

August 2023

QUALIFIED DEFAULT INVESTMENT ALTERNATIVE (QDIA) INITIAL NOTICE

Important information

You are receiving this notice to inform you how your contributions under the plan for University of Pennsylvania will be invested and how such contributions will continue to be invested if you do not provide or update your investment instructions.

How your contributions will be invested

The plan lets you invest your account in a number of different investment choices. If you do not choose a different investment option or options, your future contributions will be invested in the default investment option, as listed below. If the default investment option changes at any time in the future, you will be notified.

Plan name	Default investment option
The University of Pennsylvania Basic Plan	Age-based Vanguard Target Retirement Funds Trust

How you can change the way your contributions are being invested

You have the right to change the investment allocation of your account at any time. You can elect to direct the investment of your existing balances and future contributions to any of the plan's available investment options. This includes being able to transfer out of the plan's default option to another investment option available in the plan.

To change how your account is invested among the plan's offered investment choices, log in to your account at TIAA.org/upenn or contact TIAA at **800-842-2252**, weekdays, 8 a.m. to 10 p.m. (ET).

Please note

The enclosed fact sheets provide additional information about the default investment option, including the investment objectives and strategy, fund/account performance, risk and return characteristics, and fees and expenses. A list of the plan's available investment options and a copy of the prospectus or information statement for each fund is available at TIAA.org/upenn.

Distributions from tax-deferred plans before age 59½, severance from employment, death, or disability may be prohibited, limited, and/or subject to substantial tax penalties. Different restrictions may apply to other types of plans.

How to contact us

If you have questions or would like to obtain updated information on fee expenses, a more detailed explanation of the default option, or more information about the other investment options available under the plan, please visit TIAA.org/upenn or contact TIAA at **800-842-2252**. Financial consultants are available weekdays, 8 a.m. to 10 p.m. (ET).

Vanguard

Vanguard Target Retirement Trusts

Target Date

AS OF 9/6/2023

For more information please contact:

For more information please contact:

800-842-2888

Weekdays, 8 a.m. to 10 p.m. (ET),

or visit TIAA.org

What are Target-Date Funds?

Target-date funds (also commonly referred to as "lifecycle funds," "retirement funds" and "age-based funds") are managed based on the specific retirement year (target date) included in its name and assumes an estimated retirement age of approximately 65. In addition to age or retirement date, investors should consider factors such as their risk tolerance, personal circumstance and complete financial situation before choosing to invest in a target-date fund. These funds are generally designed for investors who expect to invest in a fund until they retire (the target date), and then begin making gradual systematic withdrawals afterward. There is no guarantee that an investment in a target-date fund will provide adequate retirement income, and investors can lose money at any stage of investment.

Years to Retirement	50	45	40	35	30	25	20	15	10	5	0	-20
Birth Year	-	-	-	-	-	-	-	-	-	-	-	-
Target Fund	Target Retirement 2070 Trust	Target Retirement 2065 Trust	Target Retirement 2060 Trust	Target Retirement 2055 Trust	Target Retirement 2050 Trust	Target Retirement 2045 Trust	Target Retirement 2040 Trust	Target Retirement 2035 Trust	Target Retirement 2030 Trust	Target Retirement 2025 Trust	Target Retirement 2020 Trust	Target Retirement Income Trust
Ticker	V70P#	V65P#	V60P#	V55P#	V50P#	V45P#	V40P#	V35P#	V30P#	V25P#	V20P#	VRIP#



Vanguard

Vanguard Target Retirement Trusts

Target Date

AS OF 9/6/2023

Investment Objective and Strategy

Vanguard Target Retirement Trusts Series uses an asset allocation strategies designed for investors planning to retire in a designated year. The trusts seek to provide growth of capital and current income consistent with its current target allocation by investing in a gradually more conservative mix of the following funds: Total Stock Market Index Fund, Total Bond Market II Index Fund, Total International Bond Index Fund, Short-Term Inflation-Protected Securities Index Fund, and Total International Stock Index Fund. Target Retirement Income Trust uses an asset allocation strategy designed for investors currently in retirement. The trust seeks to provide current income and some capital appreciation by investing in a mix of the following five funds: Total Bond Market II Index Fund, Total Stock Market Index Fund, Total International Bond Index Fund, Short-Term Inflation-Protected Securities Index Fund, and Total International Stock Index Fund.

Morningstar Rating

The Overall Morningstar Rating for a managed product is derived from a weighted average of the performance figures associated with its three-, five-, and 10-year (if applicable) Morningstar Rating metrics.

Performance

The returns quoted represent past performance, which is no guarantee of future results. Returns and the principal value of your investment will fluctuate. Current performance may be higher or lower than that shown, and you may have a gain or a loss when you redeem your mutual fund shares. For current performance information, including performance to the most recent month-end, call 800-842-2888. Performance may reflect waivers or reimbursements of certain expenses. Absent these waivers or reimbursement arrangements, performance may be lower.

	Target Retirement 2070 Trust ¹	Target Retirement 2065 Trust ¹	Target Retirement 2060 Trust ¹	Target Retirement 2055 Trust ¹	Target Retirement 2050 Trust ¹	Target Retirement 2045 Trust ¹	Target Retirement 2040 Trust ¹
Birth Year	-	-	-	-	-	-	-
Years to Retirement	50	45	40	35	30	25	20
Ticker	V70P#	V65P#	V60P#	V55P#	V50P#	V45P#	V40P#
Inception Date	09/06/2023	09/06/2023	09/06/2023	09/06/2023	09/06/2023	09/06/2023	09/06/2023
Underlying Fund Inception Date	-	-	-	-	-	-	-
Total Returns							
3-Month	-	-	-	-	-	-	-
YTD	-	-	-	-	-	-	-
Average Annual Total Returns							
1 Year	-	-	-	-	-	-	-
3-Year	-	-	-	-	-	-	-
5-Year	-	-	-	-	-	-	-
10-Year	-	-	-	-	-	-	-
Since Inception	-	-	-	-	-	-	-
Expenses							
Gross	0.0425%	0.0425%	0.0425%	0.0425%	0.0425%	0.0425%	0.0425%
Net	0.0425%	0.0425%	0.0425%	0.0425%	0.0425%	0.0425%	0.0425%
Waiver/Cap Expires	-	-	-	-	-	-	-
Morningstar Rating							
Overall	-	-	-	-	-	-	-
3 Years	-	-	-	-	-	-	-
5 Years	-	-	-	-	-	-	-
10 Years	-	-	-	-	-	-	-
Morningstar Category	Target-Date 2070+	Target-Date 2065	Target-Date 2060	Target-Date 2055	Target-Date 2050	Target-Date 2045	Target-Date 2040

Vanguard

Vanguard Target Retirement Trusts

Target Date

AS OF 9/6/2023

	Target Retirement 2035 Trust ¹	Target Retirement 2030 Trust ¹	Target Retirement 2025 Trust ¹	Target Retirement 2020 Trust ¹	Target Retirement Income Trust ¹
Birth Year	-	-	-	-	-
Years to Retirement	15	10	5	0	-20
Ticker	V35P#	V30P#	V25P#	V20P#	VRIP#
Inception Date	09/06/2023	09/06/2023	09/06/2023	09/06/2023	09/06/2023
Underlying Fund Inception Date	-	-	-	-	-
Total Returns					
3-Month	-	-	-	-	-
YTD	-	-	-	-	-
Average Annual Total Returns					
1 Year	-	-	-	-	-
3-Year	-	-	-	-	-
5-Year	-	-	-	-	-
10-Year	-	-	-	-	-
Since Inception	-	-	-	-	-
Expenses					
Gross	0.0425%	0.0425%	0.0425%	0.0425%	0.0425%
Net	0.0425%	0.0425%	0.0425%	0.0425%	0.0425%
Waiver/Cap Expires	-	-	-	-	-
Morningstar Rating					
Overall	-	-	-	-	-
3 Years	-	-	-	-	-
5 Years	-	-	-	-	-
10 Years	-	-	-	-	-
Morningstar Category	Target-Date 2035	Target-Date 2030	Target-Date 2025	Target-Date 2020	Target-Date Retirement

¹ Accumulations in mutual funds not managed by TIAA may be subject to administrative charges. These charges are subject to change. Please review current documents related to your plan.

The annual expense charge may include fees for the target-date fund and fees for the underlying funds; in general, target-date funds indirectly bear their pro rata share of the fees and expenses incurred by the underlying funds.

Vanguard

Vanguard Target Retirement Trusts

Target Date

AS OF 9/6/2023

Important Information

This material is for informational or educational purposes only and does not constitute investment advice under ERISA, a securities recommendation under federal securities laws, or an insurance product recommendation under state insurance laws or regulations. This material is intended to provide you with information to help you make informed decisions. You should not view or construe the availability of this information as a suggestion that you take or refrain from taking a particular course of action, as the advice of an impartial fiduciary, as an offer to sell or a solicitation to buy or hold any securities, as a recommendation of any securities transactions or investment strategy involving securities (including account recommendations), a recommendation to rollover or transfer assets to TIAA or a recommendation to purchase an insurance product. In making this information available to you, TIAA assumes that you are capable of evaluating the information and exercising independent judgment. As such, you should consider your other assets, income and investments and you should not rely on the information as the primary basis for making investment or insurance product purchase or contribution decisions. The information that you may derive from this material is for illustrative purposes only and is not individualized or based on your particular needs. This material does not take into account your specific objectives or circumstances, or suggest any specific course of action. Investment, insurance product purchase or contribution decisions should be made based on your own objectives and circumstances. The purpose of this material is not to predict future returns, but to be used as education only. Contact your tax advisor regarding the tax implications. You should read all associated disclosures.

Mutual funds are offered through your plan sponsor's retirement plan, which is recorded by TIAA. Funds are offered at that day's net asset value (NAV), and the performance is displayed accordingly. Performance at NAV does not reflect sales charges, which are waived through your retirement plan. If included, the sales charges would have reduced the performance quoted.

Investment, insurance and annuity products are not FDIC insured, are not bank guaranteed, are not deposits, are not insured by any federal government agency, are not a condition to any banking service or activity and may lose value.

TIAA-CREF Individual & Institutional Services, LLC, Member FINRA and SIPC, distributes securities products. You should consider the investment objectives, risks, charges and expenses carefully before investing. Please call 877-548-9161 for contract and underlying fund prospectuses that contain this and other information. Please read the prospectuses carefully before investing.

Morningstar Disclosure

Data Provided by Morningstar, Inc. ©2023 Morningstar, Inc. All Rights Reserved. The information contained herein: (1) is proprietary to Morningstar and/or its content providers; (2) may not be copied or distributed; and (3) is not warranted to be accurate, complete or timely. Neither Morningstar nor its content providers are responsible for any damages or losses arising from any use of this information. Neither TIAA nor its affiliates has independently verified the accuracy or completeness of this information.

The Morningstar Category classifies a fund based on its investment style as measured by underlying portfolio holdings (portfolio statistics and compositions over the past three years). If the fund is new and has no portfolio, Morningstar estimates where it will fall before assigning a more permanent category. When necessary, Morningstar may change a category assignment based on current information.

The Morningstar Rating™ – or “star rating” – is calculated for managed products (including mutual funds, variable annuity and variable life subaccounts, exchange-traded funds, closed-end funds and separate accounts) with at least a three-year history. Exchange-traded funds and open-ended mutual funds are considered a single population for comparative purposes. The rating is calculated based on a Morningstar Risk-Adjusted Return measure that accounts for variation in a managed product's monthly excess performance, placing more emphasis on downward variations and rewarding consistent performance. The top 10% of products in each product category receive 5 stars, the next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% receive 2 stars, and the bottom 10% receive 1 star. The weights are: 100% three-year rating for 36-59 months of total returns, 60% five-year rating/40% three-year rating for 60-119 months of total returns, and 50% 10-year rating/30% five-year rating/20% three-year rating for 120 or more months of total returns. While the 10-year overall star rating formula seems to give the most weight to the 10-year period, the most recent three-year period actually has the greatest impact because it is included in all three rating periods. Where applicable, ratings are based on linked performance that considers the differences in expense ratios. The Morningstar Rating™ is for individual share classes only. Other classes may have different performance characteristics.

Vanguard

Vanguard Target Retirement Trusts

Target Date

AS OF 9/6/2023

A Note About Risks

Target-date mutual funds share the risks associated with the types of securities held by each of the underlying funds in which they invest. **As with all mutual funds, the principal value isn't guaranteed. Also, please note that the target date is an approximate date when investors may begin withdrawing from the fund. Target-date mutual funds are actively managed, so their asset allocations are subject to change and may vary from those shown. After the target date has been reached, some of these funds may be merged into a fund with a more stable asset allocation.** An investment in a target-date mutual fund is subject to various types of investment risk, which may include but is not limited to:

Active Management Risk, the risk that a fund may underperform because of the allocation decisions or individual security selections of its portfolio manager; **Asset Allocation Risk**, the risk that the selection of investments and the allocation among them will result in the fund's underperformance versus similar funds or will cause an investor to lose money; **Call Risk**, the risk that, during periods of declining interest rates, an issuer of a bond may "call" (i.e., redeem) a bond prior to maturity, and the associated risk that bondholders will be reinvesting the proceeds at a lower interest rate; **Company Risk**, the risk that the financial condition of a company may deteriorate, causing a decline in the value of the securities it issues; **Credit Risk**, the risk that an issuer of bonds may default; **Current Income Risk**, the risk that the income a fund receives may unexpectedly fall as a result of a decline in interest rates; **Emerging Markets Risk**, the risk that securities issued in developing markets, where there is greater potential for political, currency and economic volatility, may be less liquid than those issued in more developed countries and foreign investors in these markets may be subject to special restrictions which could have an adverse impact on performance; **Extension Risk**, the risk that a security's duration will lengthen, due to a decrease in prepayments caused by rising interest rates; **Foreign Investment Risk**, the risk that securities of foreign issuers may lose value because of erratic market conditions, economic and political instability or fluctuations in currency exchange rates, which may be magnified in emerging markets; **Growth Investing Risk**, the risk that, due to their relatively high valuations which are generally a function of expected earnings growth, growth stocks will be more volatile than value stocks and such earnings growth may not occur or be sustained; **Income Volatility Risk**, the risk that the income from a portfolio of securities may decline in certain interest rate environments; **Index Risk**, the risk that a fund's performance may not match that of its benchmark index; **Interest Rate Risk**, the risk that interest payments of debt securities may become less competitive during periods of rising interest rates and declining bond prices; **Large-Cap Risk**, the risk that large companies may grow more slowly than the overall market; **Liquidity Risk**, the risk that illiquid securities may be difficult to sell at their fair market value; **Market Risk**, the risk that the price of securities may fall in response to economic conditions; **Mid-Cap Risk**, the risk that stocks of mid-capitalization companies may have greater price volatility, lower trading volume and less liquidity than the stocks of larger, more established companies; **Prepayment Risk**, the risk associated with the early unscheduled return of principal on fixed-income investments, such as mortgage-backed securities; **Risks of Inflation-Indexed Bonds**, the risks that interest payments on inflation-indexed bonds may decline because of a change in inflation (or deflation) expectations; **Small-Cap Risk**, the risk that the securities of small companies may be more volatile than those of larger ones, and they are also often less liquid than those of larger companies because there is a limited market for small-cap securities; **Style Risk**, the risk that a fund's investing style may/lose favor in the marketplace.

In addition, target-date mutual funds are subject to the risk that they may be unable to invest according to their target allocations due to changes in the value of their underlying investments. For a detailed discussion of risk, please consult the prospectus.