



# UNIVERSITY OF PITTSBURGH 457(B) PLAN

## Investment Performance as of 9/30/2024

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, and shares or units of the investment vehicles in your model-based accounts, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than the performance quoted. The net asset values used to calculate the hypothetical account performance for model-based accounts are compiled using values for underlying funds as of the prior business day and current business day for fixed annuities. 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.

## One Step Investing: Panther Target Date Models

Multi Asset - 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		
Panther Target-Date Plus 2010 <sup>1,2,3</sup>	-	10/31/22	4.41%	9.01%	16.06%	-	-	11.62%	0.06% \$0.60	0.06% \$0.60	-	-
Benchmark: S&P Target Date 2010 TR USD			5.20%	9.03%	17.12%	-	-	-				
Panther Target-Date Plus 2015 <sup>1,2,3</sup>	-	10/31/22	4.71%	9.55%	17.23%	-	-	12.48%	0.06% \$0.60	0.06% \$0.60	-	-
Benchmark: S&P Target Date 2015 TR USD			5.26%	9.39%	17.79%	-	-	-				
Panther Target-Date Plus 2020 <sup>1,2,3</sup>	-	10/31/22	5.19%	10.50%	18.94%	-	-	13.70%	0.06% \$0.60	0.06% \$0.60	-	-
Benchmark: S&P Target Date 2020 TR USD			5.43%	10.19%	19.05%	-	-	-				

Investment products, insurance and annuity products and investments based on Models: 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 - 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
Panther Target-Date Plus 2025 <sup>1,2,3</sup>	-	10/31/22	5.59%	11.47%	20.90%	-	-	14.95%	0.07% \$0.70	0.07% \$0.70	-	-
Benchmark: S&P Target Date 2025 TR USD			5.59%	10.65%	19.81%	-	-	-				
Panther Target-Date Plus 2030 <sup>1,2,3</sup>	-	10/31/22	6.02%	12.45%	22.87%	-	-	16.21%	0.07% \$0.70	0.07% \$0.70	-	-
Benchmark: S&P Target Date 2030 TR USD			5.97%	12.07%	22.17%	-	-	-				
Panther Target-Date Plus 2035 <sup>1,2,3</sup>	-	10/31/22	6.51%	13.40%	24.78%	-	-	17.45%	0.07% \$0.70	0.07% \$0.70	-	-
Benchmark: S&P Target Date 2035 TR USD			6.25%	13.57%	24.56%	-	-	-				
Panther Target-Date Plus 2040 <sup>1,2,3</sup>	-	10/31/22	6.85%	14.24%	26.33%	-	-	18.54%	0.07% \$0.70	0.07% \$0.70	-	-
Benchmark: S&P Target Date 2040 TR USD			6.49%	14.91%	26.62%	-	-	-				
Panther Target-Date Plus 2045 <sup>1,2,3</sup>	-	10/31/22	7.18%	15.31%	28.23%	-	-	19.73%	0.08% \$0.80	0.08% \$0.80	-	-
Benchmark: S&P Target Date 2045 TR USD			6.69%	15.76%	27.95%	-	-	-				
Panther Target-Date Plus 2050 <sup>1,2,3</sup>	-	10/31/22	7.36%	15.57%	28.77%	-	-	20.21%	0.08% \$0.80	0.08% \$0.80	-	-
Benchmark: S&P Target Date 2050 TR USD			6.74%	16.25%	28.68%	-	-	-				
Panther Target-Date Plus 2055 <sup>1,2,3</sup>	-	10/31/22	7.54%	15.95%	29.56%	-	-	20.70%	0.08% \$0.80	0.08% \$0.80	-	-
Benchmark: S&P Target Date 2055 TR USD			6.82%	16.35%	28.82%	-	-	-				
Panther Target-Date Plus 2060 <sup>1,2,3</sup>	-	10/31/22	7.59%	16.40%	30.34%	-	-	21.30%	0.08% \$0.80	0.08% \$0.80	-	-
Benchmark: S&P Target Date 2060 TR USD			6.87%	16.42%	28.90%	-	-	-				
Panther Target-Date Plus 2065 <sup>1,2,3</sup>	-	10/31/22	7.59%	16.40%	30.34%	-	-	21.30%	0.08% \$0.80	0.08% \$0.80	-	-
Benchmark: S&P Target Date 2065+ TR USD			6.85%	16.69%	29.29%	-	-	-				
Panther Target-Date Plus 2070 <sup>1,2,3</sup>	-	10/31/22	7.59%	16.40%	30.34%	-	-	21.30%	0.08% \$0.80	0.08% \$0.80	-	-
Benchmark: S&P Target Date 2065+ TR USD			6.85%	16.69%	29.29%	-	-	-				
Panther Target-Date Plus Income <sup>1,2,3</sup>	-	10/31/22	4.21%	8.72%	15.18%	-	-	10.87%	0.06% \$0.60	0.06% \$0.60	-	-
Benchmark: S&P Target Date Retirement Income TR USD			5.16%	8.81%	16.86%	-	-	-				

The model's underlying investments' performance can be found under the appropriate asset class. Please refer to the RetirePlus Pro Model Portfolio Target Allocations section of this document for information on the model's current target allocations and other important information about your investment through the RetirePlus Pro Model program.

## Streamlined Array: Core Investment Funds

Equities - 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 Global Equities Account (R4) (QCGLFX) <sup>4,5,6</sup>	Global Large-Stock Blend	09/16/22 05/01/92	5.14%	18.91%	32.45%	8.48%	13.42%	9.81%	0.10%	0.10%	-	Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days. Pln Svcs Fee: 0.024%/quarterly
Benchmark: MSCI ACWI NR USD			6.61%	18.66%	31.76%	8.09%	12.19%	9.39%				
CREF Growth Account (R4) (QCGRFX) <sup>4,5,6,7</sup>	Large Growth	09/16/22 04/29/94	1.57%	24.23%	43.03%	9.55%	17.83%	15.13%	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. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Russell 1000 Growth TR USD			3.19%	24.55%	42.19%	12.02%	19.74%	16.52%				
CREF Stock Account (R4) (QCSTFX) <sup>4,5,6</sup>	Aggressive Allocation	09/16/22 07/31/52	5.96%	17.89%	31.40%	7.79%	12.47%	10.04%	0.10%	0.10%	-	Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Morningstar Aggressive Target Risk TR USD			7.81%	15.19%	28.02%	6.47%	10.48%	8.95%				
Benchmark: CREF Stock Account Composite Index			6.91%	18.28%	31.62%	8.05%	12.81%	10.50%				

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		
Allspring Special Mid Cap Value Fund - Class R6 (WFPRX) <sup>8,9,10</sup>	Mid-Cap Value	06/28/13	9.15%	16.39%	27.24%	10.25%	11.88%	10.37%	0.70%	0.70%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Russell 3000 TR USD			6.23%	20.63%	35.19%	10.29%	15.26%	12.83%				
American Funds New World Fund Class R-6 (RNWX) <sup>8,11</sup>	Diversified Emerging Mkts	05/01/09	6.95%	14.39%	24.64%	1.39%	8.37%	6.92%	0.57%	0.57%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: MSCI ACWI NR USD			6.61%	18.66%	31.76%	8.09%	12.19%	9.39%				
JPMorgan Small Cap Value Fund Class R6 (JSVUX) <sup>8,9,10,12</sup>	Small Value	02/22/05	8.72%	10.52%	26.26%	4.83%	10.52%	8.10%	0.76%	0.74%	10/31/24	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Russell 2000 Value TR USD			10.15%	9.22%	25.88%	3.77%	9.29%	8.22%				
MassMutual Mid Cap Growth Fund Class I (MEFZX) <sup>7,8,10,12</sup>	Mid-Cap Growth	11/15/10	6.30%	10.76%	23.63%	1.54%	9.34%	11.00%	0.68%	0.66%	01/31/26	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Russell Mid Cap Growth TR USD			6.54%	12.91%	29.33%	2.32%	11.48%	11.30%				
Nuveen Large Cap Responsible Equity Fund (R6) (TISCX) <sup>12</sup>	Large Blend	07/01/99	6.25%	18.76%	33.86%	9.41%	14.70%	12.17%	0.18%	0.18%	02/28/25	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: S&P 500 TR USD			5.89%	22.08%	36.35%	11.91%	15.98%	13.38%				
Benchmark: Russell 3000 TR USD			6.23%	20.63%	35.19%	10.29%	15.26%	12.83%				
Nuveen Quant Small Cap Equity Fund (R6) (TISEX) <sup>10,12</sup>	Small Blend	10/01/02	8.20%	15.46%	30.59%	6.71%	11.96%	10.38%	0.42%	0.42%	02/28/25	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Russell 2000 TR USD			9.27%	11.17%	26.76%	1.84%	9.39%	8.78%				

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 Capital Opportunity Fund Admiral Shares (VHCAX) <sup>7,8</sup>	Large Growth	11/12/01	1.92%	14.47%	25.09%	7.65%	14.81%	12.99%	0.36%	0.36%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Russell Mid Cap Growth TR USD			6.54%	12.91%	29.33%	2.32%	11.48%	11.30%				
Vanguard Developed Markets Index Fund Institutional Plus Shares (VDIPX) <sup>8,13,14</sup>	Foreign Large Blend	04/01/14	7.48%	12.20%	24.75%	4.85%	8.31%	5.95%	0.05%	0.05%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: MSCI ACWI Ex USA NR USD			8.06%	14.21%	25.35%	4.14%	7.59%	5.22%				^Restricted to RetirePlus Pro Model Service. See disclosure section below.
Vanguard Emerging Markets Stock Index Fund Institutional Shares (VEMIX) <sup>8,11,14</sup>	Diversified Emerging Mkts	06/22/00	9.29%	17.28%	24.99%	1.63%	6.42%	4.21%	0.10%	0.10%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: MSCI Emerging Markets NR USD			8.72%	16.86%	26.05%	0.40%	5.75%	4.02%				
Vanguard Equity-Income Fund Admiral Shares (VEIRX) <sup>6,9,14</sup>	Large Value	08/13/01	8.35%	16.01%	26.44%	10.77%	11.56%	10.58%	0.18%	0.18%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Russell 1000 Value TR USD			9.43%	16.68%	27.76%	9.03%	10.69%	9.23%				
Vanguard Extended Market Index Fund Institutional Shares (VIEIX) <sup>8,10</sup>	Mid-Cap Blend	07/07/97	8.09%	11.67%	28.57%	1.22%	10.77%	9.65%	0.05%	0.05%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: S&P Completion TR USD			8.07%	11.61%	28.25%	1.04%	10.62%	9.50%				
Vanguard FTSE All-World ex-US Index Fund Institutional Shares (VFWSX) <sup>8,13,14</sup>	Foreign Large Blend	04/30/07	8.01%	13.99%	25.34%	4.39%	7.88%	5.53%	0.08%	0.08%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: MSCI ACWI Ex USA NR USD			8.06%	14.21%	25.35%	4.14%	7.59%	5.22%				

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 Global Equity Fund Investor Shares (VHGEX) <sup>8</sup>	Global Large-Stock Blend	08/14/95	6.61%	16.02%	31.04%	4.52%	11.01%	9.45%	0.42%	0.42%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: MSCI ACWI NR USD			6.61%	18.66%	31.76%	8.09%	12.19%	9.39%				
Vanguard Growth Index Fund Institutional Shares (VIGIX) <sup>7,8</sup>	Large Growth	05/14/98	2.92%	24.04%	41.91%	10.47%	19.01%	15.55%	0.04%	0.04%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: CRSP US Large Cap Growth TR USD			2.93%	24.07%	41.97%	10.50%	19.05%	15.59%				
Vanguard Institutional Index Fund Institutional Plus Shares (VIIIX) <sup>9</sup>	Large Blend	07/07/97	5.88%	22.06%	36.32%	11.89%	15.96%	13.37%	0.02%	0.02%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: S&P 500 TR USD			5.89%	22.08%	36.35%	11.91%	15.98%	13.38%				
Vanguard International Growth Fund Admiral Shares (VWILX) <sup>7,8,13</sup>	Foreign Large Growth	08/13/01	7.43%	15.77%	28.94%	-3.65%	10.76%	8.97%	0.31%	0.31%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: MSCI ACWI Ex USA NR USD			8.06%	14.21%	25.35%	4.14%	7.59%	5.22%				
Vanguard Mid-Cap Growth Index Fund Admiral Shares (VMGMX) <sup>7,8,10</sup>	Mid-Cap Growth	09/27/11	6.25%	11.40%	26.00%	1.70%	11.19%	10.58%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: CRSP US Mid Cap Growth TR			6.26%	11.44%	26.06%	1.73%	11.24%	10.64%				
Vanguard Mid-Cap Index Fund Institutional Shares (VMCIX) <sup>8,10</sup>	Mid-Cap Blend	05/21/98	9.36%	14.72%	28.81%	5.31%	11.23%	10.22%	0.04%	0.04%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: CRSP US Mid Cap TR USD			9.37%	14.73%	28.81%	5.32%	11.23%	10.23%				
Vanguard Mid-Cap Value Index Fund Admiral Shares (VMVAX) <sup>8,9,10</sup>	Mid-Cap Value	09/27/11	11.99%	17.51%	31.04%	8.73%	10.76%	9.56%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: CRSP US Mid Cap Value TR USD			12.01%	17.52%	31.05%	8.77%	10.78%	9.59%				

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 PRIMECAP Fund Admiral Shares (VPMAX) <sup>8</sup>	Large Blend	11/12/01	0.88%	16.07%	27.66%	10.64%	15.15%	13.39%	0.31%	0.31%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: S&P 500 TR USD			5.89%	22.08%	36.35%	11.91%	15.98%	13.38%				
Vanguard Real Estate Index Fund Institutional Shares (VGSNX) <sup>8,14,15</sup>	Real Estate	12/02/03	17.19%	13.61%	34.21%	2.53%	4.79%	7.35%	0.11%	0.11%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: S&P United States REIT TR USD			16.09%	15.69%	34.24%	5.04%	5.49%	7.66%				
Vanguard Small-Cap Growth Index Fund Institutional Shares (VSGIX) <sup>7,8,10</sup>	Small Growth	05/24/00	7.08%	11.14%	25.75%	-0.94%	8.62%	9.19%	0.06%	0.06%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: CRSP US Small Cap Growth TR USD			7.06%	11.12%	25.70%	-1.00%	8.57%	9.14%				
Vanguard Small-Cap Index Fund Institutional Shares (VSCIX) <sup>8,10</sup>	Small Blend	07/07/97	9.04%	12.37%	27.45%	4.37%	10.67%	9.65%	0.04%	0.04%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: CRSP US Small Cap TR USD			9.02%	12.35%	27.41%	4.31%	10.61%	9.60%				
Vanguard Small-Cap Value Index Fund Institutional Shares (VSIX) <sup>8,9,10</sup>	Small Value	12/07/99	10.54%	13.27%	28.69%	8.23%	11.61%	9.59%	0.06%	0.06%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: CRSP US Small Cap Value TR			10.54%	13.29%	28.72%	8.22%	11.58%	9.58%				
Vanguard Total International Stock Index Fund Institutional Plus Shares (VTPSX) <sup>8,13,14</sup>	Foreign Large Blend	11/30/10	8.04%	13.60%	24.94%	4.04%	7.79%	5.47%	0.08%	0.08%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: MSCI ACWI Ex USA NR USD			8.06%	14.21%	25.35%	4.14%	7.59%	5.22%				



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 Total Stock Market Index Fund Institutional Plus Shares (VSMPX) <sup>8</sup>	Large Blend	04/28/15	6.18%	20.59%	35.27%	10.12%	15.20%	12.56%	0.02%	0.02%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly ^Restricted to RetirePlus Pro Model Service. See disclosure section below.
Benchmark: CRSP US Total Market TR USD			6.18%	20.60%	35.23%	10.11%	15.19%	12.55%				
Vanguard Value Index Fund Institutional Shares (VIVIX) <sup>8,9</sup>	Large Value	07/02/98	9.43%	18.98%	29.79%	11.65%	12.27%	10.79%	0.04%	0.04%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: CRSP US Large Cap Value TR			9.44%	18.99%	29.71%	11.65%	12.26%	10.80%				
Vanguard Windsor Fund Admiral Shares (VWNEX) <sup>8,9</sup>	Large Value	11/12/01	7.44%	11.85%	24.15%	10.51%	13.74%	10.32%	0.32%	0.32%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Russell 1000 Value TR USD			9.43%	16.68%	27.76%	9.03%	10.69%	9.23%				
Victory Trivalent International Small-Cap Fund Class I (MISIX) <sup>8,10,13,16</sup>	Foreign Small/Mid Blend	08/17/07	8.70%	13.79%	25.12%	0.77%	7.55%	6.83%	1.21%	0.95%	10/31/24	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Credit: 0.076%/quarterly
Benchmark: S&P Developed Ex US Small TR USD			8.69%	10.17%	22.08%	-0.52%	6.68%	5.95%				

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>5,17,18</sup>	Miscellaneous Sector	10/02/95	-0.34%	-4.69%	-9.34%	-1.91%	1.05%	3.55%	1.02%	1.02%	-	Transfers out: Limit 1 per quarter. Limitations may apply to any transaction resulting in a balance > \$150,000. Pln Svcs Credit: 0.216%/quarterly

Fixed Income - 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 Core Bond Account (R4) (QCBMF) <sup>4,5,6</sup>	Intermediate Core Bond	09/16/22 03/01/90	5.17%	5.42%	12.47%	-0.90%	0.81%	2.20%	0.10%	0.10%	-	Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Bloomberg US Aggregate Bond TR USD			5.20%	4.45%	11.57%	-1.39%	0.33%	1.84%				

Fixed Income - 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 Income Fund Class X (DOX) <sup>8,12</sup>	Intermediate Core-Plus Bond	05/02/22	5.61%	5.83%	13.60%	-	-	4.63%	0.36%	0.33%	04/30/26	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Bloomberg US Aggregate Bond TR USD			5.20%	4.45%	11.57%	-	-	2.68%				
Nuveen Core Impact Bond Fund (R6) (TSBIX) <sup>12</sup>	Intermediate Core Bond	09/21/12	5.18%	5.58%	12.45%	-1.31%	0.48%	2.20%	0.36%	0.36%	07/31/25	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Bloomberg US Aggregate Bond TR USD			5.20%	4.45%	11.57%	-1.39%	0.33%	1.84%				
Vanguard GNMA Fund Admiral Shares (VFIJX) <sup>8</sup>	Intermediate Government	02/12/01	5.01%	4.06%	11.42%	-0.91%	0.19%	1.44%	0.11%	0.11%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Bloomberg GNMA TR USD			4.96%	3.90%	11.49%	-0.91%	0.08%	1.30%				
Vanguard High-Yield Corporate Fund Admiral Shares (VWEAX) <sup>8,19</sup>	High Yield	11/12/01	4.41%	6.68%	14.46%	2.94%	4.00%	4.74%	0.12%	0.12%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Bloomberg US Corporate High Yield TR USD			5.28%	8.00%	15.74%	3.10%	4.72%	5.04%				

Fixed Income - 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 Inflation-Protected Securities Fund Institutional Shares (VIPIX) <sup>8</sup>	Inflation-Protected Bond	12/12/03	4.10%	5.03%	9.90%	-0.60%	2.55%	2.48%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Bloomberg US Treasury US TIPS TR USD			4.12%	4.85%	9.79%	-0.57%	2.62%	2.54%				
Vanguard Short-Term Investment-Grade Fund Institutional Shares (VFSIX) <sup>8</sup>	Short-Term Bond	09/30/97	3.76%	5.46%	9.64%	1.60%	2.21%	2.36%	0.07%	0.07%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Bloomberg Credit 1-5 Yr TR USD			3.71%	5.23%	9.39%	1.50%	2.12%	2.36%				
Vanguard Total Bond Market Index Fund Institutional Plus Shares (VBMPX) <sup>8</sup>	Intermediate Core Bond	02/05/10	5.07%	4.43%	11.42%	-1.41%	0.33%	1.84%	0.03%	0.03%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Bloomberg US Aggregate Float Adjusted TR USD			5.13%	4.45%	11.47%	-1.38%	0.36%	1.87%				

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 (R4) (QSCCFX) <sup>4,5,6</sup>	Moderate Allocation	09/16/22 03/01/90	6.16%	12.22%	23.39%	4.52%	7.97%	7.19%	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. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Morningstar Moderate Target Risk TR USD			6.97%	11.45%	22.04%	3.61%	7.07%	6.49%				
Benchmark: CREF Social Choice Account Composite Index			5.86%	12.77%	23.70%	4.93%	8.22%	7.37%				

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		
Vanguard Wellington Fund Admiral Shares (VWENX) <sup>8,14</sup>	Moderate Allocation	05/14/01	5.19%	13.87%	24.87%	6.17%	9.16%	8.69%	0.18%	0.18%	-	Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund. Pln Svcs Fee: 0.024%/quarterly
Benchmark: Morningstar Moderate Target Risk TR USD			6.97%	11.45%	22.04%	3.61%	7.07%	6.49%				

Money Market - Mutual Fund	Morningstar Category	Inception Date	7-Day Yield**	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 Federal Money Market Fund Investor Shares (VMFXX) <sup>8,20</sup>	Money Market-Taxable	07/13/81	4.87%	1.32%	4.01%	5.41%	3.54%	2.29%	1.61%	0.11%	0.11%	-	Pln Svcs Fee: 0.024%/quarterly
Benchmark: FTSE Treasury Bill 3 Month USD				1.37%	4.17%	5.63%	3.63%	2.38%	1.67%				

**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	Total Returns			Average Annual Total Returns				Current Rates and Fees				
	Inception Date	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Declared Rate	Total Contract Fee	Net Rate	Guaranteed Minimum Rate
TIAA Stable Value - University Of Pittsburgh 457(b) Plan <sup>21,22</sup>	02/28/18	0.75%	2.14%	2.85%	2.40%	2.33%	-	2.41%	3.00%	0.00%	3.00%	3.00%

**Additional Information:**

An annual plan servicing fee of 0.024% is charged and deducted on a quarterly basis.

TIAA Stable Value is a guaranteed annuity product that credits interest at a net rate announced in advance of each semi-annual rate guarantee period beginning 1/1 or 7/1. Declared crediting rates (i.e. before deductions for contract fees) will not be less than the current minimum guaranteed rate. TIAA may declare additional amounts of interest above the minimum rate. When declared such amounts are in effect for the semi-annual period and are not guaranteed for future periods. The current net rate shown is credited to your existing balance and any contributions made during the period beginning July 1, 2024 and ending December 31, 2024. During this same period, the minimum declared interest rate is 3.00%. The current net rate shown may not reflect any recent changes to your plan's TIAA Stable Value contract fees, if any. Current rate of return information is available on your plan-specific website noted above or at 800-842-2733. All guarantees are subject to TIAA's claims paying ability. Any transfer to a competing fund must first be directed to a non-competing fund for a period of 90 days and transfers in may not be made for a period of 30 days following a transfer out. The Contract holder (typically your employer as the sponsor of your plan) has the right to request a transfer of the contract's entire accumulation. This might occur if your employer has elected to use a new recordkeeper and has also elected to terminate the annuity contract. In this case the TIAA Stable Value accumulation will be paid in a lump sum without any market value adjustments either within 90 days of the Discontinuance Date or two years from the Discontinuance Date based on a formula in the contract which references the movement of interest rates over time. Only if the two year payout applies a Discontinuance Fee of, at most, 0.75% will be assessed which reduces the crediting rate during such period. Please refer to your contract certificate for additional details.

The TIAA Stable Value Inception Date shown above represents the date that the plan's TIAA Stable Value record was initiated on TIAA's recordkeeping system, which may be earlier than the date of the first deposit to the contract. "Since Inception" performance is calculated from this date. The TIAA Stable Value Declared Rate and Guaranteed Minimum Rate are subject to change every six months (January 1 and July 1). The Net Rate represents the Declared Interest Crediting Rate, less applicable Contract Fees.

Guaranteed - Fixed Annuity	Total Returns			Average Annual Total Returns				Current Rates		
	Inception Date	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Rate	Guaranteed Minimum Rate
TIAA Traditional Annuity - Retirement Choice <sup>21,23,24</sup>	08/01/05	1.14%	3.47%	4.73%	4.44%	4.20%	4.20%	4.38%	5.00%	3.00%

**Additional Information:**

An annual plan servicing credit of 0.126% is credited on a quarterly basis.

The current rate shown applies to premiums remitted during the month of October 2024 and will be credited through 2/28/2025. 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 2024 is 3.00%, and is effective through 2033. 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.

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>21,23,24</sup>	06/01/06	0.96%	2.92%	3.99%	3.69%	3.45%	3.44%	3.62%	4.25%	2.75%

**Additional Information:**

The current rate shown applies to premiums remitted during the month of October 2024 and will be credited through 2/28/2025. 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 2.75% for premiums remitted in March 2024 through February 2025, and is effective through February 2025. 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.

## RetirePlus Pro Model Portfolio Target Allocations

Underlying Investment	Panther Target-Date Plus 2010	Panther Target-Date Plus 2015	Panther Target-Date Plus 2020	Panther Target-Date Plus 2025	Panther Target-Date Plus 2030
TIAA Traditional Annuity - Retirement Choice Plus	42.0%	36.0%	31.0%	26.0%	20.0%
Vanguard Developed Markets Index Fund Institutional Plus Shares	13.0%	15.0%	17.0%	19.0%	21.0%
Vanguard Emerging Markets Stock Index Fund Institutional Shares	1.0%	1.0%	3.0%	3.0%	3.0%
Vanguard Real Estate Index Fund Institutional Shares	5.0%	5.0%	6.0%	7.0%	8.0%
Vanguard Total Bond Market Index Fund Institutional Plus Shares	14.0%	16.0%	14.0%	12.0%	11.0%
Vanguard Total Stock Market Index Fund Institutional Plus Shares	25.0%	27.0%	29.0%	33.0%	37.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%

Underlying Investment	Panther Target-Date Plus 2035	Panther Target-Date Plus 2040	Panther Target-Date Plus 2045	Panther Target-Date Plus 2050	Panther Target-Date Plus 2055
TIAA Traditional Annuity - Retirement Choice Plus	13.0%	9.0%	5.0%	2.0%	1.0%
Vanguard Developed Markets Index Fund Institutional Plus Shares	23.0%	25.0%	26.0%	27.0%	28.0%
Vanguard Emerging Markets Stock Index Fund Institutional Shares	4.0%	4.0%	4.0%	5.0%	5.0%
Vanguard Real Estate Index Fund Institutional Shares	9.0%	10.0%	11.0%	11.0%	12.0%
Vanguard Total Bond Market Index Fund Institutional Plus Shares	11.0%	9.0%	6.0%	7.0%	5.0%
Vanguard Total Stock Market Index Fund Institutional Plus Shares	40.0%	43.0%	48.0%	48.0%	49.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%

Underlying Investment	Panther Target-Date Plus 2060	Panther Target-Date Plus 2065	Panther Target-Date Plus 2070	Panther Target-Date Plus Income
TIAA Traditional Annuity - Retirement Choice Plus	1.0%	1.0%	1.0%	45.0%
Vanguard Developed Markets Index Fund Institutional Plus Shares	29.0%	29.0%	29.0%	10.0%
Vanguard Emerging Markets Stock Index Fund Institutional Shares	5.0%	5.0%	5.0%	1.0%
Vanguard Real Estate Index Fund Institutional Shares	12.0%	12.0%	12.0%	5.0%
Vanguard Total Bond Market Index Fund Institutional Plus Shares	2.0%	2.0%	2.0%	14.0%
Vanguard Total Stock Market Index Fund Institutional Plus Shares	51.0%	51.0%	51.0%	25.0%
Total	100.0%	100.0%	100.0%	100.0%

#### IMPORTANT INFORMATION ABOUT RETIREPLUS PRO MODELS

The TIAA RetirePlus Pro® Models are asset allocation recommendations developed in one of three ways, depending on your plan structure: i) by your plan sponsor, ii) by your plan sponsor in consultation with consultants and other investment advisors designated by the plan sponsor, or iii) exclusively by consultants and other investment advisors selected by your plan sponsor whereby assets are allocated to underlying mutual funds and annuities that are permissible investments under the plan. Model-based accounts will be managed on the basis of the plan participant's personal financial situation and investment objectives (for example, taking into account factors such as participant age and risk capacity as determined by a risk tolerance questionnaire).

This material is for informational, educational or non-fiduciary sales opportunities and/or activities only and does not constitute investment advice (e.g., fiduciary advice under ERISA or otherwise), a securities recommendation under all securities laws, or an insurance product recommendation under state insurance laws or regulations to invest through a model or to purchase any security or advice about investing or managing retirement savings. It does not take into account any specific objectives or circumstances of any particular customer, or suggest any specific course of action.

You should consider the investment objectives, principal strategies, principal risks, portfolio turnover rate, performance data, and fee and expense information of each underlying investment carefully before directing an investment based on the model. For a free copy of the program description and the prospectus or other offering documents for each of the underlying investments (containing this and other information), call TIAA at 877-518-9161. Please read the program description and the prospectuses or other offering documents for the underlying investments carefully before investing.

The Plan Fiduciary and the Plan Advisor may determine that an Underlying Investment(s) is appropriate for a Model Portfolio, but not appropriate as a stand-alone investment for a Participant who is not participating in the Program. In such case, Participants who elect to unsubscribe from the Program while holding an Underlying Investment(s) in their Model-Based Account that has been deemed inappropriate as a stand-alone investment option by the Plan Fiduciary and/or the Plan Advisor will be prohibited from allocating future contributions to that investment option(s).

Established Restrictions: Each Plan Participant may, but need not, propose restrictions for his or her Model-Based Account, which will further customize such Plan Participant's own portfolio of Underlying Investments. The Plan Fiduciary is responsible for considering any restrictions proposed by a Plan Participant, and for determining (together with Plan Advisor(s)) whether the proposed restriction is "reasonable" in each case.

No registration under the Investment Company Act, the Securities Act or state securities laws—The Model is not a mutual fund or other type of security and will not be registered with the Securities and Exchange Commission as an investment company under the Investment Company Act of 1940, as amended, and no units or shares of the Model will be registered under the Securities Act of 1933, as amended, nor will they be registered with any state securities regulator. Accordingly, the Model is not subject to compliance with the requirements of such acts, nor may plan participants investing in underlying investments based on the Model avail themselves of the protections thereunder, except to the extent that one or more underlying investments or interests therein are registered under such acts.

No guarantee—Investments based on the Model are not deposits of, or obligations of, or guaranteed or endorsed by TIAA, the Investment Advisor, The Plan or their affiliates, and are not insured by the Federal Deposit Insurance Corporation, or any other agency. An investment based on the Model is not guaranteed, and you may experience losses, including losses near, at, or after the target date. There is no guarantee that investments based on the Model will provide adequate income at and through your retirement. Investors should not allocate their retirement savings based on the Model unless they can readily bear the consequences of such loss.

TIAA RetirePlus Pro is administered by Teachers Insurance and Annuity Association of America ("TIAA") as plan recordkeeper. TIAA-CREF Individual & Institutional Services LLC, Member FINRA, distributes securities products. If offered under your plan, TIAA and CREF annuity contracts and certificates are issued by Teachers Insurance and Annuity Association of America (TIAA) and College Retirement Equities Fund (CREF), New York, NY, respectively. Each is solely responsible for its own financial condition and contractual obligations. Transactions in the underlying investments invested in based on the Model on behalf of the plan participants are executed through TIAA-CREF Individual & Institutional Services, LLC, Member FINRA.

TIAA RetirePlus Pro® is a registered trademark of Teachers Insurance and Annuity Association of America-College Retirement Equities Fund, 730 Third Avenue, New York, NY 10017.



## 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.

## ^RetirePlus Pro Model Restrictions

The Plan Fiduciary and/or the Plan Advisor have determined that this underlying investment is appropriate for a Model when combined with other underlying investments, but is not appropriate as a stand-alone investment option for a Participant that is not participating in the TIAA RetirePlus Pro Model Service. Participants who elect to unsubscribe from the Service while holding this underlying investment will be prohibited from allocating future contributions to the investment option. With regard to existing accumulations, depending on the type of contract, Participants may be required to transfer completely out of the investment option(s) deemed inappropriate as a stand-alone investment option.

## 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 Models 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 Model Portfolios, the principal value of a Target Retirement Date Model is not guaranteed. The higher a Model's allocation to stocks, the greater the risk. After the target date has been reached, some of these Models may be merged into a Model with a more stable asset allocation. Please consult the fact sheet or offering document for more complete information.

2 Model Strategy, Model Fees and Expenses and Target Allocations information provided by the Plan Sponsor. Neither TIAA nor its affiliates has independently verified the accuracy or completeness of this information.

3 Model performance shown is based on the performance of the underlying investments that were present in the Model's lineup as of the end of the most recent calendar quarter. If a Model's lineup has changed since then, no adjustments have been made to the Model's performance shown here to reflect the revised lineup, and the investments (and their performance) removed from the lineup no longer appear in the fund performance table. However, all the investments (and their performance) in the Model's lineup as of the end of the most recent calendar quarter may continue to be viewed on the fact sheet available on your employer's microsite.

4 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.

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 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.

7 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.

8 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.

9 Value stocks may perform differently from the market as a whole and may be undervalued by the market for a long period of time.

**10** 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.

**11** 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.

**12** 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.

**13** 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.

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

**15** 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.

**16** The net expense ratio reflects a voluntary 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.

**17** Funds that focus their investments in a specific sector (such as health care or technology) are more vulnerable to developments that affect those industries or sectors than more broadly diversified funds.

**18** 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.

**19** Investments in high-yield bonds (commonly known as junk bonds) are subject to greater risk of loss of principal and interest and an increased risk of default in comparison to higher-rated bonds.

**20** Closed to new investors.

**21** 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.

**22** TIAA Stable Value is a guaranteed annuity contract issued by Teachers Insurance and Annuity Association (TIAA), New York, NY 10017. Contributions from different plans are pooled together and deposited in a non-unitized separate account of TIAA. This guaranteed annuity contract is not considered to be an "investment" or "security" under federal securities laws. In addition, the contract provides a guaranteed minimum rate of interest of between 1% and 3% (before deductions for contract fees). Contract fees are described in the annuity contract and are collected on a daily basis. Payment obligations and the fulfillment of the guarantees provided for in the contract during the accumulation phase are supported by the assets held in the separate account. If the assets in the separate account are insufficient to meet these obligations, the shortfall is supported by the General Account of TIAA and is therefore subject to TIAA's claims-paying ability. Lifetime annuity payments are provided by TIAA, are subject to TIAA's claims-paying ability and are not supported by the assets in the separate account. Past interest rates are not indicative of future interest rates. This product is not a mutual fund, variable annuity or bank product. The obligations of TIAA are not insured by the FDIC or any other federal governmental agency. As provided for in the annuity contract, restrictions may apply to certain plan sponsor and/or participant initiated transactions. Please refer to the annuity contract or certificate for further details.

**23** 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.

**24** 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.





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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 and disclosure documents that contain this and other information. Please read the prospectuses and disclosure documents carefully before investing.**

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