



MNSCU SUPPLEMENTAL RETIREMENT PLAN

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://www.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.

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		
American Funds EuroPacific Growth Fund Class R-6 (RERGX) ^{1,2,3}	Foreign Large Growth	05/01/09	-6.33%	5.15%	19.64%	0.08%	3.11%	4.64%	0.47%	0.47%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: MSCI ACWI Ex USA NR USD			-3.77%	5.34%	20.39%	3.74%	2.58%	3.35%				
ClearBridge Value Trust Class I (LMNVX) ^{1,4,5}	Large Value	12/01/94	-1.07%	7.91%	21.74%	17.87%	9.29%	9.71%	0.80%	0.79%	12/31/24	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Russell 1000 Value TR USD			-3.16%	1.79%	14.44%	11.05%	6.23%	8.45%				
DFA U.S. Targeted Value Portfolio Institutional Class (DFFVX) ^{1,4,6,7}	Small Value	02/23/00	-1.22%	4.30%	17.47%	22.39%	6.84%	8.26%	0.29%	0.29%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Russell 2000 Value TR USD			-2.96%	-0.53%	7.84%	13.32%	2.59%	6.19%				

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.

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		
Meridian Small Cap Growth Fund Institutional Class (MSGRX) ^{1,2,6}	Small Growth	12/24/14	-10.21%	0.46%	7.93%	1.61%	0.77%	6.55%	1.09%	1.09%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Redemption Fee: 2.00% if held < 60 days
Benchmark: Russell 2000 Growth TR USD			-7.32%	5.24%	9.59%	1.09%	1.55%	6.05%				
Royce Pennsylvania Mutual Fund Investment Class (PENNX) ^{1,6}	Small Blend	10/31/72	-2.73%	12.22%	23.72%	13.04%	6.01%	7.69%	0.96%	0.96%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Redemption Fee: 1.00% if held < 180 days
Benchmark: Russell 2000 TR USD			-5.13%	2.54%	8.93%	7.16%	2.40%	6.65%				
T. Rowe Price International Value Equity Fund (TRIGX) ^{1,3,4}	Foreign Large Value	12/21/98	-1.86%	9.63%	31.55%	10.77%	3.64%	3.08%	0.89%	0.89%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Redemption Fee: 2.00% if held < 90 days
Benchmark: MSCI EAFE NR USD			-4.11%	7.08%	25.65%	5.75%	3.24%	3.82%				
T. Rowe Price Large-Cap Growth Fund I Class (TRLGX) ^{1,2}	Large Growth	10/31/01	-2.00%	27.96%	27.73%	4.92%	9.81%	13.83%	0.55%	0.55%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Russell 1000 Growth TR USD			-3.13%	24.98%	27.72%	7.97%	12.42%	14.48%				
T. Rowe Price Large-Cap Value Fund I Class (TILCX) ^{1,4}	Large Value	03/31/00	-3.18%	-1.40%	10.55%	12.56%	6.26%	8.60%	0.56%	0.56%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Russell 1000 Value TR USD			-3.16%	1.79%	14.44%	11.05%	6.23%	8.45%				
Vanguard Extended Market Index Fund Institutional Plus Shares (VEMPX) ^{1,6}	Mid-Cap Blend	01/14/11	-3.34%	8.93%	14.50%	4.72%	4.54%	7.94%	0.04%	0.04%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: S&P Completion TR USD			-3.38%	8.76%	14.28%	4.58%	4.40%	7.80%				
Vanguard FTSE All-World ex-US Index Fund Institutional Shares (VFWSX) ^{1,3,8}	Foreign Large Blend	04/30/07	-4.09%	5.14%	20.79%	3.95%	2.90%	3.66%	0.09%	0.09%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: MSCI ACWI Ex USA NR USD			-3.77%	5.34%	20.39%	3.74%	2.58%	3.35%				
Vanguard FTSE Social Index Fund Admiral (VFTAX) ^{1,8}	Large Blend	02/07/19	-3.52%	16.43%	22.43%	8.17%	-	12.22%	0.14%	0.14%	-	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%	-	11.98%				

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		
Vanguard Institutional Index Fund Institutional Plus Shares (VIIIX) ¹	Large Blend	07/07/97	-3.27%	13.05%	21.60%	10.13%	9.90%	11.90%	0.02%	0.02%	-	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%				
Vanguard Institutional Index Fund Institutional Shares (VINIX) ¹	Large Blend	07/31/90	-3.28%	13.04%	21.58%	10.12%	9.89%	11.88%	0.04%	0.04%	-	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%				
Vanguard Mid-Cap Index Fund Admiral Shares (VIMAX) ^{1,6}	Mid-Cap Blend	11/12/01	-5.07%	3.30%	12.61%	7.26%	6.49%	9.05%	0.05%	0.05%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: CRSP US Mid Cap TR USD			-5.06%	3.30%	12.63%	7.28%	6.51%	9.08%				
Vanguard Small-Cap Index Fund Admiral Shares (VSMAX) ^{1,6}	Small Blend	11/13/00	-4.61%	4.22%	12.53%	8.71%	4.60%	7.99%	0.05%	0.05%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: CRSP US Small Cap TR USD			-4.64%	4.12%	12.40%	8.66%	4.57%	7.96%				
Vanguard Strategic Equity Fund Investor Shares (VSEQX) ^{1,5,8}	Mid-Cap Blend	08/14/95	-4.15%	5.03%	16.99%	13.82%	6.38%	9.56%	0.17%	0.17%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Russell Mid Cap TR USD			-4.68%	3.91%	13.45%	8.09%	6.38%	8.98%				

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) ^{9,10,11}	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.

Fixed Income - Mutual Fund	Morningstar Category	Inception Date	Total Returns		Average Annual Total Returns			10 Year/ Since Inception	Total Annual Operating Expenses (%/Per \$1000)		Fee Waiver Expiration	Shareholder Fees & Restrictions*
			3 Month	YTD	1 Year	3 Year	5 Year		Gross	Net		
PIMCO Total Return Fund Institutional Class (PTTRX) ¹	Intermediate Core-Plus Bond	05/11/87	-2.79%	-0.59%	1.17%	-5.06%	0.24%	1.25%	0.49%	0.49%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Bloomberg US Aggregate Bond TR USD			-3.23%	-1.21%	0.64%	-5.21%	0.10%	1.13%				
Vanguard Inflation-Protected Securities Fund Institutional Shares (VIPIX) ¹	Inflation-Protected Bond	12/12/03	-2.57%	-0.75%	1.05%	-2.04%	2.02%	1.67%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Bloomberg US Treasury US TIPS TR USD			-2.60%	-0.78%	1.25%	-1.98%	2.12%	1.74%				
Vanguard Total Bond Market Index Fund Admiral Shares (VBTX) ¹	Intermediate Core Bond	11/12/01	-3.09%	-0.93%	0.73%	-5.21%	0.13%	1.11%	0.05%	0.05%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Bloomberg US Aggregate Float Adjusted TR USD			-3.11%	-1.06%	0.78%	-5.18%	0.18%	1.16%				
Vanguard Total Bond Market Index Fund Institutional Plus Shares (VBMPX) ¹	Intermediate Core Bond	02/05/10	-3.08%	-0.91%	0.75%	-5.19%	0.15%	1.13%	0.03%	0.03%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Bloomberg US Aggregate Float Adjusted TR USD			-3.11%	-1.06%	0.78%	-5.18%	0.18%	1.16%				
Western Asset Core Plus Bond Fund Class I (WACPX) ^{1,5}	Intermediate Core-Plus Bond	07/08/98	-5.27%	-2.39%	0.77%	-7.08%	-0.74%	1.45%	0.53%	0.45%	12/31/24	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Bloomberg US Aggregate Bond TR USD			-3.23%	-1.21%	0.64%	-5.21%	0.10%	1.13%				

Other - Non-Registered	Morningstar Category	Inception Date	Total Returns		Average Annual Total Returns			10 Year/ Since Inception	Total Annual Operating Expenses (%/Per \$1000)		Fee Waiver Expiration	Shareholder Fees & Restrictions*
			3 Month	YTD	1 Year	3 Year	5 Year		Gross	Net		
Galliard Stable Return Fund C ^{1,12}	Stable Value	06/01/06	0.68%	1.94%	2.53%	2.04%	2.10%	1.80%	0.37%	0.37%	-	Equity Wash: No transfers to Competing Funds for 90 days.
Benchmark: ICE BofA 1-3 Year US Treasury TR USD			0.74%	1.72%	2.47%	-0.84%	1.06%	0.81%				

Multi Asset - 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		
CREF Social Choice Account (R3) (QCSCIX) ^{9,13,14}	Moderate Allocation	03/01/90	-3.57%	4.47%	12.27%	2.84%	4.78%	5.94%	0.21%	0.21%	-	Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.
Benchmark: Morningstar Moderate Target Risk TR USD			-3.29%	3.40%	11.43%	2.30%	3.98%	5.24%				
Benchmark: CREF Social Choice Account Composite Index			-3.37%	5.87%	12.99%	3.03%	4.84%	6.17%				
CREF Social Choice Account (R4) (QSCCFX) ^{9,13,15}	Moderate Allocation	09/16/22 03/01/90	-3.53%	4.59%	12.44%	2.90%	4.82%	5.96%	0.07%	0.07%	-	Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.
Benchmark: Morningstar Moderate Target Risk TR USD			-3.29%	3.40%	11.43%	2.30%	3.98%	5.24%				
Benchmark: CREF Social Choice Account Composite Index			-3.37%	5.87%	12.99%	3.03%	4.84%	6.17%				

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		
Dodge & Cox Balanced Fund Class I (DODBX) ¹	Moderate Allocation	06/26/31	0.00%	5.63%	15.32%	10.15%	6.65%	8.02%	0.52%	0.52%	-	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%				
Vanguard Balanced Index Fund Institutional Shares (VBAIX) ^{1,8}	Moderate Allocation	12/01/00	-3.21%	6.91%	12.15%	3.42%	5.76%	7.33%	0.06%	0.06%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Moderate Target Risk TR USD			-3.29%	3.40%	11.43%	2.30%	3.98%	5.24%				

Multi Asset - Non-Registered	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		
Vanguard Target Ret Inc and Growth Trust I ¹	Target-Date Retirement	09/28/21	-2.87%	4.94%	10.84%	-	-	-3.53%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Russell 1000 Growth TR USD			-3.13%	24.98%	27.72%	-	-	-				
Vanguard Target Retire 2020 Trust I ¹¹⁶	Target-Date 2020	06/22/07	-2.64%	4.20%	9.41%	1.47%	3.63%	5.31%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate 2020 TR USD			-3.70%	2.25%	8.71%	0.22%	3.09%	4.55%				
Vanguard Target Retire 2025 Trust I ¹¹⁶	Target-Date 2025	06/28/07	-2.98%	5.22%	11.59%	2.27%	4.15%	5.90%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate 2025 TR USD			-4.03%	2.47%	9.56%	0.62%	3.24%	4.99%				
Vanguard Target Retire 2030 Trust I ¹¹⁶	Target-Date 2030	06/28/07	-3.22%	5.94%	13.15%	3.06%	4.55%	6.38%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate 2030 TR USD			-4.17%	3.02%	10.93%	1.61%	3.57%	5.54%				
Vanguard Target Retire 2035 Trust I ¹¹⁶	Target-Date 2035	06/28/07	-3.29%	6.67%	14.68%	3.99%	5.03%	6.89%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate 2035 TR USD			-4.13%	3.92%	12.85%	3.10%	4.06%	6.12%				
Vanguard Target Retire 2040 Trust I ¹¹⁶	Target-Date 2040	06/28/07	-3.35%	7.41%	16.21%	4.89%	5.46%	7.35%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate 2040 TR USD			-3.95%	4.91%	14.88%	4.59%	4.57%	6.57%				
Vanguard Target Retire 2045 Trust I ¹¹⁶	Target-Date 2045	06/28/07	-3.42%	8.12%	17.74%	5.80%	5.94%	7.69%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate 2045 TR USD			-3.79%	5.61%	16.35%	5.56%	4.91%	6.78%				
Vanguard Target Retire 2050 Trust I ¹¹⁶	Target-Date 2050	06/28/07	-3.47%	8.51%	18.54%	5.99%	6.07%	7.75%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate 2050 TR USD			-3.71%	5.92%	17.03%	5.93%	5.03%	6.81%				
Vanguard Target Retire 2055 Trust I ¹¹⁶	Target-Date 2055	10/05/10	-3.48%	8.50%	18.54%	5.99%	6.06%	7.74%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate 2055 TR USD			-3.70%	5.94%	17.15%	5.96%	5.00%	6.74%				

				Total Returns		Average Annual Total Returns				Total Annual Operating Expenses (%/Per \$1000)			
Multi Asset - Non-Registered		Morningstar Category	Inception Date	3 Month	YTD	1 Year	3 Year	5 Year	10 Year/ Since Inception	Gross	Net	Fee Waiver Expiration	Shareholder Fees & Restrictions*
Vanguard Target Retire 2060 Trust I ^{1,16}		Target-Date 2060	03/01/12	-3.48%	8.49%	18.56%	5.99%	6.08%	7.75%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate 2060 TR USD				-3.72%	5.89%	17.17%	5.91%	4.93%	6.65%				
Vanguard Target Retire 2065 Trust I ^{1,16}		Target-Date 2065+	07/21/17	-3.45%	8.51%	18.57%	6.00%	6.10%	7.64%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate 2060 TR USD				-3.72%	5.89%	17.17%	5.91%	4.93%	-				
Vanguard Target Retire Income Trust I ^{1,16}		Target-Date Retirement	06/22/07	-2.40%	3.14%	7.07%	-0.11%	2.73%	3.66%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Allocation Moderate Income TR USD				-2.28%	2.61%	7.83%	1.05%	3.08%	3.68%				
Vanguard Target Retirement 2070 Trust I ^{1,16}		Target-Date 2065+	04/06/22	-3.46%	8.56%	18.66%	-	-	-2.47%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.
Benchmark: Morningstar Lifetime Mod 2060 TR USD				-3.72%	5.89%	17.17%	-	-	-				

				Total Returns		Average Annual Total Returns				Total Annual Operating Expenses (%/Per \$1000)				
Money Market - Mutual Fund		Morningstar Category	Inception Date	7-Day Yield**	3 Month	YTD	1 Year	3 Year	5 Year	10 Year/ Since Inception	Gross	Net	Fee Waiver Expiration	Shareholder Fees & Restrictions*
Vanguard Cash Reserves Federal Money Market Fund Admiral Shares (VMRXX) ¹		Money Market-Taxable	10/03/89	5.30%	1.32%	3.71%	4.63%	1.76%	1.74%	1.19%	0.10%	0.10%	-	-
Benchmark: FTSE Treasury Bill 3 Month USD					1.38%	3.80%	4.71%	1.78%	1.74%	1.12%				

You could lose money by investing in a money market fund. Although a money market fund seeks to preserve the value of your investment at \$1.00 per share, it cannot guarantee it will do so. An investment in a money market fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. A money market fund's sponsor has no legal obligation to provide support to a money market fund, and you should not expect that the sponsor will provide financial support to a money market fund at any time.

**The current yield more closely reflects the earnings of this investment choice.

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 - Group Retirement Annuity ^{17,18,19}	-	1.15%	3.36%	4.41%	3.86%	3.83%	3.89%	-	6.50%	3.00%

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 guaranteed minimum interest rate is 3.00%, and is effective while the funds remain in the contract. The account also offers the opportunity for additional amounts in excess of the guaranteed 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. TIAA Traditional is designed primarily to help meet your long-term retirement income needs; it is not a short-term savings vehicle. Therefore, some contracts require that benefits are paid in installments over time and/or may impose surrender charges on certain withdrawals. TIAA has rewarded participants who save in contracts where benefits are paid in installments over time instead of in an immediate lump-sum by crediting higher interest rates, typically 0.50% to 0.75% higher. Higher rates will lead to higher account balances and more retirement income for you. For Group Retirement Annuity (GRA) contracts, and subject to the terms of your employer's plan, lump-sum withdrawals are available from the TIAA Traditional account only within 120 days after termination of employment and are subject to a 2.5% surrender charge. All other withdrawals and transfers from the account must be paid in ten annual installments. After termination of employment additional income options may be available including income for life, income for a fixed period, interest-only payments and IRS required minimum distributions.

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 Annuity ^{17,18,19}	-	1.15%	3.36%	4.41%	3.86%	3.83%	3.89%	-	6.50%	3.00%

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 guaranteed minimum interest rate is 3.00%, and is effective while the funds remain in the contract. The account also offers the opportunity for additional amounts in excess of the guaranteed 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. TIAA Traditional is designed primarily to help meet your long-term retirement income needs; it is not a short-term savings vehicle. Therefore, some contracts require that benefits are paid in installments over time and/or may impose surrender charges on certain withdrawals. TIAA has rewarded participants who save in contracts where benefits are paid in installments over time instead of in an immediate lump-sum by crediting higher interest rates, typically 0.50% to 0.75% higher. Higher rates will lead to higher account balances and more retirement income for you. For Retirement Annuity (RA) contracts, lump-sum withdrawals are not available from the TIAA Traditional account. Subject to the terms of your plan, all withdrawals and transfers from the account must be paid in ten annual installments. After termination of employment additional income options may be available including income for life, interest-only payments, and IRS required minimum distribution payments.

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 ^{17,18,19}	08/01/05	1.21%	3.53%	4.65%	4.09%	4.06%	4.17%	4.36%	6.75%	2.80%

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 for premiums remitted in 2022 is 2.80%, and is effective through 2032. 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. TIAA Traditional is designed primarily to help meet your long-term retirement income needs; it is not a short-term savings vehicle. Therefore, some contracts require that benefits are paid in installments over time and/or may impose surrender charges on certain withdrawals. TIAA has rewarded participants who save in contracts where benefits are paid in installments over time instead of in an immediate lump-sum by crediting higher interest rates, typically 0.50% to 0.75% higher. Higher rates will lead to higher account balances and more retirement income for you. For Retirement Choice (RC) contracts, and subject to the terms of your employer's plan, lump-sum withdrawals are available from the TIAA Traditional account only within 120 days after termination of employment and are subject to a 2.5% surrender charge. All other withdrawals and transfers from the account must be paid in 84 monthly installments (7 years). If the Contractholder elects to remove TIAA Traditional, the contract's entire TIAA Traditional accumulation will be paid out in 60 monthly installments without any surrender charge.

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.

The Other category includes investment options that do not neatly fit within the main asset class categories. Examples include stable value collective trust funds, commodities funds and alternative mutual funds. An investment in a stable value collective trust fund is not guaranteed, and it is possible to lose money by investing in these products. Stable value collective trust funds are not registered under federal or state securities laws, and do not offer the protections that those laws provide to investors of registered products, which are subject to comply with federal or state securities laws. Funds that invest in the commodities markets may experience greater volatility than funds that invest in traditional securities. Commodities can be considered speculative investments, which can increase the risk of a loss. Alternative mutual funds typically employ complex trading strategies and hold more non-traditional investments than the typical mutual fund. Alternative mutual funds may employ speculative strategies than can result in greater volatility than other types of mutual funds, and may not be suitable for all investors.

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. 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.

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.

Important Information

- 1 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.
- 2 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.
- 3 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.
- 4 Value stocks may perform differently from the market as a whole and may be undervalued by the market for a long period of time.
- 5 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.
- 6 Securities of smaller 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 them.
- 7 On or about June 9, 2023, the DFA U.S. Targeted Value Portfolio merged into the DFA U.S. Targeted Value Portfolio Institutional Class.
- 8 The index shown is for comparative purposes only, and may not match other websites or publications.
- 9 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.
- 10 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.
- 11 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.

12 Data provided by Galliard Capital Management, the fund's investment manager. Wells Fargo Bank, N.A. is the investment manager and trustee. Neither TIAA nor its affiliates has independently verified the accuracy or completeness of this information, and are not affiliated with either entity. The Wells Fargo Stable Value Fund is a stable value collective fund that seeks stability of principal and consistency of returns with minimal volatility. The Fund primarily invests in security backed contracts which are comprised of two components: a broadly diversified fixed income portfolio that invests in U.S. domestic fixed income securities (bonds) rated investment grade by one of the major rating agencies (Moody's, S&P, Fitch) at time of purchase, and "wrap contracts" issued by financial institutions (bank or insurance company) to help provide stability of principal and a smooth credited rate of interest. The Fund may also hold Guaranteed Investment Contracts, Insurance Company Separate Accounts, cash or cash equivalents, bonds and shares or units in stable value and/or bond collective trust funds. Unit price, yield and return will vary on a daily basis.

13 Total annual expense deductions, which include investment advisory, administrative, and distribution (12b-1) expenses, and mortality and expense risk charges, are 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.

14 The performance shown for Classes R1, R2, and R4 that is prior to their respective inception dates is based on the performance of the Accounts' Class R3. The performance for Classes R1 and R2 for periods prior to their inception has not been restated to reflect the current expenses of Classes R1 and R2, which may be higher or lower than Class R3 for the same period. The performance for Class R4 for the periods prior to its inception has not been restated to reflect the lower expenses of Class R4. Class R3 is now considered the oldest share class for CREF, previously it was R1.

15 The performance shown for Classes R1, R2, and R4 that is prior to their respective inception dates is based on the performance of the Accounts' Class R3. The performance for Classes R1 and R2 for periods prior to their inception has not been restated to reflect the current expenses of Classes R1 and R2, which may be higher or lower than Class R3 for the same period. The performance for Class R4 for the periods prior to its inception has not been restated to reflect the lower expenses of Class R4. Class R3 is now considered the oldest share class for CREF, previously it was R1.

16 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 collective trust 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.

17 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. TIAA Traditional is a guaranteed insurance contract and not an investment for federal securities law purposes.

18 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.

19 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.

Unless otherwise noted, annuity contracts and certificates are issued by Teachers Insurance and Annuity Association of America (TIAA) and College Retirement Equities Fund (CREF), New York, NY. TIAA-CREF Individual & Institutional Services, LLC, Teachers Personal Investors Services, Inc., and Nuveen Securities, LLC, Members FINRA and SIPC, distribute securities products.
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