



STATE UNIVERSITY OF NEW YORK - OPTIONAL RETIREMENT PROGRAM

Investment Performance as of 12/31/2020

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 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 - 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 Equity Index Account (R3) (QCEQIX) ^{1,2,3,4} | Large Blend | 04/24/15 04/29/94 | 14.61% | 20.63% | 20.63% | 14.27% | 15.19% | 13.48% | 0.23% | 0.23% | - | 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: Russell 3000 TR USD | | | 14.68% | 20.89% | 20.89% | 14.49% | 15.43% | 13.79% | \$2.30 | \$2.30 | | |
| CREF Global Equities Account (R3) (QCGLIX) ^{1,2,3,4,5} | World Large Stock | 04/24/15 05/01/92 | 15.89% | 22.75% | 22.75% | 11.34% | 12.61% | 10.09% | 0.30% | 0.30% | - | 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: MSCI ACWI NR USD | | | 14.68% | 16.25% | 16.25% | 10.06% | 12.26% | 9.13% | \$3.00 | \$3.00 | | |

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 - Variable Annuity | 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 | | |
| CREF Growth Account (R3) (QCGRIX) ^{1,2,3,4,6} | Large Growth | 04/24/15 04/29/94 | 11.45% | 40.76% | 40.76% | 21.82% | 19.65% | 16.73% | 0.26% | 0.26% | | 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: Russell 1000 Growth TR USD | | | 11.39% | 38.49% | 38.49% | 22.99% | 21.00% | 17.21% | | | | |
| CREF Stock Account (R3) (QCSTIX) ^{1,2,3,4} | Allocation-85% + Equity | 04/24/15 07/31/52 | 15.37% | 17.91% | 17.91% | 10.73% | 12.84% | 10.65% | 0.33% | 0.33% | | 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: CREF Stock Account Composite Index | | | 15.44% | 17.93% | 17.93% | 11.57% | 13.52% | 11.18% | | | | |
| Benchmark: Morningstar Aggressive Target Risk TR USD | | | 15.77% | 13.26% | 13.26% | 9.41% | 12.20% | 9.76% | | | | |
| TIAA Access AF EuroPacific Growth T1 (Level 1) ^{5,6,7,8} | Foreign Large Growth | 08/08/07 05/01/09 | 19.92% | 25.14% | 25.14% | 10.63% | 12.34% | 8.01% | 0.56% | 0.56% | | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: MSCI All Country World Index ex USA | | | 17.01% | 10.65% | 10.65% | 4.88% | 8.93% | 4.92% | | | | |
| TIAA Access AF Washington Mutual Investors T1 (Level 1) ^{8,9} | Large Blend | 08/08/07 05/01/09 | 11.46% | 7.97% | 7.97% | 9.72% | 12.55% | 12.37% | 0.37% | 0.37% | | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: S&P 500 Index | | | 12.15% | 18.40% | 18.40% | 14.18% | 15.22% | 13.88% | | | | |
| TIAA Access DFA Emerging Markets Portfolio T1 (Level 1) ^{8,10,11} | Diversified Emerging Mkts | 05/02/11 04/25/94 | 20.21% | 13.77% | 13.77% | 4.40% | 11.70% | 3.16% | 0.63% | 0.53% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: MSCI Emerging Markets Index | | | 19.70% | 18.31% | 18.31% | 6.17% | 12.81% | 3.63% | | | | |
| TIAA Access Dodge & Cox International Stock T1 (Level 1) ^{5,8,11,12} | Foreign Large Value | 05/02/11 05/01/01 | 24.66% | 1.99% | 1.99% | 0.83% | 6.54% | 4.52% | 0.73% | 0.73% | | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: MSCI EAFE Index | | | 16.05% | 7.82% | 7.82% | 4.28% | 7.45% | 5.51% | | | | |
| TIAA Access T. Rowe Price Large-Cap Growth T1 (Level 1) ^{6,8,11,13} | Large Growth | 02/01/07 10/31/01 | 13.02% | 39.42% | 39.42% | 23.09% | 21.42% | 18.06% | 0.66% | 0.66% | | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Russell 1000 Growth Index | | | 11.39% | 38.49% | 38.49% | 22.99% | 21.00% | 17.21% | | | | |
| TIAA Access TIAA-CREF Emerging Markets Equity Index T1 (Level 1) ^{1,8,10,11,14} | Diversified Emerging Mkts | 05/02/11 08/31/10 | 18.78% | 17.56% | 17.56% | 5.92% | 12.60% | 3.25% | 0.30% | 0.30% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: MSCI EM NR USD | | | 19.70% | 18.31% | 18.31% | 6.17% | 12.81% | 3.63% | | | | |

| 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 | | |
| TIAA Access TIAA-CREF Equity Index T1 (Level 1) ^{1,8,11,14} | Large Blend | 02/01/07 07/01/99 | 14.60% | 20.70% | 20.70% | 14.32% | 15.28% | 13.64% | 0.15% | 0.15% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Russell 3000 TR USD | | | 14.68% | 20.89% | 20.89% | 14.49% | 15.43% | 13.79% | | | | |
| TIAA Access TIAA-CREF International Equity Index T1 (Level 1) ^{1,5,8,11,14} | Foreign Large Blend | 02/01/07 10/01/02 | 15.82% | 8.03% | 8.03% | 4.44% | 7.60% | 5.59% | 0.16% | 0.16% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: MSCI EAFE NR USD | | | 16.05% | 7.82% | 7.82% | 4.28% | 7.45% | 5.51% | | | | |
| TIAA Access TIAA-CREF Large-Cap Growth Index T1 (Level 1) ^{1,6,8,11,14} | Large Growth | 02/01/07 10/01/02 | 11.35% | 38.29% | 38.29% | 22.80% | 20.81% | 17.02% | 0.15% | 0.15% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Russell 1000 Growth TR USD | | | 11.39% | 38.49% | 38.49% | 22.99% | 21.00% | 17.21% | | | | |
| TIAA Access TIAA-CREF Large-Cap Value Index T1 (Level 1) ^{1,8,11,12,14} | Large Value | 02/01/07 10/01/02 | 16.22% | 2.80% | 2.80% | 5.94% | 9.59% | 10.33% | 0.15% | 0.15% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Russell 1000 Value TR USD | | | 16.25% | 2.80% | 2.80% | 6.07% | 9.74% | 10.50% | | | | |
| TIAA Access TIAA-CREF Large-Cap Value T1 (Level 1) ^{1,8,11,12,14} | Large Value | 02/01/07 10/01/02 | 17.56% | 3.49% | 3.49% | 4.55% | 8.76% | 9.11% | 0.51% | 0.51% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Russell 1000 Value TR USD | | | 16.25% | 2.80% | 2.80% | 6.07% | 9.74% | 10.50% | | | | |
| TIAA Access TIAA-CREF Mid-Cap Growth T1 (Level 1) ^{1,6,8,11,14,15} | Mid-Cap Growth | 02/01/07 10/01/02 | 23.29% | 45.19% | 45.19% | 21.07% | 17.91% | 14.02% | 0.58% | 0.58% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Russell Mid Cap Growth TR USD | | | 19.02% | 35.59% | 35.59% | 20.50% | 18.66% | 15.04% | | | | |
| TIAA Access TIAA-CREF Mid-Cap Value T1 (Level 1) ^{1,8,11,12,14,15} | Mid-Cap Value | 02/01/07 10/01/02 | 21.47% | -4.29% | -4.29% | 1.38% | 6.29% | 8.10% | 0.54% | 0.54% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Russell Mid Cap Value TR USD | | | 20.43% | 4.96% | 4.96% | 5.37% | 9.73% | 10.49% | | | | |
| TIAA Access TIAA-CREF Real Estate Securities T1 (Level 1) ^{1,8,11,14,16} | Real Estate | 02/01/07 10/01/02 | 8.32% | 1.23% | 1.23% | 8.32% | 8.25% | 9.94% | 0.60% | 0.60% | 07/31/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: FTSE Nareit All Equity REITs TR USD | | | 8.15% | -5.12% | -5.12% | 5.41% | 6.70% | 9.27% | | | | |
| TIAA Access TIAA-CREF S&P 500 Index T1 (Level 1) ^{1,8,11,14} | Large Blend | 02/01/07 10/01/02 | 12.07% | 18.22% | 18.22% | 14.00% | 15.03% | 13.69% | 0.15% | 0.15% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: S&P 500 TR USD | | | 12.15% | 18.40% | 18.40% | 14.18% | 15.22% | 13.88% | | | | |
| TIAA Access TIAA-CREF Small-Cap Blend Index T1 (Level 1) ^{1,8,11,14,15} | Small Blend | 02/01/07 10/01/02 | 31.28% | 20.03% | 20.03% | 10.27% | 13.31% | 11.28% | 0.16% | 0.16% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Russell 2000 TR USD | | | 31.37% | 19.96% | 19.96% | 10.25% | 13.26% | 11.20% | | | | |

| 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 | | |
| TIAA Access TIAA-CREF Social Choice Equity T1 (Level 1) ^{1,6,11,14} | Large Blend | 02/01/07 07/01/99 | 14.10% | 20.22% | 20.22% | 14.23% | 15.34% | 12.94% | 0.27% | 0.27% | 02/28/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Russell 3000 TR USD | | | 14.68% | 20.89% | 20.89% | 14.49% | 15.43% | 13.79% | | | | |
| TIAA Access Vanguard Explorer T1 (Level 1) ^{6,8,15,17} | Small Growth | 05/02/11 11/12/01 | 26.62% | 31.35% | 31.35% | 18.91% | 18.33% | 14.09% | 0.44% | 0.44% | - | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Russell 2500 Growth Index | | | 25.89% | 40.47% | 40.47% | 19.91% | 18.68% | 15.00% | | | | |
| TIAA Access Vanguard Extended Market Index Instl T1 (Level 1) ^{8,15,18} | Mid-Cap Blend | 12/01/16 07/07/97 | 27.40% | 32.10% | 32.10% | 15.24% | 15.94% | 13.12% | 0.15% | 0.15% | - | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: S&P Completion Index | | | 27.40% | 32.17% | 32.17% | 15.21% | 15.93% | 13.12% | | | | |
| TIAA Access Vanguard Small-Cap Value Index T1 (Level 1) ^{8,12,15,19} | Small Value | 05/02/11 12/07/99 | 29.30% | 5.76% | 5.76% | 4.39% | 9.61% | 9.89% | 0.16% | 0.16% | - | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: CRSP US Small Cap Value Index | | | 29.31% | 5.75% | 5.75% | 4.43% | 9.72% | 10.84% | | | | |

| 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) ^{3,20,21} | Miscellaneous Sector | 10/02/95 | 0.59% | -0.84% | -0.84% | 3.11% | 3.78% | 7.14% | 0.78% | 0.78% | - | Transfers out: Limit 1 per quarter. Limitations may apply to any transaction resulting in a balance > \$150,000. |

| 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 Bond Market Account (R3) (QCBMIX) ^{1,2,3,4} | Intermediate Core Bond | 04/24/15 03/01/90 | 1.54% | 7.92% | 7.92% | 5.50% | 4.82% | 4.00% | 0.26% | 0.26% | - | 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: Bloomberg Barclays US Aggregate Bond TR USD | | | 0.67% | 7.51% | 7.51% | 5.34% | 4.44% | 3.84% | | | | |

| 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 Inflation-Linked Bond Account (R3) (QCILX) ^{1,2,3,4} | Inflation-Protected Bond | 04/24/15 05/01/97 | 1.44% | 8.03% | 8.03% | 4.62% | 3.98% | 3.07% | 0.23% | 0.23% | - | 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: Bloomberg Barclays US Treasury Inflation Notes 1-10 Yr TR USD | | | 1.60% | 8.39% | 8.39% | 4.93% | 4.13% | 2.88% | | | | |
| TIAA Access TIAA-CREF Bond Index T1 (Level 1) ^{1,8,11,14} | Intermediate Core Bond | 05/02/11 09/14/09 | 0.64% | 7.38% | 7.38% | 5.11% | 4.18% | 3.59% | 0.21% | 0.21% | 07/31/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Bloomberg Barclays US Aggregate Bond TR USD | | | 0.67% | 7.51% | 7.51% | 5.34% | 4.44% | 3.84% | | | | |
| TIAA Access TIAA-CREF High Yield T1 (Level 1) ^{1,8,11,14,22} | High Yield | 02/01/07 03/31/06 | 5.39% | 2.12% | 2.12% | 4.86% | 7.21% | 6.01% | 0.46% | 0.46% | 07/31/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: ICE BofA BB-B US Cash Pay High Yield Constrained TR USD | | | 5.66% | 6.32% | 6.32% | 6.22% | 8.03% | 6.63% | | | | |
| TIAA Access TIAA-CREF Short-Term Bond T1 (Level 1) ^{1,8,11,14} | Short-Term Bond | 02/01/07 03/31/06 | 0.71% | 3.47% | 3.47% | 2.99% | 2.54% | 2.08% | 0.37% | 0.37% | 07/31/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Bloomberg Barclays US Government/Credit 1-3 Yr TR USD | | | 0.21% | 3.33% | 3.33% | 2.98% | 2.21% | 1.60% | | | | |
| TIAA Access WA Core Plus Bond T1 (Level 1) ^{8,23} | Intermediate Core-Plus Bond | 02/01/07 08/04/08 | 3.14% | 9.41% | 9.41% | 6.52% | 6.22% | 5.33% | 0.52% | 0.52% | 12/31/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Bloomberg Barclays U.S. Aggregate Bond Index | | | 0.67% | 7.51% | 7.51% | 5.34% | 4.44% | 3.84% | | | | |

| 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) ^{1,2,3,4} | Allocation-50% to 70% Equity | 04/24/15 03/01/90 | 9.35% | 13.52% | 13.52% | 9.49% | 10.00% | 8.44% | 0.26% | 0.26% | - | 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: CREF Social Choice Account Composite Index | | | 9.26% | 13.89% | 13.89% | 9.40% | 9.89% | 8.67% | | | | |
| Benchmark: Morningstar Moderate Target Risk TR USD | | | 10.24% | 12.82% | 12.82% | 8.55% | 9.75% | 7.77% | | | | |

| 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 | | |
| TIAA Access TIAA-CREF Lifecycle 2010 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2000-2010 | 02/01/07 01/17/07 | 6.74% | 11.13% | 11.13% | 7.15% | 8.01% | 7.02% | 0.62% | 0.47% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2010 Fund Composite Index | | | 6.52% | 11.95% | 11.95% | 7.96% | 8.22% | 7.13% | | | | |
| Benchmark: S&P Target Date 2010 TR USD | | | 5.96% | 9.95% | 9.95% | 6.79% | 7.22% | 6.15% | | | | |
| TIAA Access TIAA-CREF Lifecycle 2015 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2015 | 02/01/07 01/17/07 | 7.41% | 11.69% | 11.69% | 7.47% | 8.46% | 7.43% | 0.62% | 0.48% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2015 Fund Composite Index | | | 7.25% | 12.57% | 12.57% | 8.34% | 8.74% | 7.59% | | | | |
| Benchmark: S&P Target Date 2015 TR USD | | | 6.79% | 10.28% | 10.28% | 7.03% | 7.79% | 6.77% | | | | |
| TIAA Access TIAA-CREF Lifecycle 2020 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2020 | 02/01/07 01/17/07 | 8.10% | 12.26% | 12.26% | 7.76% | 9.01% | 7.94% | 0.63% | 0.49% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2020 Fund Composite Index | | | 7.97% | 13.13% | 13.13% | 8.72% | 9.35% | 8.16% | | | | |
| Benchmark: S&P Target Date 2020 TR USD | | | 7.37% | 10.24% | 10.24% | 7.18% | 8.29% | 7.29% | | | | |
| TIAA Access TIAA-CREF Lifecycle 2025 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2025 | 02/01/07 01/17/07 | 9.22% | 13.33% | 13.33% | 8.27% | 9.73% | 8.54% | 0.65% | 0.51% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2025 Fund Composite Index | | | 9.11% | 13.98% | 13.98% | 9.25% | 10.11% | 8.80% | | | | |
| Benchmark: S&P Target Date 2025 TR USD | | | 9.01% | 11.22% | 11.22% | 7.73% | 9.08% | 7.88% | | | | |
| TIAA Access TIAA-CREF Lifecycle 2030 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2030 | 02/01/07 01/17/07 | 10.51% | 14.43% | 14.43% | 8.77% | 10.44% | 9.09% | 0.66% | 0.52% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2030 Fund Composite Index | | | 10.29% | 14.83% | 14.83% | 9.78% | 10.88% | 9.43% | | | | |
| Benchmark: S&P Target Date 2030 TR USD | | | 10.52% | 11.91% | 11.91% | 8.19% | 9.78% | 8.41% | | | | |
| TIAA Access TIAA-CREF Lifecycle 2035 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2035 | 02/01/07 01/17/07 | 11.68% | 15.37% | 15.37% | 9.22% | 11.10% | 9.60% | 0.68% | 0.53% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2035 Fund Composite Index | | | 11.47% | 15.63% | 15.63% | 10.27% | 11.61% | 10.01% | | | | |
| Benchmark: S&P Target Date 2035 TR USD | | | 12.20% | 12.79% | 12.79% | 8.67% | 10.47% | 8.91% | | | | |

| 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 | | |
| TIAA Access TIAA-CREF Lifecycle 2040 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2040 | 02/01/07 01/17/07 | 12.92% | 16.32% | 16.32% | 9.62% | 11.73% | 10.01% | 0.70% | 0.54% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2040 Fund Composite Index | | | 12.66% | 16.31% | 16.31% | 10.68% | 12.29% | 10.48% | | | | |
| Benchmark: S&P Target Date 2040 TR USD | | | 13.36% | 13.37% | 13.37% | 9.00% | 10.95% | 9.26% | | | | |
| TIAA Access TIAA-CREF Lifecycle 2045 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2045 | 05/01/08 11/30/07 | 14.01% | 17.19% | 17.19% | 10.00% | 12.15% | 10.21% | 0.71% | 0.55% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2045 Fund Composite Index | | | 13.85% | 17.08% | 17.08% | 11.08% | 12.75% | 10.71% | | | | |
| Benchmark: S&P Target Date 2045 TR USD | | | 14.02% | 13.66% | 13.66% | 9.15% | 11.24% | 9.49% | | | | |
| TIAA Access TIAA-CREF Lifecycle 2050 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2050 | 05/01/08 11/30/07 | 14.16% | 17.32% | 17.32% | 10.04% | 12.26% | 10.28% | 0.72% | 0.55% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2050 Fund Composite Index | | | 14.12% | 17.25% | 17.25% | 11.17% | 12.89% | 10.78% | | | | |
| Benchmark: S&P Target Date 2050 TR USD | | | 14.40% | 13.86% | 13.86% | 9.24% | 11.44% | 9.67% | | | | |
| TIAA Access TIAA-CREF Lifecycle 2055 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2055 | 05/01/12 04/29/11 | 14.34% | 17.40% | 17.40% | 10.10% | 12.37% | 10.97% | 0.74% | 0.55% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2055 Fund Composite Index | | | 14.30% | 17.35% | 17.35% | 11.23% | 13.02% | 11.46% | | | | |
| Benchmark: S&P Target Date 2055 TR USD | | | 14.56% | 13.86% | 13.86% | 9.26% | 11.55% | 10.48% | | | | |
| TIAA Access TIAA-CREF Lifecycle 2060 T1 (Level 1) ^{1,8,11,14,24,25,26} | Target-Date 2060+ | 05/01/15 09/26/14 | 14.55% | 17.64% | 17.64% | 10.19% | 12.48% | 9.86% | 0.82% | 0.55% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle 2060 Fund Composite Index | | | 14.49% | 17.44% | 17.44% | 11.28% | 13.14% | 10.43% | | | | |
| Benchmark: S&P Target Date 2060+ TR USD | | | 14.56% | 13.99% | 13.99% | 9.38% | 11.71% | 9.15% | | | | |
| TIAA Access TIAA-CREF Lifecycle Retirement Income T1 (Level 1) ^{1,8,11,14,24,25,26,27} | Allocation-30% to 50% Equity | 05/01/08 11/30/07 | 6.61% | 10.99% | 10.99% | 7.09% | 7.82% | 6.70% | 0.64% | 0.47% | 09/30/21 | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: Lifecycle Retirement Income Fund Composite Index | | | 6.57% | 12.08% | 12.08% | 7.97% | 8.04% | 6.79% | | | | |
| Benchmark: S&P Target Date Retirement Income TR USD | | | 4.93% | 8.81% | 8.81% | 6.32% | 6.50% | 5.47% | | | | |

| 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 | | |
| TIAA Access Vanguard Wellington T1 (Level 1) ^{8,28} | Allocation-50% to 70% Equity | 05/02/11 05/14/01 | 8.18% | 10.58% | 10.58% | 9.36% | 10.72% | 9.79% | 0.27% | 0.27% | - | Round Trip: You cannot transfer into the account within 30 calendar days of transferring out. |
| Benchmark: S&P 500 Index | | | 12.15% | 18.40% | 18.40% | 14.18% | 15.22% | 13.88% | | | | |

| Money Market - Variable Annuity | 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 | | |
| CREF Money Market Account (R3) (QCM MIX) ^{1,2,3,4,29,30} | Money Market-Taxable | 04/24/15 04/01/88 | 0.00% | 0.00% | 0.38% | 0.38% | 1.28% | 0.90% | 0.45% | 0.23% | 0.23% | - | - |
| Benchmark: iMoneyNet Money Fund Averages-All Government | | | | 0.00% | 0.28% | 0.28% | 1.16% | 0.80% | 0.41% | | | | |

You could lose money by investing in the CREF Money Market Account. Because the accumulation unit value of the Account will fluctuate, the value of your investment may increase or decrease. An investment in the Account is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The Account's sponsor has no legal obligation to provide support to the Account, and you should not expect that the sponsor will provide financial support to the Account 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 and Fees | | | | |
|---|----------------|---------------|-----|------------------------------|--------|--------|---------|------------------------|---------------|--------------------|----------|-------------------------|
| | | 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 - State University Of New York - Optional Retirement Program ^{31,32} | 04/30/20 | 0.20% | - | - | - | - | - | 0.57% | 1.05% | 0.29% | 0.76% | 1.00% |

Additional Information:

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 January 1, 2021 and ending June 30, 2021. During this same period, the minimum declared interest rate is 1.00%. 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 | 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 ^{31,33,34} | - | 0.93% | 3.75% | 3.75% | 3.79% | 3.85% | 3.96% | - | 3.00% | 3.00% |

Additional Information:

The current rate shown applies to premiums remitted during the month of January 2021 and will be credited through 2/28/2021. 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 ^{31,33,34} | - | 0.93% | 3.75% | 3.75% | 3.79% | 3.85% | 3.96% | - | 3.00% | 3.00% |

Additional Information:

The current rate shown applies to premiums remitted during the month of January 2021 and will be credited through 2/28/2021. 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.

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 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. 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.

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 When more than one inception date is shown, the performance displayed for periods prior to the investment's inception date is hypothetical. The second inception date is that of the fund/account to which such performance is based. Please refer to the investment's performance disclosure for more details.

2 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.

3 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.

4 The performance shown for Class R3 that is prior to its inception date is based on the performance of the Account's Class R1. The performance for these periods has not been restated to reflect the lower expenses of Class R3. If these lower expenses had been reflected, the performance of Class R3 for these periods would have been higher.

5 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.

6 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.

7 Performance "Since Inception" is based upon the underlying fund account inclusion date. Performance for periods prior to the date the Underlying Investment was first included in the TIAA Access variable annuity is based upon the performance of the underlying fund investment. Such performance was not available in the variable annuity prior to the fund's inclusion in the variable annuity. The performance of the underlying fund reflects the performance of the R5 share class from its inception to 6/30/2017, and R6 share class performance thereafter. Account performance above is net of all annuity contract recurring costs such as mortality and expense risk charges and annual administrative fees. Pre-inclusion fund performance is also adjusted for these costs.

8 Please note that with respect to variable annuities, your contributions will be allocated to the underlying investments.

9 Performance "Since Inception" is based upon the underlying fund account inclusion date. Performance for periods prior to the date the Underlying Investment was first included in the TIAA Access variable annuity is based upon the performance of the underlying fund investment. Such performance was not available in the variable annuity prior to the fund's inclusion in the variable annuity. The performance of the underlying fund reflects the performance of the R5 share class from its inception to 6/30/2017, and R6 share class performance thereafter. Account performance above is net of all annuity contract recurring costs such as mortality and expense risk charges and annual administrative fees. Pre-inclusion fund performance is also adjusted for these costs.

10 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.

11 Performance "Since Inception" is based upon the underlying fund account inclusion date. Performance for periods prior to the date the Underlying Investment was first included in the TIAA Access variable annuity is based upon the performance of the underlying fund investment. Such performance was not available in the variable annuity prior to the fund's inclusion in the variable annuity. Account performance above is net of all annuity contract recurring costs such as mortality and expense risk charges and annual administrative fees. Pre-inclusion fund performance is also adjusted for these costs.

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

13 Prior to May 1, 2020, the TIAA Access T. Rowe Price Large-Cap Growth I Fund was known as the TIAA Access T. Rowe Price Institutional Large-Cap Growth Fund.

14 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.

15 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.

16 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.

17 Performance "Since Inception" is based upon the underlying fund account inclusion date. Performance for periods prior to the date the Underlying Investment was first included in the TIAA Access variable annuity is based upon the performance of the underlying fund investment. Such performance was not available in the variable annuity prior to the fund's inclusion in the variable annuity. The performance of the underlying fund reflects the performance of the Investor share class from its inception to 1/20/2017, and Admiral share class performance thereafter. Account performance above is net of all annuity contract recurring costs such as mortality and expense risk charges and annual administrative fees. Pre-inclusion fund performance is also adjusted for these costs.

18 Performance "Since Inception" is based upon the underlying fund account inclusion date. Performance for other periods prior to the date the Underlying Investment was first included in the TIAA Access variable annuity is based upon the performance of the underlying fund investment. Such performance was not available in the variable annuity prior to the fund's inclusion in the variable annuity. The performance of the underlying fund reflects the performance of the Admiral share class from its inception to 04/30/2018, and Institutional share class performance thereafter. Account performance above is net of all annuity contract recurring costs such as mortality and expense risk charges and annual administrative fees. Pre-inclusion fund performance is also adjusted for these costs.

19 Performance "Since Inception" is based upon the underlying fund account inclusion date. Performance for periods prior to the date the Underlying Investment was first included in the TIAA Access variable annuity is based upon the performance of the underlying fund investment. Such performance was not available in the variable annuity prior to the fund's inclusion in the variable annuity. The performance of the underlying fund reflects the performance of the Investor share class from its inception to 1/20/2017, and Institutional share class performance thereafter. Account performance above is net of all annuity contract recurring costs such as mortality and expense risk charges and annual administrative fees. Pre-inclusion fund performance is also adjusted for these costs.

20 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.

21 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.

22 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.

23 Performance "Since Inception" is based upon the underlying fund account inclusion date. Performance for periods prior to the date the Underlying Investment was first included in the TIAA Access variable annuity is based upon the performance of the underlying fund investment. Such performance was not available in the variable annuity prior to the fund's inclusion in the variable annuity. The performance of the underlying fund reflects the performance of the I share class from its inception to 6/30/2017, and IS share class performance thereafter. Account performance above is net of all annuity contract recurring costs such as mortality and expense risk charges and annual administrative fees. Pre-inclusion fund performance is also adjusted for these costs.

24 Target-date variable annuity accounts are actively managed, so their asset allocations are subject to change and may vary from those shown. The underlying target-date fund invests in many other funds, which exposes the target-date variable annuity account to the risks of different areas of the market. Please note that, as with all target-date variable annuity accounts, the principal value of a Target Retirement variable annuity account is not guaranteed. The higher an account's allocation to stocks, the greater the risk. After the target date has been reached, some of these accounts may be merged into an account with a more stable asset allocation. The expense charge may include fees for the underlying target-date fund and its investments; in general, a target-date variable annuity account's underlying fund indirectly bears its pro rata share of the fees and expenses incurred by the funds in which it invests.

25 Advisors has contractually agreed to waive the Fund's entire 0.10% Management fee. This waiver will remain in effect through September 30, 2021, unless changed with the approval of the Board of Trustees. The Management fee has been fully waived since the Fund's inception.

26 As Target Retirement Date variable annuity accounts 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 variable annuity accounts, the principal value of a Target Retirement Date variable annuity account is not guaranteed. The higher an account's allocation to stocks, the greater the risk. After the target date has been reached, some of these variable annuity accounts may be merged into an account with a more stable asset allocation. In addition to the account level expenses, these variable annuity accounts are also subject to the expenses of their underlying investments. Please consult the prospectus for more complete information.

27 Please note that performance represents returns during the accumulation phase of this investment account. If you choose to annuitize, different charges and performance calculations will apply so the performance results will differ.

28 Performance "Since Inception" is based upon the underlying fund account inclusion date. Performance for periods prior to the date the Underlying Investment was first included in the TIAA Access variable annuity is based upon the performance of the underlying fund investment. Such performance was not available in the variable annuity prior to the fund's inclusion in the variable annuity. The performance of the underlying fund reflects the performance of the Investor share class from its inception to 1/20/2017, and Admiral share class performance thereafter. Account performance above is net of all annuity contract recurring costs such as mortality and expense risk charges and annual administrative fees. Pre-inclusion fund performance is also adjusted for these costs.

29 Between July 16, 2009 and March 7, 2017, TIAA withheld ("waived") a portion of the 12b-1 distribution and/or administrative expenses for each class of the CREF Money Market Account when a class's yield was less than zero. Without this waiver, the total returns of the Money Market Account would have been lower. For a period of three years after the date an amount was waived, it was eligible for recoupment by TIAA, under certain conditions. All eligible expenses were recouped by July 2018 for Class R3, September 2018 for Class R2 and June 2019 for Class R1. TIAA has agreed to withhold ("waive") a portion of the Rule 12b-1 distribution and/or administrative expenses for each class of the CREF Money Market Account (the "Account") when a class's yield is less than zero. Without this waiver, the total returns of each class of the Account would be lower, and could be negative. TIAA may, for a period of three years after the date an amount was waived, recover from the Account a portion of the amounts waived at such time as the class's daily yield would be positive absent the effect of the waiver and, in such event, the amount of recovery on any day will be approximately 25% of the class's yield (net of all other expenses) on that day. This limited waiver may be terminated at any time and, in any event, will extend only through June 30, 2021.

30 iMoneyNet reports yields as of the last Tuesday of the month. Yields for the iMoneyNet Money Fund Report Averages-All Taxable and the annuity account(s) that track this industry average are calculated based on this date.

31 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.

32 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.

33 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.

34 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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