



## TRIMTABS ETF TRUST

### STATEMENT OF ADDITIONAL INFORMATION

November 30, 2018

TrimTabs All Cap International Free-Cash-Flow ETF (TTAI)  
TrimTabs All Cap U.S. Free-Cash-Flow ETF (TTAC)

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**1345 Avenue of the Americas, 2nd Floor, New York, NY 10105**

**PHONE: 800-617-0004**

Shares are listed and traded on the Cboe BZX Exchange, Inc. (“Cboe” or “Exchange”).

This SAI describes the TrimTabs All Cap International Free-Cash-Flow ETF and the TrimTabs All Cap U.S. Free-Cash-Flow ETF (each a “Fund” and together, the “Funds”), each a series of TrimTabs ETF Trust (“Trust”). The Trust is an open-end registered management investment company under the Investment Company Act.

TrimTabs Asset Management, LLC (“Adviser”), serves as the investment adviser to the Funds. Quasar Distributors, LLC serves as the distributor for the Funds (“Distributor”).

**Shares are neither guaranteed nor insured by the U.S. Government.**

This SAI, dated November 30, 2018, is not a prospectus. It should be read in conjunction with the Funds’ Prospectus, dated November 30, 2018, which incorporates this SAI by reference. Capitalized terms used herein that are not defined have the same meaning as in the Prospectus, unless otherwise noted. A copy of the Prospectus and the Funds’ shareholder reports may be obtained without charge by writing to the Distributor, calling 800-617-0004 or visiting [www.trimtabsfunds.com](http://www.trimtabsfunds.com).

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No person has been authorized to give any information or to make any representations other than those contained in this SAI and the Prospectus and, if given or made, such information or representations may not be relied upon as having been authorized by the Trust. This SAI does not constitute an offer to sell securities.

## GLOSSARY

The following terms are used throughout this SAI, and have the meanings used below:

“**1933 Act**” means the Securities Act of 1933, as amended.

“**1934 Act**” means the Securities Exchange Act of 1934, as amended.

“**Adviser**” means TrimTabs Asset Management, LLC.

“**Authorized Participant**” means a broker-dealer or other participant in the Continuous Net Settlement System of the National Securities Clearing Corporation (NSCC) or a participant in DTC with access to the DTC system, who has executed an agreement with the Distributor that governs transactions in the Funds’ Creation Units.

“**Balancing Amount**” means an amount of cash equal to the difference between the NAV of a Creation Unit and the market value of the In-Kind Creation (or Fund Redemption) Basket, used to ensure that the NAV of a Fund Deposit (or Fund Redemption) (other than the Transaction Fee), is identical to the NAV of the Creation Unit being purchased or redeemed.

“**Board**” means the Board of Trustees of the Trust.

“**Business Day**” means any day on which the Trust is open for business.

“**Cash Component**” means an amount of cash consisting of a Balancing Amount and a Transaction Fee calculated in connection with creations.

“**Cash Redemption Amount**” means an amount of cash consisting of a Balancing Amount and a Transaction Fee calculated in connection with redemptions.

“**CEA**” means the Commodity Exchange Act, as amended.

“**CFTC**” means the Commodity Futures Trading Commission.

“**Code**” means the Internal Revenue Code of 1986, as amended.

“**Creation Unit**” means an aggregation of 25,000 Shares that a Fund issues and redeems on a continuous basis at NAV. Shares will not be issued or redeemed except in Creation Units.

“**Distributor**” means Quasar Distributors, LLC.

“**Dodd-Frank Act**” means the Dodd-Frank Wall Street Reform and Consumer Protection Act.

“**DTC**” means the Depository Trust Company.

“**Exchange**” means Cboe BZX Exchange, Inc.

“**FINRA**” means the Financial Industry Regulatory Authority.

“**Funds**” means the series of the Trust discussed in this SAI: the TrimTabs All Cap International Free-Cash-Flow ETF and the TrimTabs All Cap U.S. Free-Cash-Flow ETF.

“**Fund Deposit**” means the In-Kind Creation Basket and Cash Component necessary to purchase a Creation Unit from a Fund.

“**Fund Redemption**” means the In-Kind Redemption Basket and Cash Redemption Amount received in connection with the redemption of a Creation Unit.

**“Independent Trustee”** means a Trustee who is not an “interested person” as defined under Section 2(a)(19) of the Investment Company Act.

**“IIV”** means an approximate per Share value of a Fund’s portfolio, disseminated every 15 seconds throughout the trading day by the Exchange through the facilities of the Consolidated Tape Association or other information providers, known as the Intraday Indicative Value.

**“In-Kind Creation Basket”** means the basket of securities to be deposited to purchase Creation Units of a Fund. The In-Kind Creation Basket will identify the name and number of shares of each security to be contributed, in kind, to a Fund for a Creation unit.

**“In-Kind Redemption Basket”** means the basket of securities a shareholder will receive upon redemption of a Creation Unit.

**“Interested Trustee”** means a Trustee who is an “interested person” as defined in Section 2(a)(19) of the Investment Company Act.

**“Investment Company Act”** means the Investment Company Act of 1940, as amended.

**“IRS”** means the Internal Revenue Service.

**“NAV”** means the net asset value of a Fund’s Shares.

**“NSCC”** means the National Securities Clearing Corporation.

**“NYSE”** means the New York Stock Exchange, Inc.

**“Prospectus”** means the Funds’ Prospectus, dated November 30, 2018, as may be amended and supplemented from time to time.

**“SAI”** means this Statement of Additional Information.

**“SEC”** means the United States Securities and Exchange Commission.

**“Shares”** means the shares of beneficial interest in a Fund.

**“Transaction Fees”** are fees imposed to compensate the Trust for costs incurred in connection with transactions for Creation Units. The Transaction Fee is comprised of a flat (or standard) fee and may include a variable fee. For the Transaction Fees applicable to each Fund, see “Transaction Fees” in this SAI.

**“Trust”** means the TrimTabs ETF Trust, a Delaware statutory trust.

**“Trustee”** means a Trustee of the Trust.

## **TRUST AND FUND OVERVIEW**

The Trust is a Delaware statutory trust formed on April 2, 2014 and is an open-end registered management investment company registered under the Investment Company Act. The Trust is comprised of two series, both of which are discussed in this SAI. Each Fund is a diversified, actively managed exchange-traded fund (“ETF”). The offering of Shares is registered under the 1933 Act.

Each Fund issues and redeems Shares at NAV only in Creation Units, generally in exchange for a basket of securities constituting the portfolio holdings of the Fund, together with the deposit of a specified cash payment, or, in certain circumstances, for an all cash payment. Shares are listed and traded on the Exchange. Shares will trade on the Exchange at market prices that may be below, at, or above NAV.

Unlike mutual fund shares, Shares are not individually redeemable securities. Rather, the Funds issue and redeem Shares on a continuous basis at NAV only in Creation Units of 25,000 Shares. In the event of the liquidation of a Fund, the Trust may lower the number of Shares in a Creation Unit.

In the instance of creations and redemptions, Transaction Fees may be imposed. Such fees are limited in accordance with requirements of the SEC applicable to management investment companies offering redeemable securities. Some of the information contained in this SAI and the Prospectus — such as information about purchasing and redeeming Shares and Transaction Fees — is not relevant to most retail investors.

Once created, Shares generally trade in the secondary market, at market prices that change throughout the day, in amounts less than a Creation Unit. Investors purchasing Shares in the secondary market through a brokerage account or with the assistance of a broker may be subject to brokerage commissions and charges.

## **EXCHANGE LISTING AND TRADING**

Shares are listed and traded on the Exchange. Shares trade on the Exchange or in secondary markets at prices that may differ from their NAV or IIV, including because such prices may be affected by market forces (such as supply and demand for Shares). As is the case of other securities traded on an exchange, when you buy or sell Shares on the Exchange or in the secondary markets your broker will normally charge you a commission or other transaction charges. Further, the Trust reserves the right to adjust the price of Shares in the future to maintain convenient trading ranges for investors (namely, to maintain a price per Share that is attractive to investors) by share splits or reverse share splits, which would have no effect on the NAV.

There can be no assurance that the requirements of the Exchange for maintaining the listing of Shares will continue to be met. The Exchange may, but is not required to, remove Shares from listing if: (i) following the initial 12-month period beginning at the commencement of trading of a Fund, there are fewer than 50 beneficial owners of Shares; (ii) the IIV of the Fund is no longer calculated or available; or (iii) such other event shall occur or condition exist that, in the opinion of the Exchange, makes further dealings on the Exchange inadvisable. The Exchange will remove Shares from listing and trading upon termination of a Fund.

The Funds are not sponsored, endorsed, sold or promoted by the Exchange. The Exchange makes no representation or warranty, express or implied, to the owners of Shares or any member of the public regarding the advisability of investing in securities generally or in the Funds particularly or the ability of the Funds to achieve their respective objectives. The Exchange has no obligation or liability in connection with the administration, marketing or trading of the Funds.

## **DISCLOSURE OF PORTFOLIO HOLDINGS**

The Board has adopted a policy regarding the disclosure of information about each Fund’s portfolio securities. Under the policy, portfolio holdings of each Fund, which will form the basis for the calculation of NAV on a Business Day, are publicly disseminated prior to the opening of trading on the Exchange that Business Day through financial reporting or news services, including the website, [www.trintabfunds.com](http://www.trintabfunds.com). In addition, each Business Day a portfolio composition file, which displays the In-Kind Creation Basket and Cash Component, is publicly disseminated prior to the opening of the Exchange via the NSCC.

## **INTRADAYINDICATIVEVALUE**

The IIV is an approximate per Share value of a Fund's portfolio holdings, which is disseminated every fifteen seconds throughout the trading day by the Exchange through the facilities of the Consolidated Tape Association or by other information provider. The IIV does not necessarily reflect the precise composition of the current portfolio of securities held by a Fund at a particular point in time. The IIV should not be viewed as a "real-time" update of the NAV of a Fund because the approximate value may not be calculated in the same manner as the NAV. The IIV is based on the current market value of the Fund Deposit. Its calculation includes evaluations determined based on proprietary models and methodologies, using relevant market, sector, issue, and issuer information available, market assumptions and/or broker quotes. IIV calculations for fixed income holdings are routinely based on the bond's terms and conditions, including maturity date, first payment date, pay frequency, accrual rate, dated date, and currency. IIV calculations for foreign holdings may not be updated during U.S. trading hours (as such holdings do not trade in the U.S.), except such quotations may be updated to reflect currency fluctuations. The Funds are not involved in, or responsible for, the calculation or dissemination of the IIV and make no warranty as to the accuracy of the IIV.

## **INVESTMENTPOLICIESANDRESTRICTIONS**

The following investment policies are fundamental and may be changed with respect to the TrimTabs All Cap International Free-Cash-Flow ETF ("All Cap International ETF") only by a vote of the holders of a majority of the Fund's outstanding voting securities, except as noted below:

1. The Fund may not borrow money, except to the extent permitted by the Investment Company Act, the rules, regulations, and interpretations thereunder and any applicable exemptive relief.
2. The Fund may not issue senior securities, except to the extent permitted by the Investment Company Act, the rules, regulations, and interpretations thereunder and any applicable exemptive relief.
3. The Fund may not engage in the business of underwriting securities except to the extent that the Fund may be considered an underwriter within the meaning of the 1933 Act in the acquisition, disposition or resale of its portfolio securities or in connection with investments in other investment companies, or to the extent otherwise permitted under the Investment Company Act, the rules, regulations, and interpretations thereunder and any applicable exemptive relief.
4. The Fund may not purchase or sell real estate, except to the extent permitted under the Investment Company Act, the rules, regulations, and interpretations thereunder and any applicable exemptive relief.
5. The Fund may not purchase or sell commodities, contracts relating to commodities or options on contracts relating to commodities, except to the extent permitted under the Investment Company Act, the rules, regulations, and interpretations thereunder and any applicable exemptive relief.
6. The Fund may not make loans, except to the extent permitted under the Investment Company Act, the rules, regulations, and interpretations thereunder and any applicable exemptive relief.

The following investment policies are fundamental and may be changed with respect to the TrimTabs All Cap U.S. Free-Cash-Flow ETF ("All Cap U.S. ETF") only by a vote of the holders of a majority of the Fund's outstanding voting securities, except as noted below:

1. The Fund may not borrow money, except to the extent permitted by the Investment Company Act, the rules and regulations thereunder and any applicable exemptive relief.
2. The Fund may not issue senior securities, except to the extent permitted by the Investment Company Act, the rules and regulations thereunder and any applicable exemptive relief.
3. The Fund may not engage in the business of underwriting securities except to the extent that the Fund may be considered an underwriter within the meaning of the 1933 Act in the acquisition, disposition or resale of its portfolio securities or in connection with investments in other investment companies, or to the extent otherwise permitted under the Investment Company Act, the rules and regulations thereunder and any applicable exemptive relief.

4. The Fund may not purchase or sell real estate, except to the extent permitted under the Investment Company Act, the rules and regulations thereunder and any applicable exemptive relief.
5. The Fund may not purchase or sell commodities, contracts relating to commodities or options on contracts relating to commodities, except to the extent permitted under the Investment Company Act, the rules and regulations thereunder and any applicable exemptive relief.
6. The Fund may not make loans, except to the extent permitted under the Investment Company Act, the rules and regulations thereunder and any applicable exemptive relief.

The following investment policies are fundamental and may be changed with respect to each Fund only by a vote of the holders of a majority of that Fund's outstanding voting securities, except as noted below:

7. The Fund may not concentrate (*i.e.*, hold more than 25% of its assets in the securities of a single industry or group of industries) their investments in issuers of one or more particular industries. This limitation does not apply to investments in securities issued or guaranteed by the U.S. government, its agencies or instrumentalities, or shares of investment companies.
8. With respect to 75% of the value of its total assets, a Fund may not purchase the securities of any issuer (other than securities issued or guaranteed by the U.S. Government or any of its agencies or instrumentalities ("U.S. Government and Agency Securities")), or securities issued by other investment companies) if, as a result, (i) more than 5% of the value of the Fund's total assets would be invested in the securities of that issuer or (ii) the Fund would hold more than 10% of the outstanding voting securities of that issuer.

With respect to the fundamental policy relating to borrowing money set forth in (1) above, the Investment Company Act permits each Fund to borrow money in amounts of up to one-third of the Fund's total assets, at the time of borrowing, from banks for any purpose (the Fund's total assets include the amounts being borrowed). To limit the risks attendant to borrowing, the Investment Company Act requires a Fund to maintain at all times an "asset coverage" of at least 300% of the amount of its borrowings (not including borrowings for temporary purposes in an amount not exceeding 5% of the value of the Fund's total assets). Asset coverage means the ratio that the value of a Fund's total assets (including amounts borrowed), minus liabilities other than borrowings, bears to the aggregate amount of all borrowings. In the event that such asset coverage falls below this percentage, a Fund is required to reduce the amount of its borrowings within three days (not including Sundays and holidays) so that the asset coverage is restored to at least 300%.

With respect to the fundamental policy relating to issuing senior securities set forth in (2) above, "senior securities" are defined as fund obligations that have a priority over a Fund's shares with respect to the payment of dividends or the distribution of Fund assets. The Investment Company Act prohibits a Fund from issuing any class of senior securities or selling any senior securities of which it is the issuer, except that the Fund is permitted to borrow as described above.

With respect to the fundamental policy relating to investing in real estate set forth in (4) above, each Fund may, to the extent permitted by applicable law, invest in securities or other instruments directly or indirectly secured by real estate and invest in securities or other instruments issued by issuers that invest in real estate.

With respect to the fundamental policy relating to investing in commodities set forth in (5) above, this policy shall not prevent the Funds from purchasing or selling foreign currency or purchasing, selling or entering into futures contracts, options, forward contracts, swaps, caps, floors, collars and other financial instruments. This policy also does not prevent the Funds from purchasing securities of issuers who are engaged in the commodities business.

With respect to the fundamental policy relating to making loans set forth in (6) above, the Investment Company Act does not prohibit the Funds from making loans; however, SEC staff interpretations currently prohibit funds from lending more than one-third of their total assets, except through the purchase of debt obligations.

Except with respect to borrowing, if a percentage limitation is satisfied at the time of investment, a later increase or decrease in such percentage resulting from a change in the value of a Fund's investments will not constitute a violation of such limitation. Thus, each Fund may continue to hold a security even though it causes the Fund to exceed a percentage limitation because of fluctuation in the value of the Fund's assets.

### Temporary Defensive Positions

To respond to adverse market, economic, political or other conditions, each Fund may invest up to 100% of its total assets, without limitation, in high-quality short-term debt securities and money market instruments either directly or through ETFs. The Funds may be invested in this manner for extended periods, depending on the Adviser's assessment of market conditions. Debt securities and money market instruments include shares of other mutual funds, commercial paper, certificates of deposit, bankers' acceptances, U.S. government securities, repurchase agreements, and bonds that are rated BBB or higher.

### **INVESTMENT OBJECTIVES, INVESTMENT STRATEGIES AND RISKS**

Reference is made to the Prospectus for a discussion of the investment objectives and principal investment strategies of the Funds. The discussion below supplements, and should be read in conjunction with, the Prospectus.

The investment restrictions of each Fund specifically identified as fundamental policies may not be changed without the affirmative vote of at least a majority of the outstanding voting securities of that Fund, as defined in the 1940 Act. The investment objectives and all other investment policies of the Funds may be changed by the Trustees without the approval of shareholders.

The investment techniques and strategies discussed below may be used by the Funds if, in the opinion of the Adviser, the techniques or strategies may be advantageous to the Funds. The Funds are free to reduce or eliminate their use of any of these techniques or strategies without changing their respective fundamental policies. There is no assurance that any of the techniques or strategies listed below, or any of the other methods of investment available to a Fund, will result in the achievement of the Fund's objective. Also, there can be no assurance that the Funds will grow to, or maintain, an economically viable size, in which case management may determine to liquidate the Funds at a time that may not be opportune for shareholders.

For purposes of this SAI, the word "invest" refers to the Funds directly and indirectly investing in securities or other instruments. Similarly, when used in this SAI, the word "investment" refers to the Funds' direct and indirect investments in securities and other instruments.

Additional information concerning the Funds, their respective investment policies and techniques, and the securities and financial instruments in which they may invest are set forth below, and apply to the Funds unless otherwise indicated.

### **Cash Items**

Each Fund may invest a portion of its assets in cash or cash equivalents or to maintain liquid assets required in connection with some of the Fund's investments. These cash items and other high quality debt securities may include money market instruments, such as securities issued by the U.S. Government and its agencies, bankers' acceptances, commercial paper, bank certificates of deposit and investment companies that invest primarily in such instruments.

### **Credit Quality Standards**

When investing in fixed income securities and, if applicable, preferred or convertible stocks, the Funds maintain the following credit quality standards, which apply at the time of investment:

For securities that carry a rating assigned by Moody's Investors Service, Inc. ("Moody's"), Standard & Poor's Financial Services, LLC ("S&P"), or Fitch, Inc. ("Fitch") (a "Rating Organization"), the Adviser will use the highest rating assigned by the Rating Organization to determine a security's credit rating. Commercial paper must be rated at least "A-1" or equivalent by a Rating Organization. Corporate debt obligations, mortgage-backed and other asset-backed securities and municipal securities must be rated at least "B-" or equivalent by a Rating Organization. For securities that are not rated by a Rating Organization, the Adviser's internal credit rating will apply and be subject to the equivalent rating minimums described here.



## **Debt-Related Investments**

### **Asset-Backed Securities**

Asset-backed securities (“ABSs”) are bonds backed by pools of loans or other receivables. ABSs are created from many types of assets, including auto loans, credit card receivables, home equity loans, and student loans. ABSs are issued through special purpose vehicles that are bankruptcy remote from the issuer of the collateral. The credit quality of an ABSs transaction depends on the performance of the underlying assets. To protect ABSs investors from the possibility that some borrowers could miss payments or even default on their loans, ABSs include various forms of credit enhancement.

Some ABSs, particularly home equity loan transactions, are subject to interest-rate risk and prepayment risk. A change in interest rates can affect the pace of payments on the underlying loans, which in turn affects total return on the securities. ABSs also carry credit or default risk. If many borrowers on the underlying loans default, losses could exceed the credit enhancement level and result in losses to investors in an ABSs transaction. Finally, ABSs have structure risk due to a unique characteristic known as early amortization, or early payout, risk. Built into the structure of most ABSs are triggers for early payout, designed to protect investors from losses. These triggers are unique to each transaction and can include: a big rise in defaults on the underlying loans, a sharp drop in the credit enhancement level, or even the bankruptcy of the originator. Once early amortization begins, all incoming loan payments are used to pay investors as quickly as possible.

The Funds may also invest in collateralized debt obligations (“CDOs”), which include collateralized bond obligations (“CBOs”), collateralized loan obligations (“CLOs”) and other similarly structured securities. CBOs and CLOs are types of asset-backed securities. A CBO is a trust which is backed by a diversified pool of high risk, below investment grade fixed-income securities. A CLO is a trust typically collateralized by a pool of loans, which may include, among others, domestic and foreign senior secured loans, senior unsecured loans, and subordinate corporate loans, including loans that may be rated below investment grade or equivalent unrated loans.

For both CBOs and CLOs, the cash flows from the trust are split into two or more portions, called tranches, varying in risk and yield. The riskiest portion is the "equity" tranche which bears the bulk of defaults from the bonds or loans in the trust and serves to protect the other, more senior tranches from default in all but the most severe circumstances.

Since it is partially protected from defaults, a senior tranche from a CBO trust or CLO trust typically have higher ratings and lower yields than their underlying securities, and can be rated investment grade. Despite the protection from the equity tranche, CBO or CLO tranches can experience substantial losses due to actual defaults, increased sensitivity to defaults due to collateral default and disappearance of protecting tranches, market anticipation of defaults, and aversion to CBO or CLO securities as a class.

The risks of an investment in a CDO depend largely on the type of the collateral securities and the class of the CDO in which a Fund invests. Normally, CBOs, CLOs and other CDOs are privately offered and sold, and thus, are not registered under the securities laws. As a result, investments in CDOs may be characterized by a Fund as illiquid securities; however an active dealer market may exist for CDOs allowing a CDO to qualify for Rule 144A transactions under the 1933 Act. In addition to the normal risks associated with fixed-income securities discussed elsewhere in the SAI and the Prospectus (*e.g.*, interest rate risk and default risk), CDOs carry additional risks including, but are not limited to: (1) the possibility that distributions from collateral securities will not be adequate to make interest or other payments; (2) the quality of the collateral may decline in value or default; (3) the Funds may invest in CDOs that are subordinate to other classes; and (4) the complex structure of the security may not be fully understood at the time of investment and may produce disputes with the issuer or unexpected investment results.

Consistent with each Fund’s investment objective and policies, the Adviser also may invest in other types of ABS.

### **Corporate Debt Securities**

The rate of interest on a corporate debt security may be fixed, floating or variable, and may vary inversely with respect to a reference rate. Debt securities may be acquired with warrants attached. The Funds may invest in commercial interests, including commercial paper, master notes and other short-term corporate instruments that are denominated in U.S. dollars. Commercial paper consists of short-term promissory notes issued by corporations. Commercial paper may be traded in the secondary market after its issuance. Master notes are demand notes that

permit the investment of fluctuating amounts of money at varying rates of interest pursuant to arrangements with issuers who meet the quality criteria of the Funds. The interest rate on a master note may fluctuate based upon changes in specified interest rates, be reset periodically according to a prescribed formula or be a set rate. Although there is no secondary market in master demand notes, if such notes have a demand future, the payee may demand payment of the principal amount of the note upon relatively short notice. Master notes are generally illiquid and therefore subject to each Fund's percentage limitations for investments in illiquid securities.

### **Debt and Other Fixed Income Securities Generally**

Debt securities include securities issued or guaranteed by the U.S. Government, its agencies, instrumentalities, and political subdivisions, foreign governments, their authorities, agencies, instrumentalities, and political subdivisions, supra-national agencies, corporate debt securities, master-demand notes, Yankee dollar and Eurodollar bank certificates of deposit, time deposits, bankers' acceptances, commercial paper and other notes, inflation-indexed securities, and other debt securities. Debt securities may be investment grade securities or high yield securities, which are described below. Investment grade securities include securities issued or guaranteed by the U.S. Government, its agencies and instrumentalities, as well as securities rated in one of the four highest rating categories by at least two Rating Organizations rating that security, rated in one of the four highest rating categories by one Rating Organization if it is the only Rating Organization rating that security, or unrated, if deemed to be of comparable quality by the Adviser and traded publicly on the world market. The Funds, at the discretion of the Adviser, may retain a debt security that has been downgraded below the initial investment criteria.

Debt and other fixed income securities include fixed and floating rate securities of any maturity. Fixed rate securities pay a specified rate of interest or dividends. Floating rate securities pay a rate that is adjusted periodically by reference to a specified index or market rate. Fixed and floating rate securities include securities issued by federal, state, local, and foreign governments and related agencies, and by a wide range of private issuers, and generally are referred to in this SAI as "fixed income securities." Indexed bonds are a type of fixed income security whose principal value and/or interest rate is adjusted periodically according to a specified instrument, index, or other statistic (*e.g.*, another security, inflation index, currency, or commodity).

Holders of fixed income securities are exposed to both market and credit risk. Market risk (or "interest rate risk") relates to changes in a security's value as a result of changes in interest rates. In general, the values of fixed income securities increase when interest rates fall and decrease when interest rates rise. Given the historically low interest rate environment, risks associated with rising rates are heightened. Credit risk relates to the ability of an issuer to make payments of principal and interest. Obligations of issuers are subject to bankruptcy, insolvency and other laws that affect the rights and remedies of creditors.

Because interest rates vary, the future income of a Fund that invests in fixed income securities cannot be predicted with certainty. The future income of a Fund also will be affected by changes in those securities' indices over time (*e.g.*, changes in inflation rates, currency rates, or commodity prices).

### **Financial Institution Obligations.**

The Funds may invest in financial institution obligations. Obligations of financial institutions include certificates of deposit, bankers' acceptances, time deposits and other short-term debt obligations. Certificates of deposit represent an institution's obligation to repay funds deposited with it that earn a specified interest rate over a given period. Bankers' acceptances are negotiable obligations of a bank to pay a draft which has been drawn by a customer and are usually backed by goods in international trade. Time deposits are non-negotiable deposits with a banking institution that earn a specified interest rate over a given period. Certificates of deposit and fixed time deposits, which are payable at the stated maturity date and bear a fixed rate of interest, generally may be withdrawn on demand by a Fund but may be subject to early withdrawal penalties which could reduce the Fund's performance. Although fixed time deposits do not in all cases have a secondary market, there are no contractual restrictions on a Portfolio's right to transfer a beneficial interest in the deposits to third parties.

The Funds may invest in Eurodollar certificates of deposit, which are issued by offices of foreign and domestic banks located outside the U.S.; Yankee certificates of deposit, which are issued by a U.S. branch of a foreign bank and held in the U.S.; Eurodollar time deposits, which are deposits in a foreign branch of a U.S. bank or a foreign bank; and Canadian time deposits, which are issued by Canadian offices of major Canadian banks. Each of these instruments is U.S. dollar denominated.

### **High Yield Securities**

Securities rated lower than Baa by Moody's, or equivalently rated by S&P or Fitch, are sometimes referred to as "high yield securities" or "junk bonds." Investing in these securities involves special risks in addition to the risks associated with investments in higher-rated fixed income securities. While offering a greater potential opportunity for capital appreciation and higher yields, high yield securities typically entail greater potential price volatility and may be less liquid than higher-rated securities. The Funds may have difficulty selling certain junk bonds because they may have a thin trading market. The lack of a liquid secondary market may have an adverse effect on the market price and a Fund's ability to dispose of particular issues and may also make it more difficult for the Fund to obtain accurate market quotations in valuing these assets. High yield securities are inherently speculative with respect to the issuer's continuing ability to meet principal and interest payments. They may also be more susceptible to real or perceived adverse economic and competitive industry conditions than higher-rated securities. Issuers of securities in default may fail to resume principal or interest payments, in which case a Fund may lose its entire investment.

Companies that issue high yield bonds are often highly leveraged and may not have more traditional methods of financing available to them. During an economic downturn or recession, highly leveraged issuers of high-yield securities may experience financial stress, and may not have sufficient revenues to meet their interest payment obligations. Economic downturns tend to disrupt the market for high yield bonds, lowering their values and increasing their price volatility. The risk of issuer default is higher with respect to high yield bonds because such issues may be subordinated to other creditors of the issuer.

The credit rating of a high yield bond does not necessarily address its market value risk, and ratings may from time to time change to reflect developments regarding the issuer's financial condition. The lower the rating of a high yield bond, the more speculative its characteristics.

### **Mortgage-Related and Other Asset-Backed Securities**

Mortgage-related securities include mortgage pass-through securities, collateralized mortgage obligations ("CMOs"), commercial mortgage-backed securities, mortgage dollar rolls, CMO residuals, stripped mortgage-backed securities ("SMBSs") and other securities that directly or indirectly represent a participation in, or are secured by and payable from, mortgage loans on real property. The value of some mortgage- or asset-backed securities may be particularly sensitive to changes in prevailing interest rates. Early repayment of principal on some mortgage-related securities may expose the Funds to a lower rate of return upon reinvestment of principal. When interest rates rise, the value of a mortgage-related security generally will decline; however, when interest rates are declining, the value of mortgage-related securities with prepayment features may not increase as much as other fixed income securities. The rate of prepayments on underlying mortgages will affect the price and volatility of a mortgage-related security, and may shorten or extend the effective maturity of the security beyond what was anticipated at the time of purchase. If unanticipated rates of prepayment on underlying mortgages increase the effective maturity of a mortgage-related security, the volatility of the security can be expected to increase. The value of these securities may fluctuate in response to the market's perception of the creditworthiness of the issuers. Additionally, although mortgages and mortgage-related securities are generally supported by some form of government or private guarantee and/or insurance, there is no assurance that private guarantors or insurers will meet their obligations.

One type of SMBS has one class receiving all of the interest from the mortgage assets (the interest-only, or "IO" class), while the other class will receive all of the principal (the principal only, or "PO" class). The yield to maturity on an IO class is extremely sensitive to the rate of principal payments (including prepayments) on the underlying mortgage assets, and a rapid rate of principal payments may have a material adverse effect on a Fund's yield to maturity from these securities. The Funds may invest in other ABS that have been offered to investors.

Other mortgage-related securities include securities other than those described above that directly or indirectly represent a participation in, or are secured by and payable from, mortgage loans on real property, including mortgage dollar rolls, CMO residuals or SMBS. Other mortgage-related securities may be equity or debt securities issued by agencies or instrumentalities of the U.S. Government or by private originators of, or investors in, mortgage loans, including savings and loan associations, homebuilders, mortgage banks, commercial banks, investment banks, partnerships, trusts and special purpose entities of the foregoing.

## **Municipal Securities**

Municipal securities include debt obligations issued by governmental entities to obtain funds for various public purposes, such as the construction of a wide range of public facilities, the refunding of outstanding obligations, the payment of general operating expenses, and the extension of loans to other public institutions and facilities. Other types of municipal securities include short-term General Obligation Notes, Tax Anticipation Notes, Bond Anticipation Notes, Revenue Anticipation Notes, Project Notes, Tax-Exempt Commercial Paper, Construction Loan Notes and other forms of short-term tax-exempt loans. Such instruments are issued with a short-term maturity in anticipation of the receipt of tax funds, the proceeds of bond placements or other revenues. An issuer's obligations under its municipal securities are subject to the provisions of bankruptcy, insolvency, and other laws affecting the rights and remedies of creditors, such as the federal bankruptcy code, and laws, if any, which may be enacted by Congress or state legislatures extending the time for payment of principal or interest, or both, or imposing other constraints upon the enforcement of such obligations or upon the ability of municipalities to levy taxes. The power or ability of an issuer to meet its obligations for the payment of interest on and principal of its municipal securities may be materially adversely affected by litigation or other conditions.

Municipal securities can be significantly affected by political changes as well as uncertainties in the municipal market related to taxation, legislative changes, or the rights of municipal security holders. Because many municipal securities are issued to finance similar projects, especially those relating to education, health care, transportation and utilities, conditions in those sectors can affect the overall municipal market. In addition, changes in the financial condition of an individual municipal insurer can affect the overall municipal market.

Municipal bonds, which generally have maturities of more than one year when issued, are designed to meet longer-term capital needs. Some longer-term municipal bonds allow an investor to "put" or sell the security at a specified time and price to the issuer or other "put provider." If a put provider fails to honor its commitment to purchase the security, a Fund may have to treat the security's final maturity as its effective maturity, potentially increasing the volatility of a Fund.

The Funds may invest in municipal lease obligations. Municipal leases frequently carry risks distinct from those associated with general obligation or revenue bonds. State constitutions and statutes set requirements that states and municipalities must meet to incur debt. These may include voter referenda, interest rate limits or public sale requirements. Many leases and contracts include no appropriation clauses, which provide that the governmental issuer has no obligation to make future payments under the lease or contract unless money is appropriated for such purposes by the appropriate legislative body on a yearly or other periodic basis. Municipal lease obligations also may be subject to abatement risk. For example, construction delays or destruction of a facility as a result of an uninsurable disaster that prevents occupancy could result in all or a portion of a lease payment not being made.

Investing in the municipal bond market is subject to certain risks. The amount of public information available about the municipal bonds held by a Fund is generally less than that for corporate equities or bonds, and the investment performance of the Fund may therefore be more dependent on the analytical abilities of the Adviser. The secondary market for municipal bonds, particularly the lower-rated bonds, also tends to be less well developed or liquid than many other securities markets, which may adversely affect a Fund's ability to sell its bonds at attractive prices. The ability of municipal issuers to make timely payments of interest and principal may be diminished during general economic downturns and as governmental cost burdens are reallocated among federal, state and local governments. In addition, laws enacted in the future by Congress or state legislatures or referenda could extend the time for payment of principal and/or interest, or impose other constraints on enforcement of such obligations, or on the ability of municipal issuers to levy taxes. Issuers of municipal securities might seek protection under the bankruptcy laws. In the event of bankruptcy of such an issuer, the Funds investing in the issuer's securities could experience delays in collecting principal and interest and the Funds may not, in all circumstances, be able to collect all principal and interest to which it is entitled.

## **U.S. Government Securities**

U.S. government securities include securities issued or guaranteed by the U.S. government or its authorities, agencies, or instrumentalities. Different kinds of U.S. government securities have different kinds of government support. For example, some U.S. government securities (*e.g.*, U.S. Treasury bonds) are supported by the full faith and credit of the U.S. Other U.S. government securities are issued or guaranteed by federal agencies or

government-chartered or -sponsored enterprises but are neither guaranteed nor insured by the U.S. government (e.g., debt securities issued by the Federal Home Loan Mortgage Corporation, Federal National Mortgage Association, and Federal Home Loan Banks).

It is possible that the availability and the marketability (that is, liquidity) of the securities discussed in this section could be adversely affected by actions of the U.S. government to tighten the availability of credit.

As with other fixed income securities, U.S. government securities expose their holders to market risk because their values typically change as interest rates fluctuate. For example, the value of U.S. government securities may fall during times of rising interest rates. Yields on U.S. government securities tend to be lower than those of corporate securities of comparable maturities.

In addition to investing directly in U.S. government securities, the Funds may purchase certificates of accrual or similar instruments evidencing undivided ownership interests in interest payments and/or principal payments of U.S. government securities. Certificates of accrual and similar instruments may be more volatile than other government securities.

### **Zero Coupon Securities**

Zero coupon securities may be issued by a wide variety of corporate and governmental issuers. Zero coupon securities tend to be subject to greater market risk than interest-paying securities of similar maturities. When an investor purchases a traditional coupon-bearing bond, it is paid periodic interest at a predetermined rate. Zero coupon securities tend to be subject to greater price fluctuations in response to changes in interest rates than are ordinary interest-paying debt securities with similar maturities. The value of zero coupon securities appreciates more during periods of declining interest rates and depreciates more during periods of rising interest rates than ordinary interest-paying debt securities with similar maturities.

## **Equity-Related Investments**

### **Common Stocks**

Common stock represents an ownership interest in a company and usually possesses voting rights and earns dividends. Dividends on common stock are not fixed but are declared at the discretion of the issuer. Common stock generally represents the riskiest investment in a company. In addition, common stock generally has the greatest appreciation and depreciation potential because increases and decreases in earnings are usually reflected in a company's common stock price.

The fundamental risk of investing in common stock is the risk that the value of the stock might decrease. Stock values fluctuate in response to the activities of an individual company or in response to general market and/or economic conditions. Historically, common stocks have provided greater long-term returns and have entailed greater short-term risks than preferred stocks, fixed-income securities and money market investments. This may not be true currently or in the future. The market value of all securities, including common stocks, is based upon the market's perception of value and not necessarily the book value of an issuer or other objective measure of a company's worth. If you invest in the Funds, you should be willing to accept the risks of the stock market and should consider an investment in the Funds only as a part of your overall investment portfolio.

### **Convertible Securities**

Convertible securities include fixed-income securities, preferred stock or other securities that may be converted into or exchanged for a given amount of common stock of the same or a different issuer during a specified period and at a specified price in the future. A convertible security entitles the holder to receive interest on debt or the dividend on preferred stock until the convertible security matures or is redeemed, converted or exchanged.

Convertible securities have unique investment characteristics in that they generally: (1) have higher yields than the underlying common stock, but lower yields than comparable non-convertible securities; (2) are less subject to fluctuation in value than the underlying common stock since they have fixed-income characteristics; and (3) provide the potential for capital appreciation if the market price of the underlying common stock increases.

A convertible security may be subject to redemption at the option of the issuer at a price established in the convertible security's governing instrument. If a convertible security is called for redemption, the Funds will be required to permit the issuer to redeem the security, convert it into the underlying common stock or sell it to a third party.

Convertible securities are typically issued by smaller capitalization companies whose stock price may be volatile. Therefore, the price of a convertible security may reflect variations in the price of the underlying common stock in a way that non-convertible debt does not. The extent to which such risk is reduced, however, depends in large measure upon the degree to which the convertible security sells above its value as a fixed-income security.

### **Master Limited Partnerships**

The Funds may invest in master limited partnerships ("MLPs"), which are publicly traded partnerships primarily engaged in the transportation, storage, processing, refining, marketing, exploration, production, and mining of minerals and natural resources. Their interests, or units, trade on public securities exchanges exactly like the shares of a corporation, without entity level taxation. MLPs generally have two classes of owners, one or more general partners and the limited partners (*i.e.*, investors). The general partner typically controls the operations and management of the MLP through an equity interest in the MLP plus, in many cases, ownership of common units and subordinated units. Limited partners typically own the remainder of the partnership, through ownership of common units and have a limited role in the partnership's operations and management. In certain instances, creditors of an MLP would have the right to seek a return of capital that had been distributed to a limited partner. The right of an MLP's creditors would continue even after a Fund had sold its investment in the partnership. MLPs typically invest in real estate, oil and gas equipment leasing assets, but they also finance entertainment, research and development, and other projects.

MLP common units, like other equity securities, can be affected by macroeconomic and other factors affecting the stock market in general, expectations of interest rates, investor sentiment towards an issuer or certain market sector, changes in a particular issuer's financial condition, or unfavorable or unanticipated poor performance of a particular issuer (in the case of MLPs, generally measured in terms of distributable cash flow). Prices of common units of individual MLPs, like the prices of other equity securities, also can be affected by fundamentals unique to the partnership or company, including earnings power and coverage ratios.

### **Investments in Other Investment Companies or Other Pooled Investments**

The Funds may invest in the securities of other registered investment companies to the extent permitted by law and consistent with their respective investment objective. Subject to applicable regulatory requirements, the Funds may invest in shares of both open- and closed-end registered investment companies (including money market funds and ETFs). The market price for ETF and closed-end fund shares may be higher or lower than, respectively, the ETF's and closed-end fund's NAV. Investing in another investment company exposes the Funds to all the risks of that investment company and, in general, subjects it to a pro rata portion of the other investment company's fees and expenses. As a result, an investment by a Fund in an ETF or investment company could cause the Fund's operating expenses to be higher and, in turn, performance to be lower than if the Fund were to invest directly in the securities underlying the ETF or investment company. The Funds also may invest in private investment funds, vehicles, or structures.

### **Preferred Stocks**

The Funds may invest in preferred stocks. Preferred stocks include convertible and non-convertible preferred and preference stocks that are senior to common stock. Preferred stocks are equity securities that are senior to common stock with respect to the right to receive dividends and a fixed share of the proceeds resulting from the issuer's liquidation. Some preferred stocks also entitle their holders to receive additional liquidation proceeds on the same basis as holders of the issuer's common stock, and thus represent an ownership interest in the issuer. Depending on the features of the particular security, holders of preferred stock may bear the risks disclosed in the Prospectus or this SAI regarding equity or fixed income securities.

### **Real Estate Investment Trusts ("REITs")**

A REIT is a company that pools investor funds to invest primarily in income producing real estate or real estate related loans or interests. A REIT is not taxed on net income and net realized gains distributed to its shareholders if, among other things, it distributes substantially all of its taxable income (other than net capital gains) and certain other amounts for each taxable year.

Because REITs have ongoing fees and expenses, which may include management, operating and administration expenses, REIT shareholders, including the Funds, will indirectly bear a proportionate share of those expenses in addition to the expenses of the Funds. However, such expenses are not considered to be Acquired Fund Fees and Expenses and, therefore, are not reflected as such in each Fund's fee table.

The Funds also may be subject to certain risks associated with the direct investments of the REITs. REITs may be affected by changes in their underlying properties and by defaults by borrowers or tenants. Mortgage REITs may be affected by the quality of the credit extended. Furthermore, REITs are dependent on specialized management skills. Some REITs may have limited diversification and may be subject to risks inherent in financing a limited number of properties. REITs depend generally on their ability to generate cash flow to make distributions to shareholders or unitholders, and may be subject to defaults by borrowers and to self-liquidations. In addition, the performance of a REIT may be affected by its failure to qualify for tax-free "pass-through" of income under the Code, including regulations thereunder and IRS interpretations or similar authority upon which the Funds may rely, or its failure to maintain exemption from registration under the Investment Company Act.

### **Warrants and Rights**

The Funds may invest in warrants and rights. Warrants are securities, typically issued with preferred stock or bonds, that give the holder the right to purchase a given number of shares of common stock at a specified price and time. The price usually represents a premium over the applicable market value of the common stock at the time of the warrant's issuance. Warrants have no voting rights with respect to the common stock, receive no dividends and have no rights with respect to the assets of the issuer. A stock right is an option given to a shareholder to buy additional shares at a predetermined price during a specified time.

Investments in warrants and rights involve certain risks, including the possible lack of a liquid market for the resale of the warrants and rights, potential price fluctuations due to adverse market conditions or other factors and failure of the price of the common stock to rise. If the warrant is not exercised within the specified time period, it becomes worthless.

### **Foreign-Related Investments**

#### **Depository Receipts**

The Funds may invest in foreign securities by purchasing sponsored and unsponsored depository receipts, including American Depositary Receipts ("ADRs"), European Depositary Receipts ("EDRs") and Global Depositary Receipts ("GDRs") or other securities convertible into securities of issuers based in foreign countries. These securities may not necessarily be denominated in the same currency as the securities which they represent. Generally, ADRs, in registered form, are denominated in U.S. dollars and are designed for use in the U.S. securities markets, GDRs, in bearer form, are issued and designed for use outside the United States and EDRs (also referred to as Continental Depositary Receipts ("CDRs")), in bearer form, may be denominated in other currencies and are designed for use in European securities markets. ADRs are receipts typically issued by a U.S. bank or trust company evidencing ownership of the underlying securities. EDRs are European receipts evidencing a similar arrangement. GDRs are receipts typically issued by non-United States banks and trust companies that evidence ownership of either foreign or domestic securities. For purposes of a Fund's investment policies, ADRs, GDRs and EDRs are deemed to have the same classification as the underlying securities they represent. Thus, an ADR, GDR or EDR representing ownership of common stock will be treated as common stock.

Depository receipts may reduce some but not eliminate all the risks inherent in investing in the securities of foreign issuers. Depository receipts are still subject to the political and economic risks of the underlying issuer's country and are still subject to foreign currency exchange rate risk. In an unsponsored arrangement, the foreign issuer assumes no obligations and the depository's transaction fees are paid by the depository holder. Unsponsored depository receipts may be created without the participation of the foreign issuer. Holders of these receipts generally bear all the costs of the depository receipt facility, whereas foreign issuers typically bear certain costs in a sponsored depository receipt. The bank or trust company depository of an unsponsored depository receipt may be under no obligation to distribute shareholder communications received from the foreign issuer or to pass through voting rights. Accordingly, available information concerning the issuer may not be current, and the prices of unsponsored depository receipts may be more volatile than the prices of sponsored depository receipts. In addition, the issuers of securities underlying unsponsored depository receipts may be subject to less stringent government supervision. If a Fund's investment depends on obligations being met by the arranger as well as the issuer of an unsponsored program, the Fund will be exposed to additional credit risk.

## **Emerging Markets**

Investing in companies domiciled in emerging market countries may be subject to greater risks than investments in developed countries. These risks include: (i) less social, political, and economic stability; (ii) greater illiquidity and price volatility due to smaller or limited local capital markets for such securities, or low or non-existent trading volumes; (iii) foreign exchanges and broker-dealers may be subject to less scrutiny and regulation by local authorities; (iv) local governments may decide to seize or confiscate securities held by foreign investors and/or local governments may decide to suspend or limit an issuer's ability to make dividend or interest payments; (v) local governments may limit or entirely restrict repatriation of invested capital, profits, and dividends; (vi) capital gains may be subject to local taxation, including on a retroactive basis; (vii) issuers facing restrictions on dollar or euro payments imposed by local governments may attempt to make dividend or interest payments to foreign investors in the local currency; (viii) investors may experience difficulty in enforcing legal claims related to the securities and/or local judges may favor the interests of the issuer over those of foreign investors; (ix) bankruptcy judgments may only be permitted to be paid in the local currency; (x) limited public information regarding the issuer may result in greater difficulty in determining market valuations of the securities, and (xi) lax financial reporting on a regular basis, substandard disclosure, and differences in accounting standards may make it difficult to ascertain the financial health of an issuer. Many emerging market countries have experienced currency devaluations and substantial (and, in some cases, extremely high) rates of inflation. Other emerging market countries have experienced economic recessions. These circumstances have had a negative effect on the economies and securities markets of such emerging market countries.

## **Foreign Currency Transactions**

The Funds may hold funds in bank deposits in U.S. or foreign currency, including during the completion of investment programs. These transactions will expose the Funds to foreign currency fluctuations. Should exchange rates move in an unexpected manner, the Funds may not achieve the anticipated benefits of an investment, and they may realize losses.

**Conversion.** Although each Fund values its assets daily in U.S. dollars, it does not convert its holdings of foreign currencies into U.S. dollars on a daily basis. Each Fund will convert its holdings from time to time, however, and incur the costs of currency conversion. Foreign exchange dealers do not charge a fee for conversion, but they do realize a profit based on the difference between the prices at which they buy and sell various currencies. Thus, a dealer may offer to sell a foreign currency to a Fund at one rate, and offer to buy the currency at a lower rate if the Fund tries to resell the currency to the dealer.

Settlement of transactions involving foreign currencies might be required to take place within the country issuing the underlying currency. Thus, the Funds might be required to accept or make delivery of the underlying foreign currency in accordance with any U.S. or foreign regulations regarding the maintenance of foreign banking arrangements by U.S. residents and might be required to pay any fees, taxes and charges associated with such delivery assessed in the issuing country.

The value of each Fund's investments is calculated in U.S. dollars each day that the NYSE is open for business. As a result, to the extent that a Fund's assets are invested in instruments denominated in foreign currencies and the currencies depreciate relative to the U.S. dollar, the Fund's NAV per share as expressed in U.S. dollars (and, therefore, the value of your investment) should decrease. If the U.S. dollar appreciates relative to the other currencies, the opposite should occur.

The currency-related gains and losses experienced by a Fund will be based on changes in the value of portfolio securities attributable to currency fluctuations only in relation to the original purchase price of such securities as stated in U.S. dollars. Gains or losses on Shares will be based on changes attributable to fluctuations in the NAV of such shares, expressed in U.S. dollars, in relation to the original U.S. dollar purchase price of the shares.

Foreign currency transactions occurring in the interbank market might involve substantially larger amounts than those involved in the use of such forward currency contracts. Therefore, the Funds could be disadvantaged by having to deal in the odd lot market (generally consisting of transactions of less than \$1 million) for the underlying foreign currencies at prices that are less favorable than for round lots. There is no systematic reporting of last sale information for foreign currencies or any regulatory requirement that quotations available through dealers or other market sources be firm or revised on a timely basis. Quotation information generally is representative of very large transactions in the interbank market and thus might not reflect odd-lot transactions where rates might be less favorable. The interbank market in foreign currencies is a global, round-the-clock market.



## **Foreign Government Securities**

Foreign government securities include securities issued or guaranteed by foreign governments (including political subdivisions) or their authorities, agencies, or instrumentalities or by supra-national agencies. Different kinds of foreign government securities have different kinds of government support. For example, some foreign government securities are supported by the full faith and credit of a foreign national government or political subdivision and some are not. Foreign government securities of some countries may involve varying degrees of credit risk as a result of financial or political instability in those countries or the possible inability of the Funds to enforce their rights against the foreign government. As with issuers of other fixed income securities, sovereign issuers may be unable or unwilling to make timely principal or interest payments.

It is possible that the availability and the marketability (that is, liquidity) of the securities discussed in this section could be adversely affected by actions of foreign governments to tighten the availability of credit.

Supra-national agencies are agencies whose member nations make capital contributions to support the agencies' activities. Examples include the International Bank for Reconstruction and Development (the World Bank), the Asian Development Bank, the European Union, and the Inter-American Development Bank.

As with other fixed income securities, foreign government securities expose their holders to market risk because their values typically change as interest rates fluctuate. For example, the value of foreign government securities may fall during times of rising interest rates. Yields on foreign government securities tend to be lower than those of corporate securities of comparable maturities.

In addition to investing directly in foreign government securities, the Funds may purchase certificates of accrual or similar instruments evidencing undivided ownership interests in interest payments and/or principal payments of foreign government securities. Certificates of accrual and similar instruments may be more volatile than other government securities.

## **Foreign Investments**

*Foreign Market Risk.* Foreign security investment or exposure involves special risks not present in U.S. investments that can increase the chances that the Funds will lose money. These risks are higher for emerging markets investments, which can be subject to greater social, economic, regulatory and political uncertainties, and may have significantly less liquidity, than developed markets. In particular, the Funds are subject to the risk that because there are generally fewer investors on foreign exchanges and a smaller number of shares traded each day, it may be difficult for the Funds to buy and sell securities, or increase or decrease exposures, on those exchanges. In addition, prices of foreign securities may fluctuate more than prices of securities traded in the U.S.

*Foreign Economy Risk.* The economies of certain foreign markets often do not compare favorably with that of the U.S. with respect to such issues as growth of gross domestic product, reinvestment of capital, resources, and balance of payments positions. Certain foreign economies may rely heavily on particular industries or foreign capital and are more vulnerable to diplomatic developments, the imposition of economic sanctions against a particular country or countries, changes in international trading patterns, trade barriers, and other protectionist or retaliatory measures. Investments in foreign markets may also be adversely affected by governmental actions such as the imposition of capital controls, nationalization of companies or industries, expropriation of assets, or the imposition of punitive taxes. In addition, the governments of certain countries may prohibit or impose substantial restrictions on foreign investing in their capital markets or in certain industries. Any of these actions could severely affect security prices, impair the Funds' ability to purchase or sell foreign securities, or obtain exposure to them, or transfer the Funds' assets back into the U.S., or otherwise adversely affect the Funds' operations. Other foreign market risks include foreign exchange controls, difficulties in pricing securities, defaults on foreign government securities, difficulties in enforcing favorable legal judgments in foreign courts, and political and social instability. Legal remedies available to investors in certain foreign countries may be less extensive than those available to investors in the U.S. or other foreign countries. Foreign corporate governance may not be as robust as in the U.S. As a result, protections for minority investors may not be strong, which could affect security prices.

*Currency Risk and Exchange Risk.* Securities in which the Funds invest, or to which they obtain exposure, may be denominated or quoted in currencies other than the U.S. dollar. Changes in foreign currency exchange rates will affect the value of these securities. Generally, when the U.S. dollar rises in value against a foreign currency, an investment in a security denominated in that currency loses value because the currency is worth fewer U.S. dollars. Similarly, when the U.S. dollar decreases in value against a foreign currency, an investment in, or exposure to, a security denominated in that currency gains value because the currency is worth more U.S. dollars. This risk is generally known as “currency risk,” which is the possibility that a stronger U.S. dollar will reduce returns for U.S. investors investing overseas. Foreign currencies also involve the risk that they will be devalued or replaced, adversely affecting the Funds’ investments.

*Governmental Supervision and Regulation/Accounting Standards.* Many foreign governments supervise and regulate stock exchanges, brokers and the sale of securities to a lesser extent than the U.S. government. Some countries may not have laws to protect investors the way that the U.S. securities laws do. Accounting standards in other countries are not necessarily the same as in the U.S. If the accounting standards in another country do not require as much disclosure or detail as U.S. accounting standards, it may be harder to completely and accurately determine a company’s financial condition.

*Certain Risks of Holding Fund Assets Outside the U.S.* Foreign securities in which the Funds invest, or to which they obtain exposure, are generally held outside the U.S. in foreign banks and securities depositories. The Funds’ custodian is the Funds’ “foreign custody manager” as provided in Rule 17f-5 under the Investment Company Act. The “foreign custody manager” is responsible for determining that the Funds’ directly-held foreign assets will be subject to reasonable care, based on standards applicable to custodians in relevant foreign markets. However, certain foreign banks and securities depositories may be recently organized or new to the foreign custody business. They may also have operations subject to limited or no regulatory oversight. Also, the laws of certain countries may put limits on a Fund’s ability to recover its assets if a foreign bank or depository or issuer of a security or an agent of any of the foregoing goes bankrupt. In addition, it likely will be more expensive for a Fund to buy, sell and hold securities, or increase or decrease exposures thereto, in certain foreign markets than it is in the U.S. market due to higher brokerage, transaction, custody and/or other costs. The increased expense of investing in foreign markets reduces the amount a Fund can earn on its investments.

Settlement and clearance procedures in certain foreign markets differ significantly from those in the U.S. Foreign settlement and clearance procedures and trade regulations also may involve certain risks (such as delays in payment for or delivery of securities) not typically involved with the settlement of U.S. investments. Communications between the U.S. and emerging market countries may be unreliable, increasing the risk of delayed settlements or losses of security certificates. Settlements in certain foreign countries at times have not kept pace with the number of securities transactions. The problems may make it difficult for the Funds to carry out transactions. If the Funds cannot settle or is delayed in settling a purchase of securities, the Funds may miss attractive investment opportunities and certain of their assets may be uninvested with no return earned thereon for some period. If the Funds cannot settle or is delayed in settling a sale of securities, directly or indirectly, they may lose money if the value of the security then declines or, if they have contracted to sell the security to another party, the Funds could be liable to that party for any losses incurred.

Dividends and interest on, and proceeds from the sale of, foreign securities a Fund holds, or has exposure to, may be subject to foreign withholding or other taxes, and special federal tax considerations may apply. See “Taxation.”

### **Passive Foreign Investment Companies**

If a Fund purchases shares in passive foreign investment companies (“PFICs”), it may be subject to U.S. federal income tax on a portion of any “excess distribution” or gain from the disposition of such shares even if such income is distributed as a taxable dividend by the Fund to its shareholders. Additional charges in the nature of interest may be imposed on the Fund in respect of deferred taxes arising from such distributions or gains. If a Fund were to invest in a PFIC and elect to treat the PFIC as a “qualified electing fund” under the Code, in lieu of the foregoing requirements, the Fund might be required to include in income each year a portion of the ordinary earnings and net capital gains of the qualified electing fund, even if not distributed to the Fund, and such amounts would be subject to the 90% and excise tax distribution requirements described below. In order to make this election, a Fund would be required to obtain certain annual information from the PFICs in which it invests, which may be difficult or impossible to obtain. Currently proposed IRS regulations, if adopted, would treat such included amounts as nonqualifying RIC income to a Fund unless such amounts were also distributed to the Fund.

Alternatively, a Fund may make a mark-to-market election that would result in the Fund being treated as if it had sold and repurchased its PFIC stock at the end of each year. In such case, a Fund would report any such gains as ordinary income and would deduct any such losses as ordinary losses to the extent of previously recognized gains. The election must be made separately for each PFIC owned by a Fund and, once made, would be effective for all subsequent taxable years, unless revoked with the consent of the IRS. By making the election, a Fund could potentially ameliorate the adverse tax consequences with respect to its ownership of shares in a PFIC, but in any particular year may be required to recognize income in excess of the distributions it receives from PFICs and its proceeds from distributions of PFIC stock. A Fund may have to distribute this “phantom” income and gain to satisfy the 90% distribution requirement and to avoid imposition of the 4% excise tax.

A Fund will make the appropriate tax election, if possible, and take any additional steps that are necessary to mitigate the effects of these rules.

#### **Dollar Rolls, Delayed Delivery Transactions and When Issued or Forward Commitment Securities**

The purchase or sale of when-issued securities enables an investor to hedge against anticipated changes in interest rates and prices by locking in an attractive price or yield. The price of delayed delivery transactions, including when-issued securities, is fixed at the time the commitment to purchase or sell is made, but delivery and payment for the securities takes place at a later date, normally one to two months after the date of the commitment to purchase or sell. During the period between purchase and settlement, no payment is made by the purchaser to the issuer and no interest accrues to the purchaser. Such transactions therefore involve a risk of loss if the value of the security to be purchased declines prior to the settlement date or if the value of the security to be sold increases prior to the settlement date. A sale of a when-issued security also involves the risk that the other party will be unable to settle the transaction. Dollar rolls are a type of forward commitment transaction. Purchases and sales of securities on a forward commitment basis involve a commitment to purchase or sell securities with payment and delivery to take place at some future date, normally one to two months after the date of the commitment to purchase or sell. As with when-issued securities, these transactions involve certain risks, but they also enable an investor to hedge against anticipated changes in interest rates and prices. Forward commitment transactions are executed for existing obligations, whereas in a when-issued transaction, the obligations have not yet been issued. When purchasing securities on a when-issued or forward commitment basis, a segregated account of liquid assets at least equal to the value of purchase commitments for such securities will be maintained until the settlement date.

#### **Futures Contracts and Related Options**

The Funds may purchase or sell stock index futures contracts and options thereon, including as a substitute for a comparable market position in the underlying securities. A futures contract generally obligates the seller to deliver (and the purchaser to take delivery of) the specified commodity on the expiration date of the contract. A stock index futures contract obligates the seller to deliver (and the purchaser to take) an amount of cash equal to a specific dollar amount (the contract multiplier) multiplied by the difference between the final settlement price of a specific stock index futures contract and the price at which the agreement is made. No physical delivery of the underlying stocks in the index is made.

A Fund generally chooses to engage in closing or offsetting transactions before final settlement wherein a second identical futures contract is sold to offset a long position (or bought to offset a short position). In such cases the obligation is to deliver (or take delivery of) cash equal to a specific dollar amount (the contract multiplier) multiplied by the difference between the price of the offsetting transaction and the price at which the original contract was entered into. If the original position entered into is a long position (futures contract purchased) there will be a gain (loss) if the offsetting sell transaction is done at a higher (lower) price, inclusive of commissions. If the original position entered into is a short position (futures contract sold) there will be a gain (loss) if the offsetting buy transaction is done at a lower (higher) price, inclusive of commissions.

Whether a Fund realizes a gain or loss from futures activities depends generally upon movements in the underlying asset. The extent of a Fund’s loss from an unhedged short position in futures contracts is potentially unlimited. The Funds may engage in related closing transactions with respect to options on futures contracts. The Funds intend to engage in transactions in futures contracts that are traded on a U.S. exchange or board of trade or that have been approved for sale in the United States by the CFTC.

Upon entering into a futures contract, a Fund will be required to deposit with the broker an amount of cash or cash equivalents known as “initial margin,” which is in the nature of a performance bond or good faith deposit on the contract, and that is returned to the Fund upon termination of the futures contract, assuming all contractual obligations have been satisfied. Subsequent payments, known as “variation margin,” to and from the broker will be made daily as the price of the index underlying the futures contract fluctuates, making the long and short positions in the futures contract more or less valuable, a process known as “marking-to-market.” At any time prior to expiration of a futures contract, a Fund may elect to close its position by taking an opposite position, which will operate to terminate the Fund’s existing position in the contract.

The Funds may cover their long position in a futures contract by taking a short position in the instruments underlying the futures contract, or by taking positions in instruments the prices of which are expected to move relatively consistently inversely with the futures contract. The Funds may cover their short position in a futures contract by taking a long position in the instruments underlying the futures contract, or by taking positions in instruments, the prices of which are expected to move relatively consistently to the futures contract. The Funds may “cover” their short position in a futures contract by purchasing a call option on the same futures contract with a strike price (*i.e.*, an exercise price) as low or lower than the price of the futures contract, or, if the strike price of the call is greater than the price of the futures contract, the Funds will earmark or segregate cash or liquid instruments equal in value to the difference between the strike price of the call and the price of the future. The Funds may cover their long or short positions in futures by earmarking or segregating with its custodian bank or on the books and records of the Funds (and mark-to-market on a daily basis) cash or liquid instruments that, when added to any amounts deposited with a futures commission merchant as margin, are equal to the market value of the futures contract or otherwise “cover” its position.

Although the Funds intend to sell futures contracts only if there is an active market for such contracts, no assurance can be given that a liquid market will exist for any particular contract at any particular time. Many futures exchanges and boards of trade limit the amount of fluctuation permitted in futures contract prices during a single trading day. Once the daily limit has been reached in a particular contract, no trades may be made that day at a price beyond that limit or trading may be suspended for specified periods during the day. Futures contract prices could move to the limit for several consecutive trading days with little or no trading, thereby preventing prompt liquidation of futures positions and potentially subjecting the Funds to substantial losses. If trading is not possible, or if the Funds determine not to close a futures position in anticipation of adverse price movements, the Funds will be required to make daily cash payments of variation margin. The risk that the Funds will be unable to close out a futures position will be minimized by entering into such transactions on a national securities exchange with an active and liquid secondary market.

Historically, an adviser of a fund trading commodity interests (such as futures contracts, options on futures contracts, nondeliverable forwards, swaps and cash-settled foreign currency contracts) has been excluded from regulation as a commodity pool operator (“CPO”) pursuant to CFTC Regulation 4.5. In 2012, the CFTC amended Regulation 4.5 to dramatically narrow this exclusion.

Under the amended Regulation 4.5 exclusion, a fund’s commodity interests — other than those used for bona fide hedging purposes (as defined by the CFTC) — must be limited such that the aggregate initial margin and premiums required to establish the positions (after taking into account unrealized profits and unrealized losses on any such positions and excluding the amount by which options are “in-the-money” at the time of purchase) does not exceed 5% of the fund’s NAV, or alternatively, the aggregate net notional value of the positions, determined at the time the most recent position was established, does not exceed 100% of the fund’s NAV (after taking into account unrealized profits and unrealized losses on any such positions). Further, to qualify for the exclusion in amended Regulation 4.5, a fund must satisfy a marketing test, which requires, among other things, that the fund not hold itself out as a vehicle for trading commodity interests.

The Adviser intends to comply with one of the two alternative limitations described above with respect to the Funds and claim an exclusion from the definition of the term “commodity pool operator” under the CEA with respect to the Funds. The Adviser therefore will not be subject to registration or regulation as a CPO under the CEA. Complying with the limitations may restrict the Adviser’s ability to use derivatives as part of the Funds’ investment strategies. Although the Adviser expects to be able to execute each Fund’s strategies within the limitations, performance could be adversely affected.

### **Illiquid Securities**

Each Fund may invest up to 15% of its net assets in illiquid securities. For this purpose, “illiquid securities” are securities that the Funds may not sell or dispose of within seven days in the ordinary course of business at approximately the amount at which the Funds have valued the securities. On or about June 1, 2019, in connection with the implementation of the SEC’s new liquidity risk management rule, the term “illiquid security” will be defined as a security that the Fund reasonably expects cannot be sold or disposed of in current market conditions in seven calendar days or less without the sale or disposition significantly changing the market value of the security. A repurchase agreement maturing in more than seven days is considered illiquid, unless it can be terminated after a notice period of seven days or less.

The Adviser also may deem certain securities to be illiquid as a result of the Adviser’s receipt from time to time of material, non-public information about an issuer, which may limit the Adviser’s ability to trade such securities for the account of any of its clients, including the Funds. In some instances, these trading restrictions could continue in effect for a substantial period of time.

At times, the inability to sell illiquid securities can make it more difficult to determine their fair value for purposes of computing each Fund’s net asset value. The judgment of the Adviser normally plays a greater role in valuing these securities than in valuing publicly traded securities.

### **Repurchase Agreements**

The Funds may enter into repurchase agreements with banks and broker-dealers. A repurchase agreement is an agreement under which securities are acquired by a Fund from a securities dealer or bank subject to resale at an agreed upon price on a later date. The Funds bear a risk of loss in the event that the other party to a repurchase agreement defaults on its obligations and the Funds are delayed or prevented from exercising its rights to dispose of the collateral securities. Such a default may subject the Funds to expenses, delays, and risks of loss including: (i) possible declines in the value of the underlying security while a Fund seeks to enforce its rights, (ii) possible reduced levels of income and lack of access to income during this period, and (iii) the inability to enforce its rights and the expenses involved in attempted enforcement.

Repurchase agreements are treated as loans by the SEC staff. The Funds will not enter into repurchase agreements if, as a result, the aggregate amount of a Fund’s loans exceed 33⅓% of its total assets.

### **Reverse Repurchase Agreements**

The Funds may use reverse repurchase agreements as part of their respective investment strategy. Reverse repurchase agreements involve sales by a Fund of portfolio assets concurrently with an agreement by the Fund to repurchase the same assets at a later date at a fixed price. Generally, the effect of such a transaction is that a Fund can recover all or most of the cash invested in the portfolio securities involved during the term of the reverse repurchase agreement, while the Fund will be able to keep the interest income associated with those portfolio securities. Such transactions are advantageous only if the interest cost to a Fund of the reverse repurchase transaction is less than the cost of obtaining the cash otherwise. Opportunities to achieve this advantage may not always be available, and a Fund intends to use the reverse repurchase technique only when the Adviser believes it will be to the Fund’s advantage to do so. Each Fund will earmark or segregate cash or liquid instruments equal in value to the Fund’s obligations in respect of reverse repurchase agreements.

### **Securities Lending**

The Funds may make secured loans of their portfolio securities; however, securities loans will not be made if, as a result, the aggregate amount of all outstanding securities loans by a Fund exceeds 33⅓% of its total assets (including the market value of collateral received). For purposes of complying with each Fund’s investment policies and restrictions, collateral received in connection with securities loans is deemed an asset of the Fund to the extent required by law. The Funds continue to receive dividends or interest, as applicable, on the securities loaned and simultaneously earns either interest on the investment of the cash collateral or fee income if the loan is otherwise collateralized.

To the extent a Fund engages in securities lending, securities loans will be made to broker-dealers that the Adviser believes to be of relatively high credit standing pursuant to agreements requiring that the loans continuously be collateralized by cash, liquid securities, or shares of other investment companies with a value at least equal to the

market value of the loaned securities. As with other extensions of credit, the Funds bear the risk of delay in the recovery of the securities and of loss of rights in the collateral should the borrower fail financially. The Funds also bear the entire risk of loss on any reinvested collateral received in connection with securities lending.

Voting rights or rights to consent with respect to the loaned securities pass to the borrower. Each Fund has the right to call loans at any time on reasonable notice. However, each Fund bears the risk of delay in the return of the security, impairing the Fund's ability to vote on such matters. The Adviser will retain lending agents on behalf of each Fund based on a percentage of the Fund's return on its securities lending. The Funds may also pay various fees in connection with securities loans, including shipping fees and custodian fees. The costs of lending securities are not reflected in the Funds' Annual Fund Operating Expenses.

### **Short Sales**

A short sale is a transaction in which a Fund sells a security it does not own. To complete such a transaction, a Fund must borrow the security to make delivery to the buyer. A Fund is then obligated to replace the security borrowed by borrowing the same security from another lender, purchasing it at the market price at the time of replacement or paying the lender an amount equal to the cost of purchasing the security. The price at such time may be more or less than the price at which the security was sold by a Fund. Until the security is replaced, a Fund is required to repay the lender any dividends it receives, or interest which accrues, during the period of the loan. To borrow the security, a Fund also may be required to pay a premium, which would increase the cost of the security sold. The net proceeds of the short sale will be retained by the broker, to the extent necessary to meet margin requirements, until the short position is closed out. The Funds also will incur transaction costs in effecting short sales.

Whenever a Fund engages in short sales, it earmarks or segregates liquid securities or cash in an amount that, when combined with the amount of collateral deposited with the broker in connection with the short sale (other than the proceeds of the short sale), equals the current market value of the security sold short. The earmarked or segregated assets are marked-to-market daily.

A Fund will incur a loss as a result of a short sale if the price of the security increases between the date of the short sale and the date on which the Fund replaces the borrowed security. A Fund will realize a gain if the price of the security declines in price between those dates. The amount of any gain will be decreased, and the amount of any loss increased, by the amount of the premium, dividends or interest a Fund may be required to pay, if any, in connection with a short sale. Short sales may be subject to unlimited losses as the price of a security can rise infinitely.

### **Swap Agreements**

The Funds may enter into swap agreements. The Funds may enter into equity or equity index swap agreements for purposes of attempting to gain exposure to an index or group of securities without actually purchasing those securities. Although some swap agreements may be exchange-traded, others are two-party contracts entered into primarily by institutional investors for periods ranging from a day to more than one year. Most, if not all, swap agreements entered into by a Fund will be two-party contracts. In connection with a Fund's positions in a swaps contract, the Fund will segregate liquid assets or will otherwise cover its position in accordance with applicable SEC requirements.

In such a standard "swap" transaction, two parties agree to exchange the returns (or differentials in rates of return) earned or realized on particular predetermined investments or instruments. The gross returns to be exchanged or "swapped" between the parties are calculated with respect to a "notional amount," *i.e.*, the return on or increase in value of a particular dollar amount invested in a "basket" of securities representing a particular index or group of securities. The use of swaps is a highly specialized activity which involves investment techniques and risks different from those associated with ordinary portfolio securities transactions.

Most swap agreements entered into by a Fund calculate the obligations of the parties to the agreement on a "net basis." Consequently, a Fund's current obligations (or rights) under a swap agreement will generally be equal only to the net amount to be paid or received under the agreement based on the relative values of the positions held by each party to the agreement (the "net amount").

A Fund's current obligations under a swap agreement will be accrued daily (offset against any amounts owing to the Fund) and any accrued but unpaid net amounts owed to a swap counterparty will be covered by segregating or earmarking cash of other assets determined to be liquid. Obligations under swap agreements so covered will not be construed to be "senior securities" for purposes of a Fund's investment restriction concerning senior securities. Because they are two-party contracts and because they may have terms of greater than seven days, swap agreements may be considered to be illiquid for purposes of a Fund's illiquid investment limitations. However, the Funds have adopted procedures pursuant to which the Adviser may determine swaps to be liquid under certain circumstances. To the extent that a swap is not liquid, it may not be possible to initiate a transaction or liquidate a position at an advantageous time or price, which could lead to significant losses. The Funds will not enter into any swap agreement unless the Adviser believes that the other party to the transaction is creditworthy. The Funds bear the risk of loss of the amount expected to be received under a swap agreement in the event of the default or bankruptcy of a swap agreement counterparty. If such a default occurs, the Funds will have contractual remedies pursuant to the swap agreements, but such remedies may be subject to bankruptcy and insolvency laws which could affect the Funds' rights as a creditor.

The Funds may enter into swap agreements to invest in a market without owning or taking physical custody of securities in circumstances in which direct investment is restricted for legal reasons or is otherwise impracticable. The counterparty to any swap agreement will typically be a bank, investment banking firm or broker/dealer. On a long swap, the counterparty will generally agree to pay a Fund the amount, if any, by which the notional amount of the swap agreement would have increased in value had it been invested in the particular stocks, plus the dividends that would have been received on those stocks.

The Funds will agree to pay to the counterparty a floating rate of interest on the notional amount of the swap agreement plus the amount, if any, by which the notional amount would have decreased in value had it been invested in such stocks. Therefore, the return to a Fund on any swap agreement will generally be the gain or loss on the notional amount plus dividends on the stocks less the interest paid by the Fund on the notional amount. As a trading technique, the Adviser may substitute physical securities with a swap agreement having risk characteristics substantially similar to the underlying securities.

Swap agreements typically are settled on a net basis, which means that the two payment streams are netted out, with a Fund receiving or paying, as the case may be, only the net amount of the two payments. Payments may be made at the conclusion of a swap agreement or periodically during its term. Swap agreements do not involve the delivery of securities or other underlying assets. Accordingly, the risk of loss with respect to swap agreements is limited to the net amount of payments that a Fund is contractually obligated to make. If the other party to a swap agreement defaults, a Fund's risk of loss consists of the net amount of payments that the Fund is contractually entitled to receive, if any. The net amount of the excess, if any, of a Fund's obligations over its entitlements with respect to each equity swap will be accrued on a daily basis and an amount of cash or liquid assets, having an aggregate value at least equal to such accrued excess will be earmarked or segregated by the Fund's custodian. Inasmuch as these transactions are offset by earmarked or segregated cash or liquid assets, as permitted by applicable law, these transactions will not be construed to constitute senior securities within the meaning of the 1940 Act, and will not be subject to a Fund's borrowing restrictions.

The swap market has grown substantially in recent years with a large number of banks and investment banking firms acting both as principals and as agents utilizing standardized swap documentation. As a result, the swap market has become relatively liquid in comparison with the markets for other similar instruments which are traded in the OTC market. The Adviser, under the supervision of the Board of Trustees, is responsible for determining and monitoring the liquidity of each Fund's transactions in swap agreements.

### **Cyber-Security Risk**

The Funds, and their service providers, may be prone to operational and information security risks resulting from cyber-attacks. Cyber-attacks include, among other behaviors, stealing or corrupting data maintained online or digitally, denial of service attacks on websites, the unauthorized release of confidential information or various other forms of cyber security breaches. Cyber-attacks affecting the Funds or the Adviser, custodian, transfer agent, intermediaries and other third-party service providers may adversely impact the Funds. For instance, cyber-attacks may interfere with the processing of shareholder transactions, impact a Fund's ability to calculate NAV, cause the release of private shareholder information or confidential business information, impede trading, subject a Fund to

regulatory fines or financial losses and/or cause reputational damage. A Fund may also incur additional costs for cyber security risk management purposes. While the Funds’ service providers have established business continuity plans, there are inherent limitations in such plans and systems, including the possibility that certain risks have not been identified. Furthermore, the Funds cannot control the cyber security plans and systems put in place by its service providers or any other third parties whose operations may affect the Funds or their shareholders. Similar types of cyber security risks are also present for issuers or securities in which the Funds may invest, which could result in material adverse consequences for such issuers and may cause the Funds’ investments in such companies to lose value.

## **PORTFOLIO TURNOVER**

Each Fund’s portfolio turnover may vary from year to year, as well as within a year. Each Fund’s portfolio turns over for a variety of reasons. A high portfolio turnover rate (for example, over 100%) may result in transaction costs to the Funds, including brokerage commissions and other transaction costs. The performance of the Funds could be negatively impacted by the increased costs.

“Portfolio Turnover Rate” is defined under the rules of the SEC as the lesser of the value of the securities purchased or securities sold, excluding all securities whose maturities at time of acquisition were one year or less, divided by the average monthly value of such securities owned during the year. Based on this definition, instruments with remaining maturities of less than one year are excluded from the calculation of Portfolio Turnover Rate. Instruments excluded from the calculation of portfolio turnover generally would include futures contracts and option contracts in which the Funds may invest because such contracts generally have a remaining maturity of less than one year.

For the periods indicated below, the Funds’ portfolio turnover rates were:

<b>Name of Fund</b>	<b>2018</b>	<b>2017</b>
TrimTabs All Cap International Free-Cash-Flow ETF	83% <sup>(1)</sup>	0% <sup>(2)</sup>
TrimTabs All Cap U.S. Free-Cash-Flow ETF	42%	63% <sup>(3)</sup>

<sup>(1)</sup> The increase in the Fund’s portfolio turnover for the fiscal year ended July 31, 2018 is due to an increase in assets during the Fund’s first fiscal year.

<sup>(2)</sup> For the fiscal period June 27, 2017 (commencement of operations) through July 31, 2017.

<sup>(3)</sup> For the fiscal period September 27, 2016 (commencement of operations) through July 31, 2017.

## **MANAGEMENT OF THE FUNDS**

### **Trustees and Officers**

The business and affairs of the Trust are managed by its officers under the oversight of its Board. The Board sets broad policies for the Trust and may appoint Trust officers. The Board oversees the performance of the Adviser and the Trust’s other service providers. Each Trustee serves until his or her successor is duly elected or appointed and qualified.

The Board is comprised of three Trustees. One Trustee and certain of the officers of the Trust are directors, officers or employees of the Adviser. The other Trustees are Independent Trustees. The fund complex includes all funds advised by the Adviser (“Fund Complex”).

The Trustees, their year of birth, term of office and length of time served, their principal business occupations during the past five years, the number of portfolios in the Fund Complex overseen and other directorships, if any, held by each Trustee, are shown below. The officers, their year of birth, term of office and length of time served and their principal business occupations during the past five years, are shown below. Unless noted otherwise, the address of each Trustee and each Officer is: c/o 1345 Avenue of the Americas, 2nd Floor, New York, NY 10105.



<b>Name, Year of Birth</b>	<b>Position(s) Held with Trust</b>	<b>Term of Office and Length of Time Served</b>	<b>Principal Occupation During Past 5 Years</b>	<b>Number of Funds in Fund Complex Overseen by Trustee</b>	<b>Other Directorships Held by Trustee During Past 5 Years</b>
<b>Independent Trustees</b>					
Stephen J. Posner YOB: 1944	Trustee	Since 2014	Retired Since 2014; Financial Advisor, Wunderlich Securities, Inc. (2005-2014).	2	Director, TrimTabs Investment Research (2016-Present)**
David A. Kelly YOB: 1938	Trustee	Since 2015	Founder and President, Three Lakes Advisors, Inc. (1996-present).	2	Member, Audit Committee, Greenwich Historical Society (2011-2013).
<b>Interested Trustee*</b>					
Charles Biderman YOB: 1946	Trustee; formerly President	Trustee since 2014; President from 2014 to 2017	Consultant, Informa TrimTabs (2017-2017); Founder, TrimTabs Asset Management, LLC (1990-present); Founder and Chief Executive Officer, TrimTabs Investment Research (1990-present); President, TrimTabs Index Services, LLC (2014-2016).	2	None

\* Mr. Biderman is an “interested person,” as defined by the Investment Company Act, because of his employment with and ownership interest in the Adviser.

\*\* TrimTabs Investment Research does not control, and is not controlled by or under common control with, the Adviser.

#### **Officers**

<b>Name, Year of Birth</b>	<b>Position(s) Held with Trust</b>	<b>Term of Office and Length of Time Served</b>	<b>Principal Occupation During Past 5 Years</b>
Theodore M. Theodore YOB: 1940	President and Principal Executive Officer; formerly, Vice President	President and Principal Executive Officer since 2017; Vice President from 2015 to 2017	Vice Chairman and Chief Investment Officer, TrimTabs Asset Management, LLC (2015-Present); Senior Managing Director, Quantitative Analysis Services (2014 – 2015); Managing Partner, Horizons Advisory (2012 – 2014).

## Officers

Name, Year of Birth	Position(s) Held with Trust	Term of Office and Length of Time Served	Principal Occupation During Past 5 Years
Jeffrey Lazar YOB: 1959	Chief Compliance Officer, Anti-Money Laundering Officer, and Principal Financial Officer	Since 2016	Chief Operating Officer and Chief Compliance Officer, TrimTabs Asset Management, LLC (2016-Present); Chief Operating Officer, Dasoma Capital Management LLC (2014-2016); Chief Financial Officer, Everkey Global Partners (2008-2014).
Janet Johnson YOB: 1963	Vice President	Since 2018	Portfolio Manager, TrimTabs Asset Management, LLC (2017 to present). ETF Advisor (2012 to 2015).
Derin Cohen YOB: 1991	Vice President	Since 2018	Vice President, Marketing and Operations, TrimTabs Asset Management (2017-Present), Lead Generation Associate, SinglePlatform (2017-2017), Internal Control Associate, Maxim Group LLC, (2013-2017).

### Additional Information About the Trustees

The following provides information additional to that set forth in the table above regarding other relevant qualifications, experience, attributes or skills applicable to each Trustee.

**Stephen J. Posner:** Mr. Posner has extensive experience in the securities industry, having served as a general securities representative, registered options principal, and general securities sales supervisor of a broker-dealer.

**David A. Kelly:** Mr. Kelly has extensive experience in the investment management industry, including as founder and president of an investment adviser.

**Charles Biderman:** Mr. Biderman has extensive experience in the investment management industry, including as a founder of the Adviser and the founder of a securities research firm.

The Board has determined that each Trustee on an individual basis and in combination with the other Trustees is qualified to serve, and should serve, on the Board. To make this determination the Board considered a variety of criteria, none of which in isolation was controlling. Among other things, the Board considered each Trustee's experience, qualifications, attributes and skills.

In June 2014, Mr. Posner finalized a Letter of Acceptance, Waiver, and Consent ("AWC") with FINRA. The AWC included findings by the FINRA staff that, over a 13 month period ending January 31, 2010, Mr. Posner, on behalf of certain customers, had executed sales of unregistered securities without verifying the availability of an exemption from registration for them, in violation of certain federal securities laws and a FINRA rule. Mr. Posner neither admitted nor denied these findings, and in connection with the settlement of the matter agreed to a fine,

disgorgement, and a 10-day suspension from association with any FINRA member. The Board considered the AWC and determined that the subject matter of the AWC and Mr. Posner's settlement with FINRA would not negatively impact his ability to serve as a Trustee.

### **Board Structure**

Mr. Biderman is considered to be an Interested Trustee and serves as Chairman of the Board. The Chairman's responsibilities include: setting an agenda for each meeting of the Board; presiding at all meetings of the Board and, if present, meetings of the Independent Trustees; and, serving as a liaison between the other Trustees, Trust officers, management personnel and counsel.

The Board believes that having an interested Chairman, who is familiar with the Adviser and its operations, while also having two-thirds of the Board composed of Independent Trustees, strikes an appropriate balance that allows the Board to benefit from the insights and perspective of a representative of management while empowering the Independent Trustees with the ultimate decision-making authority. The Board has not appointed a lead Independent Trustee at this time. The Board does not believe that an independent Chairman or lead Independent Trustee would enhance the Board's effectiveness, as the relatively small size of the Board allows for diverse viewpoints to be shared and for effective communications between and among Independent Trustees and management so that meetings proceed efficiently. Independent Trustees have effective control over the Board's agenda because they form a majority of the Board and can request presentations and agenda topics at Board meetings. The Board of the Trust met four times during the fiscal year ended July 31, 2018.

The Board normally holds four regularly scheduled meetings each year, at least one of which is in person. The Board may hold special meetings, as needed, either in person or by telephone, to address matters arising between regular meetings. The Independent Trustees meet separately at each regularly scheduled in-person meeting of the Board; during a portion of each such separate meeting management is not present. The Independent Trustees may also hold special meetings, as needed, either in person or by telephone.

The Board will conduct a self-assessment on an annual basis, as part of which it considers whether the structure of the Board and its Committees is appropriate under the circumstances. Based on such self-assessment, among other things, the Board will consider whether its current structure is appropriate. As part of this self-assessment, the Board will consider several factors, including the number of funds overseen by the Board, their investment objectives, and the responsibilities entrusted to the Adviser and other service providers with respect to the oversight of the day-to-day operations of the Trust and the Funds.

The Board sets broad policies for the Trust and may appoint Trust officers. The Board oversees the performance of the Adviser and the Trust's other service providers. As part of its oversight function, the Board monitors the Adviser's risk management, including, as applicable, its management of investment, compliance and operational risks, through the receipt of periodic reports and presentations. The Board has not established a standing risk committee. Rather, the Board relies on Trust officers, advisory personnel and service providers to manage applicable risks and report exceptions to the Board in order to enable it to exercise its oversight responsibility. To this end, the Board receives reports from such parties at least quarterly, including, but not limited to, investment and/or performance reports, distribution reports, Rule 12b-1 reports, valuation and internal controls reports. Similarly, the Board receives quarterly reports from the Trust's chief compliance officer ("CCO"), including, but not limited to, a report on the Trust's compliance program, and the Independent Trustees have an opportunity to meet separately each quarter with the CCO. The CCO typically provides the Board with updates regarding the Trust's compliance policies and procedures, including any enhancements to them. The Board expects all parties, including, but not limited to, the Adviser, other service providers and the CCO, to inform the Board on an intra-quarter basis if a material issue arises that requires the Board's oversight.

The Board generally exercises its oversight as a whole, but has delegated certain oversight functions to an Audit Committee. The function of the Audit Committee is discussed in detail below.

### **Committees**

The Board currently has three standing committees: an Audit Committee, a Nominating Committee and a Qualified Legal Compliance Committee. Each Independent Trustee serves on each of these committees.

The purposes of the Audit Committee are to: (1) oversee generally the Funds’ accounting and financial reporting policies and practices, their internal controls and, as appropriate, the internal controls of certain service providers; (2) oversee the quality, integrity, and objectivity of the Funds’ financial statements and the independent audit thereof; (3) assist the full Board with its oversight of the Trust’s compliance with legal and regulatory requirements that relate to the Funds’ accounting and financial reporting, internal controls and independent audits; (4) approve, prior to appointment, the engagement of the Trust’s independent auditors and, in connection therewith, to review and evaluate the qualifications, independence and performance of the Trust’s independent auditors; and (5) act as a liaison between the Trust’s independent auditors and the full Board. During the fiscal year ended July 31, 2018, the Audit Committee met four times.

The purposes of the Nominating Committee are, among other things, to: (1) identify and recommend for nomination candidates to serve as Trustees and/or on Board committees who are not “interested persons” as defined in Section 2(a)(19) of the Investment Company Act (“Interested Person”) of the Trust and who meet any independence requirements of Exchange Rule 5.3(k)(1) or the applicable rule of any other exchange on which shares of the Trust are listed; (2) evaluate and make recommendations to the full Board regarding potential trustee candidates who are Interested Persons of the Trust; and (3) review periodically the workload and capabilities of the Trustees and, as the Committee deems appropriate, to make recommendations to the Board if such a review suggests that changes to the size or composition of the Board and/or its committees are warranted. The Committee will generally not consider potential candidates for nomination identified by shareholders. The Nominating Committee did not meet during the fiscal year ended July 31, 2018.

The purpose of the Qualified Legal Compliance Committee is to evaluate and recommend resolutions to reports from attorneys servicing the Trust regarding evidence of material violations of applicable federal and state law or the breach of fiduciary duties under applicable federal and state law by the Trust or an employee or agent of the Trust. The Qualified Legal Compliance Committee did not meet during the fiscal year ended July 31, 2018.

#### Compensation of Trustees

The Independent Trustees determine the amount of compensation that they receive. In determining compensation for the Independent Trustees, the Independent Trustees take into account a variety of factors including, among other things, their collective significant work experience (*e.g.*, in business and finance, government or academia). The Independent Trustees also recognize that these individuals’ advice and counsel are in demand by other organizations, that these individuals may reject other opportunities because of the time demands of their duties as Independent Trustees, and that they undertake significant legal responsibilities. The Independent Trustees also consider the compensation paid to independent board members of other registered investment company complexes of comparable size.

Independent Trustees are paid \$4,000 per quarter for attendance at meetings of the Board. All Trustees are reimbursed for their travel expenses and other reasonable out-of-pocket expenses incurred in connection with attending Board meetings. The Trust does not accrue pension or retirement benefits as part of the Fund’s expenses, and Trustees are not entitled to benefits upon retirement from the Board. The Trust’s officers and any interested Trustees receive no compensation directly from the Trust.

The table shows the total compensation paid to the Trustees for the Fund Complex for the fiscal year ended July 31, 2018:

Independent Trustees	Compensation	Compensation Deferred	Total Compensation for the Fund Complex Paid to Trustees**
Stephen J. Posner	\$16,000	\$0	\$16,000
David A. Kelly	\$16,000	\$0	\$16,000
<b>Interested Trustee</b>			
Charles Biderman*	\$0	\$0	\$0

\* Mr. Biderman is an “interested person,” as defined by the Investment Company Act, because of his employment with and ownership interest in the Adviser.

\*\* Pursuant to the terms of its investment advisory agreement with respect to the Funds, the Adviser bears all of its own costs associated with providing advisory services and all the expenses of the Funds (excluding certain items, as provided in the investment advisory agreement), including Trustee compensation.

### Fund Shares Owned by Trustees

The table below shows the dollar range of equity securities in the Funds beneficially owned by each Trustee as of December 31, 2017:

Dollar Range of Equity Securities Owned:	Interested Trustee:	Independent Trustees:	
	Charles Biderman	Stephen J. Posner	David A. Kelly
TrimTabs All Cap International Free-Cash-Flow ETF	\$1 - \$10,000	N/A	N/A
TrimTabs All Cap U.S. Free-Cash-Flow ETF	\$50,001 - \$100,000	\$0	\$0
Aggregate Dollar Range of Equity Securities	\$50,001 - \$100,000	\$0	\$0

As of December 31, 2017, none of the Independent Trustees or their immediate family members beneficially owned any securities in any investment adviser or principal underwriter of the Trust, or in any person (other than a registered investment company) directly or indirectly controlling, controlled by, or under common control with an investment adviser or principal underwriter of the Trust.

### Codes of Ethics

The Board, on behalf of the Trust, has adopted a Code of Ethics pursuant to Rule 17j-1 under the Investment Company Act. In addition, the Adviser and the Distributor have each adopted a Code of Ethics pursuant to Rule 17j-1. These Codes of Ethics (each a “Code of Ethics” and together the “Codes of Ethics”) apply to the personal investing activities of trustees, directors, officers and certain employees (“access persons”). Rule 17j-1 and the Codes of Ethics are designed to prevent unlawful practices in connection with the purchase or sale of securities by access persons. Under each Code of Ethics, access persons are permitted to engage in personal securities transactions, but are required to report their personal securities transactions for monitoring purposes. In addition, certain access persons are required to obtain approval before investing in private placements and are prohibited from investing in initial public offerings. Copies of the Codes of Ethics are on file with the SEC, and are available to the public.

### Proxy Voting

The Board has delegated to the Adviser the responsibility to vote proxies related to the securities held in each Fund’s portfolio. Under this authority, the Adviser is required by the Board to vote proxies related to portfolio securities in the best interests of each Fund and its shareholders. The Adviser will vote such proxies in accordance with its proxy policies and procedures, which are included in Appendix A to this SAI. The Board will periodically review each Fund’s proxy voting record.

The Trust annually discloses its complete proxy voting record on Form N-PX. The Trust’s most recent Form N-PX is available without charge, upon request, by calling 800-617-0004. The Trust’s Form N-PX is available on the SEC’s website at [www.sec.gov](http://www.sec.gov).

## CONTROL PERSONS AND PRINCIPAL HOLDERS OF SECURITIES

A principal shareholder is any person who owns of record or beneficially 5% or more of the outstanding shares of a Fund. A control person is one who owns beneficially or through controlled companies more than 25% of the voting securities of a company or acknowledges the existence of control. Shareholders with a controlling interest could affect the outcome of voting or the direction of management of a Fund. As of October 31, 2018, the Trustees and officers of the Trust, as a group, owned less than 1% of the Shares of each Fund. As of October 31, 2018, the shareholders in the table below were each considered to be either a control person or a principal shareholder of the applicable Fund(s). The control person, whose holdings are included in the table below, is Silk Partners, LP, an entity that is majority owned by two trusts controlled, like the Adviser, by the Glick family, whose family office is located at 810 Seventh Avenue, 28th Floor, New York NY 10019.

<b>TrimTabs All Cap International Free-Cash-Flow ETF</b>				
<b>Name and Address</b>	<b>% Ownership</b>	<b>Parent Company</b>	<b>Jurisdiction of Organization</b>	<b>Ownership Type</b>
Morgan Stanley, LLC 1585 Broadway New York, NY 10036	67.08%	Morgan Stanley & Co. Inc.	DE	Record
LPL Financial 75 State Street, 22nd Floor Boston, MA 02109	8.96%	N/A	N/A	Record
JPMorgan Chase & Co. 270 Park Avenue New York, NY 10017	6.09%	N/A	N/A	Record
<b>TrimTabs All Cap U.S. Free-Cash-Flow ETF</b>				
<b>Name and Address</b>	<b>% Ownership</b>	<b>Parent Company</b>	<b>Jurisdiction of Organization</b>	<b>Ownership Type</b>
NFS, LLC 640 Fifth Avenue New York, NY 10019	24.36%	N/A	N/A	Record
TD Ameritrade Inc. 200 South 108th Avenue Omaha, NE 68154	15.93%	N/A	N/A	Record
RBC Capital Markets 3 World Financial Center 200 Vesey Street, 9th Floor New York, NY 10281	12.76%	N/A	N/A	Record
Morgan Stanley, LLC 1585 Broadway New York, NY 10036	12.62%	N/A	N/A	Record
Pershing, LLC P.O. Box 2052 Jersey City, NJ 07303-2052	8.01%	N/A	N/A	Record
Charles Schwab & Co., Inc. 211 Main Street San Francisco, CA 94104	7.07%	N/A	N/A	Record

## **INVESTMENT MANAGEMENT AND OTHER SERVICES**

### **Investment Advisory Agreement**

TrimTabs Asset Management, LLC is the investment adviser to the Funds. Under an investment advisory agreement between the Adviser and the Trust, on behalf of the Funds (“Management Agreement”), each Fund pays the Adviser a fee at an annualized rate, which is calculated daily and paid monthly, based on its average daily net assets, set forth in the table below.

<b>Fund</b>	<b>Advisory Fee</b>
TrimTabs All Cap International Free-Cash-Flow ETF	0.59%
TrimTabs All Cap U.S. Free-Cash-Flow ETF	0.59%

For the fiscal periods indicated below, each Fund paid the following managements fees to the Adviser:

<b>Management Fees</b>		
<b>Earned During Fiscal Period Ended July 31,</b>		
<b>Fund</b>	<b>2018</b>	<b>2017</b>
TrimTabs All Cap International Free-Cash-Flow ETF	\$48,067	\$1,828 <sup>(1)</sup>
TrimTabs All Cap U.S. Free-Cash-Flow ETF	\$313,880	\$59,350 <sup>(2)</sup>

<sup>(1)</sup> For the fiscal period June 27, 2017 (commencement of operations) through July 31, 2017.

<sup>(2)</sup> For the fiscal period September 27, 2016 (commencement of operations) through July 31, 2017.

The Adviser manages the investment and the reinvestment of the assets of the Funds in accordance with the investment objectives, policies, and limitations of the Funds, subject to the general supervision and control of the Board. The Adviser is a registered investment adviser under the Investment Advisers Act of 1940 and is a limited liability corporation organized under the laws of Delaware. The address of the Adviser is 1345 Avenue of the Americas, 2nd Floor, New York, NY 10105. The Adviser was founded in 2005 and provides investment advisory services to registered investment companies and separately managed accounts. As of July 31, 2018, the Adviser managed approximately \$109.9 million. Since 2015, the Glick family has held a controlling interest in the Adviser through ownership of one or more entities holding a majority of the membership units in the Adviser.

The Adviser bears all of its own costs associated with providing these advisory services and all expenses of the Funds, except for the fee payment under the Management Agreement, payments under the Funds' Rule 12b-1 plan, brokerage expenses, acquired fund fees and expenses, taxes, interest (including borrowing costs and dividend expenses on securities sold short), litigation expense and other extraordinary expenses.

The Management Agreement provides that the Adviser will not be liable for any error of judgment or mistake of law or for any loss suffered by the Trust in connection with the matters to which the Management Agreement relates, but will be liable to the Trust and its shareholders only for willful misfeasance, bad faith, or gross negligence on its part in the performance of its duties or from reckless disregard of its obligations or duties thereunder.

The Management Agreement also provides that the Adviser may engage in other businesses, devote time and attention to any other business whether of a similar or dissimilar nature, and render investment advisory services to others.

The Management Agreement with respect to each Fund will remain in effect for two (2) years from its effective date and thereafter continues in effect for as long as its continuance is specifically approved at least annually, by (1) the vote of the Trustees or by a vote of a majority of the shareholders of a Fund, and (2) by the vote of a majority of the Trustees who are not parties to the Management Agreement or Interested Persons of any person thereto, cast in person at a meeting called for the purpose of voting on such approval. The Management Agreement for each Fund provides that it may be terminated at any time, without the payment of any penalty, by the Board of Trustees or, with respect to the Fund, by a majority of the outstanding Shares, on 60 days' written notice to the Adviser, and by the Adviser upon 60 days' written notice and that it shall be automatically terminated if it is assigned.

#### **Transfer Agent and Fund Accounting Agent**

U.S. Bancorp Fund Services, LLC doing business as U.S. Bank Global Fund Services ("Fund Services"), located at 615 East Michigan Street, Milwaukee, Wisconsin 53202, serves as transfer agent for the Funds pursuant to a transfer agent servicing agreement (the "Transfer Agent Servicing Agreement") and as Fund Accounting agent pursuant to a fund accounting servicing agreement (the "Fund Accounting Servicing Agreement"). As compensation for these services, Fund Services receives certain out-of-pocket costs, transaction fees and asset-based fees which are accrued daily and paid monthly by the Adviser from its fees.

#### **Administrator**

Fund Services, located at 615 East Michigan Street, Milwaukee, Wisconsin 53202, also serves as the administrator for the Funds pursuant to a fund administration servicing agreement (the "Fund Administration Servicing Agreement"). Under the Fund Administration Servicing Agreement, Fund Services is obligated, on a continuous basis, to provide such administrative services as the Board reasonably deems necessary for the proper administration of the Trust. Fund Services generally will assist in many aspects of the Trust's and the Funds' operations, including accounting, bookkeeping and record keeping services (including, without limitation, the

maintenance of such books and records as are required under the Investment Company Act and the rules thereunder, except as maintained by other agents), assisting in preparing reports to shareholders or investors, assisting in the preparation and filing of tax returns, supplying financial information and supporting data for reports to and filings with the SEC, and supplying supporting documentation for meetings of the Board. Pursuant to the Agreement, the Trust has agreed to indemnify the Administrator for certain liabilities, including certain liabilities arising under the federal securities laws, unless such loss or liability results from gross negligence, bad faith or willful misconduct in the performance of its duties. As compensation for these services, the Administrator receives certain out-of-pocket costs, transaction fees and asset-based fees which are accrued daily and paid monthly by the Adviser from its fees.

For the fiscal year ended July 31, 2018 the Funds paid the following fees to Fund Services and U.S. Bank for administration and fund accounting services:

Fund	Fiscal Year Ended July 31, 2018	Fiscal Period Ended July 31, 2017
TrimTabs All Cap International Free-Cash-Flow ETF	\$71,951	\$0 <sup>(1)</sup>
TrimTabs All Cap U.S. Free-Cash-Flow ETF	\$99,183	\$50,017 <sup>(2)</sup>

<sup>(1)</sup> For the fiscal period June 27, 2017 (commencement of operations) through July 31, 2017.

<sup>(2)</sup> For the fiscal period September 27, 2016 (commencement of operations) through July 31, 2017.

#### Custodian

U.S. Bank, N.A. (“Custodian”), located at 1555 N. Rivercenter Drive, Suite 302, Milwaukee, Wisconsin 53212, serves as the Custodian for the Funds pursuant to a custody agreement (the “Custody Agreement”). The Custodian holds each Fund’s assets, among other duties. Under the Custody Agreement, the Custodian is also authorized to appoint certain foreign custodians for Fund investments outside of the United States.

#### PORTFOLIOMANAGERS

The following table provides information about other accounts managed by the portfolio managers who have day-to-day responsibility for management of the Funds. The reporting information is provided as of July 31, 2017:

Portfolio Managers	Registered Investment Companies		Other Pooled Investment Vehicles		Other Accounts		Performance Fee Accounts	
	Number of Accounts	Total Assets (in millions)	Number of Accounts	Total Assets (in millions)	Number of Accounts	Total Assets (in millions)	Number of Accounts	Total Assets (in millions)
Janet F. Johnston	0	\$0	0	\$0	1	\$0.7	0	\$0
Theodore M. Theodore	0	\$0	0	\$0	1	\$0.7	0	\$0

#### Potential Conflicts of Interest

The portfolio managers’ management of “other accounts” may give rise to potential conflicts of interest in connection with their management of a Fund’s investments, on the one hand, and the investments of the other accounts, on the other. The other accounts may have the same investment objective as the fund for which they serve as portfolio manager. Therefore, a potential conflict of interest may arise as a result of the identical investment objectives, whereby the portfolio managers could favor one account over another. Another potential conflict could include the portfolio managers’ knowledge about the size, timing and possible market impact of Fund trades, whereby the portfolio managers could use this information to the advantage of other accounts and to the disadvantage of a Fund.

The Adviser has established policies and procedures to ensure that the purchase and sale of securities among all accounts it manages are fairly and equitably allocated. There can be no assurance that these policies and procedures will be effective, however.



## Compensation

The portfolio managers' compensation is comprised of a base salary and a bonus, which is based on the profitability of the Adviser. Thus, portfolio manager compensation is aligned with the interests of the Adviser's clients, including the Funds and their investors.

## Portfolio Managers' Ownership in the Funds

As of July 31, 2018, the dollar range of equity securities in the Funds beneficially owned by the Portfolio Managers were as follows:

<b>Fund</b>	<b>Theodore M. Theodore</b>	<b>Janet Flanders Johnston</b>
TrimTabs All Cap International Free-Cash-Flow ETF	\$10,001–\$50,000	None
TrimTabs All Cap U.S. Free-Cash-Flow ETF	\$10,001–\$50,000	\$1 – 10,000

## PORTFOLIO TRANSACTIONS AND BROKERAGE

### Brokerage Transactions

Portfolio changes will generally be implemented through in-kind transactions for Creation Units; however, the Adviser may execute brokerage transactions for the Funds and the Funds may incur brokerage commissions, particularly during the early stages of the Funds' development or in the case of transactions involving realized losses. Also, the Funds may accept cash as part or all of an In-Kind Creation or Redemption Basket, in which case the Adviser may need to execute brokerage transactions for the Funds. Generally, equity securities, including securities of underlying ETFs, are bought and sold through brokerage transactions for which commissions are payable. Purchases from underwriters will include the underwriting commission or concession, and purchases from dealers serving as market makers will include a dealer's mark-up or reflect a dealer's mark-down. Money market securities and other debt securities are usually bought and sold directly from the issuer or an underwriter or market maker for the securities. Generally, the Funds will not pay brokerage commissions for such purchases. When a debt security is bought from an underwriter, the purchase price will usually include an underwriting commission or concession. The purchase price for securities bought from dealers serving as market makers will similarly include the dealer's mark-up or reflect a dealer's mark-down. When the Funds execute transactions in the over-the-counter market, it will generally deal with primary market makers unless prices that are more favorable are otherwise obtainable.

In addition, the Adviser may place a combined order, often referred to as "bunching," for two or more accounts it manages, including the Funds, engaged in the purchase or sale of the same security or other instrument if, in its judgment, joint execution is in the best interest of each participant and will result in best price and execution. Transactions involving commingled orders are allocated in a manner deemed equitable to each account or Fund. Although it is recognized that, in some cases, the joint execution of orders could adversely affect the price or volume of the security that a particular account or a Fund may obtain, it is the opinion of the Adviser and the Board that the advantages of combined orders outweigh the possible disadvantages of separate transactions. In addition, in some instances a Fund effecting the larger portion of a combined order may not benefit to the same extent as participants effecting smaller portions of the combined order. Nonetheless, the Adviser believes that the ability of the Funds to participate in higher volume transactions will generally be beneficial to the Funds.

For the fiscal periods indicated below, the Funds paid the following aggregate dollar amount of brokerage commissions for Fund portfolio transactions:

<b>Brokerage Commissions</b>		
<b>Paid During Fiscal Period Ended July 31,</b>		
<b>Fund</b>	<b>2018</b>	<b>2017</b>
TrimTabs All Cap International Free-Cash-Flow ETF	\$15,009	\$0 <sup>(1)</sup>
TrimTabs All Cap U.S. Free-Cash-Flow ETF	\$15,437	\$5,901 <sup>(2)</sup>

<sup>(1)</sup> For the fiscal period June 27, 2017 (commencement of operations) through July 31, 2017.

<sup>(2)</sup> For the fiscal period September 27, 2016 (commencement of operations) through July 31, 2017.

### **Brokerage Selection**

The Trust does not expect to use one particular broker-dealer to effect the Trust's portfolio transactions. When one or more broker-dealers is believed capable of providing the best combination of price and execution, the Adviser may not select a broker-dealer based on the lowest commission rate available for a particular transaction. In such cases, the Adviser may pay a higher commission than otherwise obtainable from other brokers in return for brokerage or research services provided to the Adviser consistent with Section 28(e) of the 1934 Act, which provides that the Adviser may cause a Fund to pay a broker-dealer a commission for effecting a transaction in excess of the amount of commission another broker-dealer would have charged as long as the Adviser makes a good faith determination that the amount of commission is reasonable in relation to the value of the brokerage and research services provided by the broker-dealer. To the extent the Adviser obtains brokerage and research services that it otherwise would acquire at its own expense, the Adviser may have an incentive to place a greater volume of transactions or pay higher commissions than would otherwise be the case.

The Adviser will only obtain brokerage and research services from broker-dealers in arrangements that are consistent with Section 28(e) of the 1934 Act. The types of products and services that the Adviser may obtain from broker-dealers through such arrangements will include research reports and other information on the economy, industries, sectors, groups of securities, individual companies, statistical information, political developments, technical market action, pricing and appraisal services, credit analysis, risk measurement analysis, performance and other analysis. The Adviser may use products and services provided by brokers in servicing all of its client accounts and not all such products and services may necessarily be used in connection with the account that paid commissions to the broker-dealer providing such products and services. Any advisory or other fees paid to the Adviser are not reduced as a result of the receipt of brokerage and research services.

In some cases, the Adviser may receive a product or service from a broker that has both a "research" and a "non-research" use. When this occurs, the Adviser will make a good faith allocation between the research and non-research uses of the product or service. The percentage of the service that is used for research purposes may be paid for with brokerage commissions, while the Adviser will use its own funds to pay for the percentage of the service that is used for non-research purposes. In making this good faith allocation, the Adviser faces a potential conflict of interest, but the Adviser believes that its allocation procedures are reasonably designed to appropriately allocate the anticipated use of such products and services to research and non-research uses.

### **Brokerage with Fund Affiliates**

Although not expected, the Funds may execute brokerage or other agency transactions through registered broker-dealer affiliates of the Funds, the Adviser, or the Distributor for a commission in conformity with the Investment Company Act, the 1934 Act and rules promulgated by the SEC. Under the Investment Company Act and the 1934 Act, affiliated broker-dealers are permitted to receive and retain compensation for effecting portfolio transactions for the Funds on an exchange if a written contract is in effect between the affiliate and a Fund expressly permitting the affiliate to receive and retain such compensation. These rules further require that commissions paid to the affiliate by a Fund for exchange transactions not exceed "usual and customary" brokerage commissions. The rules define "usual and customary" commissions to include amounts that are "reasonable and fair compared to the commission, fee or other remuneration received or to be received by other brokers in connection with comparable transactions involving similar securities being purchased or sold on a securities exchange during a comparable period of time." The Board, including those who are not "interested persons" of the Funds, has adopted procedures for evaluating the reasonableness of commissions paid to affiliates and reviews these procedures periodically.

### **Securities of "Regular Broker-Dealers"**

The Funds are required to identify any securities of their "regular brokers and dealers" (as such term is defined in the Investment Company Act) that the Funds may hold at the close of their most recent fiscal year. "Regular brokers and dealers" of the Trust are the ten brokers or dealers that, during the most recent fiscal year: (i) received the greatest dollar amounts of brokerage commissions from the Trust's portfolio transactions; (ii) engaged as principal in the largest dollar amounts of portfolio transactions of the Trust; or (iii) sold the largest dollar amounts of the Trust's shares. The Funds did not hold any securities of their "regular broker dealers" during the fiscal year ended July 31, 2018.

## THE DISTRIBUTOR

Quasar Distributors, LLC (the “Distributor”), a registered broker-dealer and member of the Financial Industry Regulatory Authority, serves as the distributor of Creation Units for the Funds on an agency basis. The Trust has entered into a Distribution Agreement, (“Distribution Agreement”), under which the Distributor, as agent, receives orders from Authorized Participants to create and redeem shares in Creation Unit aggregations and transmits such orders to the Trust’s Custodian and Transfer Agent. The Distributor’s principal address is 777 East Wisconsin Avenue, 6th Floor, Milwaukee, Wisconsin 53202. Shares will be continuously offered for sale on a best efforts basis by the Trust through the Distributor only in whole Creation Units, as described in the section of this SAI entitled “Transactions in Creation Units.” The Distributor also acts as an agent for the Trust for those activities described within the Distribution Agreement. The Distributor will deliver a prospectus to Authorized Participants purchasing Shares in Creation Units and will maintain records of both orders placed with it and confirmations of acceptance furnished by it to Authorized Participants. The Distributor and its officers have no role in determining the investment policies of the Funds or which securities are to be purchased or sold by the Funds. No compensation is payable by the Trust to the Distributor for such distribution services. However, the Adviser has entered into an agreement with the Distributor under which it makes payments to the Distributor in consideration for its services under the Distribution Agreement. The payments made by the Adviser to the Distributor do not represent an additional expense to the Trust or its shareholders.

### **Distribution Plan**

The Trust has adopted a Distribution Plan (the “Plan”) in accordance with the provisions of Rule 12b-1 under the Investment Company Act, which regulates circumstances under which an investment company may directly or indirectly bear expenses relating to the distribution of its shares. There is no current intention to charge such fees pursuant to the Plan. Continuance of the Plan must be approved annually by a majority of the Trustees of the Trust and by a majority of the independent Trustees who have no direct or indirect financial interest in the Plan or in any agreements related to the Plan (“Qualified Trustees”). The Plan requires that quarterly written reports of amounts spent under the Plan and the purposes of such expenditures be furnished to and reviewed by the Trustees. The Plan may not be amended to increase materially the amount that may be spent thereunder without approval by a majority of the outstanding shares of any class of a Fund that is affected by such increase. All material amendments of the Plan will require approval by a majority of the Trustees of the Trust and of the Qualified Trustees.

The Plan provides that Shares pay the Distributor an annual fee of up to a maximum of 0.25% of the average daily net assets of the Shares. Under the Plan, the Distributor may make payments pursuant to written agreements to financial institutions and intermediaries such as banks, savings and loan associations and insurance companies including, without limit, investment counselors, broker-dealers and the Distributor’s affiliates and subsidiaries (collectively, “Agents”) as compensation for services and reimbursement of expenses incurred in connection with distribution assistance. The Plan is characterized as a compensation plan since the distribution fee will be paid to the Distributor without regard to the distribution expenses incurred by the Distributor or the amount of payments made to other financial institutions and intermediaries. The Distributor does not retain 12b-1 fees for profit, but instead keeps any excess (if applicable) in retention for future distribution related expenses. The Adviser pays the Distributor a fee for certain distribution related services. The Trust intends to operate the Plan in accordance with its terms and with FINRA rules concerning sales charges.

Under the Plan, subject to the limitations of applicable law and regulations, the Funds are authorized to compensate the Distributor up to the maximum amount to finance any activity primarily intended to result in the sale of Creation Units of a Fund or for providing or arranging for others to provide shareholder services and for the maintenance of shareholder accounts. Such activities may include, but are not limited to: (i) delivering copies of a Fund’s then-current reports, prospectuses, notices, and similar materials, to prospective purchasers of Creation Units; (ii) marketing and promotional services, including advertising; (iii) paying the costs of and compensating others, including Authorized Participants with whom the Distributor has entered into written Authorized Participant Agreements, for performing shareholder servicing on behalf of a Fund; (iv) compensating certain Authorized Participants for providing assistance in distributing the Creation Units of a Fund, including the travel and communication expenses and salaries and/or commissions of sales personnel in connection with the distribution of the Creation Units of a Fund; (v) payments to financial institutions and intermediaries such as banks, savings and loan associations, insurance companies and investment counselors, broker-dealers, mutual fund supermarkets and the affiliates and subsidiaries of the Trust’s service providers as compensation for services or reimbursement of

expenses incurred in connection with distribution assistance; (vi) facilitating communications with beneficial owners of Shares, including the cost of providing (or paying others to provide) services to beneficial owners of shares, including, but not limited to, assistance in answering inquiries related to shareholder accounts, and (vi) such other services and obligations as are set forth in the Distribution Agreement.

#### **Payments to Financial Intermediaries**

The Funds and their affiliates (at their own expense) may pay compensation to financial intermediaries for shareholder-related services and, if applicable, distribution-related services, including administrative, recordkeeping and shareholder communication services. For example, compensation may be paid to make Shares available to sales representatives and/or customers of a fund supermarket platform or a similar program sponsor or for services provided in connection with such fund supermarket platforms and programs.

The amount of compensation paid to different financial intermediaries may vary. The compensation paid to a financial intermediary may be based on a variety of factors, including average assets under management in accounts distributed and/or serviced by the financial intermediary, gross sales by the financial intermediary and/or the number of accounts serviced by the financial intermediary that invest in the Funds. To the extent that a Fund pays all or a portion of such compensation, the payment is designed to compensate the financial intermediary for providing services that would otherwise be provided by the Fund's transfer agent and/or administrator.

The Adviser or another affiliate of the Funds, out of its own resources, may provide additional compensation to financial intermediaries. Such compensation is sometimes referred to as "revenue sharing." Compensation received by a financial intermediary from the Adviser or another affiliate of the Funds may include payments for shareholder servicing, marketing and/or training expenses incurred by the financial intermediary, including expenses incurred by the financial intermediary in educating its salespersons with respect to Shares. For example, such compensation may include reimbursements for expenses incurred in attending educational seminars regarding the Funds, including travel and lodging expenses. It may also cover costs incurred by financial intermediaries in connection with their efforts to sell Shares, including costs incurred in compensating registered sales representatives and preparing, printing and distributing sales literature.

Any compensation received by a financial intermediary, whether from the Funds or their affiliates, and the prospect of receiving such compensation, may provide the financial intermediary with an incentive to recommend Shares over other potential investments. Similarly, the compensation may cause financial intermediaries to elevate the prominence of the Funds within its organization by, for example, placing it on a list of preferred funds.

### **ACCOUNTING AND LEGAL SERVICE PROVIDERS**

#### **Independent Registered Public Accounting Firm**

BBD, LLP, 1835 Market Street, 3rd Floor, Philadelphia, Pennsylvania, 19103, serves as the independent auditor to the Funds.

#### **Legal Counsel**

Stradley Ronon Stevens & Young LLP, located at 2005 Market Street, Suite 2600, Philadelphia, Pennsylvania, 19103, serves as legal counsel to the Funds.

### **ADDITIONAL INFORMATION CONCERNING SHARES**

#### **Organization and Description of Shares of Beneficial Interest**

The Trust is a Delaware statutory trust and registered open-end investment company. The Trust was organized on April 2, 2014 and has authorized capital of unlimited Shares of beneficial interest of no par value that may be issued in more than one class or series. The Trust consists of two series that are actively managed, including the Funds.

Under Delaware law, the Trust is not required to hold an annual shareholders meeting if the Investment Company Act does not require such a meeting. Generally, there will not be annual meetings of Trust shareholders, but if requested in writing by shareholders of at least 25% of the outstanding Shares of a Fund, the Trust will call a meeting of shareholders of the relevant Fund.

All Shares are freely transferable. Shares will not have preemptive rights or cumulative voting rights, and none of the Shares will have any preference to conversion, exchange, dividends, retirements, liquidation, redemption, or any other feature. Shares have equal voting rights except that in a matter affecting only a particular Fund, only Shares of that fund may be entitled to vote on the matter. The Trust Instrument confers upon the Board the power, by resolution, to alter the number of Shares constituting a Creation Unit or to specify that Shares may be individually redeemable. The Trust reserves the right to adjust the stock prices of Shares to maintain convenient trading ranges for investors. Any such adjustments would be accomplished through stock splits or reverse stock splits that would have no effect on the value of an investor's investment in the Funds.

The Trust Instrument of the Trust disclaims liability of the shareholders or the officers of the Trust for acts or obligations of the Trust that are binding only on the assets and property of the Trust. The Trust Instrument provides for indemnification out of a Fund's property for all loss and expense of the Fund's shareholders being held personally liable solely by reason of his or her being or having been a shareholder and not because of his or her acts or omissions or for some other reason. The risk of a Trust shareholder incurring financial loss on account of shareholder liability is limited to circumstances in which a Fund itself would not be able to meet the Trust's obligations and this risk should be considered remote.

If a Fund does not grow to a size to permit it to be economically viable, the Fund may cease operations. In such an event, shareholders may be required to liquidate or transfer their Shares at an inopportune time and shareholders may lose money on their investment.

#### **Book Entry Only System**

The following information supplements and should be read in conjunction with the section in the Prospectus entitled "Book Entry."

DTC acts as Securities Depository for Shares. Shares are represented by securities registered in the name of DTC or its nominee and deposited with, or on behalf of, DTC.

DTC, a limited purpose trust company, was created to hold securities of its participants (the "DTC Participants") and to facilitate the clearance and settlement of securities transactions among the DTC Participants in such securities through electronic book entry changes in accounts of the DTC Participants, thereby eliminating the need for physical movement of securities certificates. DTC Participants include securities brokers and dealers, banks, trust companies, clearing corporations and certain other organizations, some of whom (and/or their representatives) own DTC. More specifically, DTC is owned by a number of its DTC Participants and by NYSE and FINRA. Access to the DTC system is also available to others such as banks, brokers, dealers and trust companies that clear through or maintain a custodial relationship with a DTC Participant, either directly or indirectly (the "Indirect Participants").

Beneficial ownership of Shares is limited to DTC Participants, Indirect Participants and persons holding interests through DTC Participants and Indirect Participants. Ownership of beneficial interests in Shares (owners of such beneficial interests are referred to herein as "Beneficial Owners") is shown on, and the transfer of ownership is effected only through, records maintained by DTC (with respect to DTC Participants) and on the records of DTC Participants (with respect to Indirect Participants and Beneficial Owners that are not DTC Participants). Beneficial Owners will receive from or through the DTC Participant a written confirmation relating to their purchase and sale of Shares.

Conveyance of all notices, statements and other communications to Beneficial Owners is effected as follows. Pursuant to the Depository Agreement between the Trust and DTC, DTC is required to make available to the Trust upon request and for a fee to be charged to the Trust a listing of the Shares held by each DTC Participant. The Trust shall inquire of each such DTC Participant as to the number of Beneficial Owners holding Shares, directly or indirectly, through such DTC Participant. The Trust shall provide each such DTC Participant with copies of such notice, statement or other communication, in such form, number and at such place as such DTC Participant may reasonably request, in order that such notice, statement or communication may be transmitted by such DTC Participant, directly or indirectly, to such Beneficial Owners. In addition, the Trust shall pay to each such DTC Participant a fair and reasonable amount as reimbursement for the expenses attendant to such transmittal, all subject to applicable statutory and regulatory requirements.

Fund distributions shall be made to DTC or its nominee, Cede & Co., as the registered holder of all Shares. DTC or its nominee, upon receipt of any such distributions, shall immediately credit DTC Participants' accounts with payments in amounts proportionate to their respective beneficial interests in Shares as shown on the records of DTC or its nominee. Payments by DTC Participants to Indirect Participants and Beneficial Owners of Shares held through such DTC Participants will be governed by standing instructions and customary practices, and will be the responsibility of such DTC Participants.

The Trust has no responsibility or liability for any aspect of the records relating to or notices to Beneficial Owners, or payments made on account of beneficial ownership interests in such Shares, or for maintaining, supervising or reviewing any records relating to such beneficial ownership interests, or for any other aspect of the relationship between DTC and the DTC Participants or the relationship between such DTC Participants and the Indirect Participants and Beneficial Owners owning through such DTC Participants.

DTC may decide to discontinue providing its service with respect to Shares at any time by giving reasonable notice to the Trust and discharging its responsibilities with respect thereto under applicable law. Under such circumstances, the Trust shall take action to find a replacement for DTC to perform its functions at a comparable cost.

### **TRANSACTIONS IN CREATION UNITS**

The Funds sell and redeem Shares in Creation Units on a continuous basis through the Distributor, without a sales load, at the NAV next determined after receipt of an order in proper form on any Business Day. The Funds will not issue fractional Creation Units. Shares will only be issued against full payment, as further described in the Prospectus and this SAI.

A Creation Unit is an aggregation of 25,000 Shares. The Board may declare a split or a consolidation in the number of Shares outstanding of the Funds or Trust, and make a corresponding change in the number of Shares in a Creation Unit.

To purchase or redeem any Creation Units from the Funds, you must be, or transact through, an Authorized Participant. In order to be an Authorized Participant, you must be either a broker-dealer or other participant ("Participating Party") in the Continuous Net Settlement System ("Clearing Process") of the National Securities Clearing Corporation ("NSCC") or a participant in DTC with access to the DTC system ("DTC Participant"), and you must execute an agreement ("Participant Agreement") with the Distributor that governs transactions in a Fund's Creation Units.

Transactions by an Authorized Participant that is a Participating Party using the NSCC system are referred to as transactions "through the Clearing Process." Transactions by an Authorized Participant that is a DTC Participant using the DTC system are referred to as transactions "outside the Clearing Process."

Investors who are not Authorized Participants but want to transact in Creation Units may contact the Distributor for the names of Authorized Participants. An Authorized Participant may require investors to enter into a separate agreement to transact through it for Creation Units and may require orders for purchases of shares placed with it to be in a particular form. Investors should be aware that their broker may not be an Authorized Participant and, therefore, may need to place any order to purchase or redeem Creation Units through another broker or person that is an Authorized Participant, which may result in additional charges. There are expected to be a limited number of Authorized Participants at any one time.

Orders must be transmitted by an Authorized Participant by telephone or other transmission method acceptable to the Distributor pursuant to procedures set forth in the Participant Agreement. Market disruptions and telephone or other communication failures may impede the transmission of orders.

#### **Purchasing Creation Units**

**Fund Deposit.** The consideration for a Creation Unit of a Fund is the Fund Deposit. The Fund Deposit will consist of the In-Kind Creation Basket and Cash Component, or an all cash payment ("Cash Value"), as determined by the Adviser to be in the best interest of the Funds. Because any short positions in a Fund's portfolio cannot be transferred in-kind, they will be represented by cash in the Cash Component and not in the In-Kind Creation Basket.

The Cash Component will typically include a “Balancing Amount” reflecting the difference, if any, between the NAV of a Creation Unit and the market value of the securities in the In-Kind Creation Basket. If the NAV per Creation Unit exceeds the market value of the securities in the In-Kind Creation Basket, the purchaser pays the Balancing Amount to a Fund. By contrast, if the NAV per Creation Unit is less than the market value of the securities in the In-Kind Creation Basket, a Fund pays the Balancing Amount to the purchaser. The Balancing Amount ensures that the consideration paid by an investor for a Creation Unit is exactly equal to the value of the Creation Unit.

The Transfer Agent, in a portfolio composition file sent via the NSCC, generally makes available on each Business Day, prior to the opening of business on the Exchange (currently 9:30 a.m., Eastern time), a list of the names and the required number of shares of each security in the In-Kind Creation Basket to be included in the current Fund Deposit for a Fund (based on information about the Fund’s portfolio at the end of the previous Business Day) (subject to amendment or correction). If applicable, the Transfer Agent, through the NSCC, also makes available on each Business Day, the estimated Cash Component or Cash Value, effective through and including the previous Business Day, per Creation Unit.

The announced Fund Deposit is applicable, subject to any adjustments as described below, for purchases of Creation Units of a Fund until such time as the next-announced Fund Deposit is made available. From day to day, the composition of the In-Kind Creation Basket may change as, among other things, corporate actions, investment rebalancing and investment decisions by the Adviser are implemented for a Fund’s portfolio. All questions as to the composition of the In-Kind Creation Basket and the validity, form, eligibility, and acceptance for deposit of any securities shall be determined by a Fund, and the Fund’s determination shall be final and binding. The Funds reserve the right to accept a nonconforming (*i.e.*, custom) Fund Deposit as described below.

Payment of any stamp duty or the like shall be the sole responsibility of the Authorized Participant purchasing a Creation Unit. The Authorized Participant must ensure that all Deposit Securities properly denote change in beneficial ownership.

*Cash in lieu.* The Funds may permit or require the substitution of an amount of cash (“cash in lieu”) to be added to the Cash Component to replace any security in the In-Kind Creation Basket:

- (a) in the case of bonds, for minor differences when it is impossible to break up bonds beyond certain minimum sizes needed for transfer and settlement;
- (b) for minor differences when rounding is necessary to eliminate fractional shares or lots that are not tradeable round lots;
- (c) TBA Transactions, short position and other positions that cannot be transferred in kind will be excluded from the Fund Deposit instruments;
- (d) to the extent a Fund determines, on a given Business Day, to use a representative sampling of the Fund’s portfolio; or

In addition, purchases of Creation Units may be made in whole or in part on a cash basis, rather than in kind, under the following circumstances:

- (a) to the extent there is a Balancing Amount;
- (b) if, on a given Business Day, a Fund announces before the open of trading that all purchases or all purchases and redemptions on that day will be made entirely in cash;
- (c) if, upon receiving a purchase order from an Authorized Participant, a Fund determines to require the purchase to be made entirely in cash;
- (d) if, on a given Business Day, a Fund requires all Authorized Participants purchasing Shares on that day to deposit cash in lieu of some or all of the Fund Deposit instruments solely because:
  - i. such instruments are not eligible for transfer either through the NSCC or DTC; or
  - ii. in the case of a Fund’s foreign holdings, such instruments are not eligible for trading due to local trading restrictions, local restrictions on securities transfers or other similar circumstances; or

- (e) if a Fund permits a “custom” order, which is an order in which an Authorized Participant is permitted to deposit cash in lieu of some or all of the Fund Deposit instruments because (i) such instruments are not available in sufficient quantity; or (ii) such instruments are not eligible for trading by an Authorized Participant or the investor on whose behalf the Authorized Participant is acting.

The Funds will comply with the federal securities laws in accepting securities in the In-Kind Creation Basket, including the securities in the In-Kind Creation Basket that are sold in transactions that would be exempt from registration under the 1933 Act. All orders involving cash in lieu are considered to be “custom orders.”

**Order Cut-Off Time.** For an order involving a Creation Unit to be effectuated at a Fund’s NAV on a particular day, it must be received by the Distributor by or before the deadline for such order (“Order Cut-Off Time”). The Order Cut-Off Time for creation and redemption orders for the Funds is generally expected to be 4:00 p.m. Eastern time for In-Kind Creation and Redemption Baskets, and 3:00 p.m. Eastern time for Cash Value transactions. Accordingly, In-Kind Creation and Redemption Baskets are expected to be accepted until the close of regular trading on the Exchange on each Business Day, which is usually 4:00 p.m. Eastern time. On days when the Exchange or bond markets close earlier than normal (such as the day before a holiday), the Order Cut-Off Time is expected to track the Exchange closing and be similarly earlier than normal.

All orders to purchase Shares directly from the All Cap International ETF on the next Business Day must be submitted as a “Future Dated Trade” for one or more Creation Units between 4:30 p.m. Eastern time and 5:30 p.m. Eastern time on the prior Business Day and in the manner set forth in the Participant Agreement and/or applicable order form. For the All Cap International ETF, the Business Day following the day on which such an order is submitted to purchase Creation Units (or an order to redeem Creation Units) is referred to as the “Order Placement Date.”

Custom orders typically clear outside the Clearing Process and, therefore, like other orders outside the Clearing Process, may need to be transmitted early on the relevant Business Day to be effectuated at that day’s NAV. A custom order may be placed when, for example, an Authorized Participant cannot transact in a security in the In-Kind Creation or Redemption Basket and additional cash is included in a Fund Deposit or Fund Redemption in lieu of such security. Custom orders may be required to be received by the Distributor by 3:00 p.m. Eastern time to be effectuated based on a Fund’s NAV on that Business Day.

In all cases, cash and securities should be transferred to a Fund by the “Settlement Date,” which is generally the Business Day immediately following the Transmittal Date for cash and the second Business Day following the Transmittal Date for securities. Persons placing custom orders or orders involving Cash Value should be aware of time deadlines imposed by intermediaries, such as DTC and/or the Federal Reserve Bank wire system, which may delay the delivery of cash and securities by the Settlement Date.

**Placement of Creation Orders.** All purchase orders must be placed by or through an Authorized Participant. To order a Creation Unit, an Authorized Participant must submit an irrevocable purchase order to the Distributor through the Transfer Agent. In-kind (portions of) purchase orders will be processed through the Clearing Process when it is available. The Clearing Process is an enhanced clearing process that is available only for certain securities and only to DTC Participants that are also participants in the Clearing Process of the NSCC. In-kind (portions of) purchase orders not subject to the Clearing Process will go through a manual clearing process run by DTC. Fund Deposits that include government securities must be delivered through the Federal Reserve Bank wire transfer system (“Federal Reserve System”). Fund Deposits that include cash may be delivered through the Clearing Process or the Federal Reserve System.

**Orders Using Clearing Process.** In connection with creation orders made through the Clearing Process, the Transfer Agent transmits, on behalf of the Authorized Participant, such trade instructions as are necessary to effect the creation order. Pursuant to such trade instructions, the Authorized Participant agrees to deliver the requisite Fund Deposit to the Trust, together with such additional information as may be required by the Distributor. An order to create Creation Units through the Clearing Process is deemed received by the Distributor on the Business Day the order is placed (“Transmittal Date”) if (i) such order is received by the Distributor by the Closing Time on such Transmittal Date and (ii) all other procedures set forth in the Participant Agreement are properly followed. Cash Components will be delivered using either the Clearing Process or the Federal Reserve System.



**Orders Outside Clearing Process.** Fund Deposits made outside the Clearing Process must state that the DTC Participant is not using the Clearing Process and that the creation of Creation Units will instead be effected through a transfer of securities and cash directly through DTC. With respect to such orders, the Fund Deposit transfer must be ordered by the DTC Participant on the Transmittal Date in a timely fashion so as to ensure the delivery of the requisite number of securities in the In-Kind Creation Basket (whether standard or custom) through DTC to the relevant Trust account by 11:00 a.m., Eastern time, (the “DTC Cut-Off Time”) on the Business Day immediately following the Transmittal Date. The Cash Component must be transferred directly to the Custodian through the Federal Reserve Bank wire transfer system in a timely manner so as to be received by the Custodian no later than 12:00 p.m., Eastern time, on the Business Day immediately following the Transmittal Date. The delivery of corporate securities through DTC must occur by 3:00 p.m., Eastern time, on the Business Day immediately following the Transmittal Date. The delivery of government securities through the Federal Reserve System must occur by 3:00 p.m., Eastern time, on the Business Day immediately following the Transmittal Date.

An order to create Creation Units outside the Clearing Process is deemed received by the Distributor on the Transmittal Date if (i) such order is received by the Distributor by the Closing Time on such Transmittal Date and (ii) all other procedures set forth in the Participant Agreement are properly followed. If the Custodian does not receive both the required In-Kind Creation Basket by the DTC Cut-Off Time and the Cash Component by the appointed time, such order may be canceled. Upon written notice to the Distributor through the Transfer Agent, a canceled order may be resubmitted the following Business Day using a Fund Deposit as newly constituted to reflect the then-current In-Kind Creation Basket and Cash Component. Except as provided in Appendix C, the delivery of Creation Units so created will occur no later than the second Business Day following the day on which the order is deemed received by the Distributor. Authorized Participants that submit a canceled order will be liable to the Funds for any losses resulting therefrom.

Orders involving foreign securities are expected to be settled outside the Clearing Process. Thus, upon receipt of an irrevocable purchase order, the Transfer Agent will notify the Distributor, Adviser, and the Custodian of such order. The Custodian, who will have caused the appropriate local sub-custodian(s) of a Fund to maintain an account into which an Authorized Participant may deliver the Fund Deposit (or cash in lieu), with adjustments determined by the Fund, will then provide information of the order to such local sub-custodian(s). The Authorized Participant must also make available on or before the Settlement, by means satisfactory to the Funds, immediately available or same day funds in U.S. dollars estimated by the Funds to be sufficient to pay the Cash Component and Transaction Fee.

While, as stated above, Creation Units are generally delivered no later than the second Business Day following the day on which the order is deemed received by the Distributor, as discussed in Appendix C, the All Cap International ETF holding foreign securities may settle Creation Unit transactions on a basis other than the one described above in order to accommodate foreign market holiday schedules, to account for different treatment among foreign and U.S. markets of dividend record dates and ex-dividend dates (that is the last day the holder of a security can sell the security and still receive dividends payable on the security), and in certain other circumstances.

**Acceptance of Orders for Creation Units.** The Trust reserves the absolute right to reject a creation order transmitted to it by the Transfer Agent in respect of the Funds, including if: (i) the order is not in proper form; (ii) the investor(s), upon obtaining the Shares, would own 80% or more of the currently outstanding Shares; (iii) the securities delivered do not conform to the In-Kind Creation Basket for the relevant date; (iv) acceptance of the Fund Deposit would have adverse tax consequences to a Fund; (v) acceptance of the Fund Deposit would, in the opinion of the Trust, be unlawful; (vi) acceptance of the Fund Deposit would otherwise, in the discretion of the Trust or the Adviser, have an adverse effect on the Trust, the Fund or the rights of beneficial owners; or (vii) in the event that circumstances that are outside the control of the Trust make it practically impossible to process creation orders. Examples of such circumstances include acts of God; public service or utility problems resulting in telephone, telecopy and computer failures; fires, floods or extreme weather conditions; market conditions or activities causing trading halts; systems failures involving computer or other information systems affecting the Trust, the Adviser, the Distributor, DTC, NSCC, the Custodian or sub-custodian or any other participant in the creation process; and similar extraordinary events. The Distributor shall notify an Authorized Participant of its rejection of the order. The Funds, the Custodian, any sub-custodian and the Distributor are under no duty, however, to give notification of any defects or irregularities in the delivery of Fund Deposits, and they shall not incur any liability for the failure to give any such notification.

**Issuance of a Creation Unit.** Once a Fund has accepted a creation order, upon next determination of the Fund’s NAV, the Fund will confirm the issuance of a Creation Unit, against receipt of payment, at such NAV. The Transfer Agent will transmit a confirmation of acceptance to the Authorized Participant that placed the order.

Except as provided below, a Creation Unit will not be issued until a Fund obtains good title to the In-Kind Creation Basket and the Cash Component. Except as provided in Appendix C, the delivery of Creation Units will generally occur no later than the second Business Day following the Transmittal Date for securities.

In certain cases, Authorized Participants will create and redeem Creation Units on the same trade date. In these instances, the Trust reserves the right to settle these transactions on a net basis.

With respect to orders involving foreign securities, when the applicable local sub-custodian(s) has confirmed to the Custodian that the In-Kind Creation Basket (or cash in lieu) has been delivered to a Fund’s account at the applicable sub-custodian(s), the Distributor and the Adviser shall be notified of such delivery, and the Fund will issue and cause the delivery of the Creation Unit.

Creation Units may be created in advance of receipt by the Trust of all or a portion of the applicable In-Kind Creation Basket, provided the purchaser tenders an initial deposit consisting of any available securities in the In-Kind Creation Basket and cash equal to the sum of the Cash Component and at least 105% of the market value, as adjusted from time to time by the Adviser, of the In-Kind Creation Basket securities not delivered (“Additional Cash Deposit”). Such initial deposit will have a value greater than the NAV of the Creation Unit on the date the order is placed. The order shall be deemed to be received on the Transmittal Date provided that it is placed in proper form prior to 4:00 p.m., Eastern time, on such date, and federal funds in the appropriate amount are deposited with the Custodian by the DTC Cut-Off Time the following Business Day. If the order is not placed in proper form by 4:00 p.m., Eastern time, or federal funds in the appropriate amount are not received by the DTC Cut-Off Time the next Business Day, then the order will be canceled or deemed unreceived and the Authorized Participant effectuating such transaction will be liable to the Funds for any losses resulting therefrom.

To the extent securities in the In-Kind Creation Basket remain undelivered, pending delivery of such securities additional cash will be required to be deposited with the Trust as necessary to maintain an Additional Cash Deposit equal to at least 105% (as adjusted by the Adviser) of the daily marked-to-market value of the missing securities. To the extent that either such securities are still not received by 1:00 p.m., Eastern time, on the second Business Day following the day on which the purchase order is deemed received by the Distributor or a marked-to-market payment is not made within one Business Day following notification to the purchaser and/or Authorized Participant that such a payment is required, the Trust may use the cash on deposit to purchase the missing securities, and the Authorized Participant effectuating such transaction will be liable to the Funds for any costs incurred therein or losses resulting therefrom, including any Transaction Fee, any amount by which the actual purchase price of the missing securities exceeds the Additional Cash Deposit or the market value of such securities on the day the purchase order was deemed received by the Distributor, as well as brokerage and related transaction costs. The Trust will return any unused portion of the Additional Cash Deposit once all of the missing securities have been received by the Trust. The delivery of Creation Units so created will generally occur no later than the second Business Day following the day on which the purchase order is deemed received by the Distributor.

**Cash Purchase Method.** When cash purchases of Creation Units are available or specified for the Funds, they will be effected in essentially the same manner as in-kind purchases. In the case of a cash purchase, the investor must pay the cash equivalent of the Fund Deposit. In addition, cash purchases may be subject to Transaction Fees.

**Transaction Fees**

To compensate for costs incurred in connection with creation and redemption transactions, Authorized Participants will be required to pay to the Funds’ Custodian a Standard Transaction Fee of:

<b>Name of Fund</b>	<b>Fixed Creation Transaction Fee</b>
TrimTabs All Cap International Free-Cash-Flow ETF	\$1,500
TrimTabs All Cap U.S. Free-Cash-Flow ETF	\$500

The Standard Transaction Fee applies to in-kind purchases and redemptions of a Fund effected through the Clearing Process on any Business Day, regardless of the number of Creation Units purchased or redeemed that day (assuming, in the case of multiple orders on the same day, that the orders are received at or near the same time). The Standard Transaction Fee may be waived on certain orders if the Funds' Custodian has determined to waive some or all of the costs associated with the order or another party, such as the Adviser, has agreed to pay such fee. A Variable Transaction Fee of up to 2% of the total value of the Creation Unit may apply for, among other things: (i) creation and redemption transactions that occur outside the Clearing Process, and (ii) transactions effectuated wholly or partly in cash.

The Adviser, subject to the approval of the Board, may adjust the Transaction Fee from time to time. The Standard Transaction Fee is based, in part, on the number of holdings in a Fund's portfolio and the countries in which they are listed and may be adjusted if such factors significantly change. Investors will also be responsible for the costs associated with transferring the securities in the In-Kind Creation (and Redemption) Baskets to (and from) the account of the Trust. Further, investors who, directly or indirectly, use the services of a broker or other intermediary to compose a Creation Unit in addition to an Authorized Participant to effect a transaction in Creation Units may be charged an additional fee for such services.

### **Redeeming Creation Units**

**Fund Redemptions.** Shares may be redeemed only in Creation Units at their NAV next determined after receipt of a redemption request in proper form by the Funds and the Distributor through the Transfer Agent and only on a Business Day. The redemption proceeds for a Creation Unit will consist of the In-Kind Redemption Basket and a Creation Redemption Amount, or Cash Value, in all instances equal to the value of a Creation Unit. Because short positions cannot be transferred in kind, however, any short positions in a Fund's portfolio will be represented by cash in the Cash Redemption Amount and not in the In-Kind Redemption Basket.

There can be no assurance that there will be sufficient liquidity in Shares in the secondary market to permit assembly of a Creation Unit. In addition, investors may incur brokerage and other costs in connection with assembling a Creation Unit.

The Cash Redemption Amount may include a Balancing Amount, reflecting the difference, if any, between the NAV of a Creation Unit and the market value of the securities in the In-Kind Redemption Basket. If the NAV per Creation Unit exceeds the market value of the securities in the In-Kind Redemption Basket, a Fund pays the Balancing Amount to the redeeming investor. By contrast, if the NAV per Creation Unit is less than the market value of the securities in the In-Kind Redemption Basket, the redeeming investor pays the Balancing Amount to a Fund.

The composition of the In-Kind Creation Basket will normally be the same as the composition of the In-Kind Redemption Basket. Otherwise, the In-Kind Redemption Basket will be made available by the Adviser or Transfer Agent. The Funds reserve the right to accept a nonconforming (*i.e.*, custom) Fund Redemption as described below.

Redemptions for a Cash Value may be subject to a variable charge, as explained above. If applicable, information about the Cash Value will be made available by the Adviser or Transfer Agent.

From day to day, the composition of the In-Kind Redemption Basket may change as, among other things, corporate actions are implemented for a Fund's portfolio. All questions as to the composition of the In-Kind Redemption Basket and the validity, form, eligibility, and acceptance for deposit of any securities shall be determined by the Funds, and the Funds' determinations shall be final and binding.

The right of redemption may be suspended or the date of payment postponed: (i) for any period during which the NYSE is closed (other than customary weekend and holiday closings); (ii) for any period during which trading on the NYSE is suspended or restricted; (iii) for any period during which an emergency exists as a result of which disposal of the Shares or determination of a Fund's NAV is not reasonably practicable; or (iv) in such other circumstances as permitted by the SEC, including as described below.

*Cash in lieu.* The Funds may permit or require cash in lieu to be added to the Cash Redemption Amount to replace any security in the In-Kind Redemption Basket:

- (a) in the case of bonds, for minor differences when it is impossible to break up bonds beyond certain minimum sizes needed for transfer and settlement;
- (b) for minor differences when rounding is necessary to eliminate fractional shares or lots that are not tradeable round lots;
- (c) TBA Transactions, short position and other positions that cannot be transferred in kind will be excluded from the Fund Redemption instruments;
- (d) to the extent a Fund determines, on a given Business Day, to use a representative sampling of the Fund's portfolio; or

In addition, redemptions of Creation Units may be made in whole or in part on a cash basis, rather than in kind, under the following circumstances:

- (a) to the extent there is a Balancing Amount;
- (b) if, on a given Business Day, a Fund announces before the open of trading that all redemptions or all purchases and redemptions on that day will be made entirely in cash;
- (c) if, upon receiving a redemption order from an Authorized Participant, a Fund determines to require the redemption to be made entirely in cash;
- (d) if, on a given Business Day, a Fund requires all Authorized Participants redeeming Shares on that day to receive cash in lieu of some or all of the Fund Redemption instruments solely because:
  - i. such instruments are not eligible for transfer either through the NSCC or DTC; or
  - ii. in the case of a Fund's foreign holdings, such instruments are not eligible for trading due to local trading restrictions, local restrictions on securities transfers or other similar circumstances; or
- (e) if a Fund permits a "custom" order, which is an order in which an Authorized Participant is permitted to receive cash in lieu of some or all of the Fund Redemption instruments because:
  - i. such instruments are not eligible for trading by the Authorized Participant or the investor on whose behalf the Authorized Participant is acting; or
  - ii. a holder of Shares would be subject to unfavorable federal income tax treatment if it received redemption proceeds of a Fund's foreign holdings in kind.

The Funds will comply with the federal securities laws in satisfying redemptions with the applicable In-Kind Redemption Basket, including the securities in the In-Kind Redemption Basket that are sold in transactions that would be exempt from registration under the 1933 Act.

**Placement of Redemption Orders.** Redemptions must be placed to the Distributor through the Transfer Agent. In addition, redemption orders must be processed either through the DTC process or the Clearing Process. To redeem a Creation Unit, an Authorized Participant must submit an irrevocable redemption order to the Distributor through the Transfer Agent.

An Authorized Participant submitting a redemption order is deemed to represent to the Funds that it or, if applicable, the investor on whose behalf it is acting, (i) owns outright or has full legal authority and legal beneficial right to tender for redemption the Creation Unit to be redeemed and can receive the entire proceeds of the redemption, and (ii) all of the Shares in the Creation Unit to be redeemed have not been borrowed, loaned or pledged to another party nor are they the subject of a repurchase agreement, securities lending agreement or such other arrangement which would preclude the delivery of such Shares to a Fund. The Funds reserve the absolute right, in their sole discretion, to verify these representations, but will typically require verification in connection with higher levels of redemption activity and/or short interest in the Funds. If the Authorized Participant, upon receipt of a verification report, does not provide sufficient verification of the requested representations, the redemption order will not be considered to be in proper form and may be rejected by a Fund.

In certain cases, Authorized Participants will create and redeem Creation Units on the same trade date. In these instances, the Trust reserves the right to settle these transactions on a net basis.

**Placement of Redemption Orders Using Clearing Process.** Orders to redeem Creation Units through the Clearing Process are deemed received by the Trust on the Transmittal Date if (i) such order is received by the Distributor not later than the Order Cut-Off Time on such Transmittal Date, and (ii) all other procedures set forth in the Participant Agreement are properly followed. Orders deemed received will be effectuated based on the NAV of a Fund as next determined. An order to redeem Creation Units using the Clearing Process made in proper form but received by the Trust after the Order Cut-Off Time will be deemed received on the next Business Day and will be effected at the NAV next determined on such next Business Day. In connection with such orders, the Transfer Agent transmits on behalf of the Authorized Participant such trade instructions as are necessary to effect the redemption. Pursuant to such trade instructions, the Authorized Participant agrees to deliver the requisite Creation Unit(s) to a Fund, together with such additional information as may be required by the Distributor. Cash Redemption Amounts will be delivered using either the Clearing Process or the Federal Reserve System. The applicable In-Kind Redemption Basket and the Cash Redemption Amount will be transferred to the investor by the second NSCC business day following the date on which such request for redemption is deemed received.

**Placement of Redemption Orders Outside Clearing Process.** Orders to redeem Creation Units outside the Clearing Process must state that the DTC Participant is not using the Clearing Process and that redemption of Creation Units will instead be effected through transfer of Shares directly through DTC. Such orders are deemed received by the Trust on the Transmittal Date if: (i) such order is received by the Distributor not later than the Order Cut-Off Time on the Transmittal Date; (ii) such order is accompanied or followed by the delivery of both (a) the Creation Unit(s), which delivery must be made through DTC to the Custodian no later than the DTC Cut-Off Time on the Business Day immediately following the Transmittal Date and (b) the Cash Redemption Amount by 12:00 p.m., Eastern time, on the Business Day immediately following the Transmittal Date; and (iii) all other procedures set forth in the Participant Agreement are properly followed. After the Trust has deemed such an order received, the Trust will initiate procedures to transfer, and expect to deliver, the requisite In-Kind Redemption Basket and/or any Cash Redemption Amount owed to the redeeming party by the second Business Day following the Transmittal Date on which such redemption order is deemed received by the Trust.

Orders involving foreign securities are expected to be settled outside the Clearing Process. Thus, upon receipt of an irrevocable redemption order, the Transfer Agent will notify the Distributor, Adviser and the Custodian. The Custodian will then provide information of the redemption to the Funds' local sub-custodian(s). The redeeming Authorized Participant, or the investor on whose behalf it is acting, will have established appropriate arrangements with a broker-dealer, bank or other custody provider in each jurisdiction in which the securities are customarily traded and to which such securities (and any cash) can be delivered from a Fund's accounts at the applicable local sub-custodian(s).

The calculation of the value of the In-Kind Redemption Basket and the Balancing Amount to be delivered/received upon redemption will be made by the Custodian computed on the Business Day on which a redemption order is deemed received by the Trust. Therefore, if a redemption order in proper form is submitted to the Distributor through the Transfer Agent by a DTC Participant or an Authorized Participant with the ability to transact through the Federal Reserve System, as applicable, not later than Closing Time on the Transmittal Date, and the requisite number of Shares of the relevant Fund are delivered to the Custodian prior to the DTC Cut-Off-Time, then the value of the In-Kind Redemption Basket and the Cash Redemption Amount to be delivered/received will be determined by the Custodian on such Transmittal Date. If, however, either: (i) the requisite number of Shares of the relevant Fund are not delivered by the DTC Cut-Off-Time, as described above, or (ii) the redemption order is not submitted in proper form, then the redemption order will not be deemed received as of the Transmittal Date. In such case, the In-Kind Redemption Basket and the Balancing Amount will normally be that of the Business Day (*i.e.*, the new Transmittal Date) provided that the Shares of the relevant Fund are delivered through DTC to the Custodian by 11:00 a.m., Eastern time, that Business Day pursuant to a properly submitted redemption order.

The Authorized Participant may request the redeeming beneficial owner of the Shares to complete an order form or to enter into agreements with respect to such matters as compensating cash payment, beneficial ownership of shares or delivery instructions.

**Delivery of Redemption Basket.** Once a Fund has accepted a redemption order, upon next determination of the Fund's NAV, the Fund will confirm the issuance of an In-Kind Redemption Basket, against receipt of the Creation Unit(s) at such NAV and the Cash Redemption Amount. A Creation Unit tendered for redemption and the payment of the Cash Redemption Amount and any cash in lieu will be effected through DTC. The Authorized Participant, or the investor on whose behalf it is acting, will be recorded on the book-entry system of DTC.

In certain cases, Authorized Participants will create and redeem Creation Units on the same trade date. In these instances, the Trust reserves the right to settle these transactions on a net basis.

**Cash Redemption Method.** When cash redemptions of Creation Units are available or specified for a Fund, they will be effected in essentially the same manner as in-kind redemptions. In the case of a cash redemption, the investor will receive the Cash Value of the In-Kind Redemption Basket minus any Transaction Fees.

#### **Settlement of Foreign Securities and Regular Foreign Holidays**

The All Cap International Fund generally intends to effect deliveries of Creation Units and portfolio securities on a basis of the Transmittal Date ("T") plus two Business Days (*i.e.*, days on which the national securities exchange is open) ("T+2"). The Fund may effect deliveries of Creation Units and portfolio securities on a basis other than T+2 in order to accommodate local holiday schedules, to account for different treatment among foreign and U.S. markets of dividend record dates and ex-dividend dates or under certain other circumstances. Given that foreign securities settle in accordance with the normal rules of settlement of such securities in the applicable foreign market, coupled with foreign market holiday schedules, the Settlement Date may be up to 14 calendar days after the Transmittal Date in certain circumstances.

The ability of the Trust to effect in-kind creations and redemptions within three Business Days of receipt of an order in good form is subject, among other things, to the condition that, within the time period from the date of the order to the date of delivery of the securities, there are no days that are holidays in the applicable foreign market. In such cases, the local market settlement procedures will not commence until the end of the local holiday periods. For every occurrence of one or more intervening holidays in the applicable foreign market that are not holidays observed in the U.S. equity market, the redemption settlement cycle will be extended by the number of such intervening holidays. In addition to holidays, other unforeseeable closings in a foreign market due to emergencies may also prevent the Trust from delivering securities within normal settlement periods. The proclamation of new holidays, the treatment by market participants of certain days as "informal holidays" (*e.g.*, days on which no or limited securities transactions occur, as a result of substantially shortened trading hours), the elimination of existing holidays or changes in local securities delivery practices could affect the information set forth herein at some time in the future.

Because the Fund's portfolio securities may trade on days that the Fund's Exchange is closed or on days that are not Business Days for the Fund, Authorized Participants may not be able to redeem their Shares, or to purchase and sell Shares on the Exchange, on days when the NAV of the Fund could be significantly affected by events in the relevant non-U.S. markets.

A schedule of regular foreign holidays applicable to the Fund is included in Appendix C.

### **DETERMINATION OF NET ASSET VALUE**

The net asset value, or NAV, of Shares is calculated each business day as of the close of regular trading on the NYSE, generally 4:00 p.m. Eastern time. Each Fund's NAV per Share is computed by dividing the net assets by the number of Shares outstanding. For further information, see the "Net Asset Value" section of the Prospectus, which is incorporated by reference here.

### **TAXATION**

#### **General**

For federal income tax purposes, each Fund will be treated as a separate corporate entity and has elected to be, and intend to qualify each taxable year for treatment as, a "regulated investment company" under Subchapter M of Chapter 1 of Subtitle A of the Code ("RIC"). Such qualification generally relieves the Funds of liability for federal income tax to the extent their net earnings and net realized gains are distributed in accordance with applicable requirements. If, for any reason, a Fund does not qualify for a taxable year for the special federal tax treatment

afforded RICs, the Fund would be subject to federal tax on all of its taxable income at regular corporate rates, without any deduction for dividends paid to its shareholders. In such event, dividend distributions would be taxable as ordinary income to shareholders to the extent of a Fund's current and accumulated earnings and profits and would be eligible for taxation at reduced rates for non-corporate shareholders and for the dividends-received deduction available in some circumstances to corporate shareholders. Moreover, if a Fund were to fail to make sufficient distributions in a year, the Fund would be subject to corporate income taxes and/or excise taxes in respect of the shortfall or, if the shortfall is large enough and cannot be remedied, the Fund could be disqualified as a RIC.

As of July 31, 2018, the TrimTabs All Cap International Free-Cash-Flow ETF had accumulated short-term capital loss carryforwards in the amount of \$154,040 and the TrimTabs All Cap U.S. Free-Cash-Flow ETF had accumulated short-term capital loss carryforwards in the amount of \$636,182. These amounts do not expire.

A 4% non-deductible excise tax is imposed on a RIC that fails to distribute currently an amount equal to at least 98% of its ordinary taxable income and 98.2% of its capital gain net income (excess of capital gains over capital losses), if any. Each Fund intends to make sufficient distributions or deemed distributions of its ordinary taxable income and any capital gain net income prior to the end of each calendar year to avoid liability for this excise tax.

### **Taxation of a Fund's Shareholders**

The Trust, on behalf of a Fund, has the right to reject an order to purchase Shares if (1) the purchaser (or group of purchasers) would, upon obtaining the ordered Shares, own 80% or more of the outstanding Shares and (2) pursuant to section 351 of the Code, the Fund would have a basis in the In-Kind Creation Basket securities different from the market value of such securities on the date of deposit. The Trust also has the right to require information necessary to determine beneficial Share ownership for purposes of the 80% determination. Dividends declared in October, November or December of any year payable to shareholders of record on a date in such a month will be deemed to have been received by shareholders and paid by a Fund on December 31 of such year if such dividends are actually paid during January of the following year.

Distributions from a Fund's net investment income, the excess of net short-term capital gain in excess of net long-term capital loss, if any, and income from securities lending are taxable as ordinary income. Distributions of "qualified dividend income" (as described in the Prospectus) paid by a Fund to individual and certain other non-corporate taxpayers are taxed at rates applicable to net long-term capital gains. This tax treatment applies only if certain holding period requirements and other requirements are satisfied by the shareholder and the dividends are attributable to qualified dividend income received by a Fund itself. Distributions reinvested in additional Shares through a dividend reinvestment service will be taxable to shareholders acquiring such additional Shares to the same extent as if such distributions had been received in cash. Distributions of net long-term capital gain, if any, in excess of net short-term capital loss are taxable as long-term capital gains, regardless of how long shareholders have held the Shares.

If, for any taxable year, the total Fund distributions exceed its current and accumulated earnings and profits, the excess will, for federal income tax purposes, be treated as a tax-free return of capital to each shareholder up to the amount of the shareholder's basis in his or her Shares, and thereafter as gain from the sale of Shares. The amount treated as a tax-free return of capital will reduce the shareholder's adjusted basis in his or her Shares, thereby increasing his or her potential gain or reducing his or her potential loss on the subsequent sale of those Shares.

The sale, exchange or redemption of Shares may give rise to a capital gain or loss. In general, any gain or loss realized on a taxable disposition of Shares will be treated as long-term capital gain or loss if the Shares have been held for more than one year; otherwise, the gain or loss will be treated as short-term capital gain or loss. A loss realized on a sale, exchange or redemption of Shares may be disallowed if other Shares are acquired (whether through the automatic reinvestment of dividends or otherwise) within a 61 day period beginning thirty days before and ending thirty days after the date that the Shares are disposed of. In such a case, the basis in the Shares acquired must be adjusted to reflect the disallowed loss. Any loss upon the sale or exchange of Shares held for six months or less is treated as long-term capital loss to the extent of any capital gain dividends received by the shareholders. Distribution of ordinary income and capital gains may also be subject to state and local taxes. An individual investor also should be aware that the benefits of the reduced tax rate applicable to long-term capital gains may be impacted by the application of the federal alternative minimum tax.

Each Fund will report to shareholders annually the amounts of dividends paid from ordinary income, the amount of distributions paid from net capital gain and the portion of dividends, if any, that may qualify for the dividends-received deduction or as qualified dividend income.

Special tax rules apply to investments through defined contribution plans and other tax-qualified plans, such as 401(k) plans, and individual retirement accounts. Shareholders should consult their tax advisors to determine the suitability of Shares as an investment through such plans and accounts.

Investment income received by a Fund from sources within foreign countries and gains it realizes on the disposition of foreign securities may be subject to foreign income taxes withheld at the source. The United States has entered into tax treaties with many foreign countries that may entitle a Fund to a reduced rate of such taxes or exemption thereto on such income and gains. It is impossible to know the effective rate of foreign tax in advance, since the amount of a Fund's assets to be invested within various countries cannot be determined. If more than 50% of the value of a Fund's total assets at the close of its taxable year consists of securities of foreign corporations, the Fund will be eligible, and intends, to file an election with the IRS to pass through to its shareholders the amount of foreign taxes paid by the Fund. However, there can be no assurance that a Fund will be able to do so. Pursuant to this election, you would be required to (1) include in gross income (in addition to taxable dividends actually received) your *pro rata* share of foreign taxes paid by a Fund, (2) treat your *pro rata* share of those foreign taxes as having been paid by you and (3) either deduct that *pro rata* share in computing your taxable income or treat it as a credit against federal income tax. You may be subject to rules that limit or reduce your ability to fully deduct or claim a credit for your *pro rata* share of the foreign taxes paid by a Fund.

The Funds will be required in certain cases to impose "backup withholding" on taxable dividends and gross proceeds realized upon the sale of Shares paid to a shareholder who has failed to provide a correct tax identification number in the manner required, who is subject to withholding for failure properly to include on his or her federal income tax return payments of taxable interest or dividends, or who has failed to certify to the Funds when required to do so either that he or she is not subject to backup withholding or is an "exempt recipient." Backup withholding is not an additional tax, and any amounts withheld may be credited against a shareholder's federal income tax liability if proper documentation is provided.

Except as described below, dividends paid by a Fund to a nonresident alien individual, a foreign trust or estate, or a foreign partnership (each, a "Non-U.S. Shareholder") are generally subject to withholding tax at a 30% rate or a reduced rate specified by an applicable income tax treaty to the extent derived from investment income and net short-term capital gains. Two categories of dividends, however, "short-term capital gain dividends" and "interest-related dividends," a Fund pays to a Non-U.S. Shareholder (with certain exceptions) and reports in writing to its shareholders are exempt from that tax. "Short-term capital gain dividends" are dividends that are attributable to "qualified short-term gain" (*i.e.*, net short-term capital gain, computed with certain adjustments). "Interest-related dividends" are dividends that are attributable to "qualified net interest income" (*i.e.*, "qualified interest income," which generally consists of certain OID, interest on obligations "in registered form," and interest on deposits, less allocable deductions) from sources within the United States. In addition, capital gains a Non-U.S. Shareholder realizes on the sale of Shares and capital gain distributions to such a shareholder generally will not be subject to federal income tax unless the Non-U.S. Shareholder is a nonresident alien individual and is physically present in the United States for more than 182 days during the taxable year.

In order to obtain a reduced rate of withholding, a Non-U.S. Shareholder will be required to provide an IRS Form W-8BEN or W-8BEN-E to a Fund certifying its entitlement to benefits under a treaty. The withholding tax does not apply to regular dividends paid to a Non-U.S. Shareholder who provides a Form W-8ECI, certifying that the dividends are "effectively connected" with the Non-U.S. Shareholder's conduct of a trade or business within the United States. Instead, the effectively connected dividends are subject to regular federal income tax as if the Non-U.S. Shareholder were a U.S. shareholder. A non-U.S. corporation receiving effectively connected dividends may also be subject to additional "branch profits tax" imposed at a rate of 30% (or lower treaty rate). A Non-U.S. Shareholder who fails to provide an IRS Form W-8BEN or other applicable form may be subject to backup withholding.



**Foreign Account Tax Compliance Act (“FATCA”)** -- Under FATCA, “foreign financial institutions” (“FFIs”) and “non-financial foreign entities” (“NFFEs”) that are Fund shareholders may be subject to a generally nonrefundable 30% withholding tax on (1) income dividends a Fund pays and (2) certain capital gain distributions and the proceeds of redemptions of Shares it pays after December 31, 2018. As discussed more fully below, the FATCA withholding tax generally can be avoided (a) by an FFI, if it reports certain information regarding direct and indirect ownership of financial accounts U.S. persons hold with the FFI, and (b) by an NFFE that certifies its status as such and, in certain circumstances, reports information regarding substantial U.S. owners.

An FFI can avoid FATCA withholding by becoming a “participating FFI,” which requires the FFI to enter into a tax compliance agreement with the IRS under section 1471(b) of the Code. Under such an agreement, a participating FFI agrees to (1) verify and document whether it has U.S. accountholders, (2) report certain information regarding their accounts to the IRS, and (3) meet certain other specified requirements.

The U.S. Treasury Department has negotiated intergovernmental agreements (“IGAs”) with certain countries and is in various stages of negotiations with other foreign countries with respect to one or more alternative approaches to implement FATCA. An entity in one of those countries may be required to comply with the terms of the IGA instead of U.S. Treasury regulations. An FFI resident in a country that has entered into a Model I IGA with the United States must report to that country’s government (pursuant to the terms of the applicable IGA and applicable law), which will, in turn, report to the IRS. An FFI resident in a Model II IGA country generally must comply with U.S. regulatory requirements, with certain exceptions, including the treatment of recalcitrant accountholders. An FFI resident in one of those countries that complies with whichever of the foregoing applies will be exempt from FATCA withholding.

An NFFE that is the beneficial owner of a payment from a Fund can avoid FATCA withholding generally by certifying its status as such and, in certain circumstances, either that (1) it does not have any substantial U.S. owners or (2) it does have one or more such owners and reports the name, address, and taxpayer identification number of each such owner. The NFFE will report to the Fund or other applicable withholding agent, which may, in turn, report information to the IRS.

Those foreign shareholders also may fall into certain exempt, excepted, or deemed compliant categories established by U.S. Treasury regulations, IGAs, and other guidance regarding FATCA. An FFI or NFFE that invests in a Fund will need to provide the Fund with documentation properly certifying the entity’s status under FATCA to avoid FATCA withholding. The requirements imposed by FATCA are different from, and in addition to, the tax certification rules to avoid backup withholding described above. Foreign investors are urged to consult their tax advisers regarding the application of these requirements to their own situation and the impact thereof on their investment in the Funds.

### **Taxation of a Fund’s Investments and Activities**

The tax principles applicable to transactions in financial instruments that may be engaged in by a Fund and investments in PFICs, as discussed in more detail above, are complex and, in some cases, uncertain. Such transactions and investments may cause a Fund to recognize taxable income prior to the receipt of cash from them, thereby requiring the Fund to liquidate other positions or to borrow money so as to make sufficient distributions to shareholders to avoid corporate-level tax. Moreover, some or all of the taxable income recognized may be ordinary income or short-term capital gain, the distributions of which are taxable to its shareholders as ordinary income. In addition, in the case of shares of a PFIC in which a Fund invests, the Fund may be liable for corporate-level tax on any ultimate gain or distributions on the shares if the Fund fails to make an election to recognize income and gain annually during the period of its ownership of the PFIC shares.

Special rules govern the federal income tax treatment of certain transactions denominated in a currency other than the U.S. dollar or determined by reference to the value of one or more currencies other than the U.S. dollar. The types of transactions covered by the special rules include the following: (1) acquiring or becoming the obligor under, a bond or other debt instrument (including, to the extent provided in U.S. Treasury regulations, preferred stock); (2) accruing certain trade receivables and payables; and (3) entering into or acquiring any forward contract, option or futures interest on foreign currency or similar financial instrument if such instrument is not marked to market. The disposition of a currency other than the U.S. dollar by a Fund is also treated as a transaction subject to the special currency rules. With respect to transactions covered by the special rules, foreign currency gain or loss is calculated

separately from any gain or loss on the underlying transaction and is normally taxable as ordinary income or loss. These gains or losses increase or decrease the amount of a Fund's investment company taxable income available to be distributed to its shareholders as ordinary income, rather than increasing or decreasing the amount of its net capital gain. The Fund may elect to treat as capital gain or loss foreign currency gain or loss arising from certain identified forward contracts that are capital assets in its hands and that are not part of a straddle. Certain transactions subject to the special currency rules that are part of a "Section 988 hedging transaction" will be integrated and treated as a single transaction or otherwise treated consistently for purposes of the Code. Any gain or loss attributable to the foreign currency component of a transaction engaged in by a Fund that is not subject to the special currency rules (such as foreign equity investments other than certain preferred stocks) will be treated as capital gain or loss and will not be segregated from the gain or loss on the underlying transaction.

Certain options, futures and foreign currency contracts are considered "Section 1256 contracts" for federal income tax purposes. Section 1256 contracts held by a Fund at the end of each taxable year are "marked to market" and treated for those purposes as though they were sold for their fair market value on the last business day of the year. Net gains or losses recognized on those deemed sales, and net gains or losses realized by a Fund on actual sales of Section 1256 contracts are treated as 60% long-term and 40% short-term capital gains or losses. The Funds can elect to exempt their Section 1256 contracts that are part of a "mixed straddle" (as described below) from the application of Section 1256 of the Code.

Any forward contract or other position entered into or held by a Fund in conjunction with any other position it holds may constitute a "straddle" for federal income tax purposes. A straddle of which at least one, but not all, the positions are Section 1256 contracts may constitute a "mixed straddle." In general, straddles are subject to certain rules that may affect the amount, character and timing of recognition of a Fund's gains and losses with respect to straddle positions by requiring, among other things, that: (1) any loss realized on disposition of one position of a straddle not be recognized to the extent that the Fund has unrealized gains with respect to the other position in the straddle; (2) the Fund's holding period for certain straddle positions be suspended while the straddle exists (possibly resulting in a gain being treated as short-term capital gain rather than long-term capital gain); (3) the losses recognized with respect to certain straddle positions that are part of a mixed straddle and that are non-Section 1256 contracts be treated as 60% long-term and 40% short-term capital loss; (4) losses recognized with respect to certain straddle positions that would otherwise constitute short-term capital losses be treated as long-term capital losses; and (5) the deduction of interest and carrying charges attributable to certain straddle positions be deferred. Various elections are available to the Funds, which may mitigate the effects of the straddle rules, particularly with respect to mixed straddles. In general, the straddle rules described above do not apply to any straddles held by a Fund if all of the offsetting positions consist of Section 1256 contracts.

A market discount bond is a bond acquired in the secondary market at a price below its redemption value or adjusted issue price if issued with OID. Absent an election by the Funds to include the market discount in income as it accrues, gain on a Fund's disposition of such an obligation will be treated as ordinary income rather than capital gain to the extent of the accrued market discount.

## **FINANCIAL STATEMENTS**

The Annual Report for the Funds for the fiscal year ended July 31, 2018 is a separate document and the respective financial statements and accompanying notes appearing therein are incorporated by reference into this SAI. You may request a copy of the Funds' Annual Report at no charge by calling 1-800-617-0004 or through the Funds' website at [www.trimtabsfunds.com](http://www.trimtabsfunds.com).

## APPENDIX A

### Proxy Voting Policies and Procedures for the Trust

#### PROXY VOTING POLICIES AND PROCEDURES OF TRIM TABS ASSET MANAGEMENT, LLC

##### A. *General Proxy Voting Policies*

- (1) Firm understands and appreciates the importance of proxy voting. To the extent that Firm has discretion to vote the proxies of its advisory clients, Firm will vote any such proxies in the best interests of advisory clients and investors (as applicable) and in accordance with the policies of Broadridge and the procedures outlined below.

##### B. *Proxy Voting Procedures*

- (1) All proxies sent to advisory clients that are actually received by Firm or recorded by Broadridge (to vote on behalf of the advisory clients) will be provided to the Chief Compliance Officer or his delegate.
- (2) The Chief Compliance Officer will instruct Broadridge to generally adhere to the following procedures (subject to limited exception):
  - (a) A written record of each proxy received by Firm or recorded by Broadridge (on behalf of its advisory clients) will be kept in Firm's files;
  - (b) Broadridge and the Chief Compliance Officer will determine which of Firm's advisory clients hold the security to which the proxy relates;
  - (c) Firm and Broadridge (collectively, referred to as "Proxy Voting Committee") will review the proxy and determine how to vote the proxy in question in accordance with the guidelines set forth below.
  - (d) Prior to voting any proxies, the Proxy Voting Committee will attempt to determine if there are any conflicts of interest related to the proxy in question. If a conflict is identified, the Chief Compliance Officer will make a determination as to whether the conflict is material or not.
    - (i) If no material conflict is identified pursuant to these procedures, the Proxy Voting Committee will make a decision on how to vote the proxy in question.
  - (e) Although not presently intended to be used on a regular basis, Firm is empowered to retain an independent third party to vote proxies in certain situations (including situations where a material conflict of interest is identified).

##### C. *Handling of Conflicts of Interest*

- (1) As stated above, in evaluating how to vote a proxy, the Proxy Voting Committee will first determine whether there is a conflict of interest related to the proxy in question between Firm and its advisory clients. This examination will include (but will not be limited to) an evaluation of whether the Firm (or any affiliate of Firm has any relationship with the company or an affiliate of the company) to which the proxy relates outside an investment in such company by an advisory client of Firm.
- (2) If a conflict is identified and deemed "material" by the Proxy Voting Committee, Firm will determine whether voting in accordance with these proxy voting guidelines is in the best interests of affected advisory clients (which may include utilizing an independent third-party to vote such proxies).

- (3) With respect to material conflicts, Firm will determine whether it is appropriate to disclose the conflict to affected advisory clients and investors and give advisory clients and investors the opportunity to vote the proxies in question themselves, if applicable. If an advisory client is subject to the requirements of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), and the investment management agreement between Firm and the ERISA advisory client reserves the right to vote proxies when Firm has determined that a material conflict exists that does affect its best judgment as a fiduciary to the ERISA advisory client, Firm will:
  - (a) Give the ERISA advisory client the opportunity to vote the proxies in question themselves; or
  - (b) Follow designated special proxy voting procedures related to voting proxies pursuant to the terms of the investment management agreement with such ERISA Advisory Clients (if any).

#### D. *Voting Guidelines*

In the absence of specific voting guidelines mandated by a particular advisory client, Firm will endeavor to vote proxies in the best interests of each advisory client via the Broadridge policy.

In some foreign markets where proxy voting demands fee payment for agent services, Firm will balance the cost and benefit of proxy voting and may give up the proxy voting if the cost associated is greater than the benefits from voting.

- (1) Although voting certain proxies may be subject to the discretion of Firm, Firm is of the view that voting proxies in accordance with the following general guidelines is in the best interests of its advisory clients:
  - (a) Firm will generally vote in favor of routine corporate housekeeping proposals including, but not limited to, the following:
    - (i) **election of directors (where there are no related corporate governance issues);**
    - (ii) **selection or reappointment of auditors; or**
    - (iii) **increasing or reclassification of common stock.**
  - (b) Firm will generally vote against proposals that:
    - (iv) **make it more difficult to replace members of the issuer’s board of directors or board of managers; and**
    - (v) **introduce unequal voting rights (although there may be regulatory reasons that would make such a proposal favorable to certain advisory clients of Firm.**
  - (c) Firm will generally vote against proposals that make it more difficult for an issuer to be taken over by outsiders, and in favor of proposals to do the opposite.
  - (d) Firm will generally vote in favor of proposals by management or shareholders concerning various compensation and stock option plans that will act to make management and employee compensation more dependent on long-term stock price performance.
  - (e) Firm will generally vote against proposals to move the company to another state less favorable to shareholders’ interests, or to restructure classes of stock in such a way as to benefit one class of shareholders at the expense of another, such as dual classes (A and B shares) of stock.

**E. *Disclosure of Procedures***

A brief summary of these proxy voting procedures will be included in Firm's Form ADV Part II and will be updated whenever these policies and procedures are updated.

**F. *Record-keeping Requirements***

The Chief Compliance Officer via Broadridge will be responsible for maintaining files relating to Firm's proxy voting procedures. Records will be maintained and preserved for five (5) years from the end of the fiscal year during which the last entry was made on a record, with records for the first two years kept in the offices of Firm. Records of the following will be included in the files:

- (1) Copies of these proxy voting policies and procedures, and any amendments thereto;
- (2) A copy of each proxy statement that Firm or Broadridge actually receives; provided, however, that Firm may rely on obtaining a copy of proxy statements from the SEC's EDGAR system for those proxy statements that are so available;
- (3) A record of each vote that Firm via Broadridge casts;
- (4) A copy of any document that Firm created that was material to making a decision how to vote the proxies, or memorializes that decision (if any); and
- (5) A copy of each written request for information on how Firm voted such advisory client's proxies and a copy of any written response to any request for information on how Firm voted proxies on behalf of advisory clients.

**G. *Testing and Reporting***

The CCO will review the records on a quarterly basis and report compliance on the quarterly checklist.

## APPENDIX B

### Description of Securities Ratings

#### Corporate and Municipal Long-Term Bond Ratings

##### Standard & Poor's ("S&P") Corporate and Municipal Long-Term Bond Ratings:

*The following descriptions of S&P's long-term corporate and municipal bond ratings have been published by Standard & Poor's Financial Service LLC.*

**AAA** — An obligation rated 'AAA' has the highest rating assigned by S&P Global Ratings. The obligor's capacity to meet its financial commitments on the obligation is extremely strong.

**AA** — An obligation rated 'AA' differs from the highest-rated obligations only to a small degree. The obligor's capacity to meet its financial commitments on the obligation is very strong.

**A** — An obligation rated 'A' is somewhat more susceptible to the adverse effects of changes in circumstances and economic conditions than obligations in higher-rated categories. However, the obligor's capacity to meet its financial commitments on the obligation is still strong.

**BBB** — An obligation rated 'BBB' exhibits adequate protection parameters. However, adverse economic conditions or changing circumstances are more likely to the obligor's capacity to meet its financial commitments on the obligation.

**BB, B, CCC, CC, and C** — Obligations rated 'BB', 'B', 'CCC', 'CC', and 'C' are regarded as having significant speculative characteristics. 'BB' indicates the least degree of speculation and 'C' the highest. While such obligations will likely have some quality and protective characteristics, these may be outweighed by large uncertainties or major exposure to adverse conditions.

**BB** — An obligation rated 'BB' is less vulnerable to nonpayment than other speculative issues. However, it faces major ongoing uncertainties or exposure to adverse business, financial, or economic conditions that could lead to the obligor's inadequate capacity to meet its financial commitments on the obligation.

**B** — An obligation rated 'B' is more vulnerable to nonpayment than obligations rated 'BB', but the obligor currently has the capacity to meet its financial commitment on the obligation. Adverse business, financial, or economic conditions will likely impair the obligor's capacity or willingness to meet its financial commitment on the obligation.

**CCC** — An obligation rated 'CCC' is currently vulnerable to nonpayment, and is dependent upon favorable business, financial, and economic conditions for the obligor to meet its financial commitments on the obligation. In the event of adverse business, financial, or economic conditions, the obligor is not likely to have the capacity to meet its financial commitments on the obligation.

**CC** — An obligation rated 'CC' is currently highly vulnerable to nonpayment. The 'CC' rating is used when a default has not yet occurred, but Standard & Poor's expects default to be a virtual certainty, regardless of the anticipated time to default.

**C** — An obligation rated 'C' is currently highly vulnerable to nonpayment, and the obligation is expected to have lower relative seniority or lower ultimate recovery compared to obligations that are rated higher.

**D** — An obligation rated 'D' is in default or in breach of an imputed promise. For non-hybrid capital instruments, the 'D' rating category is used when payments on an obligation are not made on the date due, unless S&P Global Ratings believes that such payments will be made within five business days in the absence of a stated grace period or within the earlier of the stated grace period or 30 calendar days. The 'D' rating also will be used upon the filing of a bankruptcy petition or the taking of similar action and where default on an obligation is a virtual certainty, for example due to automatic stay provisions. An obligation's rating is lowered to 'D' if it is subject to a distressed exchange offer.

**Plus (+) or Minus (-)** — The ratings from ‘AA’ to ‘CCC’ may be modified by the addition of a plus (+) or minus (-) sign to show relative standing within the major rating categories.

**NR** — This indicates that no rating has been requested, that there is insufficient information on which to base a rating, or that Standard & Poor’s does not rate a particular obligation as a matter of policy.

Moody’s Investors Service, Inc. (“Moody’s”) Long-Term Corporate Bond Ratings:

*The following descriptions of Moody’s long-term corporate bond ratings have been published by Moody’s Investors Service, Inc. and Moody’s Analytics Inc.*

**Aaa** — Obligations rated Aaa are judged to be of the highest quality, with minimal risk.

**Aa** — Obligations rated Aa are judged to be of high quality and are subject to very low credit risk.

**A** — Obligations rated A are judged to be upper-medium grade and are subject to low credit risk.

**Baa** — Obligations rated Baa are subject to moderate credit risk. They are considered medium-grade and as such may possess certain speculative characteristics.

**Ba** — Obligations rated Ba are judged to be speculative and are subject to substantial credit risk.

**B** — Obligations rated B are considered speculative and are subject to high credit risk.

**Caa** — Obligations rated Caa are judged to be of poor standing and are subject to very high credit risk.

**Ca** — Obligations rated Ca are highly speculative and are likely in, or very near, default, with some prospect of recovery of principal and interest.

**C** — Obligations rated C are the lowest rated class of bonds and are typically in default, with little prospect for recovery of principal or interest.

Modifiers: Moody’s appends numerical modifiers 1, 2, and 3 to each generic rating classification from Aa through Caa. The modifier 1 indicates that the obligation ranks in the higher end of its generic rating category; the modifier 2 indicates a mid-range ranking; and the modifier 3 indicates a ranking in the lower end of that generic rating category.

Moody’s U.S. Municipal Long-Term Bond Ratings:

*The following descriptions of Moody’s long-term municipal bond ratings have been published by Moody’s Investors Service, Inc. and Moody’s Analytics Inc.*

**Aaa** — Issuers or issues rated Aaa demonstrate the strongest creditworthiness relative to other U.S. municipal or tax-exempt issuers or issues.

**Aa** — Issuers or issues rated Aa demonstrate very strong creditworthiness relative to other U.S. municipal or tax-exempt issuers or issues.

**A** — Issuers or issues rated A present above-average creditworthiness relative to other U.S. municipal or tax-exempt issuers or issues.

**Baa** — Issuers or issues rated Baa represent average creditworthiness relative to other U.S. municipal or tax-exempt issuers or issues.

**Ba** — Issuers or issues rated Ba demonstrate below-average creditworthiness relative to other U.S. municipal or tax-exempt issuers or issues.

**B** — Issuers or issues rated B demonstrate weak creditworthiness relative to other U.S. municipal or tax-exempt issuers or issues.

**Caa** — Issuers or issues rated Caa demonstrate very weak creditworthiness relative to other U.S. municipal or tax-exempt issuers or issues.

**Ca** — Issuers or issues rated Ca demonstrate extremely weak creditworthiness relative to other U.S. municipal or tax-exempt issuers or issues.

**C** — Issuers or issues rated C demonstrate the weakest creditworthiness relative to other U.S. municipal or tax-exempt issuers or issues.

Modifiers: Moody's applies numerical modifiers 1, 2, and 3 in each generic rating classification from Aa through Caa. The modifier 1 indicates that the issuer or obligation ranks in the higher end of its generic rating category; the modifier 2 indicates a mid-range ranking; and the modifier 3 indicates a ranking in the lower end of that generic rating category.

Fitch Ratings Ltd. ("Fitch") Corporate Bond Ratings:

*The following descriptions of Fitch's long-term corporate bond ratings have been published by Fitch, Inc. and Fitch Ratings Ltd.*

**AAA** — Highest credit quality. 'AAA' ratings denote the lowest expectation of credit risk. They are assigned only in cases of exceptionally strong capacity for payment of financial commitments. This capacity is highly unlikely to be adversely affected by foreseeable events.

**AA** — Very high credit quality. 'AA' ratings denote expectations of very low credit risk. They indicate very strong capacity for payment of financial commitments. This capacity is not significantly vulnerable to foreseeable events.

**A** — High credit quality. 'A' ratings denote expectations of low credit risk. The capacity for payment of financial commitments is considered strong. This capacity may, nevertheless, be more vulnerable to adverse business or economic conditions than is the case for higher ratings.

**BBB** — Good credit quality. 'BBB' ratings indicate that expectations of credit risk are currently low. The capacity for payment of financial commitments is considered adequate but adverse business or economic conditions are more likely to impair this capacity.

**BB** — Speculative. 'BB' ratings indicate an elevated vulnerability to credit risk, particularly in the event of adverse changes in business or economic conditions over time; however, business or financial alternatives may be available to allow financial commitments to be met.

**B** — Highly speculative. 'B' ratings indicate that material credit risk is present. For performing obligations, default risk is commensurate with the issuer being rated with an Issuer Default Risk ("IDR") in the ranges 'BB' to 'C'. For issuers with an IDR below 'B', the overall credit risk of this obligation is moderated by the expected level of recoveries should a default occur. For issuers with an IDR above 'B', the overall credit risk of this obligation is exacerbated by the expected low level of recoveries should a default occur. For non-performing obligations, the obligation or issuer is in default, or has deferred payment, but the rated obligation is expected to have extremely high recovery rates consistent with a Recovery Rating of 'RR1' (outstanding recovery prospects given default).

**CCC** — Substantial credit risk. 'CCC' ratings indicate that substantial credit risk is present. For performing obligations, default risk is commensurate with an IDR in the ranges 'B' to 'C'. For issuers with an IDR below 'CCC', the overall credit risk of this obligation is moderated by the expected level of recoveries should a default occur. For issuers with an IDR above 'CCC', the overall credit risk of this obligation is exacerbated by the expected low level of recoveries should a default occur. For non-performing obligations, the obligation or issuer is in default, or has deferred payment, but the rated obligation is expected to have a superior recovery rate consistent with a Recovery Rating of 'RR2' (superior recovery prospects given default).



**CC** — Very high levels of credit risk. ‘CC’ ratings indicate very high levels of credit risk. For performing obligations, default risk is commensurate with an IDR in the ranges ‘B’ to ‘C’. For issuers with an IDR below ‘CC’, the overall credit risk of this obligation is moderated by the expected level of recoveries should a default occur. For issuers with an IDR above ‘CC’, the overall credit risk of this obligation is exacerbated by the expected low level of recoveries should a default occur. For non-performing obligations, the obligation or issuer is in default, or has deferred payment, but the rated obligation is expected to have a good recovery rate consistent with a Recovery Rating of ‘RR3’ (good recovery prospects given default).

**C** — Exceptionally high levels of credit risk. ‘C’ indicates exceptionally high levels of credit risk. For performing obligations, default risk is commensurate with an IDR in the ranges ‘B’ to ‘C’. The overall credit risk of this obligation is exacerbated by the expected low level of recoveries should a default occur. For non-performing obligations, the obligation or issuer is in default, or has deferred payment, and the rated obligation is expected to have an average, below-average or poor recovery rate consistent with a Recovery Rating of ‘RR4’ (average recovery prospects given default), ‘RR5’ (below average recovery prospects given default) or ‘RR6’ (poor recovery prospects given default).

Defaulted obligations typically are not assigned ‘D’ ratings, but are instead rated in the ‘B’ to ‘C’ rating categories, depending upon their recovery prospects and other relevant characteristics. This approach better aligns obligations that have comparable overall expected loss but varying vulnerability to default and loss.

**Plus (+) or Minus (-)** — The modifiers “+” or “-” may be appended to a rating to denote relative status within major rating categories. Such suffixes are not added to the ‘AAA’ obligation rating category, or to corporate finance obligation ratings in the categories below ‘B’.

The terms “investment grade” and “speculative grade” have established themselves over time as shorthand to describe the categories ‘AAA’ to ‘BBB’ (investment grade) and ‘BB’ to ‘D’ (speculative grade). The terms “investment grade” and “speculative grade” are market conventions, and do not imply any recommendation or endorsement of a specific security for investment purposes. “Investment grade” categories indicate relatively low to moderate credit risk, while ratings in the “speculative” categories either signal a higher level of credit risk or that a default has already occurred.

#### Fitch’s Municipal Bond Long-Term Ratings:

*The following descriptions of Fitch’s long-term municipal bond ratings have been published by Fitch, Inc. and Fitch Ratings Ltd.*

**AAA** — Highest credit quality. ‘AAA’ ratings denote the lowest expectation of default risk. They are assigned only in cases of exceptionally strong capacity for payment of financial commitments. This capacity is highly unlikely to be adversely affected by foreseeable events.

**AA** — Very high credit quality. ‘AA’ ratings denote expectations of very low default risk. They indicate very strong capacity for payment of financial commitments. This capacity is not significantly vulnerable to foreseeable events.

**A** — High credit quality. ‘A’ ratings denote expectations of low default risk. The capacity for payment of financial commitments is considered strong. This capacity may, nevertheless, be more vulnerable to adverse business or economic conditions than is the case for higher ratings.

**BBB** — Good credit quality. ‘BBB’ ratings indicate that expectations of default risk are currently low. The capacity for payment of financial commitments is considered adequate but adverse business or economic conditions are more likely to impair this capacity.

**BB** — Speculative. ‘BB’ ratings indicate an elevated vulnerability to default risk, particularly in the event of adverse changes in business or economic conditions over time.

**B** — Highly speculative. ‘B’ ratings indicate that material default risk is present, but a limited margin of safety remains. Financial commitments are currently being met; however, capacity for continued payment is vulnerable to deterioration in the business and economic environment.

**CCC** — Substantial credit risk. ‘CCC’ ratings indicate that default is a real possibility.

**CC** — Very high levels of credit risk. ‘CC’ ratings indicate default of some kind appears probable.

**C** — Near default. ‘C’ ratings indicate a default or default-like process has begun, or the issuer is in standstill, or for a closed funding vehicle, payment capacity is irrevocably impaired. Conditions that are indicative of a ‘C’ category rating for an issuer include:

- the issuer has entered into a grace or cure period following non-payment of a material financial obligation;
- the issuer has entered into a temporary negotiated waiver or standstill agreement following a payment default on a material financial obligation;
- the formal announcement by the issuer or their agent of a distressed debt exchange;

a closed financing vehicle where payment capacity is irrevocably impaired such that it is not expected to pay interest and/or principal in full during the life of the transaction, but where no payment default is imminent.

**RD** — Restricted default. ‘RD’ ratings indicate an issue that in Fitch’s opinion has experienced:

- an uncured payment default on a bond, loan or other material financial obligation, but
- has not entered into bankruptcy filings, administration, receivership, liquidation, or other formal winding-up procedure, and
- has not otherwise ceased operating.

This would include:

- the selective payment default on a specific class or currency of debt;
- the uncured expiry of any applicable grace period, cure period or default forbearance period following a payment default on a bank loan, capital markets security or other material financial obligation;
- the extension of multiple waivers or forbearance periods upon a payment default on one or more material financial obligations, either in series or in parallel; ordinary execution of a distressed debt exchange on one or more material financial obligations.

**D** — Default. ‘D’ ratings indicate a default. Default generally is defined as one of the following:

- failure to make payment of principal and/or interest under the contractual terms of the rated obligation;
- the bankruptcy filings, administration, receivership, liquidation or other winding-up or cessation of the business of an issuer/obligor; or
- the distressed exchange of an obligation, where creditors were offered securities with diminished structural or economic terms compared with the existing obligation.

**Structured Finance Defaults** — “Imminent” default, categorized under ‘C’, typically refers to the occasion where a payment default has been intimated by the issuer, and is all but inevitable. This may, for example, be where an issuer has missed a scheduled payment, but (as is typical) has a grace period during which it may cure the payment default. Another alternative would be where an issuer has formally announced a distressed debt exchange, but the date of the exchange still lies several days or weeks in the immediate future.

Additionally, in structured finance transactions, where analysis indicates that an instrument is irrevocably impaired such that it is not expected to pay interest and/or principal in full in accordance with the terms of the obligation’s documentation during the life of the transaction, but where no payment default in accordance with the terms of the documentation is imminent, the obligation will typically be rated in the ‘C’ category.

**Structured Finance Writedowns** — Where an instrument has experienced an involuntary and, in the agency’s opinion, irreversible “writedown” of principal (*i.e.* other than through amortization, and resulting in a loss to the investor), a credit rating of ‘D’ will be assigned to the instrument. Where the agency believes the “writedown” may prove to be temporary (and the loss may be “written up” again in future if and when performance improves), then a credit rating of ‘C’ will typically be assigned. Should the “writedown” then later be reversed, the credit rating will be raised to an appropriate level for that instrument. Should the “writedown” later be deemed as irreversible, the credit rating will be lowered to ‘D’.

Notes: In the case of structured and project finance, while the ratings do not address the loss severity given default of the rated liability, loss severity assumptions on the underlying assets are nonetheless typically included as part of the analysis. Loss severity assumptions are used to derive pool cash flows available to service the rated liability.

**Plus (+) or Minus (-)** — The modifiers “+” or “-” may be appended to a rating to denote relative status within major rating categories. Such suffixes are not added to the ‘AAA’ Long-Term Rating category, or to Long-Term Rating categories below ‘B’.

#### Municipal Short-Term Bond Ratings

##### S&P’s Municipal Short-Term Bond Ratings:

*The following descriptions of S&P’s short-term municipal ratings have been published by Standard & Poor’s Financial Service LLC.*

**SP-1** — Strong capacity to pay principal and interest. An issue determined to possess a very strong capacity to pay debt service is given a plus (+) designation.

**SP-2** — Satisfactory capacity to pay principal and interest, with some vulnerability to adverse financial and economic changes over the term of the notes.

**SP-3** — Speculative capacity to pay principal and interest.

##### Moody’s Short-Term Municipal Ratings:

*The following descriptions of Moody’s short-term municipal ratings have been published by Moody’s Investors Service, Inc. and Moody’s Analytics Inc.*

**MIG 1** — This designation denotes superior credit quality. Excellent protection is afforded by established cash flows, highly reliable liquidity support, or demonstrated broad-based access to the market for refinancing.

**MIG 2** — This designation denotes strong credit quality. Margins of protection are ample, although not as large as in the preceding group.

**MIG 3** — This designation denotes acceptable credit quality. Liquidity and cash-flow protection may be narrow, and market access for refinancing is likely to be less well-established.

**SG** — This designation denotes speculative-grade credit quality. Debt instruments in this category may lack sufficient margins of protection.

#### Short-Term Credit Ratings

##### S&P’s Short-Term Credit Ratings:

*The following descriptions of S&P’s short-term credit ratings have been published by Standard & Poor’s Financial Service LLC.*

**A-1** — A short-term obligation rated ‘A-1’ is rated in the highest category by S&P Global Ratings. The obligor’s capacity to meet its financial commitments on the obligation is strong. Within this category, certain obligations are designated with a plus sign (+). This indicates that the obligor’s capacity to meet its financial commitments on these obligations is extremely strong.

**A-2** — A short-term obligation rated ‘A-2’ is somewhat more susceptible to the adverse effects of changes in circumstances and economic conditions than obligations in higher rating categories. However, the obligor’s capacity to meet its financial commitments on the obligation is satisfactory.

**A-3** — A short-term obligation rated ‘A-3’ exhibits adequate protection parameters. However, adverse economic conditions or changing circumstances are more likely to weaken an obligor’s capacity to meet its financial commitments on the obligation.

**B** — A short-term obligation rated ‘B’ is regarded as vulnerable and has significant speculative characteristics. The obligor currently has the capacity to meet its financial commitments; however, it faces major ongoing uncertainties that could lead to the obligor’s inadequate capacity to meet its financial commitments.

**C** — A short-term obligation rated ‘C’ is currently vulnerable to nonpayment and is dependent upon favorable business, financial, and economic conditions for the obligor to meet its financial commitments on the obligation.

**D** — A short-term obligation rated ‘D’ is in default or in breach of an imputed promise. For non-hybrid capital instruments, the ‘D’ rating category is used when payments on an obligation are not made on the date due, unless Standard & Poor’s believes that such payments will be made within any stated grace period. However, any stated grace period longer than five business days will be treated as five business days. The ‘D’ rating also will be used upon the filing of a bankruptcy petition or the taking of a similar action and where default on an obligation is a virtual certainty, for example due to automatic stay provisions. An obligation’s rating is lowered to ‘D’ if it is subject to a distressed exchange offer.

**Dual Ratings** — S&P may assign “dual” ratings to all debt issues that have a put option or demand feature. The first component of the rating addresses the likelihood of repayment of principal and interest as due, and the second component of the rating addresses only the demand feature. The first component of the rating can relate to either a short-term or long-term transaction and accordingly use either short-term or long-term rating symbols. The second component of the rating relates to the put option and is assigned a short-term rating symbol (for example, ‘AAA/A-1+’ or ‘A-1+/A-1’). With U.S. municipal short-term demand debt, the U.S. municipal short-term note rating symbols are used for the first component of the rating (for example, ‘SP-1+/A-1+’).

#### Moody’s Short-Term Ratings:

*The following descriptions of Moody’s short-term credit ratings have been published by Moody’s Investors Service, Inc. and Moody’s Analytics Inc.*

**P-1** — Issuers (or supporting institutions) rated Prime-1 have a superior ability to repay short-term debt obligations.

**P-2** — Issuers (or supporting institutions) rated Prime-2 have a strong ability to repay short-term debt obligations.

**P-3** — Issuers (or supporting institutions) rated Prime-3 have an acceptable ability to repay short-term obligations.

**NP** — Issuers (or supporting institutions) rated Not Prime do not fall within any of the Prime rating categories.

Note: Canadian issuers rated P-1 or P-2 have their short-term ratings enhanced by the senior-most long-term rating of the issuer, its guarantor or support-provider.

#### Fitch’s Short-Term Credit Ratings:

*The following descriptions of Fitch’s short-term credit ratings have been published by Fitch, Inc. and Fitch Ratings Ltd.*

**F1** — Highest short-term credit quality. Indicates the strongest intrinsic capacity for timely payment of financial commitments; may have an added “+” to denote any exceptionally strong credit feature.

**F2** — Good short-term credit quality. Good intrinsic capacity for timely payment of financial commitments.

**F3** — Fair short-term credit quality. The intrinsic capacity for timely payment of financial commitments is adequate.

**B** — Speculative short-term credit quality. Minimal capacity for timely payment of financial commitments, plus heightened vulnerability to near term adverse changes in financial and economic conditions.

**C** — High short-term default risk. Default is a real possibility.

**RD** — Restricted default. Indicates an entity that has defaulted on one or more of its financial commitments, although it continues to meet other financial obligations. Typically, applicable to entity ratings only.

**D** — Default. Indicates a broad-based default event for an entity, or the default of a specific short-term obligation.

The modifiers “+” or “-” may be appended to a rating to denote relative status within major rating categories. Such suffixes are not added to the ‘AAA’ Long-term rating category, to categories below ‘CCC’, or to Short-term ratings other than ‘F1’. (The +/- modifiers are only used to denote issues within the CCC category, whereas issuers are only rated CCC without the use of modifiers.)

## APPENDIX C

### Foreign Holidays

The TrimTabs All Cap International Free-Cash-Flow ETF generally intends to effect deliveries of Creation Units and portfolio securities no later than the second Business Day following the day on which the order is deemed received by the Distributor. The Fund may effect deliveries of Creation Units and portfolio securities on a basis other than the one just described in order to accommodate local holiday schedules, to account for different treatment among foreign and U.S. markets of dividend record dates and ex-dividend dates, or under certain other circumstances. The ability of the Trust to effect in-kind creations and redemptions within three business days of receipt of an order in good form is subject, among other things, to the condition that, within the time period from the date of the order to the date of delivery of the securities, there are no days that are holidays in the applicable foreign market. For every occurrence of one or more intervening holidays in the applicable foreign market that are not holidays observed in the U.S. equity market, the redemption settlement cycle will be extended by the number of such intervening holidays. In addition to holidays, other unforeseeable closings in a foreign market due to emergencies may also prevent the Trust from delivering securities within the normal settlement period.

The securities delivery cycles currently practicable for transferring portfolio securities to redeeming investors, coupled with foreign market holiday schedules, will require a delivery process longer than seven calendar days in certain circumstances.

The holidays applicable to the Fund investing in foreign securities during such periods are listed below, as are instances where more than seven days will be needed to deliver redemption proceeds. Although certain holidays may occur on different dates in subsequent years, the number of days required to deliver redemption proceeds in any given year is not expected to exceed the maximum number of days listed below for the Fund. The proclamation of new holidays, the treatment by market participants of certain days as “informal holidays” (e.g., days on which no or limited securities transactions occur, as a result of substantially shortened trading hours), the elimination of existing holidays, or changes in local securities delivery practices, could affect the information set forth herein at some time in the future.

The dates of the regular holidays in the United States in future calendar years are as follows:

<b>HOLIDAY</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>New Years Day</b>	Monday, January 1	Tuesday, January 1	Wednesday, January 1
<b>Martin Luther King, Jr. Day</b>	Monday, January 15	Monday, January 21	Monday, January 20
<b>Washington's Birthday</b>	Monday, February 19	Monday, February 18	Monday, February 17
<b>Good Friday</b>	Friday, March 30	Friday, April 19	Friday, April 10
<b>Memorial Day</b>	Monday, May 28	Monday, May 27	Monday, May 25
<b>Independence Day</b>	Wednesday, July 4*	Thursday, July 4*	Friday, July 3 (July 4 holiday observed)
<b>Labor Day</b>	Monday, September 3	Monday, September 2	Monday, September 7
<b>Thanksgiving Day</b>	Thursday, November 22**	Thursday, November 28**	Thursday, November 26**
<b>Christmas</b>	Tuesday, December 25***	Wednesday, December 25***	Friday, December 25***

\* The NYSE, NYSE AMEX and NASDAQ will close early at 1:00 p.m. Eastern time on Tuesday, July 3, 2018 and Wednesday, July 3, 2019.

\*\* The NYSE, NYSE AMEX and NASDAQ will close early at 1:00 p.m. Eastern time on Friday, November 23, 2018, Friday, November 29, 2019, and Friday, November 27, 2020 (the day after Thanksgiving).

\*\*\* The NYSE, NYSE AMEX and NASDAQ will close early at 1:00 p.m. Eastern time on Monday, December 24, 2018, Tuesday, December 24, 2019, and Thursday, December 24, 2020.

Listed below are the dates in calendar years 2018 and 2019 in which the regular holidays in non-U.S. markets may impact Fund settlement. This list is based on information available to the Fund. The list may not be accurate or complete and is subject to change.

**2018****Argentina**

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January 1	April 2	June 18	October 15
March 30	May 1	July 9	December 8
April 1	May 25	August 20	December 25

**Australia**

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January 1	April 2	August 6	December 25
January 26	April 25	October 1	December 26
March 30	June 11		

**Austria**

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January 1	May 10	October 26	December 26
January 6	May 21	November 1	
April 2	May 31	December 8	
May 1	August 15	December 25	

**Belgium**

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January 1	May 1	July 21	November 11
January 6	May 10	August 15	December 25
April 2	May 21	November 1	

**Bermuda**

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January 1	August 2	September 3	December 25
March 30	August 3	November 12	December 26
June 18			

**Brazil**

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January 1	March 30	May 31	November 2
February 12	April 21	September 7	November 15
February 13	May 1	October 12	December 25

**Canada**

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January 1	May 21	September 3	December 25
February 19	July 2	October 8	December 26
March 30	August 6	November 12	

**Cayman Islands**

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January 1	March 30	June 11	December 25
January 22	April 2	July 2	December 26
February 14	May 21	November 12	

**Chile**

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January 1	May 21	September 19	December 25
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March 30	July 2	October 15	December 31
March 31	July 16	November 1	
April 1	August 15	November 2	
May 1	September 18	December 8	

### **China**

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January 1	February 19	April 30	October 2
February 15	February 20	May 1	October 3
February 16	February 21	June 18	October 4
February 17	April 5	September 24	October 5
February 18	April 6	October 1	

### **Colombia**

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January 1	May 10	July 20	December 8
January 8	May 13	August 7	December 25
March 19	May 31	August 15	
March 29	June 11	October 15	
March 30	June 17	November 5	
May 1	July 2	November 12	

### **Costa Rica**

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January 1	April 11	August 2	October 2
March 29	May 1	August 15	December 25
March 30	July 25	September 15	

### **Cyprus**

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January 1	April 1	May 1	October 28
January 6	April 6	May 28	December 25
February 19	April 9	August 15	December 26
March 25	April 10	October 1	

### **Czech Republic**

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January 1	May 1	July 6	December 25
March 30	May 8	September 28	December 26
April 2	July 5	December 24	

### **Denmark**

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January 1	April 2	May 21	December 26
March 29	April 27	June 5	December 31
March 30	May 10	December 24	
April 1	May 11	December 25	

### **Egypt**

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January 7	April 25	August 21	November 20
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January 25	May 1	August 22
April 8	July 1	August 23
April 9	July 23	September 11

**Finland**

January 1	March 30	May 1	December 26
January 6	April 2	December 25	

**France**

January 1	May 1	December 25	December 26
March 25	October 28		

**Germany**

January 1	March 30	May 1	December 25
March 25	April 2	October 28	December 26

**Greece**

January 1	March 25	May 1	October 28
January 6	April 6	May 28	December 25
February 19	April 9	August 15	December 26

**Hong Kong**

January 1	April 2	December 25	December 26
March 30			

**Hungary**

January 1	March 16	August 20	October 23
March 15			

**India**

January 26	August 15	October 2	December 25
May 1			

**Indonesia**

January 1	May 1	June 16	December 25
February 16	May 10	August 17	December 31
March 17	May 30	August 22	
March 30	June 1	September 12	
April 14	June 15	November 21	

**Ireland**

January 1	April 2	August 6	December 25
March 30	June 4	October 29	December 26

**Israel**

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March 1	May 20	September 11	September 24
April 6	July 22	September 18	October 1
April 19	September 10	September 19	

The Israeli market is closed every Friday.

**Italy**

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January 1	April 2	December 25	December 26
March 30	May 1		

**Japan**

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January 1	March 21	July 16	November 3
January 2	April 30	August 11	November 23
January 3	May 3	September 17	December 24
January 8	May 4	September 24	December 31
February 12	May 5	October 8	

**Luxembourg**

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January 1	May 10	August 15	December 26
April 2	May 21	November 1	
May 1	June 23	December 25	

**Malaysia**

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January 1	May 1	September 16	December 25
February 1	August 31	September 17	

**Mexico**

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January 1	March 30	November 2	December 25
February 5	May 1	November 19	
March 19	May 5	December 1	
March 29	September 16	December 12	

**Netherlands**

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January 1	April 2	May 21	December 25
March 25	April 27	October 28	December 26
March 30	May 12		

**New Zealand**

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January 1	January 29	April 2	October 22
January 2	February 6	April 25	December 25
January 22	March 30	June 4	December 26

**Norway**

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January 1	April 2	May 17	December 25
March 29	May 1	May 21	December 26

March 30

May 10

**Peru**

---

January 1

May 1

July 29

November 1

March 29

June 29

August 30

December 8

March 30

July 28

October 8

December 25

**Philippines**

---

January 1

April 9

August 27

December 25

March 29

May 1

November 1

December 30

March 30

June 12

November 30

December 31

**Poland**

---

January 1

May 1

August 15

December 25

March 30

May 3

November 1

December 26

April 2

May 31

December 24

**Portugal**

---

January 1

April 2

December 25

December 26

March 30

May 1

**Puerto Rico**

---

January 1

March 20

June 17

October 12

January 6

March 22

June 21

November 12

January 15

March 30

July 4

November 22

February 13

April 1

July 25

December 24

February 14

May 13

September 3

December 25

February 19

May 28

September 23

**Qatar**

---

February 13

June 16

August 22

December 18

March 4

June 17

August 23

June 15

August 21

August 24

**Romania**

---

January 1

April 9

August 15

December 26

January 2

May 1

November 30

January 24

May 28

December 1

March 1

June 1

December 25

**Russia**

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January 1

February 19

May 28

November 12

January 2

February 23

June 12

November 22

January 3

March 8

July 4

December 25

January 4	March 30	September 3
January 5	May 1	October 8
January 15	May 9	November 5

**Saudi Arabia**

June 15	June 18	August 22	September 23
June 17	August 21	August 23	

**Singapore**

January 1	May 1	August 9	December 25
March 30			

**South Africa**

January 1	April 2	June 16	December 16
March 21	April 27	August 9	December 25
March 30	May 1	September 24	December 26

**South Korea**

January 1	May 1	June 13	September 26
February 15	May 5	August 15	October 3
February 16	May 7	September 23	October 9
February 17	May 22	September 24	December 25
March 1	June 6	September 25	

**Spain**

January 1	March 30	July 25	November 1
March 19	May 1	August 15	December 25
March 29	May 31	October 12	

**Sweden**

January 1	May 1	June 22	December 26
March 30	May 10	December 24	December 31
April 2	June 6	December 25	

**Switzerland**

January 1	April 22	June 10	December 25
April 19	May 30	August 1	December 26

**Taiwan**

January 1	April 5	May 1	October 10
February 28			

**Thailand**

January 1	April 13	May 29	December 5
January 2	April 16	July 26	December 10

March 2	May 1	August 13	December 31
April 6	May 7	October 23	January 1

**Turkey**

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January 1	May 1	August 30	October 29
April 23	May 19		

**United Arab Emirates**

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January 1	August 21	August 26	November 30
April 13	August 22	September 11	December 2

**United Kingdom**

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January 1	April 2	August 27	December 25
March 25	May 7	October 28	December 26
March 30	May 28		

**Venezuela**

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January 1	March 29	July 5	November 1
February 12	March 30	June 29	December 24
February 13	April 19	July 5	December 25
March 26	May 1	July 24	December 31
March 27	June 24	August 15	
March 28	June 29	October 12	

**Vietnam**

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January 2	January 29	April 6	May 2
January 27	January 30	May 1	September 4
January 28			

**2019****Argentina**

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January 1	April 18	June 20	October 20
March 4	April 19	July 8	November 18
March 5	May 1	July 9	December 8
March 24	May 25	August 19	December 25
April 2	June 17	October 14	

**Australia**

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January 1	April 22	August 5	December 25
January 28	April 25	October 7	November 5
April 19	May 6		

**Belgium**

---

January 1	May 30	August 15	December 25
April 22	June 10	November 1	
May 1	July 21	November 11	

**Brazil**

---

January 1	April 19	September 7	December 25
March 4	May 1	October 12	
March 5	June 20	November 2	
March 6	July 9	November 15	

**Canada**

---

January 1	April 19	July 1	November 11
February 11	April 22	August 5	December 25
February 18	May 20	September 2	December 26

**Chile**

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January 1	May 21	September 18	November 1
April 19	July 1	September 19	December 8
April 20	July 16	October 14	December 25
May 1	August 15		

**China**

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January 1	February 9	June 7	October 2
February 4	February 10	September 13	October 3
February 5	April 5	September 30	October 4
February 6	May 1	October 1	October 7
February 7			

**Czech Republic**

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January 1	May 8	September 28	December 24
April 19	July 5	October 28	December 25
April 22	July 6	November 17	December 26
May 1			

**Denmark**

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January 1	April 22	June 5	December 25
April 18	May 17	June 10	December 26
April 19	May 30	December 24	December 31

**Finland**

---

January 1	April 22	December 6	December 25
January 6	May 1	December 24	December 26
April 19	May 30		

**France**

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January 1	May 8	July 14	November 11
April 22	May 30	August 15	December 25
May 1	June 10	November 1	December 26

**Germany**

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January 1	May 1	June 10	December 25
April 9	May 30	October 3	December 26
April 22			

**Hong Kong**

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January 1	April 5	May 13	October 1
February 4	April 19	June 7	October 7
February 5	April 20	July 1	December 25
February 6	April 22	September 14	December 26
February 7	May 1		

**Hungary**

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January 1	May 1	August 19	November 1
March 15	June 9	August 20	December 25
April 19	June 10	October 23	December 26
April 22			

**India**

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January 26	March 21	May 1	October 2
February 19	April 19	August 15	December 25
March 4			

**Ireland**

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January 1	April 22	August 5	December 26
March 18	May 6	October 28	December 27
April 19	June 3	December 25	

**Israel**

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March 21	May 9	September 30	October 14
April 21	June 10	October 1	October 22
April 27	August 11	October 9	

**Italy**

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January 1	April 22	June 2	December 8
January 6	April 25	August 15	December 25
April 19	May 1	November 1	December 26

**Japan**

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January 1	March 21	July 15	October 14
January 2	April 19	August 12	November 4
January 3	May 3	September 16	November 25
January 14	May 4	September 23	December 23
February 11	May 6		

**Luxembourg**

January 1	May 1	June 23	December 25
April 19	May 30	August 15	December 26
April 22	June 10	November 1	

**Mexico**

January 1	April 18	May 5	December 12
February 4	April 19	September 16	December 25
March 18	May 1	November 18	

**Netherlands**

January 1	April 27	May 30	December 25
April 19	May 4	June 10	December 26
April 22	May 5		

**New Zealand**

January 1	April 19	June 3	December 26
January 2	April 22	October 28	
February 6	April 25	December 25	

**Norway**

January 1	April 22	May 30	December 25
April 18	May 1	June 10	December 26
April 19	May 17	December 24	

**Pakistan**

February 5	June 6	August 13	September 10
May 1	June 7	August 14	December 25
June 5	August 12	September 9	

**Peru**

January 1	May 1	July 29	November 1
April 18	June 29	August 30	December 8
April 19	July 28	October 8	December 25

**Philippines**

January 1	April 19	August 12	December 24
February 5	May 1	August 21	December 25
April 9	June 5	August 26	December 30
April 18	June 12	November 1	December 31

**Poland**

January 1	May 1	August 15	December 25
January 6	May 3	November 1	December 26
April 22	June 20	November 11	

**Portugal**

January 1	May 1	August 15	December 1
April 19	June 10	October 5	December 8
April 25	June 20	November 1	December 25

**Qatar**

February 12	June 6	August 13	August 15
June 4	August 12	August 14	December 18
June 5			

\* The Qatari market is closed every Friday



**Singapore**

January 1	April 19	June 5	October 27
February 5	May 1	August 9	December 25
February 6	May 19	August 12	

**South Korea**

January 1	May 1	June 13	September 26
February 4	May 5	August 15	October 3
February 5	May 7	September 23	October 9
February 6	May 22	September 24	December 25
March 1	June 6	September 25	

**Spain**

January 1	April 22	September 11	December 6
January 6	May 1	October 12	December 8
April 18	July 25	November 1	December 25
April 19	August 15		

**Sweden**

January 1	May 1	June 22	December 25
January 6	May 30	November 2	December 26
April 19	June 6	December 24	December 31
April 22	June 21		

**Switzerland**

January 1	April 22	June 10	December 25
January 2	May 30	August 1	December 26
April 19			

**Taiwan**

January 1	February 7	February 23	April 5
February 4	February 8	February 28	June 7
February 5	February 9	March 1	September 13
February 6	February 19	April 4	October 10

**Thailand**

January 1	April 15	July 17	October 23
February 19	April 16	July 29	December 5
April 8	April 17	August 12	December 10
April 13	May 1	October 14	December 31
April 14	May 19		

**United Arab Emirates**

January 1	August 11	August 14	November 30
April 3	August 12	September 1	December 2
June 5	August 13	November 10	December 3
June 6			

**United Kingdom**

January 1	May 6	August 5	December 25
April 19	May 27	August 6	December 26
April 22			

**Redemption:** The longest redemption cycle is a function of the longest redemption cycle among the countries whose securities comprise the Fund.

In calendar years 2018 and 2019, the dates of regular holidays affecting the following securities markets present the worst-case (longest) redemption cycle\* as follows:

<b>Settlement Periods Greater Than Seven Days For Year 2018</b>	<b>Beginning of Settlement Period</b>	<b>End of Settlement Period</b>	<b>Number of Days in Settlement Period</b>
Australia	12/19/2018	12/27/2018	8
	12/20/2018	12/28/2018	8
	12/21/2018	1/2/2019	12
Belgium	12/19/2018	12/27/2018	8
	12/20/2018	12/28/2018	8
	12/21/2018	12/31/2018	10
China	2/12/2018	2/22/2018	10
	2/13/2018	2/23/2018	10
	2/14/2018	2/26/2018	12
	9/26/2018	10/8/2018	12
	9/27/2018	10/9/2018	12
	9/28/2018	10/10/2018	12
Czech Republic	12/21/2018	12/31/2018	10
Denmark	3/26/2018	4/3/2018	8
	3/27/2018	4/4/2018	8
	12/19/2018	12/27/2018	8
	12/20/2018	12/28/2018	8
Finland	12/19/2018	12/27/2018	8
	12/20/2018	12/28/2018	8
	12/21/2018	12/31/2018	10
Hong Kong	3/29/2018	4/6/2018	8
Ireland	12/19/2018	12/27/2018	8
	12/20/2018	12/28/2018	8
	12/21/2018	12/31/2018	10
Israel	9/4/2018	9/12/2018	8
	9/5/2018	9/13/2018	8
	9/6/2018	9/17/2018	11
	9/13/2018	9/25/2018	12
Japan	12/27/2018	1/4/2019	8
	12/28/2018	1/5/2019	8
	12/29/2018	1/9/2018	11
Norway	3/26/2018	4/3/2018	8
	3/27/2018	4/4/2018	8
	3/28/2018	4/5/2018	8
Spain	12/19/2018	12/27/2018	8
	12/20/2018	12/28/2018	8
	12/21/2018	12/31/2018	10

<b>Settlement Periods Greater Than Seven Days For Year 2018</b>	<b>Beginning of Settlement Period</b>	<b>End of Settlement Period</b>	<b>Number of Days in Settlement Period</b>
Sweden	3/26/2018	4/3/2018	8
	3/27/2018	4/4/2018	8
	12/19/2018	12/27/2018	8
	12/20/2018	12/28/2018	8
	12/21/2018	1/2/2019	12
<b>Settlement Periods Greater Than Seven Days For Year 2019</b>	<b>Beginning of Settlement Period</b>	<b>End of Settlement Period</b>	<b>Number of Days in Settlement Period</b>
Australia	4/18/2019	4/26/2019	8
Brazil	2/27/2019	3/7/2019	8
	2/28/2019	3/8/2019	8
	3/1/2019	3/11/2019	10
China	1/30/2019	2/11/2019	12
	1/31/2019	2/12/2019	12
	2/1/2019	2/11/2019	10
	2/1/2019	2/13/2019	12
Czech Republic	1/30/2019	2/11/2019	12
	1/31/2019	2/12/2019	12
	2/1/2019	2/13/2019	12
	2/4/2019	2/13/2019	9
	2/5/2019	2/13/2019	8
	9/25/2019	10/8/2019	13
	9/26/2019	10/8/2019	12
9/27/2019	10/9/2019	12	
Finland	12/23/2019	12/31/2019	8
Hong Kong	1/31/2019	2/8/2019	8
	2/1/2019	2/11/2019	10
Israel	10/7/2019	10/15/2019	8
Japan	12/26/2018	1/4/2019	9
	12/27/2018	1/7/2019	11
	12/28/2018	1/8/2019	11
New Zealand	4/18/2019	4/26/2019	8
Taiwan	1/31/2019	2/11/2019	11
	2/1/2019	2/11/2019	10

\*These worst-case redemption cycles are based on information regarding regular holidays, which may be out of date. Due to changes in holidays, longer (worse) redemption cycles are possible