



# UNIVERSITY OF COLORADO SERP-POST 07/15

## /15

### Investment Performance as of 9/30/2023

The performance data quoted represents past performance, and is no guarantee of future results. Your returns and the principal value of your investment will fluctuate so that your mutual fund shares and annuity account accumulation units, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than the performance quoted. For performance current to the most recent month-end, call 800-842-2252 or visit [TIAA.org/planinvestmentoptions](https://TIAA.org/planinvestmentoptions) and enter your plan ID. Performance may reflect waivers or reimbursements of certain expenses. Absent these waivers or reimbursement arrangements, performance results would have been lower. Since Inception performance shown is cumulative for periods less than one year.

### Tier 1 - Target Date Funds

Multi Asset - Mutual Fund	Morningstar Category	Inception Date	Total Returns		Average Annual Total Returns				Total Annual Operating Expenses (%/Per \$1000)		Fee Waiver Expiration	Shareholder Fees & Restrictions*
			3 Month	YTD	1 Year	3 Year	5 Year	10 Year/ Since Inception	Gross	Net		
TIAA-CREF Lifecycle Index 2010 Fund (Institutional) (TLFIX) <sup>1,2</sup>	Target-Date 2000-2010	09/30/09	-2.57%	3.67%	8.47%	0.82%	3.44%	4.58%	0.22%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2010 Fund Composite Index			-2.53%	3.53%	8.51%	0.88%	3.51%	4.67%				
Benchmark: S&P Target Date 2010 TR USD			-2.62%	3.14%	8.30%	1.03%	3.09%	4.09%				
TIAA-CREF Lifecycle Index 2015 Fund (Institutional) (TLFIX) <sup>1,2</sup>	Target-Date 2015	09/30/09	-2.79%	4.01%	9.37%	1.21%	3.71%	4.95%	0.20%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2015 Fund Composite Index			-2.71%	3.95%	9.41%	1.29%	3.78%	5.03%				
Benchmark: S&P Target Date 2015 TR USD			-2.66%	3.44%	8.81%	1.57%	3.32%	4.58%				

Investment products, 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.

Multi Asset - Mutual Fund	Morningstar Category	Inception Date	Total Returns		Average Annual Total Returns				Total Annual Operating Expenses (%/Per \$1000)		Fee Waiver Expiration	Shareholder Fees & Restrictions*
			3 Month	YTD	1 Year	3 Year	5 Year	10 Year/ Since Inception	Gross	Net		
TIAA-CREF Lifecycle Index 2020 Fund (Institutional) (TLWIX) <sup>1,2</sup>	Target-Date 2020	09/30/09	-2.96%	4.42%	10.25%	1.63%	3.95%	5.38%	0.19%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2020 Fund Composite Index			-2.84%	4.40%	10.33%	1.72%	4.04%	5.47%				
Benchmark: S&P Target Date 2020 TR USD			-2.73%	3.96%	9.96%	1.91%	3.44%	4.95%				
TIAA-CREF Lifecycle Index 2025 Fund (Institutional) (TLQIX) <sup>1,2</sup>	Target-Date 2025	09/30/09	-3.09%	5.08%	11.50%	2.36%	4.38%	5.95%	0.18%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2025 Fund Composite Index			-2.97%	5.02%	11.57%	2.45%	4.46%	6.03%				
Benchmark: S&P Target Date 2025 TR USD			-2.80%	4.35%	10.97%	3.03%	4.02%	5.56%				
TIAA-CREF Lifecycle Index 2030 Fund (Institutional) (TLHIX) <sup>1,2</sup>	Target-Date 2030	09/30/09	-3.24%	5.84%	13.08%	3.17%	4.85%	6.53%	0.18%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2030 Fund Composite Index			-3.11%	5.81%	13.12%	3.26%	4.91%	6.61%				
Benchmark: S&P Target Date 2030 TR USD			-2.98%	5.30%	12.96%	4.08%	4.51%	6.14%				
TIAA-CREF Lifecycle Index 2035 Fund (Institutional) (TLYIX) <sup>1,2</sup>	Target-Date 2035	09/30/09	-3.41%	6.79%	15.00%	4.06%	5.33%	7.10%	0.17%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2035 Fund Composite Index			-3.25%	6.81%	15.10%	4.18%	5.42%	7.20%				
Benchmark: S&P Target Date 2035 TR USD			-3.14%	6.34%	15.18%	5.24%	5.07%	6.72%				
TIAA-CREF Lifecycle Index 2040 Fund (Institutional) (TLZIX) <sup>1,2</sup>	Target-Date 2040	09/30/09	-3.55%	7.80%	17.02%	5.11%	5.87%	7.68%	0.17%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2040 Fund Composite Index			-3.36%	7.88%	17.11%	5.24%	5.95%	7.77%				
Benchmark: S&P Target Date 2040 TR USD			-3.23%	7.23%	17.06%	6.16%	5.53%	7.15%				
TIAA-CREF Lifecycle Index 2045 Fund (Institutional) (TLXIX) <sup>1,2</sup>	Target-Date 2045	09/30/09	-3.57%	8.50%	18.31%	5.99%	6.33%	8.05%	0.17%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2045 Fund Composite Index			-3.38%	8.58%	18.37%	6.12%	6.41%	8.15%				
Benchmark: S&P Target Date 2045 TR USD			-3.33%	7.79%	18.32%	6.72%	5.81%	7.41%				

Multi Asset - Mutual Fund	Morningstar Category	Inception Date	Total Returns		Average Annual Total Returns				Total Annual Operating Expenses (%/Per \$1000)		Fee Waiver Expiration	Shareholder Fees & Restrictions*
			3 Month	YTD	1 Year	3 Year	5 Year	10 Year/ Since Inception	Gross	Net		
TIAA-CREF Lifecycle Index 2050 Fund (Institutional) (TLLIX) <sup>1,2</sup>	Target-Date 2050	09/30/09	-3.59%	8.78%	18.86%	6.21%	6.44%	8.17%	0.17%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2050 Fund Composite Index			-3.39%	8.89%	18.92%	6.33%	6.51%	8.26%				
Benchmark: S&P Target Date 2050 TR USD			-3.36%	8.03%	18.84%	7.01%	5.93%	7.60%				
TIAA-CREF Lifecycle Index 2055 Fund (Institutional) (TIIIX) <sup>1,2</sup>	Target-Date 2055	04/29/11	-3.62%	8.91%	19.14%	6.35%	6.50%	8.25%	0.18%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2055 Fund Composite Index			-3.39%	9.03%	19.18%	6.49%	6.59%	8.35%				
Benchmark: S&P Target Date 2055 TR USD			-3.36%	8.04%	18.97%	7.12%	5.98%	7.68%				
TIAA-CREF Lifecycle Index 2060 Fund (Institutional) (TVIIX) <sup>1,2</sup>	Target-Date 2060	09/26/14	-3.59%	9.00%	19.34%	6.51%	6.57%	7.80%	0.19%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2060 Fund Composite Index			-3.40%	9.17%	19.45%	6.64%	6.66%	7.89%				
Benchmark: S&P Target Date 2060 TR USD			-3.37%	8.14%	19.09%	7.10%	6.00%	7.23%				
TIAA-CREF Lifecycle Index 2065 Fund (Institutional) (TFITX) <sup>1,2</sup>	Target-Date 2065+	09/30/20	-3.52%	9.20%	19.66%	6.74%	-	6.74%	0.82%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index 2065 Fund Composite Index			-3.40%	9.32%	19.71%	6.80%	-	6.80%				
Benchmark: S&P Target Date 2065+ TR USD			-3.37%	8.16%	19.00%	7.16%	-	7.16%				
TIAA-CREF Lifecycle Index Retirement Income Fund (Institutional) (TRILX) <sup>2</sup>	Moderately Conservative Allocation	09/30/09	-2.75%	3.78%	8.84%	0.82%	3.48%	4.44%	0.22%	0.10%	09/30/23	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Lifecycle Index Retirement Income Fund Composite Index			-2.66%	3.72%	8.92%	0.92%	3.56%	4.52%				
Benchmark: S&P Target Date Retirement Income TR USD			-2.61%	2.75%	7.38%	0.22%	2.59%	3.48%				

## Tier 2 - Core Investment Menu

Equities - Mutual Fund	Morningstar Category	Inception Date	Total Returns		Average Annual Total Returns				Total Annual Operating Expenses (%/Per \$1000)		Fee Waiver Expiration	Shareholder Fees & Restrictions*
			3 Month	YTD	1 Year	3 Year	5 Year	10 Year/ Since Inception	Gross	Net		
TIAA-CREF S&P 500 Index Fund (Institutional) (TISPX) <sup>2</sup>	Large Blend	10/01/02	-3.29%	13.02%	21.54%	10.09%	9.87%	11.85%	0.05%	0.05%	02/29/24	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: S&P 500 TR USD			-3.27%	13.07%	21.62%	10.15%	9.92%	11.91%	\$0.50	\$0.50		
Vanguard FTSE Social Index Fund Institutional Shares (VFTNX) <sup>3,4</sup>	Large Blend	01/14/03	-3.50%	16.42%	22.43%	8.20%	10.00%	12.27%	0.12%	0.12%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Russell 1000 TR USD			-3.15%	13.01%	21.19%	9.53%	9.63%	11.63%	\$1.20	\$1.20		

Real Estate - Variable Annuity	Morningstar Category	Inception Date	Total Returns		Average Annual Total Returns				Total Annual Operating Expenses (%/Per \$1000)		Fee Waiver Expiration	Shareholder Fees & Restrictions*
			3 Month	YTD	1 Year	3 Year	5 Year	10 Year/ Since Inception	Gross	Net		
TIAA Real Estate Account (QREARX) <sup>5,6,7</sup>	Real Estate	10/02/95	-2.47%	-9.19%	-12.37%	5.22%	4.11%	5.57%	0.87%	0.87%	-	Transfers out: Limit 1 per quarter. Limitations may apply to any transaction resulting in a balance > \$150,000.
									\$8.70	\$8.70		

Guaranteed - Fixed Annuity	Inception Date	Total Returns		Average Annual Total Returns				Current Rates		
		3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Rate	Guaranteed Minimum Rate
TIAA Traditional Annuity - Retirement Choice Plus <sup>8,9,10</sup>	06/01/06	1.03%	2.98%	3.90%	3.34%	3.31%	3.40%	3.60%	6.00%	2.40%

### Additional Information:

The current rate shown applies to premiums remitted during the month of October 2023 and will be credited through 2/29/2024. This rate is subject to change in subsequent months. Up-to-date rate of return information is available on your plan-specific website noted above or at 800-842-2733. TIAA Traditional guarantees your principal and a minimum annual interest rate. The current guaranteed minimum interest rate is 2.40% for premiums remitted in March 2023 through February 2024, and is effective through February 2024. The account also offers the opportunity for additional amounts in excess of the minimum interest rate. When declared, additional amounts remain in effect for the twelve-month period that begins each March 1 for accumulating annuities and January 1 for payout annuities. Additional amounts are not guaranteed for the future years. All guarantees are subject to TIAA's claims paying ability. For Retirement Choice Plus (RCP) contracts, and subject to the terms of your employer's plan, lump-sum withdrawals and transfers are available from the TIAA Traditional account without any surrender charges. For certain RCP contracts, any transfer from TIAA Traditional to a competing fund must first be directed to a non-competing fund for a period of 90 days. After 90 days, transfers may be made to a competing fund, including transferring back to TIAA Traditional. (TIAA Contract form IGRSP-02-ACC/TIAA Certificate form IGRSP-CERT3-ACC). After termination of employment additional income options may be available including income for life and IRS required minimum distribution payments. The Contractholder (typically your employer as the sponsor of your plan) has the right to remove TIAA Traditional as a plan option. If elected, the contract's entire TIAA Traditional accumulation will be paid out in 60 monthly installments, without any surrender charge and will be reinvested at the direction of your plan sponsor. Please refer to your contract certificate for additional details.

## A Note About Risk

Equity risk refers to the risk of loss due to the market price of shares falling. Equity funds and variable annuity accounts generally carry a higher degree of risk than fixed income funds and accounts. Fixed income funds and variable annuity accounts are not guaranteed and are subject to interest rate, inflation and credit risks.

Variable annuity accounts that invest in real estate securities are subject to various risks, including fluctuation in property values, higher expenses or lower income than expected, and potential environmental problems and liability.

Guaranteed investments offer a guaranteed rate of return but such guarantees are subject to the claims-paying ability of the issuing insurance company.

More detailed information on risks applicable to a particular investment option can be found in the prospectus or other product literature.

## Fees and Expenses

\*Some Plans may allocate plan costs to participants to offset the cost of recordkeeping and other plan services. When the Plan allocates these costs at the investment-level there may be a plan services fee or credit displayed in the "Shareholder fees & restrictions" column. If the costs are allocated at the plan-level (regardless of investment) it is not displayed on the Quarterly Investment Update.

Fee and expense information for the variable return investment options include the Total Annual Operating Expenses expressed as a percentage and a dollar amount based upon a \$1,000 accumulation both as net (after) and gross (before) of expenses. Total Annual Operating Expenses is a measure of what it costs to operate an investment, expressed as a percentage of its assets, as a dollar amount or in basis points. These are costs the investor pays through a reduction in the investment's rate of return. Expense information shown is based on the most recent information available, but may not reflect all updates and may differ slightly from the prospectus due to rounding. Please consult the most recent prospectus or offering document for more detailed information.

For more information on the impact of fees and expenses associated with your plan, please visit [TIAA.org/fees](http://TIAA.org/fees). Fees are only one of many factors to consider when making an investment decision.

## About the Benchmark

A benchmark provides an investor with a point of reference to evaluate an investment's performance. One common type of benchmark used to compare investment performance is called an index. Indexes are unmanaged portfolios of securities designed to track the performance of a particular segment of the market. For example, a large cap stock fund or account will usually be compared to an index that tracks a portfolio of large-cap stocks. Conversely, a bond fund or account is typically compared to an index that tracks a portfolio of bonds that is comparable to the fund or account's portfolio in terms of credit quality, maturity and liquidity. Each mutual fund or account shown in the table includes performance information for an index that the advisor determined provides a fair comparison of the fund or account's investment performance. Indexes are for comparison purposes only. You cannot invest directly in any index. Index returns do not reflect a deduction for fees or expenses.

## Data Providers

Unless otherwise noted, data on nonproprietary investment products, including performance, Morningstar Category and expenses, is provided by Morningstar, Inc. All other data provided by Teachers Insurance and Annuity Association of America - College Retirement Equities Fund. Benchmark performance shown across proprietary and nonproprietary funds/accounts is provided by TIAA with the exception of Since Inception periods calculated using a nonproprietary fund's inception date. TIAA reserves the rights to all proprietary data herein, and is not responsible for any damages or losses arising from any use of this information.

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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.

## Important Information

1 As Target Retirement Date Funds are actively managed, their asset allocations are subject to change and may vary from those indicated. They invest in many underlying funds and are exposed to the risks of different areas of the market. Please note that, as with all mutual funds, the principal value of a Target Retirement Date Fund is not guaranteed. The higher a fund's allocation to stocks, the greater the risk. After the target date has been reached, some of these funds may be merged into a fund with a more stable asset allocation. In addition to the fund level expenses these funds are also subject to the expenses of their underlying investments. Please consult the prospectus for more complete information.

2 The net expense ratio reflects a contractual arrangement that has the effect of reducing or limiting the fund's expenses. Without such an arrangement, currently or in the past, returns would have been lower. The arrangement will remain in effect until terminated. Please see the prospectus for details.

3 Accumulations in 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.

4 The index shown is for comparative purposes only, and may not match other websites or publications.

5 The Account's total annual expense deduction appears in the Account's prospectus, and may be different than that shown herein due to rounding. Please refer to the prospectus for further details.

6 Funds that focus their investments in real estate are subject to the risks associated with real estate ownership, including fluctuations in property values, higher expenses or lower income than expected, and potential environmental problems and liability.

7 The total annual expense deduction, which includes investment management, administration, and distribution expenses, mortality and expense risk charges, and the liquidity guarantee, is estimated each year based on projected expense and asset levels. Differences between actual expenses and the estimate are adjusted quarterly and are reflected in current investment results. Historically, adjustments have been small.

8 The TIAA Traditional Annuity guarantees principal and a specified interest rate (based on TIAA's claims paying ability). It also offers the potential for greater growth through additional amounts, which may be declared on a year-by-year basis by the TIAA Board of Trustees. These additional amounts, when declared, remain in effect for the "declaration year" which begins each March 1. Additional amounts are not guaranteed. For more up to date information please visit your employer's microsite or [TIAA.org](http://TIAA.org). TIAA Traditional is a guaranteed insurance contract and not an investment for federal securities law purposes.

9 Accumulations are credited with interest based on when contributions and transfers are received, and your performance will reflect your pattern of contributions. The returns shown in the table reasonably represent what an individual making level monthly premiums would have historically earned over the time periods. Returns for different time periods are calculated in two steps: monthly performance returns are calculated from an accumulation created by a series of level monthly premiums over the prior 10 years (or the inception date of the product if later), and those monthly returns are linked together to determine historical performance for each of the return periods shown.

10 The Current Rates, Minimum Guaranteed Rates and Fees (if applicable) shown for guaranteed annuities are the rates in effect as of the first day of the month following quarter end. Depending upon the contract, these may apply to new money only or to both new money and existing accumulations. See your annuity contract or certificate for details.







BUILT TO PERFORM.

CREATED TO SERVE.

Mutual funds are offered through your plan sponsor's retirement plan, which is recordkept 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 as quoted.

**Before making your investment choices and completing your enrollment form, you should consider the investment objectives, risks, charges and expenses carefully. Please call 877-518-9161 for paper copies of the product and fund prospectuses that contain this and other information. Please read the prospectuses carefully before investing.**

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