

# 2045 Retirement Date Fund R2

**Benchmark**  
Blended Benchmark

**Morningstar Category**  
Target-Date 2045

## Investment Information

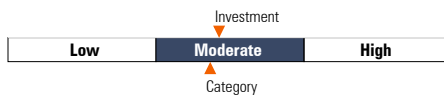
### Investment Strategy

The 2045 Retirement Date Fund currently invests in a combination of U.S. stocks, non-U.S. stocks, fixed-income securities and commodities, and allocates its assets among these investments according to an asset allocation strategy that varies generally on a predetermined basis. On a regular basis, the 2045 Retirement Date Fund automatically will be rebalanced to a more conservative strategy until 2050, the year that is five years after the 2045 target retirement date. Over time, the equity allocations decrease and the fixed-income and real estate securities allocations increase. By the year 2050, the 2045 Retirement Date Fund is currently expected to invest and remain invested in its most conservative mix of fixed-income, equity and real estate securities and commodities, at or about which time those assets will be transferred to the Post Retirement Date Fund and the 2045 Retirement Date Fund will be terminated.

### Operations and Management

Fund Inception Date 09-04-18  
Trustee Mercer Trust Company  
Subadvisor State Street Global Advisors

### Volatility Analysis



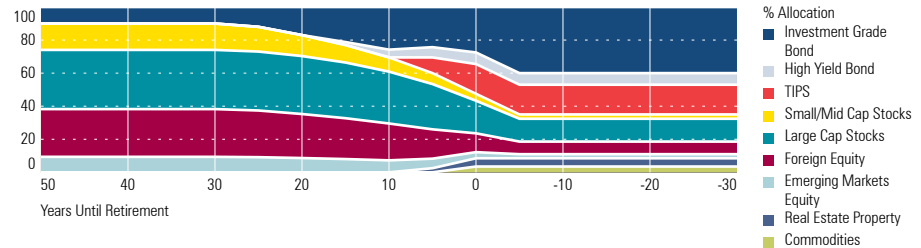
In the past, this investment has shown a relatively moderate range of price fluctuations relative to other investments. This investment may experience larger or smaller price declines or price increases depending on market conditions. Some of this risk may be offset by owning other investments with different portfolio makeups or investment strategies.

Best 3 Month Return	Worst 3 Month Return
18.71%	-18.03%
(Apr '20 - Jun '20)	(Jan '20 - Mar '20)

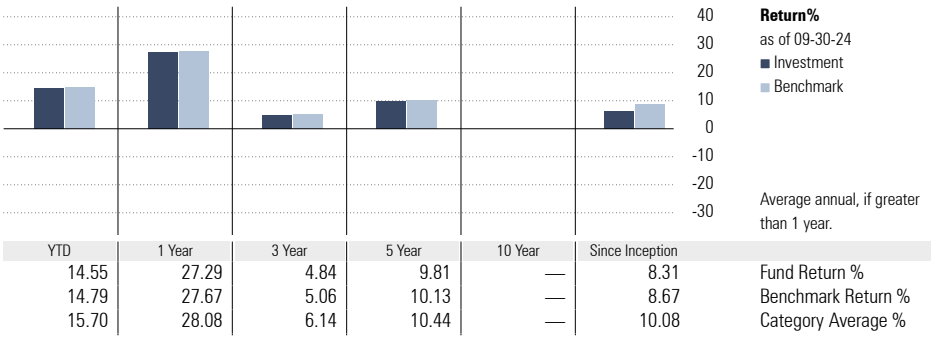
### Notes

The composite benchmark for the Fund currently includes the Bloomberg U.S. Long Government Bond Index, the S&P 500 Index, the MSCI ACWI ex-USA IMI Index, the Russell Small Cap Completeness Index and the Bloomberg Roll Select Commodity Index, which are weighted based on the Fund's target allocations to the respective asset classes to which such benchmarks relate. Inception to date performance for the Fund and Benchmark begins with first full month following stated inception date. This Fund's asset allocation is approximately at 30 years until retirement on the Allocation of Stocks and Bonds graph. See the Program Annual Disclosure Document (April 2024), for more information, as well as the attached Disclosure page.

## Allocation of Stocks and Bonds



## Performance

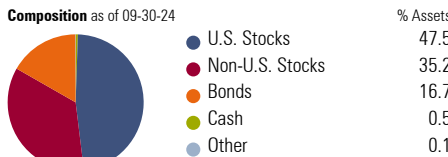


**Performance Disclosure:** The performance data quoted reflects past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus, an investor's units, when redeemed, may be worth more or less than their original cost.

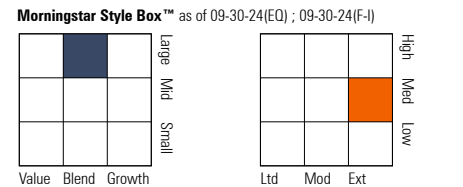
Current performance may be lower or higher than return data shown herein. For more current information, including month-end performance, please call (800) 348-2272 or visit [www.abaretirement.com](http://www.abaretirement.com). Please refer to the Performance section of the Disclosure page for more information.

Growth of \$10,000	start date	09-30-18	09-30-24	Annual Fund Operating Expenses
Fund			\$16,299	Expense Ratio 0.36 %
Benchmark			\$16,621	Sales Charge 0.00 %
				12b-1 Fee n/a

## Portfolio Analysis



Top Holdings	as of 09-30-24	% Assets
State St Gbl All Cp Eq ex-US Idx NL CI A		35.30
State St S&P 500® Indx NL CI A		35.18
State St Russell Sm/Mid Cp® Indx NL CI A		12.80
State St US Lg Gov Bnd Indx NL CI A		9.99
State St US Bnd Indx NL CI A		6.73
Total Number of Holdings	5	
Annual Turnover Ratio %	8.29	
Total Fund Assets (\$mil)	77.34	



Morningstar Super Sectors	as of 09-30-24	% Equities
Cyclical		35.23
Sensitive		45.51
Defensive		19.27

Morningstar F-I Sectors	as of 09-30-24	% Fund	% Category
Government		76.27	35.88
Corporate		9.78	22.32
Securitized		10.69	17.82
Municipal		0.16	0.19
Cash/Cash Equivalents		2.53	19.37
Derivative		0.57	4.41

# Disclosure

**You should consider the investment objectives, risks, charges and expenses of the investment options carefully before investing. Certain units of the collective investment funds (each, a 'Fund' and collectively, the 'Funds') offered under the Collective Trust that serve as investment options under the ABA Retirement Funds Program (the 'Program') are exempt from registration under the Securities Act of 1933. In those instances, the Program Prospectus, as it may be supplemented from time to time, serves as the Program disclosure document. For a copy of the Program Prospectus with more complete information, including charges and expenses associated with the Program, or to speak with a Plan Consultant, call (800) 826-8901, visit [www.abaretirement.com](http://www.abaretirement.com) or write to: ABA Retirement Funds, P.O. Box 990073, Hartford, CT 06199. Please read the information carefully before investing. For e-mail inquiries, contact [contactus@abaretirement.com](mailto:contactus@abaretirement.com).**

## Performance

The total return of a Fund reflects performance after adjustment for fees and expenses. Each Fund's performance is compared with the investment record of a comparable market index or other benchmark. The benchmark is a portfolio of specified securities and the benchmark does not reflect any initial or ongoing fees or expenses. Securities held in a Fund's portfolio may differ significantly from the securities that comprise the benchmark.

The total return of a Fund's category average since such Fund's inception is not shown because that information is not calculated by Morningstar.

The past performance of a Fund or benchmark is no guarantee of future performance.

## Best and Worst 3 Month Return

Morningstar calculates best and worst 3-month performance (in percentage terms) of each Fund on a monthly basis.

*Best 3-month Return:* The highest total return a Fund has posted in a consecutive three-month period over the trailing 15 years, or if a Fund has been in operation for less than 15 years, since the Fund's inception.

*Worst 3-month Return:* The lowest total return a Fund has posted in a consecutive three-month period over the trailing 15 years, or if a Fund has been in operation for less than 15 years, since the Fund's inception.

The past performance of a Fund is no guarantee of future performance.

## Growth of \$10,000

Growth of \$10,000 shows a Fund's hypothetical performance based on how an assumed \$10,000 investment in the Fund would have grown over time. The growth of \$10,000 begins at the date shown in the module. Also shown is the hypothetical growth of \$10,000 based on the investment record of the Fund's benchmark over the same period. The inclusion of the information on the benchmark allows investors to compare the performance of the Fund with the performance of the benchmark. The past performance of a Fund or benchmark is no guarantee of future performance.

## Morningstar Style Box™

The Morningstar Style Box™ reveals a fund's investment style. For equity funds the vertical axis shows the market capitalization of the long stocks owned and the horizontal axis shows investment style (value, blend, or growth).

For fixed-income funds, the vertical axis shows the credit quality of the long bonds owned and the horizontal axis shows interest rate sensitivity as measured by a bond's effective duration.

Morningstar seeks credit rating information from fund companies on a periodic basis (e.g., quarterly). In compiling credit rating information Morningstar accepts credit ratings reported by fund companies that have been issued by all Nationally Recognized Statistical Rating Organizations (NRSROs). For a list of all NRSROs, please visit <http://www.sec.gov/divisions/marketreg/ratingagency.htm>. Additionally, Morningstar accepts foreign credit ratings from widely recognized or registered rating agencies. If two rating organizations/agencies have rated a security, fund companies are to report the lower rating; if three or more organizations/agencies have rated a security, fund companies are to report the median rating, and in cases where there are more than two organization/agency ratings and a median rating does not exist, fund companies are to use the lower of the two middle ratings. PLEASE NOTE: Morningstar, Inc. is not itself an NRSRO nor does it issue a credit rating on the fund. An NRSRO or rating agency ratings can change from time-to-time.

For credit quality, Morningstar combines the credit rating information provided by the fund companies with an average default rate calculation to come up with a weighted-average credit quality. The weighted-average credit quality is currently a letter that roughly corresponds to the scale used by a leading NRSRO. Bond funds are assigned a style box placement of "low", "medium", or "high" based on their average credit quality. Funds with a low credit quality are those whose weighted-average credit quality is determined to be less than "BBB-", medium are those less than "AA-", but greater or equal to "BBB-"; and high are those with a weighted-average credit quality of "AA-" or higher. When classifying a bond portfolio, Morningstar first maps the NRSRO credit ratings of the underlying holdings to their respective default rates (as determined by Morningstar's analysis of actual historical default rates). Morningstar then averages these default rates to determine the average default rate for the entire bond fund. Finally, Morningstar maps this average default rate to its corresponding credit rating along a convex curve.

For interest-rate sensitivity, Morningstar obtains from fund companies the average effective duration. Generally, Morningstar classifies a fixed-income fund's interest-rate sensitivity based on the effective duration of the Morningstar Core Bond Index (MCBI), which is currently three years. The classification of Limited will be assigned to those funds whose average effective duration is between 25% to 75% of MCBI's average effective duration; funds whose average effective duration is between 75% to 125% of the MCBI will be classified as Moderate; and those that are at 125% or greater of the average effective duration of the MCBI will be classified as Extensive.

For municipal bond funds, Morningstar also obtains from fund

companies the average effective duration. In these cases static breakpoints are utilized. These breakpoints are as follows: (i) Limited: 4.5 years or less; (ii) Moderate: more than 4.5 years but less than 7 years; and (iii) Extensive: more than 7 years. In addition, for non-US taxable and non-US domiciled fixed income funds static duration breakpoints are used: (i) Limited: less than or equal to 3.5 years; (ii) Moderate: greater than 3.5 and less than equal to 6 years; (iii) Extensive: greater than 6 years.

## Fees and Expenses

Reflects the annualized expense ratio of a Fund based on net assets of the Fund and the Program as of the release date of the applicable Fund Profile and utilizing fee rates in effect as of such release date. All Fund performance is reported net of fees and expenses. The asset-based fees charged against each Fund accrue daily and vary in amount to some degree depending on asset levels of the Fund and the Program. Please refer to the Program Prospectus for a detailed breakdown of fees and expenses.

## Risks

As with any investment, you could lose money on your investment. The unit value of each Fund typically fluctuates daily based on changes in the value of the securities held by the Fund. The investment strategies that the Funds' investment advisors use may not produce the intended results. For detailed information about these risks, please refer to the Program Prospectus.

**Retirement Date Fund Risk:** Generally speaking, Retirement Date Funds target a certain date range for retirement, or the date the investor plans to start withdrawing money. Investors can select the Fund that corresponds to their anticipated retirement date. These Funds are designed to rebalance to a more conservative investment approach as the target date nears. An investment in a Retirement Date Fund is not guaranteed from investment loss at any time, including on or after the target date.

The Funds offered under the Collective Trust are not mutual funds and are not registered as investment companies under the Investment Company Act of 1940 and, therefore, are not subject to compliance with the requirements of such act or the protections afforded thereunder. **In addition, Units of the Funds are not deposits of or obligations of, or guaranteed or endorsed by, The Northern Trust Company, Northern Trust Investments, Inc., or any other bank, are not insured by the Federal Deposit Insurance Corporation, the Board of Governors of the Federal Reserve, or any other agency, and involve risks including the possible loss of principal.** Please review the Program Prospectus for more information regarding the Funds and the Program, including fees and expenses.

The Glossary of Terms set forth below contains definitions of, and additional information with respect to, the terms used herein and is an integral part hereof.

## GLOSSARY OF TERMS

**Annual Turnover Ratio:** Represents the frequency with which a Fund bought and sold securities in which it invests during the twelve month period ending on the release date of the Fund Profile. As the level of portfolio turnover increases, transaction expenses incurred by the Fund, such as brokerage commissions, increase, which may adversely affect the

# Disclosure

Fund's performance.

**Benchmark:** An index or other standard against which a Fund's performance is measured. A large capitalization U.S. stock fund's returns, for instance, are often compared with the investment record of large-capitalization U.S. domiciled issuers of the S&P 500 index.

**Capital appreciation:** An increase in the price of a security. This is one of the two primary sources of an investor's total return. The other primary source is income.

**Composition:** The types of securities held in a Fund's portfolio. A portfolio's composition will tell you something about its risk level. Funds that hold a large percentage of assets in cash or cash equivalents usually carry less risk because not all of their holdings are as exposed to market movements. The Portfolio Analysis pie chart can be used to determine how much of your investment consists of stocks, bonds and cash, including foreign stocks.

**Coupon:** A bond coupon refers to the periodic interest payments that a bond holder is entitled to receive for holding a bond.

**Credit Analysis:** For fixed-income Funds, credit analysis assesses the quality of the U.S. and non-U.S. bonds in a Fund's portfolio. Credit quality can influence the returns of portfolios that invest heavily in bonds. The Credit Analysis graph shows the respective percentage of Fund assets invested in securities rated in each of the major credit ratings categories, as determined by Standard & Poor's or Moody's (which are major credit rating agencies). The most highly rated bonds are rated AAA. Bonds with a BBB rating are in the lowest category that is still considered to be of investment grade. Bonds that are rated at or lower than BB (often called junk bonds or high-yield bonds) are considered to be quite speculative and more risky than higher-rated bonds. Any bonds that appear in the NR/NA category are either not rated by Standard & Poor's or Moody's or did not have a rating available as of the release date of this communication.

**Duration:** A measure of the sensitivity of the price (the value of principal) of a fixed-income security to a change in interest rates. Duration is expressed as a number of years. Rising interest rates generally lead to falling bond prices, while declining interest rates result in rising bond prices. The longer the duration, the greater the increase or decrease, as applicable, in a bond's price in response to interest rate changes.

**Equity:** Another term for stock, which is issued by a company and generally trades on an exchange.

**Growth:** There are two common uses of the word growth in the investment industry. In one sense, growth refers to an increase in a company's profits or sales. In the other sense, growth refers to a style of investing in which investment advisors seek to invest in firms with rapidly increasing profits or sales, often focusing less on the relative estimated enterprise or asset values as compared to the prices they pay for such stocks.

**Income:** Payment to an investor of a dividend on a stock or of interest on a bond. Income is one of the two primary

sources of total return, the other being capital appreciation.

**Index:** As a noun, index refers to a benchmark, such as the S&P 500 index, that is used to assess a Fund's performance. As a verb, index refers to the practice of buying and holding the securities that comprise an index, or securities that are representative of those comprising an index.

**Interest-rate risk:** Interest-rate risk represents vulnerability of a fixed-income security to changes to interest rates. When interest rates rise, the prices of bonds and other income-oriented securities tend to fall and vice versa. The longer the duration for a bond or average effective duration for a Fund, the greater its interest-rate risk.

**Investment Strategy:** Indicates a particular Fund's investment goals, as further described in the Program's Prospectus.

**Market capitalization:** The value of a company based on the current selling price of its stock and the number of shares it has issued. Market capitalization equals the number of shares outstanding multiplied by the share price.

Morningstar separates stock portfolio holdings into five market-capitalization groups: Giant, Large, Medium, Small and Micro. Of the 5,000 largest U.S. companies in Morningstar's equities database, the top 1% are categorized as Giant, the next 4% are Large, the next 15% are Medium, the next 30% are Small and the remaining 50% are Micro. Companies below the largest 5,000 are also classified as Micro.

For equity Funds, the average market capitalization of companies in a Fund's portfolio is also used to determine the vertical axis of the Morningstar Equity Style Box.

**Market risk:** The risk associated with general movements in the stock or bond market. Investments that are most sensitive to movements in these markets (as measured by  $r$ -squared and beta) are considered to have the greatest market risk, while investments that are least sensitive to movements in these markets are considered to have the least market risk.

**Maturity:** Maturity measures the average time period (in years) from a given date to the date on which bonds in a Fund's portfolio are due to be paid. A longer maturity indicates higher sensitivity to interest rate fluctuations.

**Net Asset Value (NAV):** A Fund's price per unit. The per unit dollar value of a Fund is calculated by dividing the total assets of all the holdings in its portfolio, less any liabilities, by the number of Fund units outstanding.

**Principal:** The face value of a bond that its owner is owed at maturity. The term also refers to the amount invested in a fund or security, independent of any earnings or losses on the investment.

**Real Estate Investment Trusts (REITs):** Companies that invest in multiple real-estate properties. REITs generally trade on major stock exchanges and are held by many mutual funds. The portfolios of certain Funds, including the Real Asset Return Fund and select Retirement Date Funds and Target Risk Funds, contain REITs. Any REITs in a Fund's

portfolio are included as U.S. stocks in the Portfolio Analysis module and are listed under Cyclical in the Morningstar Super Sectors module.

**Sector weightings:** For U.S. equity Funds, Morningstar determines the respective percentages of each Fund's assets that are allocated to each of the 11 major industrial sectors, and groups those sectors into three broader categories (Cyclical, Sensitive and Defensive). For Funds that invest in fixed income securities, Morningstar determines the respective percentages of each Fund's assets that are allocated to each of six categories (Government, Corporate, Securitized, Municipal, Cash and Other). The allocation to Cash in this module is based on the total fixed income market value of the Fund (as opposed to the Cash allocation in the Portfolio Analysis module, which is based on the value of the cash as a percentage of the total Fund). The allocation to Other in this module represents derivatives (as opposed to the Portfolio Analysis module, which includes derivatives in the Stocks or Bonds category, as appropriate).

Sector weightings provide another means of assessing the relative riskiness of different investment strategies. If a Fund's sector allocation is similar to the overall market (as measured by a broad market index such as the S&P 500 index) then the Fund likely follows a more conservative style. If the Fund heavily overweights or underweights individual sectors, then the Fund's strategy typically takes on more risk.

**Security:** This term can refer to any financial asset, including stocks, bonds, and some derivative instruments, the performance of which is derived from that of debt or equity securities.

**Standard deviation:** A statistical measure of the volatility of a Fund's returns.

**Top holdings:** A Fund's top holdings show which securities (stocks or bonds) are held in the largest concentrations and thus can be expected to have the most influence on the Fund's returns. The percentage of assets of the portfolio each holding represents provides an indication of the Fund's level of risk. For example, for an actively-managed equity Fund, more conservatively managed Funds will usually devote no more than 3% to 4% of the Fund's assets to a particular security, while more aggressively managed Funds may allocate 7%, 8%, or an even greater percentage of assets to a particular security. The total weighting of the top five holdings is also a measure of a Fund's risk taking policy. Funds that restrict the total amount of the top five holdings to 15% of assets or less are generally more conservative, while those that devote more than 25% may be considered more aggressive.

**Total Expense Ratio:** Reflects the annualized expense ratio of a Fund based on net assets of the Fund and the Program as of the release date of the applicable Fund Profile and utilizing fee rates in effect as of such release date. All Fund performance is reported net of fees and expenses. The asset-based fees charged against each Fund accrue daily and vary in amount to some degree depending on the asset levels of the Fund and the Program. Please refer to the Program Prospectus for a detailed breakdown of fees and expenses.

**Total Return:** The combined performance of a Fund, including distributed and undistributed capital appreciation or loss and interest or other income.

# Disclosure

**Volatility Analysis:** The Volatility Analysis graph indicates where a Fund's volatility ranks relative to the mutual fund universe. Various events, factors and conditions could materially affect performance and could materially change the volatility, risk and investment return characteristics of a Fund. Please refer to the strategy, investment guidelines and restrictions, and risk factors of a Fund as set forth in the Program Prospectus. The 'Summary of Funds' chart contained in the Program Prospectus, for instance, provides additional information on a Fund's risk to principal, estimated maturity or duration, primary source of potential return, and volatility of return, as applicable.

**Low Volatility:** A Fund with a low volatility measure has, in the past, shown a smaller range of price fluctuations relative to the mutual funds within the category. Consequently, a Fund so measured may appeal to investors looking for a more conservative investment strategy.

**Moderate Volatility:** A Fund with moderate volatility has, in the past, shown a relatively moderate range of price fluctuations relative to the mutual funds within the category. The Fund may experience larger or smaller price declines or price increases depending on market conditions.

**High Volatility:** A Fund with high volatility has, in the past, shown a wider range of price fluctuations relative to the mutual funds within the category. The Fund may experience significant price increases in favorable markets or be prone to experience larger price declines in adverse markets.

The volatility measure of a Fund is not displayed for Funds with fewer than three years of performance history.

**World Regions:** The World Regions chart presents the respective percentages of assets of an international Fund that are invested in various regions of the world. Regional exposure is an important variable in the relative returns of international Funds.

## PRINCIPAL RISKS

**Credit and Counterparty:** The issuer or guarantor of a fixed-income security, counterparty to an OTC derivatives contract or other borrower may not be able to make timely principal, interest or settlement payments on an obligation. In this event, the issuer of a fixed-income security may have their credit rating downgraded or default, which may reduce the potential for income and value of the portfolio.

**Derivatives:** Investments in derivatives may be subject to the risk that the advisor does not correctly predict the movement of the underlying security, interest rate, market index or other financial asset. Since derivatives usually involve a small investment relative to the magnitude of liquidity and other risks assumed, the resulting gain or loss from the transaction will be disproportionately magnified. These investments may result in a loss if the counterparty to the transaction does not perform as promised.

**Emerging Markets:** Assets invested in emerging market securities may be subject to a greater extent to market, credit, currency, liquidity, legal, political and other risks compared to assets invested in developed foreign countries.

**Equity Securities:** The value of equity securities, which include common, preferred and convertible preferred stocks, will fluctuate based on changes in their issuers' financial conditions as well as overall market and economic conditions, and can decline in the event of deteriorating issuer, market or economic conditions.

**Extension:** The issuer of a security may repay principal more slowly than expected due to rising interest rates. In this event, short and medium-duration securities are effectively converted into longer-duration securities, increasing their sensitivity to interest rate changes and causing their prices to decline.

**Fixed-Income Securities:** The value of assets invested in fixed-income or debt securities may be susceptible to general movements in the bond market and are subject to increased interest rate and credit risk.

**High-Yield Securities:** Assets invested in below-investment grade debt securities and unrated securities of similar credit quality, commonly known as 'junk bonds' or 'high yield securities,' may be subject to increased interest, credit and liquidity risk.

**Index Correlation/Tracking Error:** A portfolio that tracks an index is subject to the risk that certain factors may cause the portfolio to track its target index less closely, including if the advisor selects securities that are not fully representative of the index. The portfolio will generally reflect the performance of its target index even if the index does not perform well, and it may underperform the index after factoring in fees, expenses, transaction costs, and the size and timing of shareholder purchases and redemptions.

**Inflation/Deflation:** Inflation may cause the present value of future payments to decrease, causing a decline in the future value of assets or income. Deflation causes prices to decline throughout the economy over time, impacting issuers' creditworthiness and increasing their risk for default, which may reduce the value of the portfolio.

**Interest Rate:** Most securities are subject to the risk that changes in interest rates will reduce their market value.

**Investment-Grade Securities:** Investments in investment-grade debt securities that are not rated in the highest rating categories may lack the capacity to pay principal and interest compared with higher-rated securities and may be subject to increased credit risk.

**Real Estate/REIT Sector:** Concentrating assets in the real estate sector or REITs may disproportionately subject the Portfolio to the risks of that industry, including loss of value because of changes in real estate values, interest rates, and taxes, as well as changes in zoning, building, environmental, and other laws, among other factors. Investments in REITs may be subject to increased price volatility and liquidity risk, and shareholders indirectly bear their proportionate share of expenses because of their management fees.

**U.S. Government Obligations:** Assets invested in U.S. government obligations are subject to varying levels of government support. In the event of default, some U.S. government securities, including U.S. Treasury obligations and Ginnie Mae securities, are issued and guaranteed as to

principal and interest by the full faith and credit of the U.S. government. Other securities, including Fannie Mae and Freddie Mac, are obligations of U.S. government-sponsored entities but are neither issued nor guaranteed by the U.S. government.

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