5.64	11.53	-
Shares MSCI KLD 400 Social	DSI	0.25	2,195.8	5.33	11.21	11.82
lationwide Max Diversctn US Core	MXDU	0.34	98.8	5.15	10.52	
PMorgan BetaBuilders US Equity	BBUS	0.02	241.6	4.01	_	
nnovator IBD 50	FFTY	0.80	186.3	3.51	2.56	9.36
/anguard Total Stock Market	VTI	0.03	165,587.6	3.41	10.11	11.52
Shares Core S&P Total US Stock Mkt	ITOT	0.03	26,965.6	3.25	10.04	11.47
Shares Dow Jones US	IYY	0.20	1,261.8	3.21	10.10	11.37
Schwab US Broad Market	SCHB	0.03	15,527.4	3.20	10.01	11.43
anguard Russell 3000	VTHR	0.10	695.3	3.16	9.92	11.27
trackers MSCI USA ESG Leaders	USSG	0.10	2,514.0	3.12	-	-
Shares Russell 3000	IWV	0.20	9,416.9	3.11	9.89	11.32
Shares ESG MSCI USA Leaders	SUSL	0.10	2,472.6	3.05	-	-
anguard Dividend Appreciation	VIG	0.06	46,952.1	2.30	11.23	12.05
rimTabs All Cap US Free-Cash-Flow	TTAC	0.59	174.0	2.06	8.41	-
Global X Conscious Companies	KRMA	0.43	424.3	1.93	10.58	-
SPDR Portfolio S&P 1500 Composite	SPTM	0.03	3,606.4	1.81	9.71	11.24
Shares MSCI USA Quality Factor	QUAL	0.15	19,180.3	1.40	10.33	11.04
irst Trust DW Momentum/Low Vol	DVOL	0.60	121.7	0.59	-	-
VisdomTree US Qual Div Gr	DGRW	0.28	4,415.7	0.26	9.32	11.37
ranklin Liberty US Low Volatility	FLLV	0.29	117.6	-0.41	11.00	-
Ivantis US Equity	AVUS	0.15	463.9	-0.65	-	
ALPS Barron's 400	BFOR	0.65	108.9	-0.96	2.25	6.92
imothy Plan US Large/Mid Cap Core	TPLC	0.52	149.8	-0.98		-
illionly riall of Large/Wild Gap Gole						

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
FlexShares US Quality Low Volatility	QLV	0.22	111.8	-2.16	-	<u>-</u>
Invesco Dividend Achievers	PFM	0.53	409.1	-2.27	7.91	9.59
iShares MSCI USA Size Factor	SIZE	0.15	617.9	-2.45	7.03	9.29
WisdomTree US Multifactor	USMF	0.28	138.1	-2.65	6.51	-
VanEck Vectors Mstar Wide Moat	MOAT	0.48	3,354.8	-2.99	11.03	13.70
RiverFront Dyn US Div Advantage	RFDA	0.52	122.3	-3.02	5.23	-
FlexShares Mstar US Mkt Factor Tilt	TILT	0.25	1,187.0	-3.26	5.92	9.01
iShares MSCI USA Multifactor	LRGF	0.20	795.8	-3.41	4.53	8.16
iShares MSCI USA Equal Weighted	EUSA	0.15	220.6	-3.66	6.48	8.73
Invesco Defensive Equity	DEF	0.55	251.6	-3.97	7.27	9.95
iShares MSCI USA Min Vol Factor	USMV	0.15	32,256.5	-4.48	8.50	10.27
iShares Core Dividend Growth	DGRO	0.08	11,718.2	-5.41	8.15	10.90
VictoryShares US MultiFactr Min Vol	VSMV	0.35	133.0	-6.58	7.49	-
Invesco Dynamic Market	PWC	0.58	119.9	-6.65	0.51	5.39
FlexShares Quality Dividend	QDF	0.37	1,277.6	-8.50	4.17	7.19
FlexShares Quality Div Defensive	QDEF	0.37	417.2	-8.84	4.98	7.54
Schwab Fundamental US Broad Mkt	FNDB	0.25	221.4	-9.19	4.29	7.50
VictoryShares MSCI USA Val Mom	ULVM	0.20	457.7	-10.41	0.01	-
WisdomTree US Total Dividend	DTD	0.28	710.6	-11.34	3.71	7.47
Legg Mason Low Vol High Dividend	LVHD	0.27	673.3	-11.90	1.99	
Vident Core US Equity	VUSE	0.48	309.0	-12.67	-1.62	3.76
Invesco BuyBack Achievers	PKW	0.62	626.0	-12.92	3.43	6.06
American Century STOXX US Qual Val	VALQ	0.29	135.7	-13.00	-	-
Global X Adaptive US Factor	AUSF	0.27	132.3	-13.11		
Invesco Raymond James SB-1	RYJ	0.76	101.2	-15.83	-0.19	4.48
Virtus Real Asset Income	VRAI	0.55	101.1	-25.47		
iShares US Tech Breakthrough Multisector	TECB	0.40	318.7	-20.47		
Goldman Sachs MarketBeta US Equity	GSUS	0.40	243.3		·····	
U.S. EQUITY: TOTAL MARKET GROWTH	4303	0.07	243.3	_	-	_
iShares Core S&P US Growth	IUSG	0.04	9,188.7	15.90	15.84	15.15
First Trust Multi Cap Growth AlphaDEX	FAD	0.66	179.4	10.65	10.53	11.59
Janus Henderson Sm/Mid Cap Gr Alpha	JSMD	0.30	116.6	8.80	12.87	11.J3
American Century Focused Dynamic Gr	FDG	0.45	181.6		12.07	•
	TDG	0.43	101.0	-	-	-
U.S. EQUITY: TOTAL MARKET VALUE	IUSV	0.04	C EEO E	-13.34	2.83	6.71
iShares Core S&P US Value			6,550.5	•	-0.08	•
iShares MSCI USA Value Factor	VLUE	0.15	6,858.5	-16.73	-0.00	5.24
Vanguard US Value Factor	VFVA	0.14	113.6	-18.20	2 67	1 26
Alpha Architect US Quantitative Value	QVAL	0.49	111.5	-21.06	-2.67	1.26
U.S. EQUITY: EXTENDED CAP	WE	0.00	10 521 0	4 22	7.70	10.10
Vanguard Extended Market	VXF	0.06	10,531.8	4.32	7.76 4.48	10.16
iShares Russell 2500 Invesco FTSE RAFI US 1500 Small-Mid	SMMD	0.15	112.9	-4.39	• · · · · · · · · · · · · · · · · · · ·	
	PRFZ	0.39	1,448.8	-11.65	-0.62	5.64
U.S. EQUITY: LARGE CAP	000	0.00	100 400 1	07.07	01.05	10.00
Invesco QQQ Trust	QQQ	0.20	133,488.1	27.37	21.95	19.99
Pacer Trendpilot 100	PTNQ	0.65	791.7	19.66	18.28	15.17
Invesco S&P 500 Downside Hedged	PHDG	0.39	143.1	17.09	8.60	7.37
Direxion NASDAQ-100 Equal Weighted	QQQE	0.35	279.4	15.20	15.40	14.92
First Trust Nasdaq-100 Equal Weighted	QQEW	0.59	900.8	15.09	15.18	14.75
First Trust NASDAQ-100 Ex-Technology	QQXT	0.60	118.8	14.46	13.07	9.96
JPMorgan US Momentum Factor	JMOM	0.12	137.2	11.80	<del>.</del>	<del>.</del>
Nationwide Risk-Managed Income	NUSI	0.68	130.5	10.90	<del>-</del>	<del>-</del>
Invesco S&P 500 Top 50	XLG	0.20	1,592.0	9.58	13.30	13.71
Aptus Drawdown Managed Equity	ADME	0.79	171.8	8.28	4.07	<del>-</del>
First Trust Lunt US Factor Rotation	FCTR	0.65	99.0	8.01	<del>-</del>	<del>-</del>
Inspire 100	BIBL	0.35	136.2	7.90	<del>-</del>	
iShares S&P 100	0EF	0.20	6,767.2	6.05	11.92	12.41
iShares Russell Top 200	IWL	0.15	844.2	5.39	10.17	10.76
Vanguard Mega Cap	MGC	0.07	2,875.1	4.82	9.82	10.51
Vanguard Large-Cap	VV	0.04	18,544.9	4.60	11.01	12.02
Xtrackers S&P 500 ESG	SNPE	0.10	323.1	4.47	<del></del>	<del>-</del>
SPDR S&P 500 Fossil Fuel Reserves Free	SPYX	0.20	692.4	4.33	11.08	<del>-</del>
Vanguard Russell 1000	VONE	0.08	1,639.7	3.94	10.58	11.67
iShares Russell 1000	IWB	0.15	22,693.3	3.85	10.53	11.66
Innovator S&P 500 Power Buffer - August	PAUG	0.79	109.5	3.69	<del>.</del>	<del>-</del>
Schwab 1000	SCHK	0.05	1,163.1	3.67	10.44	-

TICKER EXPRATIO % ALIM (\$M) YTD % 3YR % 5YR %

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
nnovator S&P 500 Power Buffer - October	POCT	0.80	190.8	3.65	<del>.</del>	<del>-</del>
Distillate US Fundamental Stability/Value	DSTL	0.39	178.8	3.59	<del>.</del>	<del></del>
Goldman Sachs JUST US Large Cap Equity	JUST	0.20	147.1	3.57		
Schwab US Large-Cap	SCHX	0.03	22,175.3	3.54	8.99	9.95
Goldman Sachs ActiveBeta US Large Cap	GSLC	0.09	9,918.0	3.34	10.58	11.24
VictoryShares US 500 Enh Volatility Wtd	CF0	0.35	636.4	3.32	6.36	9.51
nnovator S&P 500 Ultra Buffer - October	UOCT	0.80	105.8	3.18		- 11 40
Shares Mstar Large-Cap	JKD	0.20	769.5	3.08	9.05	11.46
SPDR Portfolio S&P 500	SPLG	0.03	6,659.3	3.04	10.55	11.56
Aptus Collared Income Opportunity	ACIO	0.79	153.9	3.02	10.20	- 11.00
SPDR S&P 500 Trust	SPY	0.09	280,966.0	2.94	10.38	11.63
Vanguard S&P 500	V00	0.03	159,369.5	2.77	10.40	11.68
nvesco S&P 500 Quality	SPHQ	0.15	2,206.7	2.63	10.24	11.58
FT Choe Vest US Equity Deep Buffer - Aug	DAUG	0.85	150.3	2.53	······ <del>-</del>	·····
nnovator S&P 500 Buffer - January	BJAN	0.80	141.8	2.51	10.04	12.54
Barclays ETN+ Shiller CAPE ETN	CAPE	0.45	204.9	2.50	10.94	13.54
Nationwide Risk-Based US Equity	RBUS	0.30	106.1	2.41	9.17	······
Overlay Shares Large Cap Equity	OVL	0.78	112.2	2.32		·····
Global X S&P 500 Catholic Values	CATH	0.29	379.9	2.25	9.86	<del>-</del>
T Choe Vest US Equity Buffer - November	FNOV	0.85	129.4	2.18	<del>-</del>	<del>-</del>
nnovator S&P 500 Power Buffer - July	PJUL	0.79	112.2	2.13	10.00	······
Principal US Mega-Cap	USMC	0.12	1,511.3	1.96	10.00	<del>-</del>
nnovator S&P 500 Power Buffer - January	PJAN	0.79	288.9	1.94	······ <del>-</del>	·····
PMorgan US Quality Factor	JQUA	0.12	386.5	1.83		11.01
First Trust Capital Strength	FTCS	0.58	5,977.8	1.79	8.86	11.01
nnovator S&P 500 Ultra Buffer - January	UJAN	0.79	112.1	1.56	······ <del>-</del>	
T Choe Vest US Equity Deep Buffer - Nov	DNOV	0.85	134.9	1.52		·····
idelity Quality Factor	FQAL	0.29	147.0	1.42	9.26	·····
nnovator S&P 500 Power Buffer - April	PAPR	0.79	187.6	1.38	0.10	0.40
Shares Core S&P 500	IVV	0.03	212,012.6	1.36	8.18	9.40
nnovator S&P 500 Power Buffer - Sept	PSEP	0.79	287.8	0.90		10.50
ohn Hancock Multifactor Large Cap	JHML	0.29	903.9	0.56	8.84	10.59
Fidelity Low Volatility Factor	FDLO	0.29	359.9	0.03	10.95	
Amplify CWP Enhanced Dividend Income	DIVO	0.49	107.3	-0.20	8.61	·····
/ictoryShares Dividend Accelerator	VSDA	0.35	268.7	-0.40	11.16	
Main Sector Rotation	SECT	0.80	559.4	-1.18	5.89	·····
(trackers Russell 1000 US QARP	QARP	0.19	107.3	-1.65		
/ictoryShares US EQ Inc Enh Volatility Wtd	CDC	0.35	570.6	-1.69	4.85	8.57
Franklin LibertyQ US Equity	FLQL	0.15	1,212.5	-1.90	9.13	<del>.</del>
Goldman Sachs Equal Weight US Large Cap	GSEW	0.09	356.8	-2.18	7.09	<del>.</del>
SPDR SSGA Gender Diversity	SHE	0.20	134.2	-2.22	6.94	·····
Davis Select US Equity	DUSA	0.63	270.1	-2.27	5.30	
First Trust Large Cap Core AlphaDEX	FEX	0.60	891.0	-2.88	4.19	7.29
First Trust Horizon Managed Vol Domestic	HUSV	0.70	174.5	-2.88	7.35	
Global X NASDAQ 100 Covered Call	QYLD	0.60	1,352.6	-3.28	5.56	7.27
HCM Defender 500	LGH	1.25	107.9	-3.29		
/ictoryShares US 500 Volatility Wtd	CFA	0.35	608.9	-3.75	6.27	9.39
9?Shares US Quality Dividend	OUSA	0.48	533.7	-3.95	7.12	9.05
nvesco Russell 1000 Equal Weight	EQAL	0.20	452.6	-4.00 4.28	4.41	7.37
nvesco RAFI Strategic US	SUI	0.19	135.5	-4.28 4.40	4.05	0 00
ProShares Large Cap Core Plus	CSM	0.46	388.8	-4.49 4.62	4.95	8.03
NisdomTree US LargeCap	EPS	0.08	399.2	-4.63	5.58	8.00
ProShares S&P 500 Dividend Aristocrats	NOBL	0.35	6,066.0	-4.65 4.70	7.86	9.55
ALPS Equal Sector Weight	EQL	0.28	152.3	-4.79 5.22	4.22	6.31
nvesco S&P 500 Equal Weight	RSP	0.20	13,648.1	-5.32	5.74	8.35
nvesco Russell 1000 Dynamic Multifactor	OMFL	0.29	990.6	-5.36		100-
SPDR Dow Jones Industrial Average Trust	DIA	0.16	22,380.4	-5.38 5.20	6.60	10.97
SPDR Russell 1000 Momentum Focus	ONE0	0.20	216.6	-5.39	3.17	
Atrackers Russell 1000 Compr Factor	DEUS	0.17	150.6	-5.77	4.77	
PMorgan Diversified Return US Equity	JPUS	0.18	547.1	-6.12	4.85	7.92
SPDR SSGA US Large Cap Low Volatility	LGLV	0.12	528.8	-6.17	8.34	10.00
Hartford Multifactor US Equity	ROUS	0.19	237.7	-6.40	3.71	7.14
nvesco S&P 500 High Beta	SPHB	0.25	193.9	-6.87	3.84	8.02
SPDR Russell 1000 Low Volatility Focus Q Chaikin US Large Cap	ONEV CLRG	0.20 0.25	406.1 247.1	-7.94 -7.96	6.29	<del>-</del>

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Schwab Fundamental US Large Company	FNDX	0.25	4,485.5	-8.50	4.86	7.81
First Trust Rising Dividend Achievers	RDVY	0.50	1,322.1	-8.90	6.32	10.12
WisdomTree CB0E S&P 500 PutWrite	PUTW	0.44	109.1	-8.93	-0.82	<del>-</del>
Pacer US Cash Cows 100	COWZ	0.49	196.5	-8.95	2.92	<del>-</del>
Invesco S&P 500 Low Volatility	SPLV	0.25	8,195.3	-8.98	6.15	8.65
WisdomTree US LargeCap Dividend	DLN	0.28	2,232.4	-9.13	5.03	8.24
Invesco FTSE RAFI US 1000	PRF	0.39	3,753.8	-9.17	3.58	7.14
Global X S&P 500 Covered Call	XYLD	0.60	105.9	-9.78	2.03	5.14
Invesco S&P 500 BuyWrite	PBP	0.49	162.0	-12.23	-0.87	2.49
Timothy Plan High Dividend Stock	TPHD	0.52	110.1	-12.79		<del>-</del>
Pacer Trendpilot US Large Cap	PTLC	0.60	1,798.4	-14.05	2.23	5.03
ALPS Sector Dividend Dogs	SDOG	0.40	890.5	-15.88	-1.12	4.50
SPDR Russell 1000 Yield Focus	ONEY	0.20	374.8	-17.75	0.68	
WisdomTree US Dividend ex-Financials	DTN	0.38	486.9	-17.95	-1.14	3.81
VictoryShares US Lrg Cap High Div Vol Wtd	CDL	0.35	166.4	-18.65	0.35	5.75
Invesco S&P 500 High Dividend Low Vol	SPHD	0.30	2,242.1	-22.66	-3.31	3.82
SPDR Portfolio S&P 500 High Dividend	SPYD	0.07	1,928.7	-27.23	-3.98	2.95
FT Choe Vest US Equity Deep Buffer - Feb	DFEB	0.85	505.9	·······-	<del>.</del>	<del>-</del>
FT Choe Vest US Equity Buffer - February	FFEB	0.85	245.0	·····	<del>-</del>	<del>-</del>
6 Meridian Hedged Equity-Option	SIXH	0.81	190.1		<del>-</del>	<del>-</del>
Innovator S&P 500 Power Buffer - Feb	PFEB	0.79	115.3		<del>-</del>	<del>-</del>
Day Hagan/ND Research Smart Sector	SSUS	0.79	114.7	·····	<del>-</del>	<del>-</del>
Invesco NASDAQ Next Gen 100	QQQJ	0.15	114.3	·····	<del>-</del>	<del>-</del>
JPMorgan Equity Premium Income	JEPI	0.35	110.0	······	<del>.</del>	<del>-</del>
6 Meridian Mega Cap Equity	SIXA	0.82	103.4	-	-	-
U.S. EQUITY: LARGE CAP GROWTH						
Vanguard Mega Cap Growth	MGK	0.07	9,321.9	23.62	19.54	17.31
iShares Mstar Large-Cap Growth	JKE	0.25	1,746.8	22.04	19.77	16.62
Vanguard Growth	VUG	0.04	60,345.3	21.97	18.64	16.48
iShares Russell Top 200 Growth	IWY	0.20	3,128.5	21.59	19.54	18.05
Schwab US Large-Cap Growth	SCHG	0.04	11,978.9	21.09	19.16	16.82
Vanguard Russell 1000 Growth	VONG	0.08	4,762.7	20.35	18.76	17.26
iShares Russell 1000 Growth	IWF	0.19	57,428.1	19.97	18.54	17.10
Nuveen ESG Large-Cap Growth	NULG	0.35	349.1	19.55	19.66	- 1404
Invesco Dynamic Large Cap Growth	PWB	0.56	727.3	17.22	14.92	14.84
SPDR Portfolio S&P 500 Growth	SPYG	0.04	9,130.7	17.02	16.55	15.43
iShares S&P 500 Growth	IVW	0.18	29,225.6	16.96	16.46	15.38
Vanguard S&P 500 Growth	V00G	0.10	4,282.4	16.89	16.45	15.38
First Trust Large Cap Growth AlphaDEX	FTC	0.61	993.6	13.72	12.05	11.77
Invesco S&P 500 Pure Growth	RPG	0.35	2,430.5	10.39	11.10	11.61
SoFi Select 500	SFY	0.00	112.7	7.98	11 07	1204
Invesco S&P 500 GARP	SPGP	0.34	192.8	-3.83	11.87	12.94
U.S. EQUITY: LARGE CAP VALUE	EVA1	0.00	215 5	0.00	0.00	
Fidelity Value Factor	FVAL	0.29	215.5	-6.62	6.06	7.00
Vanguard Value	VTV	0.04	50,493.2	-12.39	3.09	7.26
Schwab US Large-Cap Value	SCHV	0.04	6,581.8	-12.42	2.20	6.62
Vanguard Mega Cap Value	MGV	0.07	2,865.5	-12.48	3.46	7.50
Vanguard Russell 1000 Value	VONV	0.08	2,700.4	-12.63	1.92	5.73
Nuveen ESG Large-Cap Value	NULV	0.35	534.6	-12.65	3.08	
iShares Russell 1000 Value	IWD	0.19	35,373.0	-12.69	1.82	5.68
SPDR Portfolio S&P 500 Value	SPYV	0.04	5,661.3	-13.01	3.30	6.95
iShares Russell Top 200 Value	IWX	0.20	769.4	-13.10	2.27	5.83
Vanguard S&P 500 Value	V00V	0.10	1,247.8	-13.19	3.01	6.77
iShares S&P 500 Value	IVE	0.18	15,339.5	-13.27	2.95	6.72
First Trust Large Cap Value AlphaDEX	FTA	0.60	628.7	-15.31	-0.89	5.20
iShares Mstar Large-Cap Value	JKF	0.25	441.9	-16.06	1.13	5.89
Invesco Dynamic Large Cap Value	PWV	0.56	604.9	-17.83	-2.02	4.61
Invesco S&P 500 Pure Value	RPV	0.35	623.7	-26.02	-4.79	1.72
U.S. EQUITY: MID CAP	VAAAAO	0.24	701.1	10.00	10.07	17.40
Invesco S&P Midcap Momentum	XMM0	0.34	731.1	10.80	19.37	17.48
Vanguard Mid-Cap	VO IMB	0.04	35,280.2	0.12	7.45	9.05
iShares Russell Mid-Cap	IWR	0.19	20,783.7	-1.84	6.65	8.80
John Hancock Multifactor Mid Cap	JHMM	0.42	1,568.3	-2.34	6.17	8.90
iShares Mstar Mid-Cap	JKG	0.25	650.4	-4.48	5.23	7.75
Schwab US Mid-Cap	SCHM	0.04	6,512.3	-5.51	4.78	7.98
First Trust Mid Cap Core AlphaDEX	FNX	0.61	591.4	-6.24	3.22	7.15

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
/anguard S&P Mid-Cap 400	IV00	0.10	844.7	-6.63	2.80	7.30
Shares Core S&P Mid-Cap	IJН	0.05	44,353.3	-6.64	2.84	7.34
SPDR S&P Midcap 400 Trust	MDY	0.23	14,892.6	-6.71	2.66	7.14
PDR Portfolio S&P 400 Mid Cap	SPMD	0.05	2,638.3	-6.74	2.71	6.89
PMorgan Diversified Ret US Mid Cap	JPME	0.24	221.4	-7.17	3.41	
roShares S&P MidCap 400 Div Aristocrats	REGL	0.41	701.2	-7.43	2.98	8.13
acer Trendpilot US Mid Cap	PTMC	0.60	385.7	-9.11	-1.64	4.54
ivesco Zacks Mid-Cap	CZA	0.69	210.5	-12.88	2.53	7.53
rvesco S&P MidCap 400 Revenue	RWK	0.39	202.2	-13.62	-0.23	4.39
VisdomTree US MidCap	EZM	0.38	516.6	-14.88	-0.82	4.61
VisdomTree US MidCap Dividend	DON	0.38	2,331.9	-20.68	-1.83	4.02
nvesco S&P MidCap Low Volatility	XMLV	0.25	1,694.8	-20.91	-0.15	6.10
PMorgan BetaBuilders US Mid Cap	BBMC	0.07	1,001.9	-	-	-
J.S. EQUITY: MID CAP GROWTH						
Shares Mstar Mid-Cap Growth	JKH	0.30	1,171.3	22.51	18.47	15.76
luveen ESG Mid-Cap Growth	NUMG	0.40	197.3	21.45	16.88	<del>-</del>
Shares Russell Mid-Cap Growth	IWP	0.24	13,354.9	13.93	14.97	13.93
anguard Mid-Cap Growth	VOT	0.07	8,537.6	13.19	13.71	12.64
ovesco S&P MidCap 400 Pure Growth	RFG	0.35	331.6	12.33	5.20	6.57
irst Trust Mid Cap Growth AlphaDEX	FNY	0.70	396.5	11.82	12.17	13.00
anguard S&P Mid-Cap 400 Growth	IVOG	0.15	688.4	2.53	6.18	9.16
Shares S&P Mid-Cap 400 Growth	IJK	0.17	6,763.4	2.50	6.16	9.15
PDR S&P 400 Mid Cap Growth	MDYG	0.15	1,340.7	2.36	6.16	9.15
I.S. EQUITY: MID CAP VALUE						
Shares Russell Mid-Cap Value	IWS	0.24	9,806.9	-12.21	0.67	5.10
anguard Mid-Cap Value	V0E	0.07	9,061.9	-12.70	0.99	5.23
luveen ESG Mid-Cap Value	NUMV	0.40	119.3	-15.06	0.69	<del>-</del>
PDR S&P 400 Mid Cap Value	MDYV	0.15	910.5	-16.58	-1.19	4.71
anguard S&P Mid-Cap 400 Value	IVOV	0.15	438.8	-16.67	-1.25	4.71
Shares S&P Mid-Cap 400 Value	LJJ 	0.18	4,437.2	-16.71	-1.32	4.64
Shares Mstar Mid-Cap Value	JKI	0.30	326.4	-19.53	-1.90	4.33
I.S. EQUITY: SMALL CAP					=	
nvesco DWA SmallCap Momentum	DWAS	0.60	247.3	4.05	7.42	9.47
nvesco S&P SmallCap Momentum	XSM0	0.39	101.8	1.71	9.26	10.73
luveen ESG Small-Cap	NUSC	0.40	367.7	-1.35	5.29	
anguard Small-Cap	VB	0.05	29,332.6	-4.27	4.59	8.22
Shares ESG Aware MSCI USA Small-Cap	ESML	0.17	359.5	-4.95		
anguard Russell 2000	VTW0	0.10	1,916.6	-6.48	2.34	7.36
Shares Russell 2000	IWM	0.19	41,318.3	-6.57	2.21	7.31
chwab US Small-Cap	SCHA	0.04	10,071.2	-6.70	2.39	6.97
oldman Sachs ActiveBeta US Small Cap	GSSC	0.20	161.3	-8.12	1.54	····· <del>-</del>
?Shares US Small-Cap Quality Dividend	OUSM	0.48	102.3	-8.25	2.48	
irst Trust Small Cap Core AlphaDEX	FYX	0.63	443.3	-8.58	0.73	6.10
ictoryShares USA Small Cap Val Momtm	USVM	0.24	249.2	-8.97	0.43	
nvesco S&P SmallCap 600 Revenue	RWJ	0.39	218.1	-9.00	-1.85	3.49
ohn Hancock Multifactor Small Cap	JHSC	0.42	483.6	-9.68		<del>.</del>
PMorgan Diversified Return US Small Cap	JPSE	0.29	150.8	-10.17	1.25	
Shares MSCI USA Small-Cap Multifactor	SMLF	0.30	541.1	-10.70	0.53	6.25
rincipal US Small-Cap Multi-Factor	PSC	0.38	649.8	-11.99	-1.08	
anguard S&P Small-Cap 600	VIOO	0.10	947.4	-12.80	0.22	6.50
PDR Portfolio S&P 600 Small Cap	SPSM	0.05	2,523.4	-12.89	0.09	6.05
PDR S&P 600 Small Cap	SLY	0.15	1,032.8	-13.03	0.13	6.42
hares Core S&P Small-Cap	IJR	0.06	42,267.8	-13.04	0.21	6.50
isdomTree US SmCap Qual Div Growth	DGRS	0.38	101.5	-14.10	-0.46	5.26
Shares Mstar Small-Cap	JKJ	0.25	185.2	-14.51	-0.07	5.12
chwab Fundamental US Small Company	FNDA	0.25	2,927.5	-14.97	-1.09	4.62
Shares MSCI USA SmCap Min Vol Factor	SMMV	0.20	821.3	-15.86	2.79	<del>-</del>
Chaikin US Small Cap	CSML	0.35	134.2	-16.69	-5.64	
roShares Russell 2000 Dividend Growers	SMDV	0.41	552.7	-18.80	-2.15	5.80
/isdomTree US SmallCap	EES	0.38	374.1	-19.10	-3.18	4.71
		0.12	188.4	-21.80	-2.87	4.10
	SMLV	0.12		• · · · · · · · · · · · · · · · · · · ·	***************************************	*
SPDR SSGA US Small Cap Low Volatility VisdomTree US SmallCap Dividend nvesco S&P SmallCap Low Volatility	DES XSLV	0.38	1,305.4 1,380.5	-22.86 -31.57	-5.65 -7.35	2.39 2.35

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
U.S. EQUITY: SMALL CAP GROWTH						
MFAM Small-Cap Growth	MFMS	0.85	113.8	25.40	-	
Shares Mstar Small-Cap Growth	JKK	0.30	285.9	15.27	12.02	13.05
Vanguard Small-Cap Growth	VBK	0.07	11,578.4	9.48	12.30	12.86
Shares Russell 2000 Growth	IW0	0.24	9,321.9	4.72	7.88	10.43
Vanguard Russell 2000 Growth	VTWG	0.15	372.8	4.71	7.90	10.40
First Trust Small Cap Growth AlphaDEX	FYC	0.70	162.1	0.99	4.39	9.03
Vanguard S&P Small-Cap 600 Growth	VIOG	0.16	403.4	-6.23	3.64	8.27
SPDR S&P 600 Small Cap Growth	SLYG	0.15	1,548.6	-6.44	3.60	8.27
Shares S&P Small-Cap 600 Growth	IJT	0.18	4,179.3	-6.60	3.47	8.19
Invesco S&P SmallCap 600 Pure Growth	RZG	0.35	103.7	-8.94	-0.69	5.30
U.S. EQUITY: SMALL CAP VALUE						
Vanguard Small-Cap Value	VBR	0.07	13,651.1	-15.58	-1.94	4.12
Avantis US Small Cap Value	AVUV	0.25	379.8	-16.51	-	
Vanguard Russell 2000 Value	VTWV	0.15	345.8	-18.53	-4.10	3.68
Shares Russell 2000 Value	IWN	0.24	8,190.0	-18.60	-4.15	3.65
SPDR S&P 600 Small Cap Value	SLYV	0.15	2,087.1	-19.75	-2.28	4.38
/anguard S&P Small-Cap 600 Value	VIOV	0.15	498.9	-19.90	-3.54	4.34
Shares S&P Small-Cap 600 Value	IJS	0.18	4,921.6	-19.91	-3.61	4.25
Shares Mstar Small Cap Value	JKL	0.30	258.4	-21.96	-6.94	0.72
nvesco S&P SmallCap 600 Pure Value	RZV	0.35	111.5	-25.21	-8.74	-1.06
J.S. EQUITY: MICRO CAP		0.00	111.0		U./ T	1.00
Shares Micro-Cap	IWC	0.60	744.7	-6.78	0.27	5.81
First Trust Dow Jones Select MicroCap	FDM	0.60	105.0	-23.97	-5.31	4.14
J.S. EQUITY: BASIC MATERIALS	1 01111	0.00	100.0	20.07	0.01	7.1
Materials Select Sector SPDR	XLB	0.13	4,124.3	4.66	4.47	9.13
nvesco S&P 500 Equal Weight Materials	RTM	0.40	202.5	4.34	5.29	10.1
/anguard Materials	VAW	0.10	1,820.0	2.20	2.38	8.5
Fidelity MSCI Materials	FMAT	0.10	1,020.0	2.02	2.26	8.43
	IYM	0.43		• • • • • • • • • • • • • • • • • • • •		7.68
Shares US Basic Materials	******		647.2	0.73	1.10	
First Trust Materials AlphaDEX	FXZ XME	0.65	118.2	-1.75	-0.90	7.0
SPDR S&P Metals & Mining	VIAIE	0.35	575.0	-15.49	-6.33	9.2
J.S. EQUITY: CONSUMER CYCLICALS	ONLN	0.50	720 5	70.00		
ProShares Online Retail	ONLN	0.58	738.5	76.26	·····	
ProShares Long Online/Short Stores	CLIX	0.65	258.8	74.35	-	
Amplify Online Retail	IBUY	0.65	1,017.2	72.79	33.34	
Fidelity MSCI Consumer Discretionary	FDIS	0.08	1,029.6	25.97	19.58	15.08
Vanguard Consumer Discretionary	VCR	0.10	3,805.8	23.51	18.21	14.32
VanEck Vectors Retail	RTH	0.35	179.6	20.08	22.35	15.10
Shares US Home Construction	ITB	0.42	2,175.1	17.66	9.97	14.42
SPDR S&P Homebuilders	XHB	0.35	1,409.5	15.19	9.06	8.7
Consumer Discr Select Sector SPDR	XLY	0.13	15,752.6	15.06	17.34	13.6
SPDR S&P Retail	XRT	0.35	363.9	9.55	9.73	3.20
Shares US Consumer Services	IYC	0.43	1,059.2	6.91	14.66	11.40
First Trust Consumer Discr AlphaDEX	FXD	0.64	1,100.0	-5.95	4.14	4.4
nvesco S&P 500 Equal Weight Cons Discr	RCD	0.40	283.9	-6.97	5.58	4.1
nvesco Dynamic Leisure/Entertainment	PEJ	0.63	257.9	-33.25	-10.00	-4.2
J.S. EQUITY: CONSUMER NON-CYCLICALS						
Shares US Consumer Goods	IYK	0.43	624.1	10.32	8.72	8.18
nvesco DWA Cons Staples Momentum	PSL	0.60	110.2	4.88	8.35	7.3
Fidelity MSCI Consumer Staples	FSTA	0.08	817.8	0.99	8.18	7.20
Consumer Staples Select Sector SPDR	XLP	0.13	13,317.6	0.82	8.43	7.39
/anguard Consumer Staples	VDC	0.10	5,355.8	0.74	8.07	7.1
First Trust Consumer Staples AlphaDEX	FXG	0.64	246.5	-4.00	3.27	3.28
nvesco S&P 500 Equal Wt Cons Staples	RHS	0.40	476.4	-4.05	6.63	6.43
J.S. EQUITY: ENERGY		-				
First Trust North Am Energy Infrastructure	EMLP	0.96	1,704.0	-19.72	-2.98	1.02
Tortoise North American Pipeline	TPYP	0.40	280.4	-32.15	-8.48	-2.13
Global X MLP & Energy Infrastructure	MLPX	0.45	451.0	-34.99	-11.74	-7.5
	•				•••••	• • • • • • • • • • • • • • • • • • • •
Barclays ETN + Select MLP ETN	ATMP	0.95	133.5	-43.00	-17.22	-10.20
PMorgan Alerian MLP ETN	AMJ MLDD	0.85	1,362.0	-43.77	-18.77	-12.89
ETRACS Alerian MLP Infrastr ETN Ser B	MLPB	0.85	141.2	-44.96	-21.40	-14.70
Alerian MLP	AMLP	0.87	3,243.2	-46.56	-20.23	-13.85
Global X MLP	MLPA	0.46	596.3	-47.34	-19.90	-12.99
Energy Select Sector SPDR	XLE	0.13	8,739.4	-49.55	-20.95	-12.14

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
iShares US Energy	IYE	0.42	358.7	-49.99	-21.89	-13.40
Fidelity MSCI Energy	FENY	0.08	384.7	-50.24	-22.41	-13.69
Vanguard Energy	VDE	0.10	2,308.9	-50.33	-22.40	-13.47
iShares US Oil & Gas Expl & Production	IE0	0.42	118.2	-53.15	-23.12	-15.05
SPDR S&P Oil & Gas Expl/Production	XOP	0.35	1,623.4	-56.05	-32.25	-21.75
InfraCap MLP	AMZA	2.41	100.8	-64.28	-34.11	-24.21
U.S. EQUITY: FINANCIALS						
Shares US Broker-Dealers/Sec Exchanges	IAI	0.42	99.1	-8.37	3.87	10.40
Invesco S&P 500 Equal Weight Financials	RYF	0.40	143.1	-15.34	-0.41	6.93
First Trust Financials AlphaDEX	FX0	0.63	491.2	-16.25	-1.00	5.04
Invesco KBW Property & Casualty Ins	KBWP	0.35	175.4	-17.87	1.09	5.89
Shares US Financials	IYF	0.42	1,185.3	-18.00	0.84	6.39
SPDR S&P Insurance	KIE	0.35	321.2	-18.39	-0.62	5.61
iShares US Financial Services	IYG	0.42	968.4	-20.06	0.65	7.39
Financial Select Sector SPDR	XLF	0.13	17,098.0	-20.84	-1.46	6.22
Vanguard Financials	VFH	0.10	5,842.0	-21.24	-1.99	5.98
Fidelity MSCI Financials	FNCL	0.08	701.0	-21.29	-1.98	5.98
VanEck Vectors BDC Income	BIZD	10.24	200.1	-25.50	-3.13	2.77
Shares US Regional Banks	IAT	0.42	242.7	-26.20	-6.03	3.46
SPDR S&P Regional Banking	KRE	0.42	1,223.3	-27.14	-8.02	1.44
SPDR S&P Bank	KBE	0.35	1,533.8	-28.12	-7.89	1.32
nvesco KBW Bank	KBWB	0.35	700.5	-30.36	-6.53	3.40
Invesco KBW High Div Yield Financial	KBWD	1.58	226.0	-33.74	-9.35	-1.32
U.S. EQUITY: HEALTH CARE	NOWD	1.50	220.0	-00.74	-5.55	-1.52
nvesco DWA Healthcare Momentum	PTH	0.60	543.6	42.60	25.34	19.94
Principal Healthcare Innovators	BTEC	0.42	106.7	25.03	17.15	13.34
SPDR S&P Biotech	XBI	0.42	5,458.2	18.68	10.61	11.34
	XHE				***************************************	***************************************
SPDR S&P Health Care Equipment		0.35	598.5	13.71	15.27	18.53
First Trust Health Care AlphaDEX	FXH	0.62	1,311.0	13.28	12.10	9.84
Shares US Medical Devices	IHI	0.42	8,199.4	12.97	20.37	20.74
Shares NASDAQ Biotechnology	IBB	0.46	8,951.4	8.61	7.89	4.01
nvesco S&P 500 Equal Weight Health Care	RYH	0.40	697.9	5.00	10.23	9.66
idelity MSCI Health Care	FHLC	0.08	2,043.3	4.42	11.24	10.26
Vanguard Health Care	VHT	0.10	11,192.1	4.34	11.17	10.28
nvesco S&P SmallCap Health Care	PSCH	0.29	388.5	3.44	13.46	14.90
ALPS Medical Breakthroughs	SBI0	0.50	213.1	3.26	14.62	9.00
Shares US Healthcare	IYH	0.43	2,214.7	2.87	10.42	9.63
First Trust NYSE Arca Biotechnology	FBT	0.55	1,887.9	2.71	8.06	7.93
Invesco Dynamic Biotech/Genome	PBE	0.58	222.5	1.31	6.67	2.83
Health Care Select Sector SPDR	XLV	0.13	22,456.5	1.15	9.84	9.23
Shares US Healthcare Providers	IHF	0.42	914.9	0.55	12.31	11.34
Shares US Pharmaceuticals	IHE	0.42	345.5	0.43	3.19	1.90
SPDR S&P Pharmaceuticals	XPH	0.35	222.5	-2.93	3.54	-0.12
nvesco Dynamic Pharmaceuticals	PJP	0.56	312.2	-3.73	0.61	-0.77
U.S. EQUITY: INDUSTRIALS						
nvesco Dynamic Building & Construction	PKB	0.59	138.1	7.24	2.71	8.41
Shares Transportation Average	IYT	0.42	1,167.6	1.62	5.17	7.41
nvesco S&P 500 Equal Weight Industrials	RGI	0.40	362.1	0.18	7.30	11.01
Shares US Industrials	IYJ	0.42	941.5	-0.92	6.54	10.89
First Trust Nasdaq Transportation	FTXR	0.60	641.3	-4.05	0.31	-
Fidelity MSCI Industrials	FIDU	0.08	414.5	-4.52	4.26	9.28
ndustrial Select Sector SPDR	XLI	0.13	12,273.1	-5.32	4.09	9.17
/anguard Industrials	VIS	0.10	3,108.7	-5.76	3.71	8.68
irst Trust Industr/Producer Dur AlphaDEX	FXR	0.63	234.1	-7.53	3.82	9.26
SPDR S&P Transportation	XTN	0.35	286.0	-8.25	0.11	5.68
nvesco Aerospace & Defense	PPA	0.59	598.0	-20.32	1.85	9.91
SPDR S&P Aerospace & Defense	XAR	0.35	968.0	-21.29	2.46	10.87
Shares US Aerospace & Defense	ITA	0.42	2,366.5	-31.28	-4.57	6.28
J.S. EQUITY: TECHNOLOGY						
NisdomTree Cloud Computing	WCLD	0.45	895.7	64.50	-	-
SPDR FactSet Innovative Technology	XITK	0.45	277.6	49.79	30.05	-
	PNQI	0.60	944.3	44.82	21.59	21.01
nvesco NASDAQ Internet	rivui					
						******************
Invesco NASDAQ Internet Invesco DWA Technology Momentum SPDR S&P NYSE Technology	PTF XNTK	0.60 0.35	262.4 504.7	42.32 41.24	27.02 22.69	21.72 23.45

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
iShares Expanded Tech-Software Sector	IGV	0.46	5,187.1	31.52	25.19	24.59
iShares US Technology	IYW	0.43	5,987.2	26.72	22.94	22.97
First Trust Cloud Computing	SKYY	0.60	4,903.4	26.33	20.86	20.77
SPDR S&P Semiconductor	XSD	0.35	579.8	25.59	24.11	26.44
iShares Expanded Tech Sector	IGM	0.46	2,742.9	24.70	22.32	22.74
First Trust Technology AlphaDEX	FXL	0.61	2,179.1	24.08	21.02	22.20
Invesco Dynamic Software	PSJ	0.56	519.1	24.04	23.47	23.34
VanEck Vectors Semiconductor	SMH	0.35	2,796.5	23.72	21.79	28.37
iShares PHLX Semiconductor	SOXX	0.46	3,673.2	22.80	22.48	29.40
Fidelity MSCI Information Technology	FTEC	0.08	4,477.1	22.74	22.54	22.78
Vanguard Information Technology	VGT	0.10	35,886.2	22.73	23.66	23.45
Technology Select Sector SPDR	XLK	0.13	33,494.5	22.17	22.44	22.35
Invesco Dynamic Semiconductors	PSI	0.57	280.9	19.89	14.72	26.66
SPDR S&P Software & Services	XSW	0.35	264.0	16.63	20.15	19.17
First Trust NASDAQ-100 Technology Sector	QTEC	0.57	2,883.7	16.53	17.72	22.93
HCM Defender 100	QQH	1.25	123.7	14.60	-	-
ProShares S&P Tech Dividend Aristocrats	TDV	0.46	104.0	6.50	-	4.83
Invesco S&P 500 Equal Weight Technology	RYT	0.40	1,822.9	6.20	14.70	18.74
Invesco S&P SmallCap Information Tech	PSCT	0.29	236.2	-6.41	3.73	11.91
Direxion Work From Home	WFH	0.45	136.7	-	-	-
U.S. EQUITY: TELECOMMUNICATIONS						
Communication Svcs Select Sector SPDR	XLC	0.13	10,315.9	11.16	-	-
Vanguard Communication Services	VOX	0.10	2,683.4	10.04	6.55	6.05
Fidelity MSCI Communication Services	FCOM	0.08	552.2	9.60	10.70	10.66
iShares US Telecommunications	IYZ	0.42	351.4	-8.83	-1.60	0.22
U.S. EQUITY: UTILITIES						
Utilities Select Sector SPDR	XLU	0.13	11,774.7	-0.79	7.79	11.03
First Trust Utilities AlphaDEX	FXU	0.63	203.8	-2.99	3.34	6.66
Vanguard Utilities	VPU	0.10	4,363.1	-3.02	6.96	10.82
Fidelity MSCI Utilities	FUTY	0.08	1,104.0	-3.30	6.84	10.70
iShares US Utilities	IDU	0.43	840.1	-3.35	6.41	10.20
Invesco S&P 500 Equal Weight Utilities	RYU	0.40	245.1	-4.40	7.05	9.50
U.S. EQUITY: REAL ESTATE						
Pacer Benchmark Data & Infrastr Real Est	SRVR	0.60	1,063.3	6.06	_	_
Pacer Benchmark Industrial Real Estate	INDS	0.60	113.1	1.77		
Real Estate Select Sector SPDR	XLRE	0.13	2,047.1	-9.75	5.13	5.61
iShares Cohen & Steers REIT	ICF	0.34	1,775.6	-14.04	2.52	3.50
iShares US Real Estate	IYR	0.42	4,053.6	-14.89	2.28	4.28
Vanguard Real Estate	VNQ	0.12	27,688.6	-15.39	1.66	3.39
		0.12		-15.54	2.05	4.24
Fidelity MSCI Real Estate iShares Residential/Multisector Real Est	FREL REZ	0.48	1,042.6 355.0	-17.92	1.93	3.84
JPMorgan BetaBuilders MSCI US REIT	BBRE	0.40	797.6	-19.29	1.33	3.04
				• • • • • • • • • • • • • • • • • • • •	0.46	2 17
iShares Core US REIT PPTY-U.S. Diversified Real Estate	USRT PPTY	0.08 0.49	1,386.0	-19.78 -22.54	-0.46	2.17
•			98.8		0.51	
SPDR Dow Jones REIT	RWR	0.25	1,184.9	-23.46	-2.51	0.09
Schwab US REIT	SCHH	0.07	4,131.2	-24.10	-2.69	0.04
iShares Mortgage Real Estate	REM	0.48	1,053.0	-37.16	-8.76	0.73
VanEck Vectors Mortgage REIT Income	MORT	0.41	177.4	-37.96	-9.50	0.73
Invesco KBW Premium Yield Equity REIT	KBWY	0.35	163.0	-41.54	-16.76	-5.10
U.S. EQUITY: HIGH DIVIDEND YIELD	00110	0.00	10.001.0	4.00	0.01	10.00
Schwab US Dividend Equity	SCHD	0.06	12,901.9	-1.33	8.01	10.63
First Trust Value Line Dividend	FVD	0.70	8,826.7	-10.99	3.81	7.77
SPDR S&P Dividend	SDY	0.35	15,865.6	-11.98	3.61	7.75
Vanguard High Dividend Yield	VYM	0.06	26,281.0	-12.87	2.09	6.57
First Trust Mstar Dividend Leaders	FDL	0.45	1,227.5	-17.19	0.72	5.58
WisdomTree US High Dividend	DHS	0.38	676.5	-17.80	-0.78	4.03
iShares Core High Dividend	HDV	0.08	5,096.2	-17.82	0.57	4.42
iShares Select Dividend	DVY	0.39	12,338.3	-18.66	-0.68	5.19
Invesco High Yield Equity Div Achievers	PEY	0.52	617.2	-19.01	-0.89	5.61
Invesco S&P Ultra Dividend Revenue	RDIV	0.39	574.3	-28.74	-3.43	2.48
Global X SuperDividend US	DIV	0.46	413.9	-32.59	-9.63	-3.40
GLOBAL EQUITY						
ARK Innovation	ARKK	0.75	10,193.6	81.40	38.96	37.38
ProShares Pet Care	PAWZ	0.50	146.2	35.99	<u>-</u>	<del>-</del>
AdvisorShares DW FSM All Cap World	DWAW	1.24	101.3	22.20		

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Shares MSCI Global Impact	SDG	0.49	202.3	19.60	11.85	-
ClearBridge All Cap Growth	CACG	0.54	176.1	9.70	13.05	<del>-</del>
irst Trust Dorsey Wright Focus 5	FV	0.87	2,054.3	7.29	8.15	8.49
Davis Select Worldwide	DWLD	0.63	286.9	4.82	3.68	<del>-</del>
Shares Global 100	100	0.40	2,419.5	2.12	8.49	10.21
Shares MSCI ACWI Low Carbon Target	CRBN	0.20	484.2	-0.44	6.00	8.32
Shares MSCI ACWI	ACWI	0.32	12,608.5	-0.57	5.79	8.46
/anguard Total World Stock	VT	0.08	14,235.2	-1.11	5.42	8.36
SPDR Portfolio MSCI Global Stock Market	SPGM	0.09	412.6	-1.45	5.36	7.90
Shares MSCI Global Min Vol Factor	ACWV	0.20	5,590.6	-5.67	5.10	7.35
First Trust Dorsey Wright Dynamic Focus 5	FVC	0.71	208.2	-5.98	1.57	-
Principal Active Global Dividend Income	GDVD	0.58	277.2	-6.85	3.74	-
nspire Global Hope	BLES	0.52	102.7	-9.11	1.72	-
GLOBAL EQUITY EX-U.S.						
irst Trust Intl Equity Opportunities	FPXI	0.70	425.0	39.94	17.98	16.61
Davis Select International	DINT	0.68	238.1	8.39	-	-
American Century Quality Diversified Intl	QINT	0.39	106.3	0.64	-	-
VisdomTree Glb ex-US Qual Div Growth	DNL	0.58	228.5	0.26	6.06	9.40
/anguard Intl Dividend Appreciation	VIGI	0.20	2,469.3	-1.55	4.73	-
/anguard ESG International Stock	VSGX	0.17	1,286.5	-3.84	-	
anguard FTSE All-World ex-US	VEU	0.08	24,545.5	-6.66	0.07	4.64
Shares Core MSCI Total International	IXUS	0.09	20,795.7	-6.84	-0.11	4.67
/anguard Total International Stock	VXUS	0.08	28,495.2	-7.15	-0.22	4.52
Shares MSCI ACWI ex US	ACWX	0.32	3,187.0	-7.21	-0.33	4.28
/anguard FTSE All-World ex-US Small-Cap	VSS	0.11	4,843.0	-7.50	-1.64	4.32
SPDR MSCI ACWI ex-US	CWI	0.30	1,253.6	-7.56	-0.19	4.43
irst Trust Dorsey Wright Intl Focus 5	IFV	1.06	217.5	-12.16	-2.98	1.98
TexShares International Quality Dividend	IQDF	0.47	454.6	-14.19	-4.12	1.81
Avantis International Small Cap Value	AVDV	0.36	283.0	-16.73		-
ident International Equity	VIDI	0.59	397.2	-18.24	-7.24	1.63
nvesco International Dividend Achievers	PID	0.53	457.4	-23.31	-3.74	-0.05
NTERNATIONAL EQUITY: BLENDED DEVE		0.00		20.02	0., .	0.00
ClearBridge Large Cap Growth ESG	LRGE	0.59	112.2	15.20	18.01	_
Shares Asia 50	AIA	0.50	1,999.3	12.98	6.95	12.76
Shares MSCI All Country Asia ex Japan	AAXJ	0.68	4,605.5	7.36	3.46	8.94
idelity Blue Chip Growth	FBCG	0.59	106.5		- 0.40	- 0.54
NTERNATIONAL EQUITY: DEVELOPED	ibou	0.55	100.5			
BlueStar Israel Technology	ITEQ	0.75	131.7	29.73	20.26	
Shares MSCI Denmark	EDEN	0.53	141.4	20.47	8.51	11.08
Shares MSCI Intl Momentum Factor	IMTM	0.30	578.1	5.78	4.10	7.20
nvesco S&P Intl Developed Momentum	IDMO	0.26	302.1	5.07	4.23	4.53
nvesco DWA Dev Markets Momentum		***************************************		• · · · · · · · · · · · · · · · · · · ·	******************	***********
Shares MSCI New Zealand	PIZ ENZL	0.81	155.6	3.94 3.50	4.12	6.56
		***************************************	162.0	• • • • • • • • • • • • • • • • • • • •	12.78	14.37
Shares MSCI Sweden	EWD	0.55	297.3	3.00	1.72	5.74
Shares MSCI Netherlands	EWN	0.50	221.8	0.90	4.42	8.61
(nowledge Leaders Developed World	KLDW	0.75	152.2	0.73	4.88	8.86
Shares MSCI EAFE Growth	EFG	0.40	8,523.2	0.42	4.50	6.49
TexShares STOXX Global ESG Impact	ESGG	0.42	112.8	-0.34	6.79	
ranklin FTSE Japan	FLIP	0.09	453.4	-0.36	-	
VisdomTree Intl Qual Div Growth	IQDG	0.42	139.8	-0.81	2.95	
PMorgan BetaBuilders Japan	BBJP	0.19	5,407.6	-0.90	-	
Shares MSCI Japan	EWJ	0.49	10,433.4	-0.90	1.48	5.16
Shares MSCI World	URTH	0.24	994.5	-1.29	6.20	8.50
nvesco S&P Intl Developed Quality	IDHQ	0.29	100.9	-1.43	4.16	6.78
Shares MSCI Kokusai	TOK	0.25	152.6	-1.47	6.79	8.69
VisdomTree Intl Hedged Qual Div Growth	IHDG	0.58	775.7	-1.91	4.90	7.41
anguard FTSE Pacific	VPL	0.08	3,687.0	-2.46	0.81	5.85
Shares MSCI Switzerland	EWL	0.50	1,641.5	-2.65	6.23	6.45
Shares Core MSCI Pacific	IPAC	0.09	965.7	-3.64	1.45	5.98
trackers MSCI Japan Hedged Equity	DBJP	0.45	187.3	-3.66	0.47	3.24
Shares Currency Hedged MSCI Japan	HEWJ	0.49	248.3	-4.17	0.33	3.25
Shares MSCI Intl Quality Factor	IQLT	0.30	2,039.8	-5.31	3.27	5.52
ProShares MSCI EAFE Dividend Growers	EFAD	0.51	115.1	-5.58	2.10	2.68
NisdomTree Japan SmallCap Dividend	DFJ	0.58	244.7	-6.19	-2.27	5.99

Shares MSCI Saudi Arabia	FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Shares MSCI EAFE Small-Cop  Shares MSCI EAFE Small-Cop  First Triast fiver-front byn Developed Inti  RFDI 0.83 1320 7.71 -3.02 7.71 -3.02 1.15 1.15 1.15 1.15 1.15 1.15 1.15 1.1	Nationwide Risk-Based International						-
riist Trust RiverFront Dyn Developed Intl PREDI	iShares MSCI Saudi Arabia	KSA	0.74	487.9	-6.86	6.62	5.00
Investoo FTSE RAFI DM ex-US Small-Midd PDN 0.49 310.4 -7.73 -2.13 4.15 Shares MSCI Intl Small-Cap Multifactor SCF 0.40 129.4 -7.39 -0.60 5.20 Cardiana ESC International Equity 10SI 0.15 102.4 -7.39 -0.60 5.20 Fidelity Dividend for Rising Rates FDRR 0.29 27.22 -8.12 5.88 -5.20 FDM MSCI EAFE Tossi Fluel Reserves Free FFAX 0.20 121.5 -8.40 -0.55 5.20 5.20 5.20 5.20 5.20 5.20 5.20	iShares MSCI EAFE Small-Cap	SCZ	0.40	9,243.5	-7.63	-0.60	5.37
Silares MSCI Intl Small-Cap Multifactor   SCF   0.40   1294   7.91   -0.60   5.82	First Trust RiverFront Dyn Developed Intl			132.0	-7.71	-3.02	- -
Q Candriam ESG International Equity         IOSI         0.15         102.4         -7.94	Invesco FTSE RAFI DM ex-US Small-Mid			*******************************	• • • • • • • • • • • • • • • • • • • •	-2.13	*************
Findelity Dividend for Rising Rates  FDRR NO.29  FDR NSCI EAFE Fossi Frue Reserves Free  FEAX  CAD  121.5  8.40  -0.56  -3.373  Ada 20.24  FEAX  CAD  121.5  8.40  -0.56  -3.373  Ada 20.24  FEAX  CAD  121.5  8.40  -0.56  -3.373  Ada 20.24  FEAX  CAD  CAD  SPDR POrtfolio Developed World ex-US  SPDW  CAD  CAD  CAD  CAD  CAD  CAD  CAD  C	iShares MSCI Intl Small-Cap Multifactor			*		-0.60	5.82
SPOR MSCI EAFE Fossil Fuel Reserves Free EFAX 0.20 121.5				•	• • • • • • • • • • • • • • • • • • • •		<del>-</del>
Shares MSCI Israel  FISS 0.59 114.6 -8.50 3.46 2.44  FORD PRITIOID Developed World ex-US SPOW 0.04 7.714.8 -8.74 0.62 3.73  Annaguard FTSE Developed Markets VEA 0.05 73,123.4 -9.11 -0.87 3.67  Schwab International Equity SCHF 0.06 18,999.1 -9.12 0.87 3.61  Schwab International Equity DV 0.04 8.1,892.1 -9.12 0.87 3.61  Schwab International Equity DV 0.05 3.340.7 -9.34 0.67 1.22  Shares Core MSCI littl Developed Markets DEV 0.05 3.340.7 -9.34 0.67 1.22  Shares Core MSCI littl Developed Markets DEV 0.05 3.340.7 -9.34 0.67 1.22  Shares Core MSCI littl Developed Markets DEV 0.05 3.340.7 -9.34 0.03 3.82  FPMorgan Betabuliders Canadia BBCA 0.19 3.664.7 -9.68 0.35 3.82  FPMorgan Betabuliders Canadia BBCA 0.19 3.664.7 -9.68 0.35 3.82  FPMorgan Betabuliders Highly BBIN 0.07 68,817.1 -9.76 0.90 3.58  Shares MSCI Germany EWG 0.49 2.373.5 -9.68 5.38 1.54  Shares MSCI Hong King EWH 0.49 1.131.1 -9.91 1.20 4.23  0.5 O Prencent Hedgad FTSL International HFOI 0.20 250.0 1.007 0.39 3.73  FMorgan Betabuliders Intelleptivy BBIN 0.70 1.882.2 1.010  FMorgan Betabuliders Intelleptivy BBIN 0.70 1.882.2 1.010				•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	<del>-</del>
SPDR Portfolio Developed World er-US  SPDW  O.04  7,714,8  8,74  -0.62  3,73  3,73  3,73  3,73  3,73  3,73  3,73  3,73  3,73  3,73  3,73  3,73  3,73  3,74				•	• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·	-
Araguard FTSE Developed Markets  VEA  0.05  73,123,4  -8.11  -0.87  3.67  Schwab International Equity  SCHF  0.06  18,999.1  -9.12  -0.87  3.61  Schwab International Equity  SCHC  0.11  2,450.7  -9.21  -1.84  3.68  Nisdomfree Japaan Hedged Equity  DXJ  0.48  1,484.2  -9.33  -3.76  1.22  Schwas Loren MSCI Int ID eveloped Markets  IDEV  0.05  3,340.7  -9.34  -9.34  -0.67  -0.30  3,340.7  -9.34  -9.34  -0.67  -0.31  -0.87  Schwas International Equity  SCHC  0.05  3,340.7  -9.34  -9.34  -0.31  -9.67  -9.60  -9.70  -9.30  3.73  Shares SCHC MSCI EAFE  EFA  0.07  6.68,17.1  -9.60  -9.90  3.73  Shares MSCI Hong Mong  EVH  0.49  1,131.1  -9.91  -1.20  4.22  -1.010  -0.90  3.36  9.60  9.60  9.60  9.60  9.60  9.60  9.60  9.60  9.70  1,882.2  -10.10  -0.90  3.36  9.60  9.70  -0.90  3.36  3.38  Shares MSCI EAFE  EFA  0.07  6.68,17.1  -9.10  -1.82  -1.00  9.70  -0.30  3.73  -1.20  4.32  9.10  9.70  -0.90  3.33  3.73  -1.20  4.32  9.10  9.70  -0.90  3.35  3.73  Shares ESG MSCI EAFE  EFA  0.02  3.06,19  1.882.2  -10.10				•	•	*****************	• • • • • • • • • • • • • • • • • • • •
Schwab International Equity         SCHF         0.06         18,999.1         9,12         0.87         3.61           Schwab International Small-Cap Equity         DXI         0.48         1.484         2.93         1.21         1.24         3.68           Sichamic International Small-Cap Equity         DXI         0.48         1.484         2.93         3.76         1.22           Shares Core MSCI Intl Developed Markets         IDEV         0.05         3,340.7         9.34         0.03           Soldman Sachs ActiveBeta Intl Equity         GSIE         0.25         1,761.4         9.34         0.31				*******************			
Schwab International Small-Cap Equity   DXI	×			***************************************			
WisdomTree Japan Hedged Equity         DXJ         0.48         1,484.2         9.33         3,76         1.22           Shares Core MSCI IntI Developed Markets         IDEV         0.05         3,340.7         9.34         -0.67         -3           SORDIA CORD         GEFA         0.25         1,761.4         9.34         -0.51         -3           SPDR MSCI FAFE Strategic Factors         QEFA         0.30         373.6         -9.48         0.35         3.22           IPMorgan BetaBuilders Canada         BBCA         0.19         3,664.7         -9.60         -         -           Shares MSCI Germany         EWB         0.49         2,373.5         -9.88         -5.38         1.54           Shares MSCI CAFE         IEFA         0.07         68,817.1         -9.76         -0.90         3.58           Shares MSCI CARE         EWB         0.49         1,311.1         -9.91         1.22         4.22           Shares SG MSCI EAFE         ESCD         0.20         3,061.9         -10.18         -0.48         -1.27           Shares SMSCI EAFE         ESCD         0.20         3,061.9         -10.18         -0.48         -1.27         3.00           PMOrgan Diversidined Returbin         JBHM				***************************************	• • • • • • • • • • • • • • • • • • • •	****************	•••••
Shares Core MSCI Intl Developed Markets   DEV   0.05   3,340.7   9,34   0.67				***************************************	• • • • • • • • • • • • • • • • • • • •	*	•••••
Column Sachs ActiveBeta Inti Equity   GSIE   0.25   1.761.4   -9.34   -0.31   -9.49   -0.35   3.82				• · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •		1.22
SPDR MSCI EAFE StrategicFactors   QEFA   0.30   373.6   -9.48   0.35   3.82				• · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	• · · · · · · · · · · · · · · · · · · ·	<del>-</del>
PMorgan BetaBuilders Canada   BBCA   0.19   3,664.7   -9.60   -5.				• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	2 02
Shares MSCI Germany	······			•	•	0.33	3.8∠
Shares KISCH FACE   IEFA   0.07   68.817.1   9.76   -0.90   3.58   Shares KISCH Hong Kong   EWH   0.49   1.131.1   -9.91   -1.20   4.23   0.50 Percent Hedged FTSE International   HFXI   0.20   252.0   -10.07   -0.39   3.73   PMorgan BetaBuilders Int Equity   BBIN   0.07   1.882.2   -10.10	······ā·····			***************************************	•	. E 20	1 5/
Shares MSCI Hong Kong				*******************************			•••••
Q 50 Percent Hedged FTSE International         HFXI         0.20         252.0         -10.07         -0.39         3.73           IPMorgan BetaBuilders Intl Equity         BBIN         0.07         1,882.2         -10.10         -         -           Shares SSC MSCI EAFE         ESGD         0.20         3,061.9         -10.18         -0.84         -           IPMorgan BetaBuilders Dev Asia ex-Japan         BBAX         0.19         1,482.7         -10.43         -1.27         3.00           IPMorgan BetaBuilders Dev Asia ex-Japan         BBAX         0.19         1,482.7         -10.43         -1.26         -				***************************************			• • • • • • • • • • • • • • • • • • • •
PMorgan BetaBuilders Intl Equity   BBIN   0.07   1,882.2   -10.10   -10.18   -0.84   -3.				********************************	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Shares ESG MSCI EAFE         ESGD         0.20         3,061.9         -10.18         -0.84         -           Shares MSCI EAFE         EFA         0.32         44,324.9         -10.34         -1.27         3.00           PMorgan BetaBuilders Dev Asia ex-Japan         BBAX         0.19         1,482.7         -10.43         -         -           Avantis International Equity         AVDE         0.23         345.8         -10.52         -         -           Shares MSCI Carbada         EWC         0.49         2,159.8         -10.55         -0.48         4.40           Shares MSCI Carbe Min Vol Factor         EFAV         0.20         10,043.1         -10.85         -0.48         4.40           Shares MSCI Europe Small-Cap         IEUS         0.40         124.0         -11.24         -1.83         3.97           Shares MSCI Australia         EWA         0.50         1,272.7         -11.38         -0.06         5.55           Ktrackers MSCI EAFE Hedged Equity         DBEF         0.35         3,366.9         -11.74         0.08         3.98           Shares MSCI Pacific ex-Japan         EPP         0.48         1,772.0         -11.87         -0.77         4.83           Schwab Enudamental Intl Small Comp				*	• • • • • • • • • • • • • • • • • • • •	-0.33	J./J -
Shares MSCI EAFE				•	• • • • • • • • • • • • • • • • • • • •	-N 8/I	
PMorgan BetaBuilders Dev Asia ex-Japan   BBAX   0.19				• · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	• · · · · · · · · · · · · · · · · · · ·	3 00
Avantis International Equity AVDE 0.23 3.45.8 -10.52				•	• • • • • • • • • • • • • • • • • • • •	- 1.27	- 5.00
Dehn Hancock Multifactor Developed Intil	······ā······à·····			•	•	-	
Shares MSCI Canada         EWC         0.49         2,159.8         -10.55         -0.48         4.40           Shares MSCI EAFE Min Vol Factor         EFAV         0.20         10,043.1         -10.85         0.08         3.19           IPMorgan Diversified Ret International         JPIN         0.37         876.8         -10.85         -2.42         2.23           Shares MSCI Australia         EWA         0.50         1.272.7         -11.38         -0.06         5.55           Shares MSCI Australia         EWA         0.50         1.272.7         -11.38         -0.06         5.55           Shares MSCI EAFE Hedged MSCI EAFE         HEFA         0.35         3.366.9         -11.74         0.08         3.98           Shares MSCI Pacific ex-Japan         EPP         0.48         1,772.0         -11.87         0.77         4.83           Schwab Fundamental Intl Small Company         FNDC         0.39         1,796.6         -11.99         -3.92         3.75           First Trust DM ex-US AlphaDEX         FDT         0.80         331.6         -12.32         -5.18         2.03           Shares MSCI Intl Multifactor         INITF         0.30         802.8         -12.51         -3.53         2.07           F				***************************************		-2 16	
Shares MSCI EAFE Min Vol Factor         EFAV         0.20         10,043.1         -10.85         0.08         3.19           IPMorgan Diversified Ret International         JPIN         0.37         876.8         -10.85         -2.42         2.23           Shares MSCI Europe Small-Cap         IEUS         0.40         124.0         -11.24         -1.83         3.97           Shares MSCI Australia         EWA         0.50         1,272.7         -11.38         -0.06         5.55           Shares Currency Hedged MSCI EAFE         HEFA         0.35         2,120.3         -11.71         0.03         3.08           Ktrackers MSCI Pacific ex-Japan         EPP         0.48         1,772.0         -11.87         -0.07         4.83           Schwab Fundamental Intl Small Company         FNDC         0.39         1,796.6         -11.99         -3.92         3.75           First Trust DM ex-US AlphaDEX         FDT         0.80         331.6         -12.32         -5.18         2.03           Shares MSCI Intl Multifactor         INTF         0.30         802.8         -12.51         -3.53         2.07           SPDR Portfolio Europe         SPEU         0.09         1.26.8         -13.23         -1.50         1.65				***************************************	• • • • • • • • • • • • • • • • • • • •		4 40
PMorgan Diversified Ret International   JPIN   0.37   876.8   -10.85   -2.42   2.23				***************************************	•		•••••
Shares MSCI Europe Small-Cap         IEUS         0.40         124.0         -11.24         -1.83         3.97           Shares MSCI Australia         EWA         0.50         1,272.7         -11.38         -0.06         5.55           Shares Currency Hedged MSCI EAFE         HEFA         0.35         2,120.3         -11.71         0.13         4.05           Ktrackers MSCI EAFE Hedged Equity         DBEF         0.35         3,366.9         -11.74         0.08         3.98           Shares MSCI Pacific ex-Japan         EPP         0.48         1,772.0         -11.87         -0.77         4.83           Schwab Fundamental Intl Small Company         FNDC         0.39         1,796.6         -11.99         -3.92         3.75           First Trust DM ex-US AlphaDEX         FDT         0.80         331.6         -12.32         -5.18         2.03           Shares MSCI Intl Multifactor         INIT         0.30         802.8         -12.51         -3.53         2.07           Shares MSCI Europe         SPEU         0.09         126.8         -13.24         -5.18         2.03           Franklin FTSE Europe         FLEE         0.09         1.857.8         -13.40         -2.06         3.16           Franklin FTS				***************************************	• • • • • • • • • • • • • • • • • • • •	•	•••••
Shares MSCI Australia         EWA         0.50         1,272.7         -11.38         -0.06         5.55           Shares Currency Hedged MSCI EAFE         HEFA         0.35         2,120.3         -11.71         0.13         4.05           Ktrackers MSCI EAFE Hedged Equity         DBEF         0.35         3,366.9         -11.74         0.08         3.98           Shares MSCI Pacific ex-Japan         EPP         0.48         1,772.0         -11.87         -0.77         4.83           Schwab Fundamental Intl Small Company         FNDC         0.39         1,796.6         -11.99         -3.92         3.75           First Trust DM ex-US AlphaDEX         FDT         0.80         331.6         -12.32         -5.18         2.03           Shares MSCI Intl Multifactor         INTF         0.30         802.8         -12.51         -3.53         2.07           SPDR Portfolio Europe         SPEU         0.09         126.8         -13.23         -15.0         1.65           Hartford Multifactor Dev Mkts (ex-US)         RODM         0.29         1,857.8         -13.40         -2.06         3.16           Franklin FTSE Europe         FLEE         0.09         3,728.9         -13.52         -         -           Share				• · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••
Shares Currency Hedged MSCI EAFE         HEFA         0.35         2,120.3         -11.71         0.13         4.05           Ktrackers MSCI EAFE Hedged Equity         DBEF         0.35         3,366.9         -11.74         0.08         3.98           Shares MSCI Pacific ex-Japan         EPP         0.48         1,772.0         -11.87         -0.77         4.83           Schwab Fundamental Intl Small Company         FNDC         0.39         1,796.6         -11.99         -3.92         3.75           First Trust DM ex-US AlphaDEX         FDT         0.80         331.6         -12.32         -5.18         2.03           Shares MSCI Intl Multifactor         INTF         0.30         802.8         -12.51         -3.53         2.07           SPDR Portfolio Europe         SPEU         0.09         126.8         -13.23         -1.50         1.65           Hartford Multifactor Dev Mkts (ex-US)         RODM         0.29         1,857.8         -13.40         -2.06         3.16           Franklin FTSE Europe         FLEE         0.09         198.5         -13.42         -         -           Shares MSCI Eurozone         EZU         0.49         3,924.8         -13.66         -4.14         1.93           Vanguard	iShares MSCI Australia			•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••
Color				• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·	•••••
Shares MSCI Pacific ex-Japan         EPP         0.48         1,772.0         -11.87         -0.77         4.83           Schwab Fundamental Intl Small Company         FNDC         0.39         1,796.6         -11.99         -3.92         3.75           First Trust DM ex-US AlphaDEX         FDT         0.80         331.6         -12.32         -5.18         2.03           Shares MSCI Intl Multifactor         INTF         0.30         802.8         -12.51         -3.53         2.07           SPDR Portfolio Europe         SPEU         0.09         126.8         -13.23         -1.50         1.65           Hartford Multifactor Dev Mkts (ex-US)         RODM         0.29         1,857.8         -13.40         -2.06         3.16           Franklin FTSE Europe         FLEE         0.09         198.5         -13.42         -         -           IPMorgan BetaBuilders Europe         BBEU         0.09         3,728.9         -13.59         -         -           Shares MSCI Eurozone         EZU         0.49         3,924.8         -13.66         -4.14         1.93           Vanguard FTSE Europe         VGK         0.08         11,699.2         -13.74         -2.39         2.20           Shares Core MSCI Europe				•	•	•	•••••
Schwab Fundamental Intl Small Company         FNDC         0.39         1,796.6         -11.99         -3.92         3.75           First Trust DM ex-US AlphaDEX         FDT         0.80         331.6         -12.32         -5.18         2.03           Shares MSCI Intl Multifactor         INTF         0.30         802.8         -12.51         -3.53         2.07           SPDR Portfolio Europe         SPEU         0.09         126.8         -13.23         -1.50         1.65           Hartford Multifactor Dev Mkts (ex-US)         RODM         0.29         1,857.8         -13.40         -2.06         3.16           Franklin FTSE Europe         FLEE         0.09         198.5         -13.42         -         -           IPMorgan BetaBuilders Europe         BBEU         0.09         3,728.9         -13.59         -         -           Shares MSCI Eurozone         EZU         0.49         3,924.8         -13.66         -4.14         1.93           Vanguard FTSE Europe         VGK         0.08         11,699.2         -13.74         -2.39         2.20           Shares Core MSCI Europe         IEUR         0.09         3,201.5         -13.79         -2.25         2.29           Fidelity High Dividend				***************************************	•		
First Trust DM ex-US AlphaDEX FDT 0.80 331.6 -12.32 -5.18 2.03 Shares MSCI Intl Multifactor INTF 0.30 802.8 -12.51 -3.53 2.07 SPDR Portfolio Europe SPEU 0.09 126.8 -13.23 -1.50 1.65 Hartford Multifactor Dev Mkts (ex-US) RODM 0.29 1,857.8 -13.40 -2.06 3.16 Franklin FTSE Europe FLEE 0.09 198.5 -13.42 IPMorgan BetaBuilders Europe BBEU 0.09 3,728.9 -13.59 Shares MSCI Eurozone EZU 0.49 3,924.8 -13.66 -4.14 1.93 Wanguard FTSE Europe VGK 0.08 11,699.2 -13.74 -2.39 2.20 Shares Core MSCI Europe IEUR 0.09 3,201.5 -13.79 -2.25 2.29 Fidelity High Dividend FDW 0.29 523.6 -14.26 3.44 -4 VictoryShares MSCI Intl Value Momntm UIVM 0.35 353.8 -14.29 -5.93 -5 Shares Europe IEV 0.59 1,322.3 -14.62 -3.01 1.46 FlexShares MSCI Europe Hedged Equity DBEU 0.45 404.6 -15.20 -0.71 3.68 WisdomTree Europe Hedged Equity HEDJ 0.58 1,671.1 -15.24 -1.91 3.09 Shares Currency Hedged MSCI Eurozone HEZU 0.52 520.0 -15.82 -1.78 2.80 WisdomTree Europe Devidend DIM 0.58 1,671.1 -15.24 -1.91 3.09 Shares Currency Hedged MSCI Eurozone HEZU 0.52 520.0 -15.82 -1.78 2.80 WisdomTree Intl MidCap Dividend DLS 0.58 1,671.1 -15.24 -4.29 1.93 WisdomTree Intl MidCap Dividend DLS 0.58 1,236.8 -15.99 -4.93 3.34 SPDR Euro STOXX 50 FEZ 0.29 1,594.1 -16.10 -4.44 1.08 Q.500 International IQIN 0.25 216.2 -16.16 WisdomTree International Equity DWM 0.48 519.7 -16.31 -4.20 1.28 Invesco RAFI Strategic Developed ex-US ISDX 0.23 231.9 -16.35 Schwab Fundamental Intl Large Company FNDF 0.25 4,090.9 -16.73 -4.58 1.52 WisdomTree Intl Dividend ex-Financials DOO 0.58 116.6 -17.15 -3.52 0.70 WisdomTree Intl Dividend ex-Financials DOO 0.58 116.6 -17.15 -3.52 0.70 WisdomTree Intl Dividend ex-Financials DOO 0.58 116.6 -17.15 -3.52 0.70 WisdomTree Dyn Currency Hedged Intl DDWM 0.40 135.0 -17.26 -3.47	Schwab Fundamental Intl Small Company			***************************************			•••••
Shares MSCI Intl Multifactor         INTF         0.30         802.8         -12.51         -3.53         2.07           SPDR Portfolio Europe         SPEU         0.09         126.8         -13.23         -1.50         1.65           Hartford Multifactor Dev Mkts (ex-US)         RODM         0.29         1,857.8         -13.40         -2.06         3.16           Franklin FTSE Europe         FLEE         0.09         198.5         -13.42         -         -           PPMorgan BetaBuilders Europe         BBEU         0.09         3,728.9         -13.59         -         -           Shares MSCI Eurozone         EZU         0.49         3,924.8         -13.66         -4.14         1.93           Vanguard FTSE Europe         VGK         0.08         11,699.2         -13.74         -2.39         2.20           Shares Core MSCI Europe         IEUR         0.09         3,201.5         -13.79         -2.25         2.29           Fidelity High Dividend         FDW         0.29         523.6         -14.26         3.44	First Trust DM ex-US AlphaDEX	FDT	0.80	***************************************	-12.32	-5.18	2.03
Hartford Multifactor Dev Mkts (ex-US) RODM 0.29 1,857.8 -13.40 -2.06 3.16 Franklin FTSE Europe FLEE 0.09 198.5 -13.42	Shares MSCI Intl Multifactor	INTF	0.30	802.8	-12.51	*	2.07
Franklin FTSE Europe         FLEE         0.09         198.5         -13.42         -         -           IPMorgan BetaBuilders Europe         BBEU         0.09         3,728.9         -13.59         -         -           Shares MSCI Eurozone         EZU         0.49         3,924.8         -13.66         -4.14         1.93           Vanguard FTSE Europe         VGK         0.08         11,699.2         -13.74         -2.39         2.20           Shares Core MSCI Europe         IEUR         0.09         3,201.5         -13.79         -2.25         2.29           Fidelity High Dividend         FDW         0.29         523.6         -14.26         3.44            VictoryShares MSCI Intl Value Momntm         UIVM         0.35         353.8         -14.29         -5.93            Shares Europe         IEV         0.59         1,322.3         -14.62         -3.01         1.46           FlexShares MscI Dutylede         IEV         0.59         1,322.3         -14.62         -3.01         1.46           FlexShares MscI Europe AlphaDEX         FEP         0.80         326.5         -14.84         -4.30         2.11           First Trust Europe Hedged Equity         DBEU	SPDR Portfolio Europe	SPEU	0.09	126.8	-13.23	-1.50	1.65
PMorgan BetaBuilders Europe   BBEU   0.09   3,728.9   -13.59   -	Hartford Multifactor Dev Mkts (ex-US)	RODM	0.29	1,857.8	-13.40	• · · · · · · · · · · · · · · · · · · ·	3.16
Shares MSCI Eurozone         EZU         0.49         3,924.8         -13.66         -4.14         1.93           Vanguard FTSE Europe         VGK         0.08         11,699.2         -13.74         -2.39         2.20           Shares Core MSCI Europe         IEUR         0.09         3,201.5         -13.79         -2.25         2.29           Fidelity High Dividend         FDW         0.29         523.6         -14.26         3.44	Franklin FTSE Europe	FLEE	0.09	198.5	-13.42	-	-
Vanguard FTSE Europe         VGK         0.08         11,699.2         -13,74         -2.39         2.20           Shares Core MSCI Europe         IEUR         0.09         3,201.5         -13,79         -2.25         2.29           Fidelity High Dividend         FDW         0.29         523.6         -14,26         3.44            VictoryShares MSCI Intl Value Momntm         UIVM         0.35         353.8         -14,29         -5.93            Shares Europe         IEV         0.59         1,322.3         -14.62         -3.01         1.46           FlexShares Mstar DM ex-US Factor Tilt         TLTD         0.39         500.8         -14.84         -4.30         2.11           First Trust Europe AlphaDEX         FEP         0.80         326.5         -14.86         -4.07         2.94           Ktrackers MSCI Europe Hedged Equity         DBEU         0.45         404.6         -15.20         -0.71         3.68           WisdomTree Europe Hedged Equity         HEDJ         0.58         1,671.1         -15.24         -1.91         3.09           Shares Currency Hedged MSCI Eurozone         HEZU         0.52         520.0         -15.82         -1.78         2.80           WisdomTree In	JPMorgan BetaBuilders Europe	BBEU	0.09	3,728.9	-13.59	-	-
Shares Core MSCI Europe         IEUR         0.09         3,201.5         -13,79         -2.25         2.29           Fidelity High Dividend         FDW         0.29         523.6         -14,26         3,44            VictoryShares MSCI Intl Value Momntm         UIVM         0.35         353.8         -14,29         -5,93            Shares Europe         IEV         0.59         1,322.3         -14,62         -3,01         1,46           FlexShares Mstar DM ex-US Factor Tilt         TLTD         0.39         500.8         -14,84         -4,30         2,11           First Trust Europe AlphaDEX         FEP         0.80         326.5         -14,86         -4,07         2,94           Ktrackers MSCI Europe Hedged Equity         DBEU         0.45         404.6         -15,20         -0,71         3,68           WisdomTree Europe Hedged Equity         HEDJ         0.58         1,671.1         -15,24         -1,91         3,09           Shares Currency Hedged MSCI Eurozone         HEZU         0.52         520.0         -15,82         -1,78         2,80           WisdomTree Intl MidCap Dividend         DIM         0.58         1,467         -15,84         -4,29         1,93           Wisdo	Shares MSCI Eurozone	EZU	0.49	3,924.8	-13.66	-4.14	1.93
Fidelity High Dividend	Vanguard FTSE Europe	VGK	0.08	11,699.2	-13.74	-2.39	2.20
VictoryShares MSCI Intl Value Momntm         UIVM         0.35         353.8         -14.29         -5.93         -           Shares Europe         IEV         0.59         1,322.3         -14.62         -3.01         1.46           FlexShares Mstar DM ex-US Factor Tilt         TLTD         0.39         500.8         -14.84         -4.30         2.11           First Trust Europe AlphaDEX         FEP         0.80         326.5         -14.86         -4.07         2.94           Ktrackers MSCI Europe Hedged Equity         DBEU         0.45         404.6         -15.20         -0.71         3.68           WisdomTree Europe Hedged Equity         HEDJ         0.58         1,671.1         -15.24         -1.91         3.09           Shares Currency Hedged MSCI Eurozone         HEZU         0.52         520.0         -15.82         -1.78         2.80           WisdomTree Intl MidCap Dividend         DIM         0.58         146.7         -15.84         -4.29         1.93           WisdomTree Intl SmallCap Dividend         DLS         0.58         1,236.8         -15.99         -4.93         3.34           SPDR Euro STOXX 50         FEZ         0.29         1,594.1         -16.10         -4.44         1.08	Shares Core MSCI Europe	IEUR	0.09	3,201.5	-13.79	-2.25	2.29
Shares Europe         IEV         0.59         1,322.3         -14.62         -3.01         1.46           FlexShares Mstar DM ex-US Factor Tilt         TLTD         0.39         500.8         -14.84         -4.30         2.11           First Trust Europe AlphaDEX         FEP         0.80         326.5         -14.86         -4.07         2.94           Ktrackers MSCI Europe Hedged Equity         DBEU         0.45         404.6         -15.20         -0.71         3.68           MisdomTree Europe Hedged Equity         HEDJ         0.58         1,671.1         -15.24         -1.91         3.09           Shares Currency Hedged MSCI Eurozone         HEZU         0.52         520.0         -15.82         -1.78         2.80           WisdomTree Intl MidCap Dividend         DIM         0.58         146.7         -15.84         -4.29         1.93           WisdomTree Intl SmallCap Dividend         DLS         0.58         1,236.8         -15.99         -4.93         3.34           SPDR Euro STOXX 50         FEZ         0.29         1,594.1         -16.10         -4.44         1.08           Q 500 International         IQIN         0.25         216.2         -16.16         -         -           WisdomTree Intern	Fidelity High Dividend		0.29	523.6	-14.26		-
FlexShares Mstar DM ex-US Factor Tilt TLTD 0.39 500.8 -14.84 -4.30 2.11 First Trust Europe AlphaDEX FEP 0.80 326.5 -14.86 -4.07 2.94 Ktrackers MSCI Europe Hedged Equity DBEU 0.45 404.6 -15.20 -0.71 3.68 WisdomTree Europe Hedged Equity HEDJ 0.58 1,671.1 -15.24 -1.91 3.09 Shares Currency Hedged MSCI Eurozone HEZU 0.52 520.0 -15.82 -1.78 2.80 WisdomTree Intl MidCap Dividend DIM 0.58 146.7 -15.84 -4.29 1.93 WisdomTree Intl SmallCap Dividend DLS 0.58 1,236.8 -15.99 -4.93 3.34 SPDR Euro STOXX 50 FEZ 0.29 1,594.1 -16.10 -4.44 1.08 Q 500 International IQIN 0.25 216.2 -16.16 WisdomTree International Equity DWM 0.48 519.7 -16.31 -4.20 1.28 Invesco RAFI Strategic Developed ex-US ISDX 0.23 231.9 -16.35 Schwab Fundamental Intl Large Company FNDF 0.25 4,090.9 -16.73 -4.58 1.52 WisdomTree Intl Dividend ex-Financials DOO 0.58 116.6 -17.15 -3.52 0.70 WisdomTree Dyn Currency Hedged Intl DDWM 0.40 135.0 -17.26 -3.47 -	VictoryShares MSCI Intl Value Momntm	UIVM	0.35	353.8	-14.29	-5.93	-
First Trust Europe AlphaDEX FEP 0.80 326.5 -14.86 -4.07 2.94  Ktrackers MSCI Europe Hedged Equity DBEU 0.45 404.6 -15.20 -0.71 3.68  WisdomTree Europe Hedged Equity HEDJ 0.58 1,671.1 -15.24 -1.91 3.09  Shares Currency Hedged MSCI Eurozone HEZU 0.52 520.0 -15.82 -1.78 2.80  WisdomTree Intl MidCap Dividend DIM 0.58 146.7 -15.84 -4.29 1.93  WisdomTree Intl SmallCap Dividend DLS 0.58 1,236.8 -15.99 -4.93 3.34  SPDR Euro STOXX 50 FEZ 0.29 1,594.1 -16.10 -4.44 1.08  Q 500 International IQIN 0.25 216.2 -16.16 WisdomTree International Equity DWM 0.48 519.7 -16.31 -4.20 1.28  Invesco RAFI Strategic Developed ex-US ISDX 0.23 231.9 -16.35 Schwab Fundamental Intl Large Company FNDF 0.25 4,090.9 -16.73 -4.58 1.52  WisdomTree Intl Dividend ex-Financials DOO 0.58 116.6 -17.15 -3.52 0.70  WisdomTree Dyn Currency Hedged Intl DDWM 0.40 135.0 -17.26 -3.47 -	Shares Europe	IEV	0.59	1,322.3	-14.62	-3.01	1.46
First Trust Europe AlphaDEX FEP 0.80 326.5 -14.86 -4.07 2.94  Ktrackers MSCI Europe Hedged Equity DBEU 0.45 404.6 -15.20 -0.71 3.68  WisdomTree Europe Hedged Equity HEDJ 0.58 1,671.1 -15.24 -1.91 3.09  Shares Currency Hedged MSCI Eurozone HEZU 0.52 520.0 -15.82 -1.78 2.80  WisdomTree Intl MidCap Dividend DIM 0.58 146.7 -15.84 -4.29 1.93  WisdomTree Intl SmallCap Dividend DLS 0.58 1,236.8 -15.99 -4.93 3.34  SPDR Euro STOXX 50 FEZ 0.29 1,594.1 -16.10 -4.44 1.08  Q 500 International IQIN 0.25 216.2 -16.16 WisdomTree International Equity DWM 0.48 519.7 -16.31 -4.20 1.28  Invesco RAFI Strategic Developed ex-US ISDX 0.23 231.9 -16.35 Schwab Fundamental Intl Large Company FNDF 0.25 4,090.9 -16.73 -4.58 1.52  WisdomTree Intl Dividend ex-Financials DOO 0.58 116.6 -17.15 -3.52 0.70  WisdomTree Dyn Currency Hedged Intl DDWM 0.40 135.0 -17.26 -3.47 -	FlexShares Mstar DM ex-US Factor Tilt			• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·	
WisdomTree Europe Hedged Equity         HEDJ         0.58         1,671.1         -15.24         -1.91         3.09           Shares Currency Hedged MSCI Eurozone         HEZU         0.52         520.0         -15.82         -1.78         2.80           WisdomTree Intl MidCap Dividend         DIM         0.58         146.7         -15.84         -4.29         1.93           WisdomTree Intl SmallCap Dividend         DLS         0.58         1,236.8         -15.99         -4.93         3.34           SPDR Euro STOXX 50         FEZ         0.29         1,594.1         -16.10         -4.44         1.08           Q 500 International         IQIN         0.25         216.2         -16.16         -         -           WisdomTree International Equity         DWM         0.48         519.7         -16.31         -4.20         1.28           Invesco RAFI Strategic Developed ex-US         ISDX         0.23         231.9         -16.35         -         -           Schwab Fundamental Intl Large Company         FNDF         0.25         4,090.9         -16.73         -4.58         1.52           WisdomTree Intl Dividend ex-Financials         D00         0.58         116.6         -17.15         -3.52         0.70	First Trust Europe AlphaDEX	FEP		• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·		
WisdomTree Europe Hedged Equity         HEDJ         0.58         1,671.1         -15.24         -1.91         3.09           Shares Currency Hedged MSCI Eurozone         HEZU         0.52         520.0         -15.82         -1.78         2.80           WisdomTree Intl MidCap Dividend         DIM         0.58         146.7         -15.84         -4.29         1.93           WisdomTree Intl SmallCap Dividend         DLS         0.58         1,236.8         -15.99         -4.93         3.34           SPDR Euro STOXX 50         FEZ         0.29         1,594.1         -16.10         -4.44         1.08           Q 500 International         IQIN         0.25         216.2         -16.16         -         -           WisdomTree International Equity         DWM         0.48         519.7         -16.31         -4.20         1.28           Invesco RAFI Strategic Developed ex-US         ISDX         0.23         231.9         -16.35         -         -           Schwab Fundamental Intl Large Company         FNDF         0.25         4,090.9         -16.73         -4.58         1.52           WisdomTree Intl Dividend ex-Financials         D00         0.58         116.6         -17.15         -3.52         0.70	Ktrackers MSCI Europe Hedged Equity	DBEU	0.45	404.6	-15.20	-0.71	3.68
WisdomTree Intl MidCap Dividend         DIM         0.58         146.7         -15.84         -4.29         1.93           WisdomTree Intl SmallCap Dividend         DLS         0.58         1,236.8         -15.99         -4.93         3.34           SPDR Euro STOXX 50         FEZ         0.29         1,594.1         -16.10         -4.44         1.08           Q 500 International         IQIN         0.25         216.2         -16.16         -         -           WisdomTree International Equity         DWM         0.48         519.7         -16.31         -4.20         1.28           Invesco RAFI Strategic Developed ex-US         ISDX         0.23         231.9         -16.35         -         -           Schwab Fundamental Intl Large Company         FNDF         0.25         4,090.9         -16.73         -4.58         1.52           WisdomTree Intl Dividend ex-Financials         D00         0.58         116.6         -17.15         -3.52         0.70           WisdomTree Dyn Currency Hedged Intl         DDWM         0.40         135.0         -17.26         -3.47         -	WisdomTree Europe Hedged Equity	HEDJ	0.58	1,671.1	-15.24		• • • • • • • • • • • • • • • • • • • •
WisdomTree Intl SmallCap Dividend         DLS         0.58         1,236.8         -15.99         -4.93         3.34           SPDR Euro STOXX 50         FEZ         0.29         1,594.1         -16.10         -4.44         1.08           Q 500 International         IQIN         0.25         216.2         -16.16         -         -           WisdomTree International Equity         DWM         0.48         519.7         -16.31         -4.20         1.28           nvesco RAFI Strategic Developed ex-US         ISDX         0.23         231.9         -16.35         -         -           Schwab Fundamental Intl Large Company         FNDF         0.25         4,090.9         -16.73         -4.58         1.52           WisdomTree Intl Dividend ex-Financials         D00         0.58         116.6         -17.15         -3.52         0.70           WisdomTree Dyn Currency Hedged Intl         DDWM         0.40         135.0         -17.26         -3.47         -	Shares Currency Hedged MSCI Eurozone	HEZU	0.52	520.0	-15.82	-1.78	2.80
SPDR Euro STOXX 50         FEZ         0.29         1,594.1         -16.10         -4.44         1.08           Q 500 International         IQIN         0.25         216.2         -16.16         -         -           WisdomTree International Equity         DWM         0.48         519.7         -16.31         -4.20         1.28           Invesco RAFI Strategic Developed ex-US         ISDX         0.23         231.9         -16.35         -         -           Schwab Fundamental Intl Large Company         FNDF         0.25         4,090.9         -16.73         -4.58         1.52           WisdomTree Intl Dividend ex-Financials         D00         0.58         116.6         -17.15         -3.52         0.70           WisdomTree Dyn Currency Hedged Intl         DDWM         0.40         135.0         -17.26         -3.47         -	WisdomTree Intl MidCap Dividend	DIM	0.58	146.7	-15.84	-4.29	1.93
Q 500 International         IQIN         0.25         216.2         -16.16         -         -           WisdomTree International Equity         DWM         0.48         519.7         -16.31         -4.20         1.28           Invesco RAFI Strategic Developed ex-US         ISDX         0.23         231.9         -16.35         -         -           Schwab Fundamental Intl Large Company         FNDF         0.25         4,090.9         -16.73         -4.58         1.52           WisdomTree Intl Dividend ex-Financials         D00         0.58         116.6         -17.15         -3.52         0.70           WisdomTree Dyn Currency Hedged Intl         DDWM         0.40         135.0         -17.26         -3.47         -	WisdomTree Intl SmallCap Dividend	DLS	0.58	1,236.8	-15.99	-4.93	3.34
WisdomTree International Equity         DWM         0.48         519.7         -16.31         -4.20         1.28           Invesco RAFI Strategic Developed ex-US         ISDX         0.23         231.9         -16.35         -         -         -           Schwab Fundamental Intl Large Company         FNDF         0.25         4,090.9         -16.73         -4.58         1.52           WisdomTree Intl Dividend ex-Financials         DO0         0.58         116.6         -17.15         -3.52         0.70           WisdomTree Dyn Currency Hedged Intl         DDWM         0.40         135.0         -17.26         -3.47         -	SPDR Euro STOXX 50	FEZ	0.29	1,594.1	-16.10	-4.44	1.08
Invesco RAFI Strategic Developed ex-US         ISDX         0.23         231.9         -16.35         -         -           Schwab Fundamental Intl Large Company         FNDF         0.25         4,090.9         -16.73         -4.58         1.52           WisdomTree Intl Dividend ex-Financials         DO0         0.58         116.6         -17.15         -3.52         0.70           WisdomTree Dyn Currency Hedged Intl         DDWM         0.40         135.0         -17.26         -3.47         -	Q 500 International	IQIN	0.25	216.2	-16.16	-	-
Schwab Fundamental Intl Large Company         FNDF         0.25         4,090.9         -16.73         -4.58         1.52           WisdomTree Intl Dividend ex-Financials         D00         0.58         116.6         -17.15         -3.52         0.70           WisdomTree Dyn Currency Hedged Intl         DDWM         0.40         135.0         -17.26         -3.47         -	WisdomTree International Equity	DWM	0.48	519.7	-16.31	-4.20	1.28
WisdomTree Intl Dividend ex-Financials         D00         0.58         116.6         -17.15         -3.52         0.70           WisdomTree Dyn Currency Hedged Intl         DDWM         0.40         135.0         -17.26         -3.47         -	Invesco RAFI Strategic Developed ex-US	ISDX	0.23	231.9	-16.35	-	-
WisdomTree Dyn Currency Hedged Intl DDWM 0.40 135.0 -17.26 -3.47 -	Schwab Fundamental Intl Large Company	FNDF	0.25	4,090.9	-16.73	-4.58	1.52
	WisdomTree Intl Dividend ex-Financials	D00	0.58	116.6	-17.15	-3.52	0.70
invesco FTSE RAFI Dev Markets ex-US PXF 0.45 874.1 -17.49 -5.46 1.00	WisdomTree Dyn Currency Hedged Intl	DDWM	0.40	135.0	-17.26	-3.47	-
	Invesco FTSE RAFI Dev Markets ex-US	PXF	0.45	874.1	-17.49	-5.46	1.00

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
WisdomTree International LargeCap Div	DOL	0.48	311.9	-17.56	-4.39	0.68
Pacer Trendpilot International	PTIN	0.66	108.7	-17.77	-	-
Shares MSCI France	EWQ	0.50	758.2	-17.93	-3.33	2.94
nvesco S&P Intl Dev Low Volatility	IDLV	0.25	781.9	-18.24	-2.53	2.08
VisdomTree Europe SmallCap Dividend	DFE	0.58	273.2	-20.47	-6.60	1.49
Shares MSCI EAFE Value	EFV	0.39	5,391.1	-21.23	-7.46	-1.07
acer Global Cash Cows Dividend	GCOW	0.60	110.4	-21.80	-3.99	-
Shares MSCI Italy	EWI	0.49	158.8	-21.87	-6.70	-2.09
ALPS International Sector Dividend Dogs	IDOG	0.50	125.2	-21.92	-5.76	0.81
Shares MSCI Intl Value Factor	IVLU	0.30	456.5	-22.13	-7.46	-1.59
Shares MSCI Singapore	EWS	0.50	484.8	-24.45	-7.22	-0.91
Shares MSCI Spain	EWP	0.50	325.8	-26.67	-11.86	-4.52
Shares MSCI United Kingdom	EWU	0.50	2,159.1	-27.54	-7.79	-3.15
Global X MSCI Greece	GREK	0.57	108.6	-40.74	-11.49	-8.73
Ktrackers MSCI Kokusai Equity	KOKU	0.09	731.1	-	-	-
Goldman Sachs MarketBeta Intl Equity	GSID	0.20	262.9	-	-	-
NTERNATIONAL EQUITY: EMERGING						
(raneShares CSI China Internet	KWEB	0.76	3,375.5	47.56	9.75	15.89
VisdomTree China ex-SOE	CXSE	0.32	453.0	44.24	14.33	20.57
nvesco Golden Dragon China	PGJ	0.70	197.8	30.32	8.91	12.99
(raneShares Bosera MSCI China A Share	KBA	0.60	699.0	25.20	8.23	5.21
Shares MSCI China A	CNYA	0.60	522.2	24.41	8.12	-
irst Trust Chindia	FNI	0.60	178.9	23.56	9.30	12.39
Shares MSCI China	MCHI	0.59	6,357.6	21.72	7.63	12.24
SPDR S&P China	GXC	0.59	1,636.5	21.40	7.46	12.26
trackers Harvest CSI 300 China A-Shares	ASHR	0.65	1,991.5	20.82	6.45	6.32
SPDR S&P Emerging Asia Pacific	GMF	0.49	590.2	11.27	5.57	10.53
VisdomTree Emerging Markets ex-SOE	XSOE	0.32	2,391.4	11.22	5.67	11.13
nvesco BLDRS Emerging Markets 50 ADR	ADRE	0.18	142.9	10.49	5.80	11.33
Shares MSCI Taiwan	EWT	0.59	4,565.0	9.80	8.84	12.75
Shares MSCI Emerging Markets Asia	EEMA	0.50	490.4	9.45	3.90	9.53
Shares MSCI BRIC	BKF	0.69	254.2	5.44	4.54	10.78
Shares MSCI South Korea	EWY	0.59	5,073.7	4.36	-2.54	5.69
trackers MSCI Emerging Markets Hedged	DBEM	0.65	105.9	3.61	2.82	6.63
Shares Currency Hedged MSCI EM	HEEM	0.68	178.0	3.50	3.23	7.67
SPDR MSCI EM Fossil Fuel Reserves Free	EEMX	0.30	99.1	3.46	1.97	7.07
nvesco DWA EM Momentum	PIE	0.90	158.2	3.16	2.33	6.21
Shares ESG Aware MSCI EM	ESGE	0.30	4,732.5	1.54	2.72	0.21
				******************	***************************************	7.53
Shares Core MSCI Emerging Markets	IEMG EEM	0.13	55,219.5	0.39 0.23	1.46	7.44
Shares MSCI Emerging Markets		0.68	24,515.3	•	1.22	**************
anguard FTSE Emerging Markets	VW0	0.10	62,229.9	0.10	2.11	7.47
Schwab Emerging Markets Equity	SCHE	0.11	7,309.1	-0.04	2.59	7.89
SPDR Portfolio Emerging Markets	SPEM	0.11	4,478.7	-0.67	1.85	7.74
Shares MSCI India Small Cap	SMIN	0.76	191.6	-1.45	-9.25	2.42
Soldman Sachs ActiveBeta EM Equity	GEM	0.45	1,722.9	-2.75	0.58	6.37
Shares MSCI EM Multifactor	EMGF	0.45	570.5	-2.91	-0.20	
Shares MSCI Emerging Markets Small-Cap	EEMS	0.69	204.1	-3.07	-2.50	3.11
SPDR S&P Emerging Markets Small Cap	EWX	0.65	508.8	-3.77	-1.94	5.18
Shares MSCI India	INDA	0.69	3,161.2	-4.18	-0.61	4.39
VisdomTree India Earnings	EPI	0.84	599.0	-4.49	-3.39	4.33
Ivantis Emerging Markets Equity	AVEM	0.33	360.4	-4.60		
Shares MSCI EM Min Vol Factor	EEMV	0.25	4,032.0	-5.31	0.12	3.56
PDR MSCI EM StrategicFactors	QEMM	0.30	135.3	-6.26	-0.65	4.76
ohn Hancock Multifactor EM	JHEM	0.49	671.2	-6.85		
lexShares Mstar EM Factor Tilt	TLTE	0.59	229.1	-8.20	-3.37	4.24
IMCO RAFI Dynamic Multi-Factor EM	MFEM	0.49	658.8	-8.85	-1.77	<del>-</del>
Shares India 50	INDY	0.93	596.6	-8.99	-0.51	5.11
Shares MSCI Malaysia	EWM	0.49	362.7	-9.16	-3.42	-0.34
VisdomTree EM SmallCap Dividend	DGS	0.63	1,471.5	-11.42	-2.24	5.77
lictoryShares MSCI EM Value Momentum	UEVM	0.45	216.8	-12.07	-5.97	-
nvesco S&P EM Low Volatility	EELV	0.29	271.2	-14.72	-2.91	1.31
irst Trust EM Small Cap AlphaDEX	FEMS	0.80	130.5	-15.34	-4.34	6.55
PMorgan Diversified Return EM Equity	JPEM	0.44	215.2	-16.65	-3.42	3.53
	FRUE	0.50	110 2	-17.69	-8.21	-3.81
Shares MSCI Philippines	EPHE	0.59	118.3	-17.00	0.21	-3.01

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Invesco FTSE RAFI Emerging Markets	PXH	0.50	980.4	-19.14	-3.55	5.90
Schwab Fundamental EM Large Company	FNDE	0.39	2,951.8	-20.83	-4.36	5.45
WisdomTree EM High Dividend	DEM	0.63	1,478.8	-21.09	-2.91	4.15
VanEck Vectors Russia	RSX	0.67	991.1	-22.09	1.15	7.28
SPDR S&P Emerging Markets Dividend	EDIV	0.49	248.0	-22.32	-4.01	2.00
iShares Emerging Markets Dividend	DVYE	0.49	528.4	-23.04	-5.22	3.45
iShares MSCI South Africa	EZA	0.59	306.7	-23.10	-9.42	-3.53
iShares MSCI Mexico	EWW	0.49	761.9	-23.85	-10.17	-7.01
iShares MSCI Chile	ECH	0.59	386.4	-26.89	-20.78	-5.40
iShares MSCI Indonesia	EID0	0.59	286.6	-28.05	-10.39	-0.43
iShares MSCI Thailand	THD	0.59	373.9	-29.07	-9.48	1.25
iShares MSCI Russia	ERUS	0.59	388.5	-29.54	1.85	7.50
iShares MSCI Poland	EP0L	0.61	186.9	-33.29	-18.11	-5.44
iShares MSCI Turkey	TUR	0.59	196.0	-34.07	-22.80	-12.88
iShares Latin America 40	ILF	0.48	821.0	-37.27	-12.27	0.22
iShares MSCI Brazil	EWZ	0.59	4,751.0	-42.71	-10.16	5.79
iShares ESG MSCI EM Leaders	LDEM	0.16	660.7	-	-	-
INTERNATIONAL EQUITY: FRONTIER						
VanEck Vectors Vietnam	VNM	0.66	383.4	-7.82	-1.89	-1.04
iShares MSCI Frontier 100	FM	0.79	378.7	-11.07	-2.55	2.56
GLOBAL EQUITY: SECTOR						
Invesco Solar	TAN	0.71	1,838.6	123.28	43.40	20.40
ARK Genomic Revolution	ARKG	0.75	2,905.0	96.12	39.21	28.71
ARK Next Generation Internet	ARKW	0.76	2,983.0	92.41	43.61	41.68
First Trust NASDAQ Clean Edge Grn Energy	QCLN	0.60	776.2	91.39	33.59	27.07
Invesco WilderHill Clean Energy	PBW	0.70	895.4	86.18	38.96	25.26
O'Shares Global Internet Giants	OGIG	0.48	499.8	72.34		-
ARK Fintech Innovation	ARKF	0.75	933.6	70.48		
iShares Global Clean Energy	ICLN	0.46	1,972.3	67.18	30.46	17.53
ALPS Clean Energy	ACES	0.65	443.9	65.32	-	-
Invesco Global Clean Energy	PBD	0.75	125.6	62.13	23.08	17.13
Global X Video Games & Esports	HER0	0.50	378.7	61.94	-	-
Global X Lithium & Battery Tech	LIT	0.75	873.1	58.56	6.05	18.24
VanEck Vectors Video Gaming and eSports	ESP0	0.55	577.4	56.88	-	-
ARK Autonomous Technology & Robotics	ARKQ	0.75	760.4	55.47	21.68	26.32
VanEck Vectors Low Carbon Energy	SMOG	0.62	167.6	52.18	23.16	18.03
Global X Social Media	SOCL	0.65	238.9	50.43	17.34	22.39
Global X Cloud Computing	CLOU	0.68	1,250.1	48.92	-	-
WedbushMG Video Game Tech	GAMR	0.75	125.9	48.70	14.31	-
iShares MSCI Global Silver/Metals Miners	SLVP	0.39	209.3	39.60	15.93	21.22
Amplify Transformational Data Sharing	BLOK	0.70	134.8	32.69	- 10.30	-
Sprott Junior Gold Miners	SGDJ	0.50	105.1	30.95	11.40	16.74
Reality Shares Nasdaq NexGen Economy	BLCN	0.68	129.7	30.12	-	-
iShares MSCI Global Gold Miners	RING	0.39	506.7	30.11	21.19	22.35
Global X Artificial Intelligence/Technology	AIQ	0.68	99.6	29.63	- 21.13	
VanEck Vectors Gold Miners	GDX	0.52	16,036.1	28.04	19.37	20.92
Global X Silver Miners	SIL	0.66	971.2	27.95	10.87	16.90
Sprott Gold Miners	SGDM	0.50	262.2	27.41	16.81	18.36
iShares Genomics Immunology/Healthcare	IDNA	0.47	164.6	27.29	- 10.01	- 10.30
Global X Robotics & Artificial Intelligence	BOTZ	0.68	1,838.9	27.04	6.41	
VanEck Vectors Junior Gold Miners	GDXJ	0.53	5,844.3	25.91	18.85	22.72
First Trust Global Wind Energy	FAN	0.62	242.8	24.92	13.22	13.32
iShares Robotics/Artificial Intelligence Multisector	IRB0	0.47	203.6	23.60	- 13.22	10.02
Global X FinTech	FINX	0.68	735.5	19.63	18.98	
iShares Global Tech		0.46	4,230.9	19.54	•	21.47
U.S. Global GO Gold/Prec Metal Miners	IXN GOAU	0.60	109.4	19.42	19.06 20.14	
Invesco Cleantech	PZD	0.65	323.6	17.46	11.26	15.69
ALPS Disruptive Technologies	DTEC	0.50	126.8	16.57	- 11.20	13.03
iShares Cybersecurity and Tech	IHAK	0.47	139.8	15.23	······· <del>-</del>	<del>.</del>
••••••					6 1 2	15.22
ROBO Global Robotics and Automation	ROBO ROBT	0.95	1,308.3	14.81	6.12	15.22
First Trust Nasdaq AI and Robotics	ROBT	0.65	2 170 1	12.83	15.07	12.05
First Trust NASDAQ Cybersecurity	CIBR	0.60	2,179.1	12.83	15.07	13.95
iShares Exponential Technologies	XT	0.47	2,637.6	12.41	12.42	15.41
ETFMG Prime Cyber Security iShares Global Comm Services	HACK	0.60	1,522.0 319.1	10.53 10.26	14.40 7.56	11.69 5.48
ionarea alonar commi otrylica	I/I	0.40	513.1	10.20	7.30	5.40

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
ETFMG Prime Junior Silver Miners	SILI	0.69	408.6	10.13	8.92	18.64
Global X Internet of Things	SNSR	0.68	245.1	10.02	10.39	-
Defiance Next Gen Connectivity	FIVG	0.30	555.7	9.11	-	-
irst Trust Indxx NextG	NXTG	0.70	623.0	7.12	5.49	10.50
Shares Global Consumer Discretionary	RXI	0.46	283.3	6.31	10.06	9.08
lobal X Copper Miners	COPX	0.65	103.5	6.25	-3.77	8.95
ivesco Water Resources	PH0	0.60	1,142.7	5.96	12.22	12.86
irst Trust Water	FIW	0.55	555.2	4.36	10.91	16.46
TFMG Prime Mobile Payments	IPAY	0.75	768.9	2.48	14.61	14.90
nvesco Global Water	PIO	0.75	208.0	1.83	9.14	9.01
Shares Global Materials	MXI	0.45	410.2	1.34	2.77	9.32
nvesco S&P Global Water	CGW	0.59	713.0	1.02	7.67	9.86
Shares Global Healthcare	IXJ	0.46	2,174.5	0.06	8.98	7.58
anEck Vectors Rare Earth/Strat Metals	REMX	0.60	162.7	0.00	-16.50	1.12
Global X Uranium	URA	0.71	139.7	-1.02	-1.47	-3.33
irst Trust NASDAQ Technology Dividend	TDIV	0.50	1,164.5	-1.02	9.65	12.48
Shares Global Utilities	JXI	0.46	140.8	-1.71	6.40	8.27
	PAVE	0.47	372.1	-1.88		0.27
Slobal X US Infrastructure Development	KXI	0.47	606.4	*	4.57	4.86
Shares Global Consumer Staples		***************************************		-3.11	3.99	*************
'anEck Vectors Agribusiness	M00 W00D	0.56 0.46	615.2	-3.42 4.75	4.85	8.52 7.35
Shares Global Timber & Forestry			233.1	-4.75 5.95	-1.32	• · · · · · · · · · · · · · · · · · · ·
Shares Global Industrials	EXI	0.46	258.6	-5.85	2.00	7.28
anEck Vectors Pharmaceutical	PPH	0.36	218.2	-6.87	4.06	0.02
lexShares STOXX Global Broad Infrastr	NFRA	0.47	1,859.2	-8.79	2.97	4.97
Shares MSCI Global Metals/Mining Prod	PICK	0.39	281.4	-8.96	-1.52	9.17
nvesco Global Listed Private Equity	PSP	1.58	150.3	-11.09	0.80	6.15
PDR S&P North Am Natural Resources	NANR	0.35	388.2	-16.49	-4.01	<del>-</del>
lexShares Mstar Global Upstream Nat Res	GUNR	0.46	2,929.5	-17.82	-2.38	4.59
roShares DJ Brookfield Global Infrastr	TOLZ	0.47	134.1	-17.98	-1.00	2.40
PDR S&P Global Infrastructure	GII	0.40	334.0	-19.54	-2.75	2.59
Shares Global Infrastructure	IGF	0.46	2,791.0	-19.55	-2.84	2.50
PDR S&P Global Natural Resources	GNR	0.40	994.5	-20.17	-5.08	3.46
lexShares Global Quality Real Estate	GQRE	0.45	265.2	-20.31	-3.28	0.69
Shares Global Financials	IXG	0.46	235.4	-22.56	-5.59	1.92
Shares Global REIT	REET	0.14	2,029.0	-23.82	-2.21	0.27
SPDR Dow Jones Global Real Estate	RW0	0.50	1,399.1	-23.86	-3.25	-0.80
Davis Select Financial	DFNL	0.64	125.0	-24.27	-3.99	-
Shares North American Natural Resources	IGE	0.46	288.9	-33.84	-13.29	-6.79
TFMG Alternative Harvest	MJ	0.75	576.1	-34.43	-25.58	-
IS Global Jets	JETS	0.60	1,773.0	-46.29	-16.32	-7.62
lobal X SuperDividend REIT	SRET	0.59	314.9	-47.01	-13.98	-2.70
Shares Global Energy	IXC	0.46	651.1	-48.56	-19.45	-9.76
anEck Vectors Oil Services	OIH	0.35	393.7	-63.90	-40.40	-29.48
Global X Telemedicine & Digital Health	ED0C	0.68	387.1		-	-
Roundhill Sports Betting & iGaming	BETZ	0.75	128.6			
SLOBAL EX-U.S. EQUITY: SECTOR	DEIL	0.70	120.0			
anEck Vectors Biotech	BBH	0.35	465.8	9.24	6.87	4.64
anguard Global ex-U.S. Real Estate	VNQI	0.12	4,238.1	-20.49	-2.87	1.91
trackers International Real Estate	HAUZ	0.10	264.0	-20.53	-4.42	2.72
Shares International Developed Real Est	IFGL	0.48	228.0	-22.01	-2.44	0.49
PDR Dow Jones International Real Estate	RWX	0.46	793.1	-24.32	-4.13	-1.74
PUR DOW JONES INTERNATIONAL REAL ESTATE  NTERNATIONAL EQUITY: DEVELOPED SEC		0.53	733.1	-24.32	-4.13	-1./4
		0.40	E00 0	21 21	12 51	E
Shares MSCI Europe Financials	EUFN	0.48	582.2	-31.21	-13.51	-5.55
NTERNATIONAL EQUITY: EMERGING SECT		0.05	401.0	E0.05	20.00	10.04
lobal X MSCI China Consumer Discr	CHIQ	0.65	401.9	59.65	20.89	19.04
merging Markets Internet & Ecommerce	EMQQ	0.86	1,129.1	55.86	14.94	19.82
raneShares MSCI All China Health Care	KURE	0.65	133.8	50.71	-	-
nvesco China Technology	CQQQ	0.70	1,051.1	41.54	8.63	17.26
raneShares EM Consumer Technology	KEMQ	0.60	147.0	17.30	5.21	
olumbia Emerging Markets Consumer	ECON	0.59	166.8	8.18	-1.51	2.68
LOBAL EQUITY: HIGH DIVIDEND YIELD						
	WDIV	0.40	155.2	-24.12	-4.29	0.96
PDR S&P Global Dividend	WUIV	0.40		• • • • • • • • • • • • • • • • • • • •	. *	*************
PDR S&P Global Dividend First Trust Dow Jones Global Select Div	FGD	0.59	334.6	-24.23	-6.08	0.28

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
GLOBAL EX-U.S. EQUITY: HIGH DIVIDEND Y						
SPDR S&P International Dividend	DWX	0.45	548.3	-16.33	-2.68	2.72
Vanguard International High Div Yield	VYMI	0.27	1,331.5	-18.33	-4.72	-
INTERNATIONAL EQUITY: HIGH DIVIDEND	YIELD		,			
Xtrackers MSCI EAFE High Div Yield Equity	HDEF	0.20	436.3	-18.23	-4.87	-0.29
WisdomTree Intl High Dividend	DTH	0.58	148.1	-22.47	-6.54	-0.54
iShares International Select Dividend	IDV	0.49	3,081.6	-23.29	-4.64	1.31
First Trust Stoxx European Select Div	FDD	0.58	168.8	-26.30	-5.79	-0.38
U.S. FIXED INCOME: BROAD MARKET - BR						
Fidelity Corporate Bond	FCOR	0.36	225.2	7.50	6.43	6.07
iShares Core Total USD Bond Market	IUSB	0.06	5,535.0	5.83	4.87	4.28
iShares Yield Optimized Bond	BYLD	0.20	191.1	2.24	4.44	4.37
iShares Edge US Fixed Income Bal Risk	FIBR	0.25	131.8	1.64	3.42	3.71
iShares ESG Adv Total USD Bond Market	EUSB	0.12	135.6		J.42	
U.S. FIXED INCOME: BROAD MARKET - LO			133.0			
iShares Core 10+ Year USD Bond	ILTB	0.06	401.8	11.17	8.99	8.25
U.S. FIXED INCOME: BROAD MARKET - SH			401.0	11.17	0.33	0.23
			4 702 0	2 00	2 / 1	2.05
iShares Core 1-5 Year USD Bond	ISTB	0.06	4,702.0	3.86	3.41	2.85
VictoryShares USAA Core Short-Term Bond	USTB	0.34	237.8	3.76	3.36	1 00
First Trust Enhanced Short Maturity	FTSM	0.40	5,171.8	1.01	1.98	1.68
First Trust Low Duration Strategic Focus	LDSF	0.82	142.2	0.65	-	-
U.S. FIXED INCOME: GOVERNMENT/CREDI			F.4			
VictoryShares Core Intermediate Bond	UITB	0.38	547.4	5.39	5.25	
iShares Core 5-10 Year USD Bond	IMTB	0.06	130.4	4.84	4.56	-
Vident Core US Bond Strategy	VBND	0.41	398.6	3.62	3.90	3.34
U.S. FIXED INCOME: GOVERNMENT/CREDI						
Vanguard Long-Term Corporate Bond	VCLT	0.05	5,520.1	6.96	8.04	8.46
iShares 10+ Year Inv Grade Corporate Bond	IGLB	0.06	2,366.2	6.92	7.93	8.15
SPDR Portfolio Long Term Corporate Bond	SPLB	0.07	965.2	6.91	7.89	8.27
iShares iBonds Dec 2028 Term Corporate	IBDT	0.10	207.0	6.77	<del>-</del>	<del>-</del>
Invesco BulletShares 2027 Corporate Bond	BSCR	0.10	250.1	6.75	6.20	
ProShares Inv Grade-Int Rate Hedged	IGHG	0.30	421.1	-4.21	1.34	3.13
iShares Int Rate Hedged Long-Term Corp	IGBH	0.16	560.9	-5.02	0.70	3.02
U.S. FIXED INCOME: GOVERNMENT						
Invesco 1-30 Laddered Treasury	PLW	0.25	166.0	12.46	7.58	5.30
iShares US Treasury Bond	GOVT	0.15	15,078.9	7.58	5.07	3.46
WisdomTree Floating Rate Treasury	USFR	0.15	1,354.9	0.61	1.57	1.13
iShares Treasury Floating Rate Bond	TFL0	0.15	407.4	0.46	1.52	1.15
Franklin Liberty US Treasury Bond	FLGV	0.09	422.7	-	-	-
U.S. FIXED INCOME: TREASURY - SHORT 1	ERM					
SPDR Portfolio Short Term Treasury	SPTS	0.06	3,123.8	3.08	2.45	1.73
Schwab Short-Term US Treasury	SCH0	0.05	7,877.0	3.04	2.62	1.76
Vanguard Short-Term Treasury	VGSH	0.05	9,566.4	2.99	2.62	1.77
iShares 1-3 Year Treasury Bond	SHY	0.15	21,207.0	2.97	2.52	1.69
Franklin Liberty Short Duration US Govt	FTSD	0.25	516.5	2.68	2.24	1.61
Invesco Treasury Collateral	CLTL	0.08	917.8	0.89	1.71	-
iShares Short Treasury Bond	SHV	0.15	19,957.2	0.81	1.68	1.19
Goldman Sachs Access Treasury 0-1 Year	GBIL	0.12	2,963.9	0.49	1.57	-
SPDR Bloomberg Barclays 1-3 Month T-Bill	BIL	0.14	13,861.1	0.41	1.43	0.99
iShares 0-3 Month Treasury Bond	SGOV	0.03	915.2	-	-	-
U.S. FIXED INCOME: TREASURY - INTERM		00	- 20.2			
iShares 7-10 Year Treasury Bond	IEF	0.15	19,626.2	9.90	6.20	4.24
SPDR Portfolio Intermediate Treasury	SPTI	0.15	2,667.5	7.51	5.12	3.40
Schwab Intermediate-Term US Treasury	SCHR	0.05	3,431.0	7.48	4.86	3.37
Vanguard Intermediate-Term Treasury	VGIT	0.05	6,830.6	7.46	4.85	3.39
iShares 3-7 Year Treasury Bond	IEI			*	•••••	
•		0.15	11,329.7	6.68	4.42	3.06
PIMCO 25   Voor Zoro Coupon US Transport		0.15	404 E	22.04	1// 20	10.25
PIMCO 25+ Year Zero Coupon US Treasury	ZR0Z	0.15	424.5	23.04	14.38	10.25
Vanguard Extended Duration Treasury	EDV	0.07	1,703.1	22.84	13.77	9.80
iShares 20 + Year Treasury Bond	TLT	0.15	19,508.7	17.66	10.66	7.60
SPDR Portfolio Long Term Treasury	SPTL	0.06	2,553.9	17.63	10.56	7.46
Vanguard Long-Term Treasury	VGLT	0.05	2,619.7	17.18	10.54	7.49
iShares 10-20 Year Treasury Bond	TLH	0.15	1,626.0	13.79	8.09	5.58
U.S. FIXED INCOME: AGENCIES						
iShares Agency Bond	AGZ	0.20	904.2	5.57	4.12	3.00

J.S. FIXED INCOME: AGENCY MBS anus Henderson MBS ClexShares Disciplined Duration MBS SPDR Portfolio Mortgage Backed Bond Shares MBS //anguard Mortgage-Backed Securities Shares GNMA Bond Cirst Trust Low Duration Opportunities J.S. FIXED INCOME: TIPS PIMCO 15+ Year US TIPS Quadratic Int Rate Vol/Inflation Hedge	JMBS MBSD SPMB MBB VMBS GNMA LMBS	0.32 0.20 0.06 0.06 0.05	578.5 100.0 2,771.4	4.81 4.79 3.93	3.61 3.69	2.60 2.77
TexShares Disciplined Duration MBS SPDR Portfolio Mortgage Backed Bond Shares MBS Anguard Mortgage-Backed Securities Shares GNMA Bond First Trust Low Duration Opportunities J.S. FIXED INCOME: TIPS PIMCO 15+ Year US TIPS	MBSD SPMB MBB VMBS GNMA	0.20 0.06 0.06	100.0 2,771.4	4.79 3.93	***************************************	************
SPDR Portfolio Mortgage Backed Bond Shares MBS  Anguard Mortgage-Backed Securities Shares GNMA Bond First Trust Low Duration Opportunities J.S. FIXED INCOME: TIPS PIMCO 15+ Year US TIPS	SPMB MBB VMBS GNMA	0.06 0.06	2,771.4	3.93	***************************************	************
Shares MBS  Anguard Mortgage-Backed Securities  Shares GNMA Bond  First Trust Low Duration Opportunities  J.S. FIXED INCOME: TIPS  PIMCO 15+ Year US TIPS	MBB VMBS GNMA	0.06			3.69	7 //
Anguard Mortgage-Backed Securities Shares GNMA Bond First Trust Low Duration Opportunities J.S. FIXED INCOME: TIPS PIMCO 15+ Year US TIPS	VMBS GNMA	· *· · · · · · · · · · · · · · · · · ·	72 Q77 N			************
Shares GNMA Bond First Trust Low Duration Opportunities J.S. FIXED INCOME: TIPS PIMCO 15+ Year US TIPS	GNMA	0.05	23,827.0	3.86	3.64	2.83
irst Trust Low Duration Opportunities  J.S. FIXED INCOME: TIPS  PIMCO 15+ Year US TIPS	· · · • · · · · · · · · · · · · · · · ·	· • · · · · · · · · · · · · · · · · · ·	11,874.9	3.35	3.47	2.79
J.S. FIXED INCOME: TIPS PIMCO 15+ Year US TIPS	LMBS	0.15	481.1	3.12	3.16	2.51
PIMCO 15+ Year US TIPS	55	0.67	6,390.5	1.17	2.32	3.14
Quadratic Int Rate Vol/Inflation Hedge	LTPZ	0.20	593.5	19.91	11.17	8.85
	IVOL	0.99	660.3	11.40	-	-
PIMCO Broad US TIPS	TIPZ	0.20	111.4	8.64	5.53	4.44
SPDR Portfolio TIPS	SPIP	0.12	2,035.6	8.57	5.54	4.42
Shares TIPS Bond	TIP	0.19	24,003.8	8.33	5.34	4.26
Schwab US TIPS	SCHP	0.05	12,871.3	8.30	5.41	4.33
lexShares iBoxx 5-Year Target Dur TIPS	TDTF	0.18	597.2	7.60	5.03	3.93
SPDR Bloomberg Barclays 1-10 Year TIPS	TIPX	0.15	484.2	6.32	4.28	3.39
TlexShares iBoxx 3 Yr Target Dur TIPS	TDTT	0.18	1,431.3	4.94	3.55	2.71
PIMCO 1-5 Year US TIPS	STPZ	0.20	660.0	3.76	2.88	2.33
Shares 0-5 Year TIPS Bond	STIP	0.06	2,843.9	3.69	3.01	2.43
anguard Short-Term Infl-Protected Sec	VTIP	0.05	9,461.2	3.33	2.92	2.36
J.S. FIXED INCOME: MUNICIPAL - BROAD			•			
nvesco Taxable Municipal Bond	BAB	0.28	2,108.8	5.53	6.18	6.34
Q MacKay Municipal Insured	MMIN	0.31	170.4	4.78	4.60	
SPDR Nuveen Bloomberg Barclays Muni	TFI	0.23	3,256.1	3.59	4.03	3.60
Shares National Muni Bond	MUB	0.07	18,195.9	2.75	3.73	3.34
/anguard Tax-Exempt Bond	VTEB	0.06		2.65	3.84	3.50
×			9,396.5		*******	3.22
Shares California Muni Bond	CMF	0.25	1,590.4	2.56	3.57	*
nvesco New York AMT-Free Muni	PZT	0.28	101.7	2.49	4.15	4.14
nvesco National AMT-Free Municipal	PZA	0.28	2,138.3	2.06	4.14	4.07
nvesco California AMT-Free Municipal	PWZ	0.28	448.5	2.05	4.22	4.07
Shares New York Muni Bond	NYF	0.25	474.1	1.72	3.07	2.90
First Trust Managed Municipal	FMB	0.50	1,708.3	1.46	3.79	4.04
Hartford Municipal Opportunities	HM0P	0.30	120.8	0.07	-	<del>-</del>
/anEck Vectors CEF Municipal Income	XMPT	1.86	147.7	-0.25	4.57	5.07
First Trust Municipal High Income	FMHI	0.55	119.1	-0.47	-	-
J.S. FIXED INCOME: MUNICIPAL - SHORT	Γ-TERM					
/anEck Vectors AMT-Free Short Municipal	SMB	0.20	222.2	2.47	2.48	1.92
PIMCO Short Term Municipal Bond Active	SMMU	0.35	253.7	2.12	2.21	1.76
SPDR Bloomberg Barclays Short Term Muni	SHM	0.20	4,279.7	2.08	2.10	1.52
Shares Short-Term National Muni Bond	SUB	0.07	3,838.3	1.81	2.01	1.44
PMorgan Ultra-Short Municipal Income	JMST	0.18	835.7	1.80	-	-
Shares Short Maturity Municipal Bond	MEAR	0.25	291.1	1.01	1.45	1.20
First Trust Ultra Short Duration Municipal	FUMB	0.35	103.7	0.76		
J.S. FIXED INCOME: MUNICIPAL - INTER		0.00	100.7	0.70		
Shares iBonds Dec 2025 Term Muni Bond	IBMN	0.18	119.1	4.05		
Shares iBonds Dec 2024 Term Muni Bond	IBMM	0.18	179.6	3.23	***************************************	************
/anEck Vectors Intermediate Muni		· • · · · · · · · · · · · · · · · · · ·			A 27	2 01
	ITM	0.24	1,711.9	3.11	4.27	3.81
PIMCO Intermediate Municipal Bond Active	MUNI	0.35	532.4	3.05	3.80	3.31
Shares iBonds Dec 2023 Term Muni Bond	IBML	0.18	276.1	2.53	2.58	
Shares iBonds Dec 2022 Term Muni Bond	IBMK	0.18	356.2	2.01	2.01	2.12
Shares iBonds Dec 2021 Term Muni Bond	IBMJ	0.18	311.2	1.21	1.41	1.51
J.S. FIXED INCOME: MUNICIPAL - LONG-						
/anEck Vectors AMT-Free Long Municipal	MLN	0.24	218.4	3.10	4.85	4.63
trackers Municipal Infrastructure Revenue Bor		0.15	108.5	2.10	4.42	4.80
I.S. FIXED INCOME: MUNICIPAL - HIGH \	/IELD					
SPDR Nuveen HiYld Municipal Bond	HYMB	0.35	1,206.0	-1.42	4.59	3.86
/anEck Vectors Short HiYld Municipal	SHYD	0.35	230.6	-2.03	2.77	2.47
/anEck Vectors High-Yield Municipal	HYD	0.35	2,762.0	-4.17	2.68	3.60
J.S. FIXED INCOME: CORPORATE - INVES	STMENT GR					
anguard Long-Term Bond	BLV	0.05	5,371.6	11.89	10.45	9.89
		0.18	160.2	7.60	6.26	
	JUEB		_00.2			
Shares Edge Investment Grade Enh Bond	IGEB GRF					Δ 22
	GBF LQD	0.20	186.8 56,302.2	7.03 6.78	5.37 6.82	4.22 6.25

Financian Liberty Investment Grade Corp	FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
SPOR Portfolio Corporate Bond   SPOD   Q.05   Z75.3   G.44   G.36   S.00	FlexShares Core Select Bond	BNDC	0.35	109.4	6.56	4.72	-
Number ESG US Aggregate Bord   NUBD   Q.20	Franklin Liberty Investment Grade Corp	FLC0	0.35	1,032.3	6.51	5.93	-
Coldman Sachs Access Inv Grade Corp	SPDR Portfolio Corporate Bond	SPB0	0.06	275.3	6.44	6.36	5.60
New Part   Shares Core Bond   OyB   O,79   117.9   6.30	Nuveen ESG US Aggregate Bond	NUBD	0.20	176.3	6.35	4.76	
Vanguard total Bond Market   SND	Goldman Sachs Access Inv Grade Corp	GIGB	0.14	687.8	6.34	6.19	
Shares ESG Aware USD Corporate Bond   SUSC   0.18   618.3   6.23   5.98   Franklint Liberty US Care Bond   FLGB   0.15   1.64774   6.10	Overlay Shares Core Bond	OVB	0.79	117.9	6.30		
Frankin Liberty US Core Bond						• • • • • • • • • • • • • • • • • • • •	4.05
Shares ESG Aware US Aggregate Bond					• • • • • • • • • • • • • • • • • • • •	5.98	<del>.</del>
Schweb LS Aggregate Bond   SCHZ   O.04   8.1531.2   6.10   4.94   3.96						<del>.</del>	<del>-</del>
Schwab US Aggregate Bond							
Principal Inv Grade Corporate Active   IG   0.26   324.2   6.08							
SPORR Purtfolio Aggregate Bond   SPAB   D.04   5,468.1   6.03   4.92   3.92   1.92						4.89	3.92
IShares Broad USD Inv Grade Corporate Dord   USIG   USig			. *		• • • • • • • • • • • • • • • • • • • •	4.00	2.00
PMICO   Investment Grade Corporate Bond   JAGG   0.07   695.9   5.86			. *		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
PMorgan US Aggregate Bond					• • • • • • • • • • • • • • • • • • • •	• · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •
Variguard Total Corporate Bond   VTC   0.05   674,9   5.73   -   -   -					• • • • • • • • • • • • • • • • • • • •	J.30	J.00
MiscomTree Yield Enhanced US Aggregate						<u>-</u>	<u>-</u>
Hartford Schroders Tax-Aware Bond   HTAB   0.39   110.0   4.12	<del>-</del>						136
Fidelity Low Duration Bond Factor   FLDR   0.15   2433   1.86	<del></del>					4.//	4.50
Shares Interest Rate Hedged Corporate   LODH   0.24   451.8   -2.48   1.89   3.05   Coldman Sachs Access LS Aggregate Bond   GCOR   0.14   109.3	***************************************	-*	. *				
Coldman Sachs Access US Aggregate Bond   GCOR   0.14   109.3						1 89	3.05
Schwab 1-5 Year Corporate Bond   SCH   0.05   123.6   4.28   -   -					-2.40	- 1.03	
Schwab 1-5 Year Corporate Bond   IGSB   0.05   123.6   4.28   -   -	== =						
Shares 1-5 Yr Inv Grade Corporate Bond   IGSB   0.06   20,460.4   4.25   4.09   3.05					4.28	-	-
Vanguard Short-Term Bond						4.09	3.05
WisdomTree Yield Enh US Short-Term Agg         SHAG         0.12         128.7         4.07         3.51         -           Vanguard Short-Term Corporate Bond         VCSH         0.05         34,152.4         4.04         3.85         3.28           iShares ESG Aware 1-5 Year USD Corporate         SUSB         0.12         445.1         4.03         3.78           iShares 0-5 Year Inv Grade Corporate Bond         SPSB         0.07         7.028.7         3.27         3.23         2.67           JPMorgan Ultra-Short Income         JPST         0.18         14,931.1         1.92         2.55         -           PIMCO Enh Short Maturity Active ESG         EMNT         0.24         133.1         1.89         -           Shares Ultra Short-Term Bond         ICSH         0.08         4,922.7         1.50         2.38         1.89           Goldman Sachs Access Ultra Short Bond         GSST         0.16         170.0         1.43         -         -           PIMCO Enhanced Short Maturity Active         MINT         0.36         14,448.8         1.40         2.20         2.08           SPDR SSgA Ultra Short Term Bond         ULST         0.20         302.2         1.29         2.23         1.87           PGIM Ultra Short Matur						• • • • • • • • • • • • • • • • • • • •	
Vanguard Short-Term Corporate Bond   VCSH   0.05   34,152.4   4.04   3.85   3.28   Shares ESG Aware 1-5 Year USD Corporate   SUSB   0.12   445.1   4.03   3.78	<del>-</del>					•	-
Shares 0-5 Year Inv Grade Corporate Bond   SLQD   0.06   2,063.0   3.90   3.65   3.00   SPDR Portfolio Short Term Corporate Bond   SPSB   0.07   7,028.7   3.27   3.23   2.67   JPMorgan Ultra-Short Income   JPST   0.18   14,931.1   1.92   2.55   -	<del></del>	VCSH					3.28
SPDR Portfolio Short Term Corporate Bond         SPSB         0.07         7,028.7         3.27         3.23         2.67           JPMorgan Ultra-Short Income         JPST         0.18         14,931.1         1.92         2.55         -           PIMCO Enh Short Maturity Active ESG         EMNT         0.24         133.1         1.89         -         -           Shares Ultra Short Bond         ICSH         0.08         4,922.7         1.50         2.38         1.89           Goldman Sachs Access Ultra Short Bond         GSST         0.16         170.0         1.43         -         -           PIMCO Enhanced Short Maturity Active         MINT         0.36         14.448.8         1.40         2.20         2.08           SPDR SSgA Ultra Short Bond         ULST         0.20         302.2         1.29         2.23         1.87           PGIM Ultra Short Bond         PULS         0.15         1,092.8         1.11         -         -           iShares iBonds Dec 2020 Term Corporate         IBDL         0.10         983.5         1.02         1.87         2.21           Invesco BulletShares 2020 Corporate Bond         BSCK         0.10         1,342.8         0.98         1.78         2.21           Invesco		-*	. *		• • • • • • • • • • • • • • • • • • • •		-
JPNORGAN Ultra-Short Income	iShares 0-5 Year Inv Grade Corporate Bond	SLQD	0.06	2,063.0	3.90	3.65	3.00
PIMCO Enh Short Maturity Active ESG   EMNT   0.24   133.1   1.89   -   -	SPDR Portfolio Short Term Corporate Bond	SPSB	0.07	7,028.7	3.27	3.23	2.67
Shares Ultra Short-Term Bond   ICSH   0.08   4,922.7   1.50   2.38   1.89	JPMorgan Ultra-Short Income	JPST	0.18	14,931.1	1.92	2.55	-
Coldman Sachs Access Ultra Short Bond   GSST   0.16   170.0   1.43	PIMCO Enh Short Maturity Active ESG	EMNT	0.24	133.1	1.89	-	-
PIMCO Enhanced Short Maturity Active   MINT   0.36   14,448.8   1.40   2.20   2.08	iShares Ultra Short-Term Bond	ICSH	0.08	4,922.7	1.50	2.38	1.89
SPDR SSgA Ultra Short Term Bond         ULST         0.20         302.2         1.29         2.23         1.87           PGIM Ultra Short Bond         PULS         0.15         1,092.8         1.11         -         -           iShares iBonds Dec 2020 Term Corporate         IBDL         0.10         983.5         1.02         1.87         2.21           Invesco BulletShares 2020 Corporate Bond         BSCK         0.10         1,342.8         0.98         1.78         2.21           ClearShares Ultra-Short Maturity         OPER         0.20         120.1         0.59         -         -           AdvisorShares Sage Core Reserves         HOLD         0.36         111.0         -0.05         1.53         1.40           U.S. FIXED INCOME: CORPORATE - INVESTMENT GRADE - INTERMEDIATE         Invesco BulletShares 2026 Corporate Bond         BSCQ         0.10         308.0         7.45         6.29         -           Schwab 5-10 Year Corporate Bond         SCHI         0.05         171.3         7.02         -         -           Schwab 5-10 Year Inv Grade Corporate         IBDR         0.10         552.2         6.91         6.17         -           FlexShares Credit-Scored US Corporate Bond         BSCS         0.10         141.8         6.76	Goldman Sachs Access Ultra Short Bond	GSST	0.16	170.0	1.43	<u>-</u>	-
Policy   P	PIMCO Enhanced Short Maturity Active	MINT	0.36	14,448.8	1.40	2.20	2.08
Invesco BulletShares 2020 Term Corporate   IBDL   0.10   983.5   1.02   1.87   2.21	SPDR SSgA Ultra Short Term Bond	ULST	0.20	302.2	1.29	2.23	1.87
Invesco BulletShares 2020 Corporate Bond   BSCK   0.10   1,342.8   0.98   1.78   2.21	PGIM Ultra Short Bond	PULS	0.15	1,092.8	1.11		<del>-</del>
ClearShares Ultra-Short Maturity	iShares iBonds Dec 2020 Term Corporate	IBDL	0.10	983.5	1.02	1.87	2.21
No.	Invesco BulletShares 2020 Corporate Bond	BSCK	0.10	1,342.8	0.98	1.78	2.21
Invesco BulletShares 2026 Corporate Bond   BSCQ   0.10   308.0   7.45   6.29   -	ClearShares Ultra-Short Maturity	OPER	0.20	120.1	0.59	<u>-</u>	<del>.</del>
Invesco BulletShares 2026 Corporate Bond   SCQ   0.10   308.0   7.45   6.29   -	· ·				-0.05	1.53	1.40
Schwab 5-10 Year Corporate Bond         SCHI         0.05         171.3         7.02         -         -           iShares iBonds Dec 2026 Term Corporate         IBDR         0.10         552.2         6.91         6.17         -           FlexShares Credit-Scored US Corporate         SKOR         0.22         202.6         6.85         5.33         4.57           iShares 5-10 Year Inv Grade Corporate         IGIB         0.06         10,906.2         6.78         6.69         5.22           Invesco BulletShares 2028 Corporate Bond         BSCS         0.10         141.8         6.76         -         -           Vanguard Intermediate-Term Corporate         VCIT         0.05         39,396.0         6.71         6.23         5.66           iShares iBonds Dec 2025 Term Corporate         IBDQ         0.10         841.9         6.53         5.78         5.62           iShares iBonds Dec 2027 Term Corporate         IBDS         0.10         700.2         6.15         5.58         5.09           SPDR Portfolio Intermediate Corporate         SPIB         0.07         5,980.1         5.75         5.03         4.44           Invesco BulletShares 2024 Corporate Bond         BSCO         0.10         1,139.7         5.30         4.88         <			RADE - INTER				
IBDR   0.10   552.2   6.91   6.17		-*	. *			6.29	<del>-</del>
FlexShares Credit-Scored US Corporate   SKOR   0.22   202.6   6.85   5.33   4.57					• • • • • • • • • • • • • • • • • • • •		······-
iShares 5-10 Year Inv Grade Corporate         IGIB         0.06         10,906.2         6.78         6.69         5.22           Invesco BulletShares 2028 Corporate Bond         BSCS         0.10         141.8         6.76         -         -           Vanguard Intermediate-Term Corporate         VCIT         0.05         39,396.0         6.71         6.23         5.66           iShares iBonds Dec 2025 Term Corporate         IBDQ         0.10         841.9         6.53         5.78         5.62           iShares iBonds Dec 2027 Term Corporate         IBDS         0.10         337.9         6.27         6.15         -           Invesco BulletShares 2025 Corporate Bond         BSCP         0.10         700.2         6.15         5.58         5.09           SPDR Portfolio Intermediate Corporate         SPIB         0.07         5,980.1         5.75         5.03         4.44           Invesco BulletShares 2024 Corporate Bond         BSCO         0.10         1,139.7         5.30         4.88         5.01           IShares iBonds Dec 2023 Term Corporate         IBDO         0.10         1,302.9         4.65         4.19         4.43           American Century Diversified Corporate         KORP         0.29         136.5         4.45         -					• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
Invesco BulletShares 2028 Corporate Bond   BSCS   0.10   141.8   6.76   -   -					• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	*
Vanguard Intermediate-Term Corporate         VCIT         0.05         39,396.0         6.71         6.23         5.66           iShares iBonds Dec 2025 Term Corporate         IBDQ         0.10         841.9         6.53         5.78         5.62           iShares iBonds Dec 2027 Term Corporate         IBDS         0.10         337.9         6.27         6.15         -           Invesco BulletShares 2025 Corporate Bond         BSCP         0.10         700.2         6.15         5.58         5.09           SPDR Portfolio Intermediate Corporate         SPIB         0.07         5,980.1         5.75         5.03         4.44           Invesco BulletShares 2024 Corporate Bond         BSCO         0.10         1,139.7         5.30         4.88         5.01           iShares iBonds Dec 2024 Term Corporate         IBDP         0.10         1,035.3         4.72         4.69         4.92           iShares iBonds Dec 2023 Term Corporate         IBDO         0.10         1,302.9         4.65         4.19         4.43           American Century Diversified Corporate         KORP         0.29         136.5         4.45         -         -           Invesco BulletShares 2023 Corporate Bond         BSCN         0.10         1,415.6         4.31 <td< td=""><td></td><td></td><td></td><td></td><td>• • • • • • • • • • • • • • • • • • • •</td><td>6.69</td><td>5.22</td></td<>					• • • • • • • • • • • • • • • • • • • •	6.69	5.22
iShares iBonds Dec 2025 Term Corporate         IBDQ         0.10         841.9         6.53         5.78         5.62           iShares iBonds Dec 2027 Term Corporate         IBDS         0.10         337.9         6.27         6.15         -           Invesco BulletShares 2025 Corporate Bond         BSCP         0.10         700.2         6.15         5.58         5.09           SPDR Portfolio Intermediate Corporate         SPIB         0.07         5,980.1         5.75         5.03         4.44           Invesco BulletShares 2024 Corporate Bond         BSCO         0.10         1,139.7         5.30         4.88         5.01           iShares iBonds Dec 2024 Term Corporate         IBDP         0.10         1,035.3         4.72         4.69         4.92           iShares iBonds Dec 2023 Term Corporate         IBDO         0.10         1,302.9         4.65         4.19         4.43           American Century Diversified Corporate         KORP         0.29         136.5         4.45         -         -           Invesco BulletShares 2023 Corporate Bond         BSCN         0.10         1,415.6         4.31         4.12         4.52           Inspire Corporate Bond Impact         IBD         0.50         160.3         3.76         3.41							
iShares iBonds Dec 2027 Term Corporate         IBDS         0.10         337.9         6.27         6.15         -           Invesco BulletShares 2025 Corporate Bond         BSCP         0.10         700.2         6.15         5.58         5.09           SPDR Portfolio Intermediate Corporate         SPIB         0.07         5,980.1         5.75         5.03         4.44           Invesco BulletShares 2024 Corporate Bond         BSCO         0.10         1,139.7         5.30         4.88         5.01           iShares iBonds Dec 2024 Term Corporate         IBDP         0.10         1,035.3         4.72         4.69         4.92           iShares iBonds Dec 2023 Term Corporate         IBDO         0.10         1,302.9         4.65         4.19         4.43           American Century Diversified Corporate         KORP         0.29         136.5         4.45         -         -           Invesco BulletShares 2023 Corporate Bond         BSCN         0.10         1,415.6         4.31         4.12         4.52           Inspire Corporate Bond Impact         IBD         0.50         160.3         3.76         3.41         -           Invesco BulletShares 2022 Corporate Bond         BSCM         0.10         2,099.3         3.32         3.40	X						•
Invesco BulletShares 2025 Corporate Bond   BSCP   0.10   700.2   6.15   5.58   5.09	••••••••••••					•	3.02
SPDR Portfolio Intermediate Corporate         SPIB         0.07         5,980.1         5,75         5.03         4.44           Invesco BulletShares 2024 Corporate Bond         BSCO         0.10         1,139.7         5.30         4.88         5.01           iShares iBonds Dec 2024 Term Corporate         IBDP         0.10         1,035.3         4.72         4.69         4.92           iShares iBonds Dec 2023 Term Corporate         IBDO         0.10         1,302.9         4.65         4.19         4.43           American Century Diversified Corporate         KORP         0.29         136.5         4.45         -         -           Invesco BulletShares 2023 Corporate Bond         BSCN         0.10         1,415.6         4.31         4.12         4.52           Invesco BulletShares 2022 Corporate Bond         BSCM         0.10         2,099.3         3.32         3.40         3.79           iShares iBonds Dec 2022 Term Corporate         IBDN         0.10         1,419.9         3.17         3.35         3.68           Invesco BulletShares 2021 Corporate Bond         BSCL         0.10         2,094.0         2.09         2.51         2.99							5.00
Invesco BulletShares 2024 Corporate Bond   BSCO   0.10   1,139.7   5.30   4.88   5.01     Ishares iBonds Dec 2024 Term Corporate   IBDP   0.10   1,035.3   4.72   4.69   4.92     Ishares iBonds Dec 2023 Term Corporate   IBDO   0.10   1,302.9   4.65   4.19   4.43     American Century Diversified Corporate   KORP   0.29   136.5   4.45   -			. *				
Ishares iBonds Dec 2024 Term Corporate         IBDP         0.10         1,035.3         4.72         4.69         4.92           Ishares iBonds Dec 2023 Term Corporate         IBD0         0.10         1,302.9         4.65         4.19         4.43           American Century Diversified Corporate         KORP         0.29         136.5         4.45         -         -           Invesco BulletShares 2023 Corporate Bond         BSCN         0.10         1,415.6         4.31         4.12         4.52           Inspire Corporate Bond Impact         IBD         0.50         160.3         3.76         3.41         -           Invesco BulletShares 2022 Corporate Bond         BSCM         0.10         2,099.3         3.32         3.40         3.79           IShares iBonds Dec 2022 Term Corporate         IBDN         0.10         1,419.9         3.17         3.35         3.68           Invesco BulletShares 2021 Corporate Bond         BSCL         0.10         2,094.0         2.09         2.51         2.99			. *		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
iShares iBonds Dec 2023 Term Corporate         IBDO         0.10         1,302.9         4.65         4.19         4.43           American Century Diversified Corporate         KORP         0.29         136.5         4.45         -         -           Invesco BulletShares 2023 Corporate Bond         BSCN         0.10         1,415.6         4.31         4.12         4.52           Inspire Corporate Bond Impact         IBD         0.50         160.3         3.76         3.41         -           Invesco BulletShares 2022 Corporate Bond         BSCM         0.10         2,099.3         3.32         3.40         3.79           iShares iBonds Dec 2022 Term Corporate         IBDN         0.10         1,419.9         3.17         3.35         3.68           Invesco BulletShares 2021 Corporate Bond         BSCL         0.10         2,094.0         2.09         2.51         2.99					• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	***************************************
American Century Diversified Corporate         KORP         0.29         136.5         4.45         -         -           Invesco BulletShares 2023 Corporate Bond         BSCN         0.10         1,415.6         4.31         4.12         4.52           Inspire Corporate Bond Impact         IBD         0.50         160.3         3.76         3.41         -           Invesco BulletShares 2022 Corporate Bond         BSCM         0.10         2,099.3         3.32         3.40         3.79           iShares iBonds Dec 2022 Term Corporate         IBDN         0.10         1,419.9         3.17         3.35         3.68           Invesco BulletShares 2021 Corporate Bond         BSCL         0.10         2,094.0         2.09         2.51         2.99							***************************************
Invesco BulletShares 2023 Corporate Bond         BSCN         0.10         1,415.6         4.31         4.12         4.52           Inspire Corporate Bond Impact         IBD         0.50         160.3         3.76         3.41         -           Invesco BulletShares 2022 Corporate Bond         BSCM         0.10         2,099.3         3.32         3.40         3.79           iShares iBonds Dec 2022 Term Corporate         IBDN         0.10         1,419.9         3.17         3.35         3.68           Invesco BulletShares 2021 Corporate Bond         BSCL         0.10         2,094.0         2.09         2.51         2.99							
Inspire Corporate Bond Impact         IBD         0.50         160.3         3.76         3.41         -           Invesco BulletShares 2022 Corporate Bond         BSCM         0.10         2,099.3         3.32         3.40         3.79           iShares iBonds Dec 2022 Term Corporate         IBDN         0.10         1,419.9         3.17         3.35         3.68           Invesco BulletShares 2021 Corporate Bond         BSCL         0.10         2,094.0         2.09         2.51         2.99						4.12	4.52
Invesco BulletShares 2022 Corporate Bond         BSCM         0.10         2,099.3         3.32         3.40         3.79           iShares iBonds Dec 2022 Term Corporate         IBDN         0.10         1,419.9         3.17         3.35         3.68           Invesco BulletShares 2021 Corporate Bond         BSCL         0.10         2,094.0         2.09         2.51         2.99						•	-
iShares iBonds Dec 2022 Term Corporate         IBDN         0.10         1,419.9         3.17         3.35         3.68           Invesco BulletShares 2021 Corporate Bond         BSCL         0.10         2,094.0         2.09         2.51         2.99							3.79
Invesco BulletShares 2021 Corporate Bond BSCL 0.10 2,094.0 2.09 2.51 2.99							
						• • • • • • • • • • • • • • • • • • • •	*******************
	iShares iBonds Dec 2021 Term Corporate	IBDM		1,552.6	2.00		2.84

FUND NAME J.S. Fixed income: corporate - invest		EXP RATIO %		YTD %	3YR %	5YR %
nvesco Variable Rate Investment Grade	VRIG	0.30	453.1	1.15	2.21	_
/anEck Vectors Inv Grade Floating Rate	FLTR	0.14	440.3	0.98	2.50	2.45
Shares Floating Rate Bond	FLOT	0.20	5,592.2	0.68	2.08	1.90
SPDR BB Investment Grade Floating Rate	FLRN	0.15	2,584.7	0.60	2.07	1.96
I.S. FIXED INCOME: CORPORATE - HIGH Y						
Shares Fallen Angels USD Bond	FALN	0.25	322.2	6.02	5.80	-
Pacer Trendpilot US Bond	PTBD	0.60	314.3	4.59		<del>-</del>
/anEck Vectors Fallen Angel HiYld Bond	ANGL	0.35	3,265.2	4.12	5.22	8.66
Goldman Sachs Access HiYld Corp	GHYB	0.34	159.9	0.89	4.01	-
SPDR Portfolio High Yield Bond	SPHY	0.15	143.5	0.64	3.53	4.93
PMorgan High Yield Research Enhanced	JPHY	0.24	234.9	0.50	3.89	-
Q S&P High Yield Low Volatility Bond	HYLV	0.40	107.7	0.41	4.41	-
Shares Broad USD HiYld Corp	USHY	0.15	6,164.4	0.36	3.80	
FlexShares High Yield Value-Scored Bond	HYGV	0.37	189.7	0.16	-	<del>-</del>
SPDR Bloomberg Barclays High Yield Bond	JNK	0.40	12,019.9	-0.74	3.30	4.89
Shares iBoxx USD HiYld Corp	HYG	0.49	23,839.3	-0.85	3.44	4.96
(trackers USD HiYld Corp	HYLB	0.15	6,546.1	-0.90	3.46	
nvesco Senior Loan	BKLN	0.65	3,963.3	-3.03	1.82	2.87
ligh Yield	HYLD	1.29	102.9	-3.03 -3.26	1.73	4.05
·· <del>·</del>				-3.26 -5.79	***************************************	*
VisdomTree Int Rate Hedged HiYld Bond	HYZD TELD - SHO	0.43	126.0	-0.78	0.42	3.46
J.S. FIXED INCOME: CORPORATE - HIGH Y SPDR Short Term High Viold Bond			2 212 2	U 36	2 12	4 60
SPDR Short Term High Yield Bond	SJNK	0.40	3,313.2	0.36	3.12	4.69
nvesco BulletShares 2020 HiYld Corp Shares 0-5 Year HiYld Corp	BSJK	0.42	636.5 4,921.6	-1.01	1.71	3.77 4.36
	SHYG	0.30		-1.59	2.67	• · · · · · · · · · · · · · · · · · · ·
PIMCO 0-5 Year HiYld Corp	HYS	0.56	1,448.9	-2.48	2.26	4.45
J.S. FIXED INCOME: CORPORATE - HIGH Y				0.17	0.00	4.71
/anguard Intermediate-Term Bond	BIV	0.05	14,903.0	8.17	6.00	4.71
Shares Intermediate Govt/Credit Bond	GVI	0.20	2,286.9	5.60	4.17	3.20
nvesco Fundamental HiYld Corp	PHB	0.50	812.0	-0.25	3.35	4.76
nvesco BulletShares 2025 HiYld Corp Bond	BSJP	0.42	136.3	-1.21	3.38	
nvesco BulletShares 2024 HiYld Corp Bond	BSJ0	0.42	183.0	-1.99	2.93	
nvesco BulletShares 2023 HiYld Corp Bond	BSJN	0.42	413.5	-2.29	2.48	4.45
nvesco BulletShares 2022 HiYld Corp Bond	BSJM	0.42	665.1	-3.22	1.61	4.35
nvesco BulletShares 2021 HiYld Corp Bond	BSJL	0.42	987.2	-3.96	1.64	3.97
J.S. FIXED INCOME: CORPORATE - ASSET-						
Shares CMBS	CMBS	0.25	491.6	6.27	4.97	4.05
J.S. FIXED INCOME: CORPORATE - CONVE						
Shares Convertible Bond	ICVT	0.20	868.7	30.34	16.68	14.78
SPDR Bloomberg Barclays Conv Securities	CWB	0.40	5,266.0	25.97	14.60	13.63
J.S. FIXED INCOME: CORPORATE - PREFE						
nnovator S&P Inv Grade Preferred	EPRF	0.47	126.8	3.24	5.32	-
Global X US Preferred	PFFD	0.23	773.7	2.99	5.23	
nvesco Financial Preferred	PGF	0.61	1,649.4	2.75	4.95	5.58
SPDR Wells Fargo Preferred Stock	PSK	0.45	1,262.8	2.01	4.61	5.04
nvesco Preferred	PGX	0.52	6,396.8	1.94	4.89	5.51
Shares Preferred and Income Securities	PFF	0.46	17,504.1	0.51	3.64	4.22
/anEck Vectors Preferred Sec ex Financials	PFXF	0.41	758.2	-0.88	4.47	5.32
nvesco Variable Rate Preferred	VRP	0.50	1,443.1	-0.99	3.22	5.28
GLOBAL FIXED INCOME						
First Trust SSI Strategic Convertible Sec	FCVT	0.95	242.3	23.44	13.70	-
nvesco Total Return Bond	GT0	0.50	463.9	8.18	6.75	-
First Trust TCW Opportunistic Fixed Inc	FIXD	0.55	4,220.8	7.19	5.54	-
PMorgan Core Plus Bond	JCPB	0.40	111.0	7.19	-	-
idelity Total Bond	FBND	0.36	1,531.1	7.10	5.46	5.04
lartford Total Return Bond	HTRB	0.30	761.7	6.70	5.21	-
Vestern Asset Total Return	WBND	0.47	162.9	6.13	-	-
Shares Global Green Bond	BGRN	0.20	133.6	5.89	-	-
PIMCO Active Bond	BOND	0.73	3,856.7	5.58	4.88	4.34
RiverFront Dynamic Core Income	RFCI	0.52	112.2	5.28	4.25	
Columbia Diversified Fixed Inc Allocation	DIAL	0.28	536.4	5.09	5.58	
	BNDW	0.06	455.4	5.04		-
/anguard lotal World Bond					***************************************	• · · · · · · · · · · · · · · · · · · ·
/anguard Total World Bond SPDR Dorsev Wright Fixed Inc Allocation	DWFI	0.60	115.6	4.93	1.82	-
SPDR Dorsey Wright Fixed Inc Allocation	DWFI	0.60	115.6 951.2	4.93 4.78	1.82 3.58	3 /17
···· <del>-</del> -·····	DWFI BWX FLTB	0.60 0.35 0.36	115.6 951.2 196.6	4.93 4.78 4.62	1.82 3.58 3.73	3.47 2.94

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
PIMCO Enhanced Low Duration Active	LDUR	0.79	695.5	4.33	3.27	2.96
First Trust TCW Unconstrained Plus Bond	UCON	0.75	221.3	3.96	-	-
Vanguard Total International Bond	BNDX	0.08	33,980.8	3.87	5.00	4.30
Shares Core International Aggregate Bond	IAGG	0.09	3,205.7	3.84	4.92	-
IPMorgan Intl Bond Opportunities	JPIB	0.50	165.8	2.87	3.91	-
Janus Henderson Short Duration Income	VNLA	0.26	2,676.5	2.72	2.92	-
SPDR DoubleLine Total Return Tactical	TOTL	0.55	3,213.7	2.54	3.32	3.12
SPDR DoubleLine Short Dur Tot Ret Tactical	STOT	0.45	146.7	2.05	2.45	-
SPDR Short Term Intl Treasury Bond	BWZ	0.35	242.2	2.02	0.45	1.33
FlexShares Ready Access Variable Income	RAVI	0.25	469.2	1.87	2.41	1.90
RiverFront Strategic Income	RIGS	0.47	117.9	1.66	2.98	4.19
Invesco Ultra Short Duration	GSY	0.23	3,011.6	1.57	2.47	2.17
Anfield Universal Fixed Income	AFIF	1.32	99.0	1.46	-	-
Franklin Liberty Intl Aggregate Bond	FLIA	0.25	229.5	1.09	-	-
Shares Short Maturity Bond	NEAR	0.25	4,398.6	1.08	2.14	1.86
ETFMG Sit Ultra Short	VALT	0.30	105.8	0.66	-	-
IQ Ultra Short Duration	ULTR	0.25	196.1	0.26	-	-
Aware Ultra-Short Duration Enhanced Inc	AWTM	0.23	235.6	-0.23	-	-
First Trust Preferred Securities & Income	FPE	0.85	5,427.1	-0.60	3.84	5.87
SPDR FTSE Intl Govt Infl-Protected Bond	WIP	0.50	324.4	-0.65	1.83	2.98
Invesco Global Short Term High Yield Bond	PGHY	0.35	196.4	-0.90	1.57	4.08
FormulaFolios Tactical Income	FFTI	1.04	228.8	-3.14	1.21	
Hartford Core Bond	HCRB	0.29	125.8	-		
Janus Henderson AAA CLO	JAAA		119.5	-	-	
GLOBAL FIXED INCOME: CORPORATE - F		STOCK	110.0			
Principal Spectrum Preferred Sec Active	PREF	0.55	178.9	3.11	4.70	-
First Trust Institutional Pref Sec/Income	FPEI	0.85	284.7	0.53	3.75	
Global X SuperIncome Preferred	SPFF	0.58	183.4	-1.16	2.62	2.66
GLOBAL FIXED INCOME: HIGH YIELD	5, 11	0.00	100.4	1.10	2.02	2.00
Fidelity High Yield Factor	FDHY	0.45	129.1	4.89		_
Franklin Liberty High Yield Corporate	FLHY	0.40	218.0	2.11		·····
First Trust Tactical High Yield	HYLS	1.23	1,974.2	0.44	4.09	4.70
SPDR Blackstone / GSO Senior Loan	SRLN	0.70	1,689.4	-1.18	2.70	3.20
First Trust Senior Loan	FTSL	0.86	•	-1.10	• • • • • • • • • • • • • • • • • • • •	
		0.00	1,278.5	-1.00	2.24	2.87
INTERNATIONAL FIXED INCOME: DEVELO Shares International Treasury Bond	IGOV	0.35	1,083.5	5.58	3.01	3.47
Invesco International Corporate Bond	PICB	0.50	***************************************	4.75	3.00	3.33
iShares US & Intl High Yield Corp Bond	GHYG	0.50	118.3 177.0	-0.57	2.84	3.33 4.94
INTERNATIONAL FIXED INCOME: EMERG		U. <del>4</del> U	1//.0	-0.37	2.04	4.34
iShares J.P. Morgan EM Corporate Bond	CEMB	0.50	215.1	2.06	4.25	5.80
ishares J.P. Morgan EW Corporate Bond ishares China Large-Cap	FXI	0.50	• · · · · · · · · · · · · · · · · · · ·	1.93	1.34	5.67
Snares China Large-Cap VanEck Vectors EM High Yield Bond	HYEM	0.40	3,450.7 420.6	-0.34	2.75	5.86
Vaneck vectors EM High Yield Bond Vanguard Emerging Markets Govt Bond			• · · · · · · · · · · · · · · · · · · ·	•••••	•••••	• • • • • • • • • • • • • • • • • • • •
	VW0B	0.25	1,860.4	-0.47	3.53	5.37
Shares JP Morgan USD EM Bond	EMB	0.39	17,187.7	-0.98	2.96	5.17
SPDR Bloomberg Barclays EM Local Bond	EBND	0.30	872.7	-2.88	1.15	3.60
Shares J.P. Morgan EM High Yield Bond	EMHY	0.50	304.0	-4.62	0.59	4.65
Shares JPM EM Local Currency Bond	LEMB	0.30	499.9	-5.06	-1.33	1.75
nvesco Emerging Markets Sovereign Debt	PCY	0.50	2,682.6	-5.65	1.51	4.13
VanEck Vectors JPM EM Local Curr Bond	EMLC	0.30	3,017.7	-5.89	-0.36	2.64
WisdomTree Emerging Markets Local Debt	ELD	0.55	121.5	-7.67	-0.31	2.70
First Trust EM Local Currency Bond	FEMB	0.85	180.3	-8.08	-0.78	2.07
COMMODITIES: BROAD MARKET	00:17	0.50	^^ ^	1.00		
Teucrium Soybean	SOYB	2.50	99.9	1.90	-4.37	-1.98
Teucrium Corn	CORN	3.71	129.7	-9.93	-8.16	-10.40
First Trust Global Tactical Commodity	FTGC	0.95	172.5	-10.25	-5.46	-4.64
Aberdeen Std All Commodity K-1 Free	BCI	0.25	276.7	-10.80	-4.66	<u>-</u>
Path Bloomberg Commodity Total Ret ETN	DJP	0.70	446.6	-13.09	-5.95	-3.93
United States Commodity	USCI	1.03	103.5	-19.60	-10.21	-6.70
Invesco Opt Yld Diversfd Commod No K-1	PDBC	0.59	2,433.0	-20.11	-6.89	-3.17
nvesco DB Commodity Tracking	DBC	0.89	985.7	-20.69	-6.66	-3.05
Shares Commodities Select Strategy	COMT	0.48	195.5	-26.52	-7.04	-2.34
Shares S&P GSCI Commodity	GSG	0.85	676.1	-35.97	-12.47	-9.47
COMMODITIES: AGRICULTURE						
Invesco DB Agriculture	DBA	0.89	547.2	-12.14	-8.41	-6.83
OOMMODITIES ENERGY						
COMMODITIES: ENERGY						

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
Invesco DB Oil	DB0	0.78	373.5	-39.83	-10.46	-10.56
United States 12 Month Oil	USL	0.82	183.9	-41.19	-10.79	-8.46
United States Brent Oil	BN0	0.88	299.8	-54.53	-16.61	-10.71
United States Oil	US0	0.79	3,313.3	-75.36	-33.90	-26.60
COMMODITIES: INDUSTRIAL METALS Invesco DB Base Metals	DBB	0.80	139.8	4.25	-5.06	5.36
COMMODITIES: PRECIOUS METALS	טטט	0.00	135.0	4.35	-3.00	5.50
Aberdeen Standard Physical Silver	SIVR	0.30	737.6	31.99	11.89	8.45
iShares Silver	SLV	0.50	12,880.3	31.83	11.67	8.24
SPDR Gold MiniShares	GLDM	0.18	3,680.3	23.58	-	-
Perth Mint Physical Gold	AAAU	0.18	497.9	23.50	-	-
GraniteShares Gold	BAR	0.17	1,261.7	23.49	13.67	-
Aberdeen Standard Physical Gold	SGOL	0.17	2,655.9	23.46	13.33	10.13
Invesco DB Precious Metals	DBP	0.78	163.0	23.40	11.81	8.47
iShares Gold	IAU	0.25	31,698.1	23.38	13.58	10.18
VanEck Merk Gold	OUNZ	0.25	414.3	23.37	13.50	10.05
SPDR Gold	GLD	0.40	75,601.6	23.30	13.45	10.02
Aberdeen Std Physical Precious Metals	GLTR	0.60	752.7	22.13	13.75	10.14
Invesco DB Gold	DGL	0.78	163.9	21.32	12.06	8.74
Aberdeen Standard Physical Palladium	PALL	0.60	351.4	13.41	30.36	26.09
Aberdeen Standard Physical Platinum	PPLT	0.60	1,075.8	-12.45	-3.18	-3.46
CURRENCY: DEVELOPED						
Invesco CurrencyShares Swiss Franc	FXF	0.40	258.9	4.61	1.66	0.33
Invesco CurrencyShares Japanese Yen	FXY	0.40	252.8	3.27	2.24	2.36
Invesco CurrencyShares Euro	FXE	0.40	334.5	3.05	-0.85	0.33
Invesco CurrencyShares Australian Dollar	FXA	0.40	153.7	-0.14	-2.46	0.30
Invesco CurrencyShares British Pound	FXB	0.40	130.9	-2.48	-1.02	-3.69
Invesco CurrencyShares Canadian Dollar	FXC	0.40	136.2	-2.61	-0.71	-0.28
ASSET ALLOCATION						
Aptus Defined Risk	DRSK	0.78	490.7	11.92	<b></b>	<u>-</u>
Cambria Tail Risk	TAIL	0.59	409.4	11.65	-1.25	<del>-</del>
WisdomTree 90/60 US Balanced	NTSX	0.20	348.7	9.46		<del>-</del>
Amplify BlackSwan Growth/Treasury Core	SWAN	0.49	707.0	7.68		<del>.</del>
iShares Core Conservative Allocation	AOK	0.25	774.6	3.21	4.91	5.32
iShares Core Moderate Allocation	AOM	0.25	1,294.4	2.30	4.89	5.73
ClearShares OCIO	0010	0.62	109.5	0.77	3.84	<u>-</u>
iShares Core Growth Allocation	AOR	0.25	1,432.6	0.73	4.86	6.57
iShares Core Aggressive Allocation	AOA	0.25	1,025.2	-0.94	4.83	7.24
SPDR SSgA Global Allocation	GAL	0.35	246.5	-2.90	3.38	5.13
DeltaShares S&P 500 Managed Risk	DMRL	0.35	367.1	-5.04	4.99	-
Principal Active Income	YLD	0.49	220.7	-5.28	1.82	4.64
Invesco CEF Income Composite	PCEF	2.55	711.5	-9.59	1.01	5.71
iShares Mstar Multi-Asset Income	IYLD	0.60	254.8	-10.35	0.20	3.39
Amplify High Income	YYY	2.28	223.7	-12.57	-1.37	3.85
DeltaShares S&P Intl Managed Risk	DMRI	0.50	163.3	-15.98	-4.00	<u>-</u>
Multi-Asset Diversified Income	MDIV	0.73	432.6	-24.51	-4.98	-0.89
Invesco Zacks Multi-Asset Income	CVY	0.94	105.8	-27.13	-4.90	0.70
Cabana Target Drawdown 10	TDSC	0.69	502.2		<del>-</del>	<del>-</del>
Cabana Target Drawdown 7	TDSB	0.68	329.0	<u> </u>	<del>-</del>	<del>-</del>
Cabana Target Drawdown 13	TDSD	0.68	158.4	-	-	-
ALTERNATIVES: ABSOLUTE RETURN	00*0	0.50	777.0	0.40		
RPAR Risk Parity	RPAR	0.50	777.3	8.46		
AGFiQ US Market Neutral Anti-Beta	BTAL	2.11	218.4	3.21	6.15	2.82
IQ Merger Arbitrage	MNA	0.77	742.5	3.04	3.32	4.64
IQ Hedge Multi-Strategy Tracker	QAI	0.78	738.7	0.16	2.07	2.08
First Trust Long/Short Equity	FTLS	1.60	306.7	-2.06	4.05	5.78
Core Alternative	CCOR	1.09	118.9	-2.40	3.34	
WisdomTree Managed Futures Strategy	WTMF	0.65	111.8	-6.15	-2.32	-2.38
ALTERNATIVES: TACTICAL TOOLS	1004	0.07	100 1	02.57	01.05	F 01
ProShares VIX Mid-Term Futures	VIXM	0.87	106.1	93.57	21.25	-5.21
iPath Series B S&P 500 VIX Short Futs ETN	VXX	0.89	1,247.2	75.46		
ProShares VIX Short-Term Futures	VIXY	0.85	315.0	74.82	-8.28	-38.68
MicroSectors FANC + 3Y Leveraged FTN	ENCII	0.05	027 /	102.02		
MicroSectors FANG + 3X Leveraged ETN  MicroSectors FANG + 2X Leveraged ETN	FNGU	0.95	937.4	193.03	<del>-</del>	······
MicroSectors FANG+ 2X Leveraged ETN	FNG0	0.95	149.1	141.06	-	-

FUND NAME	TICKER	EXP RATIO %	AUM (\$M)	YTD %	3YR %	5YR %
ProShares Ultra VIX Short-Term Futures	UVXY	0.95	1,505.1	67.42	-34.44	-72.65
DB Gold Double Long ETN	DGP	0.75	136.7	44.54	22.68	15.81
ProShares Ultra QQQ	QLD	0.95	3,073.7	40.31	34.73	33.68
Direxion Daily 20+ Year Treasury Bull 3X	TMF	1.05	291.6	39.08	21.24	13.63
ProShares Ultra Gold	UGL	0.95	276.9	37.41	20.15	14.21
ProShares Ultra Technology	ROM	0.95	590.2	36.35	35.76	39.88
ProShares UltraPro QQQ	TQQQ	0.95	8,777.3	35.70	39.53	42.62
ProShares Ultra Silver	AGQ	0.95	604.5	34.25	8.47	4.26
Direxion Daily CSI 300 China A Sh Bull 2X	CHAU	1.21	98.7	34.19	5.12	8.94
Credit Suisse FI Large Cap Growth Enh ETN	FLGE	1.52	242.1	24.02	24.91	26.54
UBS AG FI Enhanced Large Cap Growth ETN	FBGX	1.29	126.1	24.00	25.04	26.62
Direxion Daily Technology Bull 3X	TECL	1.08	1,779.9	6.30	33.96	46.33
ProShares Ultra NASDAQ Biotechnology	BIB	0.95	195.2	4.78	6.13	-0.71
Direxion Daily S&P Biotech Bull 3X	LABU	1.04	314.2	-6.49	-10.87	-6.76
ProShares Ultra S&P 500	SS0	0.91	2,329.4	-7.60	11.80	16.97
Direxion Daily Semiconductor Bull 3X	SOXL	0.96	1,387.4	-9.29	19.61	57.95
Virtus InfraCap US Preferred Stock	PFFA	2.01	146.0	-21.35	<del>-</del>	<del>-</del>
ProShares Ultra Dow30	DDM	0.95	303.2	-23.22	3.43	15.06
Direxion Daily FTSE China Bull 3X	YINN	1.37	270.8	-23.72	-18.83	-4.27
Direxion Daily Healthcare Bull 3x	CURE	1.08	103.3	-23.97	8.78	11.71
ProShares UltraPro S&P500	UPR0	0.93	1,430.6	-26.74	7.71	18.68
Direxion Daily S&P 500 Bull 3X	SPXL	1.01	1,375.4	-27.07	7.68	18.43
ProShares Ultra MidCap400	MVV	0.95	109.8	-27.73	-4.69	6.71
ProShares Ultra Russell2000	UWM	0.95	135.4	-28.58	-6.35	6.13
Direxion Daily MSCI EM Bull 3x	EDC	1.33	138.2	-32.47	-19.03	1.37
Direxion Homebuildera/Supplies Bull 3X	NAIL	0.99	378.6	-41.82	-17.44	6.76
ProShares Ultra Financials	UYG	0.95	428.4	-44.70	-8.23	5.02
ProShares UltraPro Dow30	UDOW	0.95	624.4	-45.88	-4.93	15.29
Direxion Daily Small Cap Bull 3x	TNA	1.12	867.4	-55.27	-21.08	-1.10
ProShares UltraPro Russell2000	URTY	0.95	172.8	-55.30	-20.98	-0.84
Direxion Daily Gold Miners Bull 2X	NUGT	1.17	973.0	-55.87	-18.85	-10.91
Direxion Daily Financial Bull 3x	FAS	0.99	1,328.9	-64.23	-16.99	2.67
Credit Suisse Mo 2xLev Mort REIT ETN	REML	1.30	107.9	-82.27	-38.32	····· <del>·</del>
Direxion Daily Aerospace/Def Bull 3X	DFEN	0.99	195.0	-84.40	-38.66	
Direxion Daily Junior Gold Miners Bull 2X	JNUG	1.12	629.7	-85.89	-46.11	-31.63
Direxion Daily Regional Banks Bull 3X	DPST	0.99	109.4	-87.26	-53.29	-27.96
Direxion Daily Energy Bull 2x	ERX	1.06	255.2	-95.12	-68.79	-51.90 -35.46
Direxion Daily MSCI Brazil Bull 2X ProShares Ultra Bloomberg Crude Oil	BRZU UCO	1.29 0.95	165.8 1,024.0	-95.41 -95.57	-64.29 -64.02	-54.39
Direxion S&P Oil/Gas Exp/Prod Bull 2X	GUSH	1.17	343.6	-98.66	-87.35	-76.23
INVERSE	dosii	1.17	343.0	-30.00	-07.55	-70.23
Invesco DB US Dollar Bullish	UUP	0.79	451.5	-2.31	2.13	0.73
ProShares Short Dow30	DOG	0.95	427.9	-7.30	-9.65	-12.26
ProShares Short Russell2000	RWM	0.95	399.9	-10.37	-7.89	-11.17
Direxion Daily S&P 500 Bear 1X	SPDN	0.50	166.1	-12.97	-11.72	-
ProShares Short S&P500	SH	0.90	3,000.2	-13.49	-12.10	-12.41
AdvisorShares Ranger Equity Bear	HDGE	3.36	136.4	-17.16	-19.12	-15.81
ProShares Short 20+ Year Treasury	TBF	0.94	209.7	-18.79	-10.03	-7.86
AdvisorShares Dorsey Wright Short	DWSH	3.67	100.3	-21.15	-	
ProShares UltraShort Dow30	DXD	0.95	170.6	-24.53	-23.61	-26.24
ProShares Short QQQ	PSQ	0.95	797.9	-30.91	-21.85	-19.64
ProShares UltraShort Russell2000	TWM	0.95	102.2	-31.91	-22.01	-25.63
ProShares UltraShort S&P500	SDS	0.91	1,053.5	-33.19	-27.32	-26.28
ProShares UltraShort 20+ Year Treasury	TBT	0.92	485.5	-36.73	-21.38	-16.87
ProShares UltraPro Short Dow30	SDOW	0.95	573.2	-46.42	-39.21	-40.53
Direxion Daily Financial Bear 3X	FAZ	1.07	274.6	-46.96	-39.37	-40.99
ProShares Short VIX Short-Term Futures	SVXY	1.38	298.3	-48.29	-57.17	-22.63
Direxion Daily S&P 500 Bear 3X	SPXS	1.07	773.9	-53.99	-43.21	-40.52
ProShares UltraPro Short S&P500	SPXU	0.93	932.6	-54.08	-43.05	-40.24
Direxion Daily Small Cap Bear 3X	TZA	1.07	527.2	-55.82	-38.02	-40.86
ProShares UltraPro Short Russell2000	SRTY	0.95	149.3	-56.31	-38.79	-41.14
ProShares UltraShort QQQ	QID	0.95	295.4	-57.98	-43.40	-38.70
ProShares UltraPro Short QQQ	SQQQ	0.95	1,430.0	-77.58	-61.76	-55.48
Direxion Daily Gold Miners Bear 2x	DUST	1.07	104.7	-85.60	-68.89	-74.71

LAST WORD By Heather Bell



2020'S BRIGHT SPOT: ETFs



HEATHER BELL ETF Report Editor

It's early November at this writing, but really, the end of the year can't come fast enough. With a global pandemic that has killed more than 1 million globally, a highly polarizing presidential race, and a bruised and battered economy, it's hard to see the bright side of this calendar year.

But in the world of ETFs, 2020's light shined brightly, astonishing given the pandemic's devastating impact on markets and the economy in March. As the year moved into the second quarter, the long-anticipated arrival of the first nontransparent active ETFs signaled a banner day for the industry. The active model in all its disclosure stripes was complete, with the newest change making the ETF space more welcoming to active mutual fund managers.

Will this open the floodgates to mutual fund companies that have shunned ETFs for myriad reasons? A main sticking point had been the inability to replicate winning active strategies in an ETF due to traditional active ETFs' frequency of disclosure.

We don't have much proof that investors are itching to get their hands on traditional active management in an ETF wrapper. Instead, it seems issuers are the ones talking up this demand. Roughly a dozen ETFs of this type rolled out this year, but while reception was warm, it was also muted. It remains to be seen if the reason goes beyond the fact that they rolled out on very unsteady ground.

### **Industry Renovation?**

But if they *do* take off, buoyed by the enthusiasm of those silent investors, it could reshape the industry entirely, drawing in mutual fund companies in greater numbers and bringing active management once again to the forefront. If they don't,

well, that seems like the blow that would permanently consign active management to a satellite strategy rather than the core of a portfolio.

Overall, the ETF industry is showing very healthy signs. Ten months in, the yearly record for closures has already been smashed to pieces, and there's even a real possibility that the record for launches will also be broken by the year's close. New ideas following failed ones is the key to innovation.

### **Innovation Pace Thriving**

The ETF concept is in its late 20s now, staring 30 in the face. While it's clear the pace of innovation in the industry is still thriving, Cinthia Murphy raises the question in this issue of whether ETFs have drifted too far from their roots. In Murphy's article, Elisabeth Kashner of FactSet emphasized that, "There's no question that launches have been much more focused on shiny objects or innovation, because asset managers are working hard to find opportunity in a very saturated market."

I'm a big believer in index investing, and I think active management works best at the margins of a portfolio. With roughly \$280 billion of new assets under management this year going into plain vanilla index funds, the roots of the ETF industry are as strong ever. The biggest ETFs in the industry are those plain vanilla, core exposure funds, with the more specialized and strategy-driven funds out on the edges.

But make no mistake: The innovation is going beyond the boundaries of the plain vanilla to embrace everything from risk management to ESG to niche themes and unexplored corners of the markets.







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