Investment Performance as of 12/31/2017

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.

Lifecycle

<table>
<thead>
<tr>
<th>Multi Asset - Mutual Fund</th>
<th>Morningstar Category</th>
<th>Inception Date</th>
<th>3 Month</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Year</th>
<th>5 Year</th>
<th>10 Year/Since Inception</th>
<th>Gross</th>
<th>Net</th>
<th>Fee Waiver Expiration</th>
<th>Shareholder Fees &amp; Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIAA-CREF Lifecycle 2010 Fund (Institutional)</td>
<td>Target-Date 2000-2010</td>
<td>1/17/2007 10/15/2004</td>
<td>2.69%</td>
<td>12.76%</td>
<td>12.76%</td>
<td>6.33%</td>
<td>7.09%</td>
<td>5.16%</td>
<td>0.50%</td>
<td>0.38%</td>
<td>$5.00</td>
<td>9/30/2018 Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<td>Benchmark: Lifecycle 2010 Fund Composite Index</td>
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<td>2.72%</td>
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<td>11.19%</td>
<td>5.58%</td>
<td>6.81%</td>
<td>5.10%</td>
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<tr>
<td>Benchmark: S&amp;P Target Date 2010 Index</td>
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<td>2.53%</td>
<td>9.95%</td>
<td>9.95%</td>
<td>5.10%</td>
<td>5.94%</td>
<td>4.56%</td>
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<tr>
<td>TIAA-CREF Lifecycle 2015 Fund (Institutional)</td>
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<td>1/17/2007 10/15/2004</td>
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<td>13.85%</td>
<td>13.85%</td>
<td>6.75%</td>
<td>7.75%</td>
<td>5.23%</td>
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<td>9/30/2018 Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<td>2.85%</td>
<td>11.39%</td>
<td>11.39%</td>
<td>5.82%</td>
<td>6.99%</td>
<td>4.97%</td>
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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.
<table>
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<th>Multi Asset - Mutual Fund</th>
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<tr>
<td><strong>TIAA-CREF Lifecycle 2020 Fund (Institutional)</strong> (TCWX)&lt;sup&gt;1,2,3,4,5,10&lt;/sup&gt;</td>
<td>Target-Date 2020</td>
<td>1/17/2007 10/15/2004</td>
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<td>15.58%</td>
<td>7.37%</td>
<td>8.63%</td>
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<td>5.41%</td>
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<td>Target-Date 2025</td>
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<td>14.55%</td>
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<td>8.76%</td>
<td>5.53%</td>
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<td>Multi Asset - Mutual Fund</td>
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<td>Shareholder Fees &amp; Restrictions</td>
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<td>Target-Date 2030</td>
<td>9/30/2009</td>
<td>4.09%</td>
<td>17.06%</td>
<td>17.06%</td>
<td>7.95%</td>
<td>10.17%</td>
<td>9.89%</td>
<td>0.21%</td>
<td>0.10%</td>
<td>9/30/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<td>Benchmark: Lifecycle Index 2030 Fund Composite Index</td>
<td></td>
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<td>4.28%</td>
<td>17.12%</td>
<td>17.12%</td>
<td>8.01%</td>
<td>10.35%</td>
<td>10.03%</td>
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<tr>
<td>Benchmark: S&amp;P Target Date 2030 Index</td>
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<td>4.24%</td>
<td>16.19%</td>
<td>16.19%</td>
<td>7.87%</td>
<td>9.57%</td>
<td>9.50%</td>
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<td>Multi Asset - Mutual Fund</td>
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<td>1 Year</td>
<td>3 Year</td>
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<td>10 Year/ Since Inception</td>
<td>Gross</td>
<td>Net</td>
<td>Fee Waiver Expiration</td>
<td>Shareholder Fees &amp; Restrictions</td>
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<td>TIAA-CREF Lifecycle Index 2035 Fund (Institutional) (TLXIX)</td>
<td>Target-Date 2035</td>
<td>9/30/2009</td>
<td>4.52%</td>
<td>18.72%</td>
<td>18.72%</td>
<td>8.60%</td>
<td>11.08%</td>
<td>10.53%</td>
<td>0.21%</td>
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<td>9/30/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<td>Benchmark: S&amp;P Target Date 2035 Index</td>
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<td>TIAA-CREF Lifecycle Index 2040 Fund (Institutional) (TLZIX)</td>
<td>Target-Date 2040</td>
<td>9/30/2009</td>
<td>4.98%</td>
<td>20.37%</td>
<td>20.37%</td>
<td>9.24%</td>
<td>11.76%</td>
<td>10.97%</td>
<td>0.20%</td>
<td>0.10%</td>
<td>9/30/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<td>Benchmark: S&amp;P Target Date 2040 Index</td>
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<tr>
<td>TIAA-CREF Lifecycle Index 2045 Fund (Institutional) (TLXIX)</td>
<td>Target-Date 2045</td>
<td>9/30/2009</td>
<td>5.22%</td>
<td>21.18%</td>
<td>21.18%</td>
<td>9.56%</td>
<td>11.97%</td>
<td>11.09%</td>
<td>0.21%</td>
<td>0.10%</td>
<td>9/30/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<td>Benchmark: S&amp;P Target Date 2045 Index</td>
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<td>TIAA-CREF Lifecycle Index 2050 Fund (Institutional) (TLXIX)</td>
<td>Target-Date 2050</td>
<td>9/30/2009</td>
<td>5.31%</td>
<td>21.52%</td>
<td>21.52%</td>
<td>9.74%</td>
<td>12.07%</td>
<td>11.15%</td>
<td>0.22%</td>
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<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<td>Benchmark: S&amp;P Target Date 2050 Index</td>
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<td>TIAA-CREF Lifecycle Index 2055 Fund (Institutional) (TLXIX)</td>
<td>Target-Date 2055</td>
<td>4/29/2011</td>
<td>5.35%</td>
<td>21.72%</td>
<td>21.72%</td>
<td>9.86%</td>
<td>12.14%</td>
<td>9.72%</td>
<td>0.31%</td>
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<td>9/30/2018</td>
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<tr>
<td>TIAA-CREF Lifecycle Index 2060 Fund (Institutional) (TVIX)</td>
<td>Target-Date 2060+</td>
<td>9/26/2014</td>
<td>5.39%</td>
<td>21.88%</td>
<td>21.88%</td>
<td>9.98%</td>
<td>-</td>
<td>9.64%</td>
<td>1.00%</td>
<td>0.10%</td>
<td>9/30/2018</td>
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<td>Benchmark: S&amp;P Target Date 2060+ Index</td>
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<tr>
<td>TIAA-CREF Lifecycle Index Retirement Income Fund (Institutional) (TRILX)</td>
<td>Target-Date Retirement</td>
<td>9/30/2009</td>
<td>2.46%</td>
<td>10.50%</td>
<td>10.50%</td>
<td>5.24%</td>
<td>6.05%</td>
<td>6.82%</td>
<td>0.37%</td>
<td>0.10%</td>
<td>9/30/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
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<td>Benchmark: Lifecycle Index Retirement Income Fund Composite Index</td>
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<td>Benchmark: S&amp;P Target Date Retirement Index</td>
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<tr>
<td>Multi Asset - Mutual Fund</td>
<td>Morningstar Category</td>
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<td>3 Month</td>
<td>YTD</td>
<td>1 Year</td>
<td>3 Year</td>
<td>5 Year</td>
<td>10 Year/Inception</td>
<td>Gross</td>
<td>Net</td>
<td>Fee Waiver Expiration</td>
<td>Shareholder Fees &amp; Restrictions</td>
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<td>TIAA-CREF Lifecycle Retirement Income Fund (Institutional) (TLRIX)</td>
<td>Target-Date Retirement</td>
<td>11/30/2007</td>
<td>2.55%</td>
<td>12.10%</td>
<td>12.10%</td>
<td>6.02%</td>
<td>6.47%</td>
<td>5.27%</td>
<td>0.54%</td>
<td>0.38%</td>
<td>9/30/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<td>Benchmark: Lifecycle Retirement Income Fund Composite Index</td>
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<td>2.57%</td>
<td>10.55%</td>
<td>10.55%</td>
<td>5.30%</td>
<td>6.15%</td>
<td>5.22%</td>
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<tr>
<td>Benchmark: S&amp;P Target Date Retirement Income Index</td>
<td></td>
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<td>2.24%</td>
<td>8.54%</td>
<td>8.54%</td>
<td>4.39%</td>
<td>4.86%</td>
<td>4.12%</td>
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<td>Gross</td>
<td>Net</td>
<td>Fee Waiver Expiration</td>
<td>Shareholder Fees &amp; Restrictions</td>
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<tr>
<td>CREF Stock Account (R3) (QCSTIX)</td>
<td>Allocation--85% + Equity</td>
<td>4/24/2015</td>
<td>7/31/1952</td>
<td>5.72%</td>
<td>23.43%</td>
<td>23.43%</td>
<td>12.69%</td>
<td>6.44%</td>
<td>0.32%</td>
<td>0.32%</td>
<td>$3.20</td>
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<td>Benchmark: CREF Stock Account Composite Index</td>
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<td>Benchmark: Morningstar Aggressive Target Risk Index</td>
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<tr>
<th>Equities - Mutual Fund</th>
<th>Morningstar Category</th>
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<th>3 Month</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Year</th>
<th>5 Year</th>
<th>10 Year/ Since Inception</th>
<th>Gross</th>
<th>Net</th>
<th>Fee Waiver Expiration</th>
<th>Shareholder Fees &amp; Restrictions</th>
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<tbody>
<tr>
<td>Carillon Eagle Mid Cap Growth Fund Class R6 (HRAUX)</td>
<td>Mid-Cap</td>
<td>8/15/2011</td>
<td>6.98%</td>
<td>30.44%</td>
<td>30.44%</td>
<td>12.80%</td>
<td>16.90%</td>
<td>15.43%</td>
<td>0.72%</td>
<td>0.72%</td>
<td>$7.20</td>
<td>$7.20</td>
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<td>Benchmark: Russell Mid Cap Growth TR USD</td>
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<tr>
<td>Goldman Sachs Small Cap Value Fund Institutional Class (GSSIX)</td>
<td>Small Blend</td>
<td>8/15/1997</td>
<td>4.01%</td>
<td>12.34%</td>
<td>12.34%</td>
<td>9.83%</td>
<td>14.56%</td>
<td>10.64%</td>
<td>0.97%</td>
<td>0.95%</td>
<td>$9.70</td>
<td>$9.50</td>
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<td>Benchmark: Russell 2000 Value TR USD</td>
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<tr>
<td>John Hancock Funds Disciplined Value Mid Cap Fund Class R6 (JMRX)</td>
<td>Mid-Cap Blend</td>
<td>9/1/2011</td>
<td>5.07%</td>
<td>15.69%</td>
<td>15.69%</td>
<td>10.88%</td>
<td>16.65%</td>
<td>16.97%</td>
<td>0.77%</td>
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<td>$7.70</td>
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<td>MFS International Value Fund Class R6 (MINJX)</td>
<td>Foreign Large Blend</td>
<td>5/1/2006</td>
<td>5.94%</td>
<td>27.25%</td>
<td>27.25%</td>
<td>12.35%</td>
<td>12.99%</td>
<td>6.94%</td>
<td>0.66%</td>
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<td>$6.60</td>
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<td>MFS Value Fund Class R6 (MEIKX)</td>
<td>Large Value</td>
<td>5/1/2006</td>
<td>5.03%</td>
<td>17.86%</td>
<td>17.86%</td>
<td>10.27%</td>
<td>15.07%</td>
<td>7.85%</td>
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<td>Equities - Mutual Fund</td>
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<td>Inception Date</td>
<td>3 Month</td>
<td>YTD</td>
<td>1 Year</td>
<td>3 Year</td>
<td>5 Year</td>
<td>10 Year/ Since Inception</td>
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<td>Net</td>
<td>Fee Waiver</td>
<td>Expiration</td>
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<tr>
<td>Prudential Jennison Small Company Fund Class Q (PJSQX)**</td>
<td>Small Growth</td>
<td>11/29/2010</td>
<td>4.98%</td>
<td>20.03%</td>
<td>20.03%</td>
<td>9.67%</td>
<td>14.01%</td>
<td>12.19%</td>
<td>0.68%</td>
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<td>5.24%</td>
<td>16.81%</td>
<td>16.81%</td>
<td>10.07%</td>
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<td>T. Rowe Price Institutional Large Cap Growth Fund (TRLGX)**</td>
<td>Large Growth</td>
<td>10/31/2001</td>
<td>7.29%</td>
<td>37.82%</td>
<td>37.82%</td>
<td>15.99%</td>
<td>19.63%</td>
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<td>0.56%</td>
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<td>$5.60</td>
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<td>Benchmark: Russell 1000 Growth TR USD</td>
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<td>7.86%</td>
<td>30.21%</td>
<td>30.21%</td>
<td>13.79%</td>
<td>17.33%</td>
<td>10.00%</td>
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<td>Vanguard Institutional Index Fund Institutional Shares (VINIX)**</td>
<td>Large Blend</td>
<td>7/31/1990</td>
<td>6.63%</td>
<td>21.79%</td>
<td>21.79%</td>
<td>11.38%</td>
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<td>Benchmark: S&amp;P 500 TR USD</td>
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<td>6.64%</td>
<td>21.83%</td>
<td>21.83%</td>
<td>11.41%</td>
<td>15.79%</td>
<td>8.50%</td>
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<tr>
<td>Vanguard Mid-Cap Index Fund Institutional Shares (VMCIX)**</td>
<td>Mid-Cap Blend</td>
<td>5/21/1998</td>
<td>5.67%</td>
<td>19.29%</td>
<td>19.29%</td>
<td>9.40%</td>
<td>15.02%</td>
<td>8.94%</td>
<td>0.05%</td>
<td>0.05%</td>
<td>$0.50</td>
<td>$0.50</td>
</tr>
<tr>
<td>Benchmark: CRSP US Mid Cap TR USD</td>
<td></td>
<td></td>
<td>5.65%</td>
<td>19.30%</td>
<td>19.30%</td>
<td>9.42%</td>
<td>15.07%</td>
<td>8.79%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Small-Cap Index Fund Institutional Shares (VSCIX)**</td>
<td>Small Blend</td>
<td>7/7/1997</td>
<td>5.10%</td>
<td>16.25%</td>
<td>16.25%</td>
<td>9.85%</td>
<td>14.45%</td>
<td>9.71%</td>
<td>0.05%</td>
<td>0.05%</td>
<td>$0.50</td>
<td>$0.50</td>
</tr>
<tr>
<td>Benchmark: CRSP US Small Cap TR USD</td>
<td></td>
<td></td>
<td>5.10%</td>
<td>16.24%</td>
<td>16.24%</td>
<td>9.81%</td>
<td>14.54%</td>
<td>10.03%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Total International Stock Index Fund Admiral Shares (VTIAX)**</td>
<td>Foreign Large Blend</td>
<td>11/29/2010</td>
<td>4.88%</td>
<td>27.55%</td>
<td>27.55%</td>
<td>8.53%</td>
<td>7.12%</td>
<td>6.15%</td>
<td>0.11%</td>
<td>0.11%</td>
<td>$1.10</td>
<td>$1.10</td>
</tr>
<tr>
<td>Benchmark: MSCI ACWI Ex USA NR USD</td>
<td></td>
<td></td>
<td>5.00%</td>
<td>27.19%</td>
<td>27.19%</td>
<td>7.83%</td>
<td>6.80%</td>
<td>5.91%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Real Estate - Variable Annuity</th>
<th>Morningstar Category</th>
<th>Inception Date</th>
<th>3 Month</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Year</th>
<th>5 Year</th>
<th>10 Year/ Since Inception</th>
<th>Gross</th>
<th>Net</th>
<th>Fee Waiver</th>
<th>Expiration</th>
<th>Shareholder Fees &amp; Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIAA Real Estate Account (QREARX)**</td>
<td>Miscellaneous Sector</td>
<td>10/2/1995</td>
<td>1.29%</td>
<td>4.37%</td>
<td>4.37%</td>
<td>5.90%</td>
<td>7.88%</td>
<td>2.49%</td>
<td>0.85%</td>
<td>0.85%</td>
<td>$8.50</td>
<td>$8.50</td>
<td>Transfers out: Limit 1 per quarter. Limitations may apply to any transaction resulting in a balance &gt; $150,000.</td>
</tr>
<tr>
<td>Fixed Income - Mutual Fund</td>
<td>Morningstar Category</td>
<td>Inception Date</td>
<td>3 Month</td>
<td>YTD</td>
<td>1 Year</td>
<td>3 Year</td>
<td>5 Year</td>
<td>10 Year/Since Inception</td>
<td>Gross</td>
<td>Net</td>
<td>Fee Waiver Expiration</td>
<td>Shareholder Fees &amp; Restrictions</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------</td>
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<td>------------------------</td>
<td>---------------------------------</td>
<td></td>
</tr>
<tr>
<td>Federated Short-Term Income Fund Institutional Shares (FSTIX)</td>
<td>Short-Term Bond</td>
<td>7/1/1986</td>
<td>0.11%</td>
<td>1.75%</td>
<td>1.75%</td>
<td>1.22%</td>
<td>0.96%</td>
<td>2.33%</td>
<td>0.85%</td>
<td>0.53%</td>
<td>7/1/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
<td></td>
</tr>
<tr>
<td>Benchmark: BBgBarc US Govt/Credit 1-3 Yr TR USD</td>
<td></td>
<td></td>
<td>-0.21%</td>
<td>0.84%</td>
<td>0.84%</td>
<td>0.93%</td>
<td>0.84%</td>
<td>1.85%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prudential Total Return Bond Fund Class Q (PTRQX)</td>
<td>Intermediate-Term Bond</td>
<td>12/27/2010</td>
<td>1.11%</td>
<td>6.71%</td>
<td>6.71%</td>
<td>3.84%</td>
<td>3.54%</td>
<td>5.13%</td>
<td>0.41%</td>
<td>0.41%</td>
<td>-</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
<td></td>
</tr>
<tr>
<td>Benchmark: BBgBarc US Agg Bond TR USD</td>
<td></td>
<td></td>
<td>0.39%</td>
<td>3.54%</td>
<td>3.54%</td>
<td>2.24%</td>
<td>2.10%</td>
<td>3.26%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Long-Term Investment-Grade Fund Admiral Shares (VWETX)</td>
<td>Corporate Bond</td>
<td>2/12/2001</td>
<td>3.36%</td>
<td>12.05%</td>
<td>12.05%</td>
<td>5.78%</td>
<td>5.70%</td>
<td>7.89%</td>
<td>0.11%</td>
<td>0.11%</td>
<td>-</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
<td></td>
</tr>
<tr>
<td>Benchmark: BBgBarc US Credit A+ Long TR</td>
<td></td>
<td></td>
<td>3.27%</td>
<td>11.49%</td>
<td>11.49%</td>
<td>5.65%</td>
<td>5.20%</td>
<td>7.38%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Total Bond Market Index Fund Institutional Shares (VBTIX)</td>
<td>Intermediate-Term Bond</td>
<td>9/18/1995</td>
<td>0.41%</td>
<td>3.57%</td>
<td>3.57%</td>
<td>2.19%</td>
<td>2.03%</td>
<td>3.97%</td>
<td>0.04%</td>
<td>0.04%</td>
<td>-</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
<td></td>
</tr>
<tr>
<td>Benchmark: BBgBarc US Agg Float Adj TR USD</td>
<td></td>
<td></td>
<td>0.41%</td>
<td>3.63%</td>
<td>3.63%</td>
<td>2.27%</td>
<td>2.10%</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Multi Asset - Variable Annuity</th>
<th>Morningstar Category</th>
<th>Inception Date</th>
<th>3 Month</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Year</th>
<th>5 Year</th>
<th>10 Year/Since Inception</th>
<th>Gross</th>
<th>Net</th>
<th>Fee Waiver Expiration</th>
<th>Shareholder Fees &amp; Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CREF Social Choice Account (R3) (QSCCSIX)</td>
<td>Allocation--50% to 70% Equity</td>
<td>4/24/2015</td>
<td>3.44%</td>
<td>14.27%</td>
<td>14.27%</td>
<td>6.75%</td>
<td>8.68%</td>
<td>6.04%</td>
<td>0.27%</td>
<td>0.27%</td>
<td>-</td>
<td>Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.</td>
</tr>
<tr>
<td>Benchmark: CREF Social Choice Account Composite Index</td>
<td></td>
<td>3/1/1990</td>
<td>3.56%</td>
<td>14.34%</td>
<td>14.34%</td>
<td>6.96%</td>
<td>8.99%</td>
<td>6.15%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benchmark: Russell 3000 Index</td>
<td></td>
<td></td>
<td>6.34%</td>
<td>21.13%</td>
<td>21.13%</td>
<td>11.12%</td>
<td>15.58%</td>
<td>8.60%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

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**Money Market - Mutual Fund**

<table>
<thead>
<tr>
<th>Money Market - Mutual Fund</th>
<th>Morningstar Category</th>
<th>Inception Date</th>
<th>7-Day Yield*</th>
<th>3 Month</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Year</th>
<th>5 Year</th>
<th>10 Year</th>
<th>Since Inception Gross</th>
<th>Net</th>
<th>Fee Waiver</th>
<th>Expiration</th>
<th>Shareholder Fees &amp; Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vanguard Federal Money Market Fund Investor Shares (VMFXX)</td>
<td>Money Market- Taxable</td>
<td>7/13/1981</td>
<td>1.20%</td>
<td>0.27%</td>
<td>0.81%</td>
<td>0.81%</td>
<td>0.38%</td>
<td>0.24%</td>
<td>0.41%</td>
<td>0.11%</td>
<td>0.11%</td>
<td>$1.10</td>
<td>$1.10</td>
<td>-</td>
</tr>
<tr>
<td>Benchmark: Citi Treasury Bill 3 Mon USD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Guaranteed - Fixed Annuity**

<table>
<thead>
<tr>
<th>Guaranteed - Fixed Annuity</th>
<th>Inception Date</th>
<th>3 Month</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Year</th>
<th>5 Year</th>
<th>10 Year</th>
<th>Since Inception Gross</th>
<th>Net</th>
<th>Guaranteed Minimum Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIAA Traditional Annuity - Group Retirement Annuity</td>
<td></td>
<td>0.93%</td>
<td>3.80%</td>
<td>3.80%</td>
<td>3.94%</td>
<td>3.99%</td>
<td>4.20%</td>
<td>-</td>
<td>4.00%</td>
<td>3.00%</td>
</tr>
</tbody>
</table>

---

**Additional Information:**

The current rate shown applies to premiums remitted during the month of January 2018 and will be credited through 2/28/2018. 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.
<table>
<thead>
<tr>
<th>Guaranteed - Fixed Annuity</th>
<th>Inception Date</th>
<th>3 Month</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Year</th>
<th>5 Year</th>
<th>10 Year</th>
<th>Since Inception</th>
<th>Rate</th>
<th>Guaranteed Minimum Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIAA Traditional Annuity - Retirement Annuity</td>
<td>-</td>
<td>0.93%</td>
<td>3.80%</td>
<td>3.80%</td>
<td>3.94%</td>
<td>3.99%</td>
<td>4.20%</td>
<td>-</td>
<td>4.00%</td>
<td>3.00%</td>
</tr>
</tbody>
</table>

Additional Information:

The current rate shown applies to premiums remitted during the month of January 2018 and will be credited through 2/28/2018. 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.
### Equities - Variable Annuity

<table>
<thead>
<tr>
<th>Morningstar Category</th>
<th>Inception Date</th>
<th>3 Month</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Year</th>
<th>5 Year</th>
<th>10 Year/Since Inception</th>
<th>Gross</th>
<th>Net</th>
<th>Fee Waiver Expiration</th>
<th>Shareholder Fees &amp; Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CREF Equity Index Account (R3) (QCEQIX)</td>
<td>Large Blend</td>
<td>4/24/2015</td>
<td>6.26%</td>
<td>20.84%</td>
<td>20.84%</td>
<td>15.24%</td>
<td>8.25%</td>
<td>0.23%</td>
<td>$2.30</td>
<td>$2.30</td>
<td>Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.</td>
</tr>
<tr>
<td>Benchmark: Russell 3000 Index</td>
<td></td>
<td></td>
<td>6.34%</td>
<td>21.13%</td>
<td>21.13%</td>
<td>15.58%</td>
<td>8.60%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CREF Global Equities Account (R3) (QCGLIX)</td>
<td>World Large Stock</td>
<td>4/24/2015</td>
<td>6.02%</td>
<td>24.81%</td>
<td>24.81%</td>
<td>11.63%</td>
<td>5.01%</td>
<td>0.33%</td>
<td>$3.30</td>
<td>$3.30</td>
<td>Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.</td>
</tr>
<tr>
<td>Benchmark: MSCI World Index</td>
<td></td>
<td></td>
<td>5.51%</td>
<td>22.40%</td>
<td>22.40%</td>
<td>11.64%</td>
<td>5.03%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CREF Growth Account (R3) (QCGRIX)</td>
<td>Large Growth</td>
<td>4/24/2015</td>
<td>7.87%</td>
<td>31.83%</td>
<td>31.83%</td>
<td>17.26%</td>
<td>9.41%</td>
<td>0.27%</td>
<td>$2.70</td>
<td>$2.70</td>
<td>Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.</td>
</tr>
<tr>
<td>Benchmark: Russell 1000 Growth Index</td>
<td></td>
<td></td>
<td>7.86%</td>
<td>30.21%</td>
<td>30.21%</td>
<td>17.33%</td>
<td>10.00%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Equities - Mutual Fund

<table>
<thead>
<tr>
<th>Morningstar Category</th>
<th>Inception Date</th>
<th>3 Month</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Year</th>
<th>5 Year</th>
<th>10 Year/Since Inception</th>
<th>Gross</th>
<th>Net</th>
<th>Fee Waiver Expiration</th>
<th>Shareholder Fees &amp; Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Funds EuroPacific Growth Fund Class R-6 (RERGX)</td>
<td>Foreign Large Growth</td>
<td>5/1/2009</td>
<td>4.23%</td>
<td>31.17%</td>
<td>31.17%</td>
<td>9.66%</td>
<td>9.21%</td>
<td>10.69%</td>
<td>$5.00</td>
<td>$5.00</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Benchmark: MSCI ACWI Ex USA NR USD</td>
<td></td>
<td></td>
<td>5.00%</td>
<td>27.19%</td>
<td>27.19%</td>
<td>7.83%</td>
<td>6.80%</td>
<td>9.34%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Funds Washington Mutual Investors Fund Class R-6 (RWMGX)</td>
<td>Large Value</td>
<td>5/1/2009</td>
<td>6.52%</td>
<td>20.54%</td>
<td>20.54%</td>
<td>11.13%</td>
<td>15.17%</td>
<td>15.69%</td>
<td>$3.00</td>
<td>$3.00</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Benchmark: S&amp;P 500 TR USD</td>
<td></td>
<td></td>
<td>6.64%</td>
<td>21.83%</td>
<td>21.83%</td>
<td>11.41%</td>
<td>15.79%</td>
<td>16.15%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TIAA-CREF Equity Index Fund (Institutional) (TIEIX)</td>
<td>Large Blend</td>
<td>7/1/1999</td>
<td>6.29%</td>
<td>21.09%</td>
<td>21.09%</td>
<td>11.11%</td>
<td>15.55%</td>
<td>8.58%</td>
<td>$0.50</td>
<td>$0.50</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Benchmark: Russell 3000 Index</td>
<td></td>
<td></td>
<td>6.34%</td>
<td>21.13%</td>
<td>21.13%</td>
<td>15.58%</td>
<td>8.60%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equities - Mutual Fund</td>
<td>Morningstar Category</td>
<td>Inception Date</td>
<td>3 Month YTD</td>
<td>1 Year</td>
<td>3 Year</td>
<td>5 Year</td>
<td>10 Year/Since Inception</td>
<td>Gross</td>
<td>Net</td>
<td>Fee Waiver Expiration</td>
<td>Shareholder Fees &amp; Restrictions</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------------------</td>
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<tr>
<td>TIAA-CREF Growth &amp; Income Fund (Institutional) (TIGRX)</td>
<td>Large Growth</td>
<td>7/1/1999</td>
<td>6.80%</td>
<td>23.96%</td>
<td>23.96%</td>
<td>11.68%</td>
<td>15.80%</td>
<td>8.84%</td>
<td>0.42%</td>
<td>0.42%</td>
<td>2/28/2018</td>
</tr>
<tr>
<td>Benchmark: S&amp;P 500 Index</td>
<td></td>
<td></td>
<td>6.64%</td>
<td>21.83%</td>
<td>21.83%</td>
<td>11.41%</td>
<td>15.79%</td>
<td>8.50%</td>
<td></td>
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<tr>
<td>TIAA-CREF International Equity Fund (Institutional) (TCIEX)</td>
<td>Foreign Large Blend</td>
<td>10/1/2002</td>
<td>3.76%</td>
<td>25.32%</td>
<td>25.32%</td>
<td>8.07%</td>
<td>7.78%</td>
<td>2.08%</td>
<td>0.06%</td>
<td>0.06%</td>
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<tr>
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<td></td>
<td></td>
<td>4.23%</td>
<td>25.03%</td>
<td>25.03%</td>
<td>7.80%</td>
<td>7.90%</td>
<td>1.94%</td>
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<tr>
<td>TIAA-CREF Large-Cap Growth Index Fund (Institutional) (TILGX)</td>
<td>Large Growth</td>
<td>3/31/2006</td>
<td>7.09%</td>
<td>34.51%</td>
<td>34.51%</td>
<td>13.35%</td>
<td>17.76%</td>
<td>9.26%</td>
<td>0.43%</td>
<td>0.43%</td>
<td>2/28/2018</td>
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<tr>
<td>Benchmark: Russell 1000 Growth Index</td>
<td></td>
<td></td>
<td>7.86%</td>
<td>30.21%</td>
<td>30.21%</td>
<td>13.79%</td>
<td>17.33%</td>
<td>10.00%</td>
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<tr>
<td>TIAA-CREF Large-Cap Growth Index Fund (Institutional) (TILGX)</td>
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<td>10/1/2002</td>
<td>7.83%</td>
<td>30.07%</td>
<td>30.07%</td>
<td>13.72%</td>
<td>17.24%</td>
<td>9.92%</td>
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</tr>
<tr>
<td>Benchmark: Russell 1000 Growth Index</td>
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<td></td>
<td>7.86%</td>
<td>30.21%</td>
<td>30.21%</td>
<td>13.79%</td>
<td>17.33%</td>
<td>10.00%</td>
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<td>TIAA-CREF Large-Cap Value Fund (Institutional) (TRLUX)</td>
<td>Large Value</td>
<td>10/1/2002</td>
<td>3.95%</td>
<td>12.52%</td>
<td>12.52%</td>
<td>8.35%</td>
<td>13.29%</td>
<td>6.96%</td>
<td>0.41%</td>
<td>0.41%</td>
<td>2/28/2018</td>
</tr>
<tr>
<td>Benchmark: Russell 1000 Value Index</td>
<td></td>
<td></td>
<td>5.33%</td>
<td>13.66%</td>
<td>13.66%</td>
<td>8.65%</td>
<td>14.04%</td>
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<tr>
<td>TIAA-CREF Large-Cap Value Index Fund (Institutional) (TILVX)</td>
<td>Large Value</td>
<td>10/1/2002</td>
<td>5.32%</td>
<td>13.62%</td>
<td>13.62%</td>
<td>8.61%</td>
<td>13.96%</td>
<td>7.05%</td>
<td>0.06%</td>
<td>0.06%</td>
<td>2/28/2018</td>
</tr>
<tr>
<td>Benchmark: Russell 1000 Value Index</td>
<td></td>
<td></td>
<td>5.33%</td>
<td>13.66%</td>
<td>13.66%</td>
<td>8.65%</td>
<td>14.04%</td>
<td>7.10%</td>
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<tr>
<td>TIAA-CREF Mid-Cap Growth Fund (Institutional) (TRPWX)</td>
<td>Mid-Cap</td>
<td>10/1/2002</td>
<td>5.54%</td>
<td>26.21%</td>
<td>26.21%</td>
<td>8.54%</td>
<td>13.51%</td>
<td>7.89%</td>
<td>0.47%</td>
<td>0.47%</td>
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<tr>
<td>Benchmark: Russell Midcap Growth Index</td>
<td></td>
<td></td>
<td>6.81%</td>
<td>25.27%</td>
<td>25.27%</td>
<td>10.30%</td>
<td>15.30%</td>
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<td>Mid-Cap Value</td>
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<td>11.13%</td>
<td>11.13%</td>
<td>7.29%</td>
<td>13.06%</td>
<td>7.62%</td>
<td>0.41%</td>
<td>0.41%</td>
<td>2/28/2018</td>
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<tr>
<td>Benchmark: Russell Midcap Value Index</td>
<td></td>
<td></td>
<td>5.50%</td>
<td>13.34%</td>
<td>13.34%</td>
<td>9.00%</td>
<td>14.68%</td>
<td>9.10%</td>
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<td>TIAA-CREF Real Estate Securities Fund (Institutional) (TIREX)</td>
<td>Real Estate</td>
<td>10/1/2002</td>
<td>3.81%</td>
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<td>12.29%</td>
<td>7.03%</td>
<td>9.83%</td>
<td>7.45%</td>
<td>0.51%</td>
<td>0.51%</td>
<td>7/31/2018</td>
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<td>Benchmark: FTSE NAREIT All Equity REITs Index</td>
<td></td>
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<td>2.48%</td>
<td>8.67%</td>
<td>8.67%</td>
<td>6.67%</td>
<td>9.83%</td>
<td>7.77%</td>
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<td>3 Month</td>
<td>YTD</td>
<td>1 Year</td>
<td>3 Year</td>
<td>5 Year</td>
<td>10 Year/Since Inception</td>
<td>Gross</td>
<td>Net</td>
<td>Fee Waiver Expiration</td>
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<tr>
<td>TIAA-CREF S&amp;P 500 Index Fund (Institutional) (TISPX)</td>
<td>Large Blend</td>
<td>10/1/2002</td>
<td>6.63%</td>
<td>21.77%</td>
<td>21.77%</td>
<td>11.35%</td>
<td>15.71%</td>
<td>8.44%</td>
<td>0.05%</td>
<td>0.05%</td>
<td>2/28/2018</td>
</tr>
<tr>
<td>Benchmark: S&amp;P 500 Index</td>
<td></td>
<td></td>
<td>6.64%</td>
<td>21.83%</td>
<td>21.83%</td>
<td>11.41%</td>
<td>15.79%</td>
<td>8.50%</td>
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<td>TIAA-CREF Small-Cap Blend Index Fund (Institutional) (TISBX)</td>
<td>Small Blend</td>
<td>10/1/2002</td>
<td>3.36%</td>
<td>14.83%</td>
<td>14.83%</td>
<td>10.20%</td>
<td>14.36%</td>
<td>8.86%</td>
<td>0.06%</td>
<td>0.06%</td>
<td>2/28/2018</td>
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<tr>
<td>Benchmark: Russell 2000 Index</td>
<td></td>
<td></td>
<td>3.34%</td>
<td>14.65%</td>
<td>14.65%</td>
<td>9.96%</td>
<td>14.12%</td>
<td>8.71%</td>
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<tr>
<td>TIAA-CREF Small-Cap Equity Fund (Institutional) (TISEX)</td>
<td>Small Growth</td>
<td>10/1/2002</td>
<td>4.03%</td>
<td>15.01%</td>
<td>15.01%</td>
<td>11.38%</td>
<td>15.64%</td>
<td>9.46%</td>
<td>0.42%</td>
<td>0.42%</td>
<td>2/28/2018</td>
</tr>
<tr>
<td>Benchmark: Russell 2000 Index</td>
<td></td>
<td></td>
<td>3.34%</td>
<td>14.65%</td>
<td>14.65%</td>
<td>9.96%</td>
<td>14.12%</td>
<td>8.71%</td>
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<tr>
<td>TIAA-CREF Social Choice Equity Fund (Institutional) (TISCX)</td>
<td>Large Blend</td>
<td>7/1/1999</td>
<td>6.19%</td>
<td>20.93%</td>
<td>20.93%</td>
<td>10.24%</td>
<td>14.89%</td>
<td>8.38%</td>
<td>0.19%</td>
<td>0.19%</td>
<td>2/28/2018</td>
</tr>
<tr>
<td>Benchmark: Russell 3000 Index</td>
<td></td>
<td></td>
<td>6.34%</td>
<td>21.13%</td>
<td>21.13%</td>
<td>11.12%</td>
<td>15.58%</td>
<td>8.60%</td>
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<thead>
<tr>
<th>Fixed Income - Variable Annuity</th>
<th>Morningstar Category</th>
<th>Inception Date</th>
<th>3 Month</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Year</th>
<th>5 Year</th>
<th>10 Year/Since Inception</th>
<th>Gross</th>
<th>Net</th>
<th>Fee Waiver Expiration</th>
<th>Shareholder Fees &amp; Restrictions</th>
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</thead>
<tbody>
<tr>
<td>CREF Bond Market Account (R3) (QCBMIX)</td>
<td>Intermediate-Term Bond</td>
<td>4/24/2015/3/1/1990</td>
<td>0.49%</td>
<td>4.12%</td>
<td>4.12%</td>
<td>2.69%</td>
<td>2.29%</td>
<td>3.84%</td>
<td>0.29%</td>
<td>0.29%</td>
<td>-</td>
<td>Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.</td>
</tr>
<tr>
<td>Benchmark: Bloomberg Barclays U.S. Aggregate Bond Index</td>
<td></td>
<td></td>
<td>0.39%</td>
<td>3.54%</td>
<td>3.54%</td>
<td>2.24%</td>
<td>2.10%</td>
<td>4.01%</td>
<td>-</td>
<td></td>
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<tr>
<td>CREF Inflation-Linked Bond Account (R3) (QCLUX)</td>
<td>Inflation-Protected</td>
<td>4/24/2015/5/1/1997</td>
<td>0.59%</td>
<td>1.85%</td>
<td>1.85%</td>
<td>1.44%</td>
<td>-0.38%</td>
<td>3.02%</td>
<td>0.24%</td>
<td>0.24%</td>
<td>-</td>
<td>Round Trip: If a round trip is made within 60 calendar days, exchanges into the same account will be restricted for 90 calendar days.</td>
</tr>
<tr>
<td>Benchmark: Bloomberg Barclays U.S. Treasury Inflation Protected Securities (TIPS) 1-10 Year Index</td>
<td></td>
<td></td>
<td>0.53%</td>
<td>1.90%</td>
<td>1.90%</td>
<td>1.78%</td>
<td>0.09%</td>
<td>2.83%</td>
<td>-</td>
<td></td>
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<tr>
<td>Fixed Income - Mutual Fund</td>
<td>Morningstar Category</td>
<td>Inception Date</td>
<td>Total Returns</td>
<td>Average Annual Total Returns</td>
<td>Total Annual Operating Expenses (%/Per $1000)</td>
<td>Shareholder Fees &amp; Restrictions</td>
<td></td>
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<tr>
<td>TIAA-CREF Bond Plus Fund (Institutional) (TIBFX)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Intermediate-Term Bond</td>
<td>3/31/2006</td>
<td>0.46% 4.81% 4.81% 3.35% 3.01% 4.61%</td>
<td>0.31% 0.31%</td>
<td>7/31/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
<td></td>
<td></td>
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<tr>
<td>Benchmark: Bloomberg Barclays U.S. Aggregate Bond Index</td>
<td></td>
<td></td>
<td></td>
<td>0.39% 3.54% 3.54% 2.24% 2.10% 4.01%</td>
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<tr>
<td>TIAA-CREF High-Yield Fund (Institutional) (TIHYX)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>High Yield</td>
<td>3/31/2006</td>
<td>0.68% 5.65% 5.65% 5.81% 5.20% 7.42%</td>
<td>0.36% 0.36%</td>
<td>7/31/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<td>Benchmark: ICE BofAML BB-B U.S. Cash Pay High Yield Constrained Index</td>
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<td>0.39% 6.98% 6.98% 6.06% 5.58% 7.33%</td>
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<tr>
<td>TIAA-CREF Short-Term Bond Fund (Institutional) (TISIX)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Short-Term Bond</td>
<td>3/31/2006</td>
<td>0.08% 1.88% 1.88% 1.63% 1.25% 2.55%</td>
<td>0.27% 0.27%</td>
<td>7/31/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<tr>
<td>Benchmark: Bloomberg Barclays U.S. 1-3 Year Government/Credit Bond Index</td>
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<td>-0.21% 0.84% 0.84% 0.93% 0.84% 1.85%</td>
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<tr>
<td>Western Asset Core Plus Bond Fund Class I (WACPX)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Intermediate-Term Bond</td>
<td>7/8/1998</td>
<td>0.47% 6.96% 6.96% 4.33% 3.88% 5.96%</td>
<td>0.52% 0.45%</td>
<td>12/31/2018</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
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<tr>
<td>Benchmark: BBgBarc US Agg Bond TR USD</td>
<td></td>
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<td>0.39% 3.54% 3.54% 2.24% 2.10% 4.01%</td>
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<table>
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<tr>
<th>Multi Asset - Mutual Fund</th>
<th>Morningstar Category</th>
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<th>Total Returns</th>
<th>Average Annual Total Returns</th>
<th>Total Annual Operating Expenses (%/Per $1000)</th>
<th>Shareholder Fees &amp; Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIAA-CREF Managed Allocation Fund (Institutional) (TIMIX)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Allocation–50% to 70% Equity</td>
<td>3/31/2006</td>
<td>3.67% 17.07% 17.07% 7.97% 9.14% 5.85%</td>
<td>0.43% 0.40%</td>
<td>9/30/2018</td>
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<tr>
<td>Benchmark: Managed Allocation Fund Composite Index</td>
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<td>3.74% 14.93% 14.93% 7.12% 8.74% 5.96%</td>
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<td>Benchmark: Morningstar Moderate Target Risk Index</td>
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<td></td>
<td>3.74% 14.66% 14.66% 6.93% 7.95% 5.81%</td>
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<tr>
<td>Money Market - Variable Annuity</td>
<td>Morningstar Category</td>
<td>Inception Date</td>
<td>7-Day Yield*</td>
<td>3 Month</td>
<td>YTD</td>
<td>1 Year</td>
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</tr>
<tr>
<td>CREF Money Market Account (R3) (QCMMIX)</td>
<td>Money Market- Taxable</td>
<td>4/24/2015 - 4/1/1988</td>
<td>0.76%</td>
<td>0.17%</td>
<td>0.50%</td>
<td>0.50%</td>
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<tr>
<td>Benchmark: iMoneyNet Money Fund Averages-All Government</td>
<td></td>
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<td>0.17%</td>
<td>0.47%</td>
<td>0.47%</td>
<td>0.19%</td>
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</tbody>
</table>

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.
A Note About Risk

Equity funds and variable annuity accounts generally carry a higher degree of risk than fixed income funds and accounts. This risk is heightened for funds and accounts that invest in small and mid-cap stocks and foreign securities. Funds and variable annuity accounts 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 or variable annuity accounts. Fixed income funds and variable annuity accounts are not guaranteed and are subject to interest rate, inflation and credit risks. Funds and accounts that invest in non-investment grade securities (i.e. high-yield) present special risks, including significantly higher interest rate and credit risk. 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.

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

About the Benchmark

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

Data Providers

Unless otherwise noted, data on nonproprietary investment products, including performance, Morningstar Category and expenses, is provided by Morningstar, Inc. All other data provided by Teachers Insurance and Annuity Association of America - College Retirement Equities Fund.

Benchmark performance shown across proprietary and nonproprietary funds/accounts is provided by TIAA with the exception of Since Inception periods calculated using a nonproprietary fund's inception date. TIAA reserves the rights to all proprietary data herein, and is not responsible for any damages or losses arising from any use of this information.

Data Provided by Morningstar, Inc. © 2018 Morningstar, Inc. All Rights Reserved. The information contained herein: (1) is proprietary to Morningstar and/or its content providers; (2) may not be copied or distributed; and (3) is not warranted to be accurate, complete or timely. Neither Morningstar nor its content providers are responsible for any damages or losses arising from any use of this information. Neither TIAA nor its affiliates has independently verified the accuracy or completeness of this information.

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

Important Information

1 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 Advisors have contracted agree to waive the Fund’s entire 0.10% Management fee. This waiver will remain in effect through September 30, 2020, unless changed with the approval of the Board of Trustees. The Management fee has been fully waived since the Fund’s inception.

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

4 Performance shown for the Since Inception period and prior to the inception of the Institutional Class is based on the performance of the fund's Retirement Class. Performance has not been restated to reflect the lower expenses of the Institutional Class. If the expense differential had been reflected, performance for these periods would have been higher.

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

6 Previously, the Fund compared its performance to the Bloomberg Barclays U.S. Aggregate Bond Index instead of the S&P Target Date 2010 Index shown in the chart above. The returns of the S&P Target Date 2010 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

7 For the period ending 3/31/2018, the following average annualized total returns (%) for the Bloomberg Barclays U.S. Aggregate Bond Index are provided for informational/comparison purposes: 0.64 (1 M), -1.46 (3M), -1.46 (YTD), 1.20 (1 year), 1.20 (3 years), 1.82 (5 years), 3.63 (10 years).

8 Previously, the Fund compared its performance to the Russell 3000 Index instead of the S&P Target Date 2015 Index shown in the chart above. The returns of the S&P Target Date 2015 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

9 Previously, the Fund compared its performance to the Russell 3000 Index instead of the S&P Target Date 2020 Index shown in the chart above. The returns of the S&P Target Date 2020 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

10 For the period ending 3/31/2018, the following average annualized total returns (%) for the Russell 3000 Index are provided for informational/comparison purposes: -2.01 (1 M), -0.64 (3M), -0.64 (YTD), 13.81 (1 year), 10.22 (3 years), 13.03 (5 years), 9.62 (10 years).
11. Previously, the Fund compared its performance to the Russell 3000 Index instead of the S&P Target Date 2025 Index shown in the chart above. The returns of the S&P Target Date 2025 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

12. Previously, the Fund compared its performance to the Russell 3000 Index instead of the S&P Target Date 2030 Index shown in the chart above. The returns of the S&P Target Date 2030 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

13. Previously, the Fund compared its performance to the Russell 3000 Index instead of the S&P Target Date 2035 Index shown in the chart above. The returns of the S&P Target Date 2035 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

14. Previously, the Fund compared its performance to the Russell 3000 Index instead of the S&P Target Date 2040 Index shown in the chart above. The returns of the S&P Target Date 2040 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

15. Previously, the Fund compared its performance to the Russell 3000 Index instead of the S&P Target Date 2045 Index shown in the chart above. The returns of the S&P Target Date 2045 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

16. Previously, the Fund compared its performance to the Russell 3000 Index instead of the S&P Target Date 2050 Index shown in the chart above. The returns of the S&P Target Date 2050 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

17. Previously, the Fund compared its performance to the Russell 3000 Index instead of the S&P Target Date 2055 Index shown in the chart above. The returns of the S&P Target Date 2055 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

18. Previously, the Fund compared its performance to the Russell 3000 Index instead of the S&P Target Date 2060 Index shown in the chart above. The returns of the S&P Target Date 2060 Index are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

19. Previously, the Fund compared its performance to the Bloomberg Barclays U.S. Aggregate Bond Index instead of the S&P Target Date Retirement Income Index shown in the chart above. The returns of the S&P Target Date Retirement Income Index are more appropriate for comparison purposes because they reflect multi-asset class exposure.

20. 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.

21. 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.

22. 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.

23. Previously, the Fund compared its performance to the Russell 3000 Index instead of the Morningstar Aggressive Target Risk Index shown in the chart above. The returns of the Morningstar Aggressive Target Risk Index are more appropriate for comparison purposes because they reflect multi-asset class exposure and a similar risk profile as the Fund.

24. 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.

25. Prior to November 20, 2017, the fund was known as Eagle Mid Cap Growth Fund.

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

27. 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.

28. 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.

29. Closed to new investors.

30. 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.

31. 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.

32. The Current Rates, Minimum Guaranteed Rates and Fees (if applicable) shown for guaranteed annuities are the rates in effect as of the day following the contract date. 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.

33. The fund’s advisor does not receive a management fee for its services to the Managed Allocation Fund, but shareholders indirectly bear their pro rata share of the fees and expenses of the funds in which the Managed Allocation Fund invests. Please see the current prospectus for additional information on expenses.

34. Previously, the Fund compared its performance to the Russell 3000 Index instead of the Morningstar Moderate Target Risk Index shown in the chart above. The returns of the Morningstar Moderate Target Risk Index are more appropriate for comparison purposes because they reflect multi-asset class exposure and a similar risk profile as the Fund.

35. Between July 16, 2009 and April 14, 2017, TIAA agreed to voluntarily withhold (“waive”) 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 effective yields and total returns of the Money Market Account would have been lower. TIAA may, for a period of three years after the date an amount was waived, recover from the Money Market 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. As a result of the share class conversion on April 24, 2015, previously recoverable amounts have been allocated to the various classes.
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.
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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 that contain this and other information. Please read the prospectuses carefully before investing.

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