Your participation in your employer's retirement plan is the first step to ensuring adequate retirement income. The purpose of this Plan and Investment Notice is to help you make informed decisions when managing your retirement account. It contains important information regarding your plan's services, investments and expenses. While no action is required at this time, please review the notice and file it with your other retirement plan documents for future reference.

Section I: Summary of Plan Services and Costs
This section provides important information to assist you in making decisions related to your participation in your employer's plan. It outlines the services available under this plan, explains your right to select the investments for your account, and any fees and plan restrictions that may apply.

Section II: Investment Options Comparative Chart
This section is designed to make it easier for you to compare investments that align with your retirement goals. It provides detailed information about your plan's investment options, including long-term performance and expenses.
TIAA has been selected to provide retirement services and investment options to employees in the plan. There are costs associated with these services and investments, some of which may be paid by you. In addition to explaining how to direct your investments, this section details the administrative and individual expenses associated with your plan.

RIGHT TO DIRECT INVESTMENTS
You may specify how your future contributions to the retirement plan are invested or make changes to existing investments in your plan as described in the Summary Plan Document. These changes can be made:

1. Online by visiting TIAA.org
2. By phone at 855-250-5424, Monday – Friday 8 a.m. to 10 p.m. and Saturday, 9 a.m. to 6 p.m. (ET)

RESTRICTIONS
Changes to existing investments usually take place at the close of the business day if a change is requested prior to 4:00 p.m. (ET). Refer to Section II: Investment Options Comparative Chart for investment-specific restrictions.

ADDITIONAL RIGHTS AND PRIVILEGES
Certain investments that you may hold may give you the opportunity to vote on proposals. If and when such opportunities arise, you will receive a notice with the instructions on how to take advantage of what is being offered.

INVESTMENT OPTIONS
A variety of investment options are available in the plan. Please refer to Section II: Investment Options Comparative Chart for a current list of investment options available to you. Additional information, as well as up-to-date investment performance, is available online at www.TIAA.org/planinvestmentoptions. After entering your plan ID, 102375, you’ll be directed to plan and investment information.

CUSTOM PORTFOLIOS PROGRAM
The Custom Portfolios Program can help you simplify your decisions by investing your contributions in a pre-determined mix of plan's options and/or other investments vehicles. Below is a summary of the Custom Portfolio Models that may be available in your plan's investment line-up:

<table>
<thead>
<tr>
<th>Model</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yale Target-Date Plus</td>
<td>0.00% annual fee (assessed quarterly) to participate in the service.</td>
</tr>
</tbody>
</table>

For more information on your Plan's Custom Portfolio Program please refer to the TIAA Custom Portfolios Program - Model Service Participant Disclosure Document or enter in www.TIAA.org/customportfoliosprogram.

COST OF PLAN SERVICES
There are three categories of services provided to your plan:

1. GENERAL ADMINISTRATIVE SERVICES
General administrative services include recordkeeping, legal, accounting, consulting, investment advisory and other plan administration services. Some of the expenses for general administrative services are fixed and other expenses such as legal or accounting may vary from year to year. These costs are allocated to each participant in a uniform way.

Other than your specific investment services fees, your plan has no additional administrative expenses paid to TIAA.

2. SPECIFIC INVESTMENT SERVICES
Each investment offered within the plan charges a fee for managing the investment and for associated services. This is referred to as the expense ratio and is paid by all participants in that investment in proportion to the amount of their investment. The specific expense ratio for each plan designated investment option is listed in Section II: Investment Options Comparative Chart.

3. PERSONALIZED SERVICES
Personalized services provide access to a number of plan features and investments that you pay for, only if you use them. The personalized services used most often are:

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collateralized loans</td>
<td>The cost to you based upon the difference between what you earn on collateral and what you pay in interest.</td>
</tr>
<tr>
<td>Qualified Domestic Relations Orders (QDRO)</td>
<td>No charge</td>
</tr>
<tr>
<td>Sales Charges, Purchase, Withdrawal And Redemption Fees For Certain Investments</td>
<td>Certain charges may apply. See Section II: Investment Options Comparative Chart or the prospectus for applicable charges.</td>
</tr>
</tbody>
</table>
Investment Options Comparative Chart

Your plan offers a variety of professionally managed investments. One of the benefits of the plan is that you get to decide how your contributions are invested. When making investment decisions, you should keep in mind how long you have until retirement, your tolerance for risk, how this retirement plan fits into your overall financial picture, and the impact of fees. The information on the following pages will help you compare the investment options and make more informed decisions about your retirement plan.

Part A – Performance and Fee Information

Part A consists of performance and fee information for your plan's investment options. It shows you how well the investments have performed in the past as well as any fees and expenses you will pay if you invest in a particular option.

For more information on the impact of fees and expenses associated with your plan, refer to Section I: Summary of Plan Services and Costs or visit the DOL’s website at www.dol.gov/ebsa/publications/401k_employee.html. Fees are only one of many factors to consider when making an investment decision.

Part B – Annuity Income Information

Part B contains information about the annuity options available within your employer's retirement plan.

Part A. Performance and Fee Information

The following chart lists your plan’s investment options whose value may change based on market fluctuations. When evaluating performance of your variable investment options, you should consider comparing the returns of each investment to an appropriate benchmark, which is included in the chart. A benchmark is a generally accepted unmanaged group of securities whose performance is used as a standard point of reference to measure and compare investment gains or losses for variable return investments. Keep in mind that you may not invest in the benchmark indexes which are shown for comparative purposes only. For investments that use a blend of stocks and bonds to limit risk, such as Target Date or Multi-Asset funds, a difference from the benchmark may be due to a difference in the proportion of stocks to bonds in the fund when compared to the benchmark. Benchmark information for fixed-return investments is not provided in this chart. Past performance does not indicate how an investment will perform in the future.

For the most up-to-date information about your investment options, prospectuses for available TIAA investments and other helpful resources, visit www.TIAA.org/planinvestmentoptions. After entering your plan ID, 102375, you'll be directed to plan and investment information.

Visit tiaa.org for information and resources to help you make informed decisions. To request additional plan information or a paper copy of information available online, free of charge, contact TIAA at 855 250-5424 or write to us at TIAA, P.O. Box 1259, Charlotte, NC, 28201.
### Table 1 – Variable Return Investment Performance as of September 30, 2018

<table>
<thead>
<tr>
<th>Investment Name / Benchmark</th>
<th>Morningstar Category</th>
<th>Ticker Symbol</th>
<th>Inception Date</th>
<th>Average Annual Total Returns/Benchmark</th>
<th>Total Annual Operating Expenses (%/Per $1000)</th>
<th>Shareholder Fees &amp; Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equities</strong></td>
<td></td>
<td></td>
<td></td>
<td>1 Yr.</td>
<td>5 Yr.</td>
<td>10 Yr. or Since Inception</td>
</tr>
<tr>
<td><strong>Mutual Fund</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Emerging Markets Stock Index Fund Institutional</td>
<td>Diversified Emerging Mkts</td>
<td>VEMIX</td>
<td>06/22/2000</td>
<td>-3.08%</td>
<td>3.02%</td>
<td>4.76%</td>
</tr>
<tr>
<td>MSCI Emerging Markets Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Emerging Markets Stock Index Fund Institutional Plus</td>
<td>Diversified Emerging Mkts</td>
<td>VEMRX</td>
<td>12/15/2010</td>
<td>-3.05%</td>
<td>3.03%</td>
<td>1.07%</td>
</tr>
<tr>
<td>MSCI Emerging Markets Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Pacific Stock Index Fund Admiral</td>
<td>Diversified Pacific/Asia</td>
<td>VPADX</td>
<td>08/13/2001</td>
<td>7.09%</td>
<td>5.91%</td>
<td>6.34%</td>
</tr>
<tr>
<td>MSCI Pacific Index (NR USD)</td>
<td></td>
<td></td>
<td></td>
<td>8.22%</td>
<td>5.77%</td>
<td>6.55%</td>
</tr>
<tr>
<td>Vanguard Energy Fund Admiral</td>
<td>Equity Energy</td>
<td>VGELX</td>
<td>11/12/2001</td>
<td>15.11%</td>
<td>1.17%</td>
<td>3.08%</td>
</tr>
<tr>
<td>S&amp;P 1500 Energy Index</td>
<td></td>
<td></td>
<td></td>
<td>14.87%</td>
<td>0.63%</td>
<td>3.60%</td>
</tr>
<tr>
<td>Vanguard Precious Metals and Mining Fund Investor</td>
<td>Equity Precious Metals</td>
<td>VGPMX</td>
<td>05/23/1984</td>
<td>-19.70%</td>
<td>-4.10%</td>
<td>-5.48%</td>
</tr>
<tr>
<td>MSCI All Country World Index (NR USD)</td>
<td></td>
<td></td>
<td></td>
<td>9.77%</td>
<td>8.67%</td>
<td>8.19%</td>
</tr>
<tr>
<td>Vanguard European Stock Index Fund Institutional</td>
<td>Europe Stock</td>
<td>VESIX</td>
<td>05/15/2000</td>
<td>-0.09%</td>
<td>4.16%</td>
<td>5.14%</td>
</tr>
<tr>
<td>MSCI Europe Index (NR USD)</td>
<td></td>
<td></td>
<td></td>
<td>-0.30%</td>
<td>3.70%</td>
<td>4.85%</td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark</td>
<td>Total Annual Operating Expenses (%/Per $1000)</td>
<td>Shareholder Fees &amp; Restrictions</td>
</tr>
<tr>
<td>-----------------------------</td>
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<td>----------------------------------------</td>
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<td>----------------------------------</td>
</tr>
<tr>
<td>TIAA-CREF International Equity Fund Institutional</td>
<td>Foreign Large Blend</td>
<td>TIIEX</td>
<td>07/01/1999</td>
<td>1 Yr. 5 Yr. 10 Yr. or Since Inception</td>
<td>Gross Net</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>MSCI EAFE Index</td>
<td>2.74% 4.42% 5.38%</td>
<td></td>
<td></td>
<td></td>
<td>Contractual Cap Exp: 02/28/2019</td>
<td></td>
</tr>
<tr>
<td>TIAA-CREF International Equity Index Fund Institutional</td>
<td>Foreign Large Blend</td>
<td>TCIEX</td>
<td>10/01/2002</td>
<td></td>
<td>0.06% 0.06%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>MSCI EAFE Index</td>
<td>2.74% 4.42% 5.38%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Vanguard Developed Markets Index Fund Institutional</td>
<td>Foreign Large Blend</td>
<td>VTMNX</td>
<td>01/04/2001</td>
<td></td>
<td>0.06% 0.06%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>MSCI AC World Ex USA Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$0.60 $0.60</td>
<td></td>
</tr>
<tr>
<td>Vanguard Developed Markets Index Fund Institutional Plus</td>
<td>Foreign Large Blend</td>
<td>VDIPX</td>
<td>04/01/2014</td>
<td></td>
<td>0.05% 0.05%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>MSCI AC World Ex USA Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$0.50 $0.50</td>
<td></td>
</tr>
<tr>
<td>Vanguard Total International Stock Index Fund Institutional</td>
<td>Foreign Large Blend</td>
<td>VTSNX</td>
<td>11/29/2010</td>
<td></td>
<td>0.09% 0.09%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>MSCI AC World Ex USA Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$0.90 $0.90</td>
<td></td>
</tr>
<tr>
<td>Vanguard International Growth Fund Admiral</td>
<td>Foreign Large Growth</td>
<td>VWILX</td>
<td>08/13/2001</td>
<td></td>
<td>0.32% 0.32%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>MSCI All Country World Excluding-U.S. Index (GR)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$3.20 $3.20</td>
<td></td>
</tr>
<tr>
<td>Vanguard International Value Fund Investor</td>
<td>Foreign Large Value</td>
<td>VTRIX</td>
<td>05/16/1983</td>
<td></td>
<td>0.40% 0.40%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>MSCI AC World Ex USA Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$4.00 $4.00</td>
<td></td>
</tr>
<tr>
<td>Vanguard International Explorer Fund Investor</td>
<td>Foreign Small/Mid Growth</td>
<td>VINEX</td>
<td>11/04/1996</td>
<td></td>
<td>0.38% 0.38%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>MSCI AC World Ex USA Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$3.80 $3.80</td>
<td></td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark</td>
<td>Total Annual Operating Expenses (%/Per $1000)</td>
<td>Shareholder Fees &amp; Restrictions</td>
</tr>
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</tr>
<tr>
<td>MSCI World Ex USA SMID NR USD</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Health Care Fund Admiral</td>
<td>Health</td>
<td>VGHAX</td>
<td>11/12/2001</td>
<td>3.47% 6.49% 7.88%</td>
<td>0.33% 0.33%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>S&amp;P 1500 Health Care Index</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>TIAA-CREF Equity Index Fund Institutional</td>
<td>Large Blend</td>
<td>TIEIX</td>
<td>07/01/1999</td>
<td>19.95% 15.89% 14.66%</td>
<td>0.05% 0.05%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell 3000 Index</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>TIAA-CREF S&amp;P 500 Index Fund Institutional</td>
<td>Large Blend</td>
<td>TISPX</td>
<td>10/01/2002</td>
<td>3.47% 6.49% 7.88%</td>
<td>0.33% 0.33%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>S&amp;P 500 Index</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>TIAA-CREF Social Choice Equity Fund Institutional</td>
<td>Large Blend</td>
<td>TISCX</td>
<td>07/01/1999</td>
<td>17.58% 13.46% 12.01%</td>
<td>0.06% 0.06%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell 3000 Index</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Vanguard Dividend Growth Fund Investor</td>
<td>Large Blend</td>
<td>VDIGX</td>
<td>05/15/1992</td>
<td>17.58% 13.46% 12.01%</td>
<td>0.06% 0.06%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell 1000 Index</td>
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</tr>
<tr>
<td>Vanguard FTSE Social Index Fund Investor</td>
<td>Large Blend</td>
<td>VFTSX</td>
<td>05/31/2000</td>
<td>17.58% 13.46% 12.01%</td>
<td>0.06% 0.06%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell 1000 Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Growth and Income Fund Admiral</td>
<td>Large Blend</td>
<td>VGIAAX</td>
<td>05/14/2001</td>
<td>17.91% 13.95% 11.97%</td>
<td>0.20% 0.20%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>S&amp;P 500 Index</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark</td>
<td>Total Annual Operating Expenses (%/Per $1000)</td>
<td>Shareholder Fees &amp; Restrictions</td>
</tr>
<tr>
<td>------------------------------------------------</td>
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<td>----------------------------------------</td>
<td>-----------------------------------------------</td>
<td>---------------------------------------------------------------------</td>
</tr>
<tr>
<td>Vanguard Institutional Index Fund Institutional Plus</td>
<td>Large Blend</td>
<td>VIXX</td>
<td>07/07/1997</td>
<td>17.89% 13.94% 11.98%</td>
<td>0.02% 0.02%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td><strong>S&amp;P 500 Index</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Large Cap Index Fund Admiral</td>
<td>Large Blend</td>
<td>VLCA</td>
<td>02/02/2004</td>
<td>17.80% 13.72% 12.01%</td>
<td>0.05% 0.05%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td><strong>CRSP U.S. Large Cap Index</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Total Stock Market Index Fund Institutional</td>
<td>Large Blend</td>
<td>VITSX</td>
<td>07/07/1997</td>
<td>17.62% 13.44% 12.09%</td>
<td>0.04% 0.04%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td><strong>CRSP U.S. Total Market Index</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Total Stock Market Index Fund Institutional Plus</td>
<td>Large Blend</td>
<td>VSMPX</td>
<td>04/28/2015</td>
<td>17.63% - 11.71%</td>
<td>0.02% 0.02%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td><strong>TIAA-CREF Growth &amp; Income Fund Institutional</strong></td>
<td>Large Growth</td>
<td>TIGRX</td>
<td>07/01/1999</td>
<td>20.02% 14.03% 12.43%</td>
<td>0.41% 0.41%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td><strong>S&amp;P 500 Index</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TIAA-CREF Large-Cap Growth Index Fund Institutional</td>
<td>Large Growth</td>
<td>TILIX</td>
<td>10/01/2002</td>
<td>26.19% 16.50% 14.24%</td>
<td>0.06% 0.06%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td><strong>Russell 1000 Growth Index</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Capital Opportunity Fund Admiral</td>
<td>Large Growth</td>
<td>VHCA</td>
<td>11/12/2001</td>
<td>21.12% 16.49% 14.86%</td>
<td>0.37% 0.37%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td><strong>Russell Midcap Growth Index</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Diversified Equity Fund Investor</td>
<td>Large Growth</td>
<td>VDEQX</td>
<td>06/10/2005</td>
<td>18.86% 12.94% 12.17%</td>
<td>0.36% 0.36%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark</td>
<td>Total Annual Operating Expenses (%/Per $1000)</td>
<td>Shareholder Fees &amp; Restrictions</td>
</tr>
<tr>
<td>------------------------------------------------------</td>
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<td>----------------------------------------</td>
<td>---------------------------------------------</td>
<td>---------------------------------------------------------------------</td>
</tr>
<tr>
<td>MSCI U.S. Broad Market Index (GR USD)</td>
<td></td>
<td></td>
<td></td>
<td>1 Yr.</td>
<td>5 Yr.</td>
<td>10 Yr. or Since Inception</td>
</tr>
<tr>
<td>Vanguard Growth Index Fund Institutional</td>
<td>Large Growth</td>
<td>ViGIX</td>
<td>05/14/1998</td>
<td>22.70%</td>
<td>15.21%</td>
<td>13.47%</td>
</tr>
<tr>
<td>CRSP US Large Cap Growth TR USD</td>
<td></td>
<td></td>
<td></td>
<td>22.70%</td>
<td>15.25%</td>
<td>12.90%</td>
</tr>
<tr>
<td>Vanguard Morgan Growth Fund Admiral</td>
<td>Large Growth</td>
<td>VMRAX</td>
<td>05/14/2001</td>
<td>24.68%</td>
<td>15.70%</td>
<td>13.30%</td>
</tr>
<tr>
<td>Russell 3000 Growth Index</td>
<td></td>
<td></td>
<td></td>
<td>25.89%</td>
<td>16.23%</td>
<td>14.18%</td>
</tr>
<tr>
<td>Vanguard PRIMECAP Core Fund Investor</td>
<td>Large Growth</td>
<td>VPCCX</td>
<td>12/09/2004</td>
<td>18.27%</td>
<td>15.66%</td>
<td>13.85%</td>
</tr>
<tr>
<td>MSCI U.S. Prime Market 750 Index</td>
<td></td>
<td></td>
<td></td>
<td>17.93%</td>
<td>13.82%</td>
<td>12.10%</td>
</tr>
<tr>
<td>Vanguard PRIMECAP Fund Admiral</td>
<td>Large Growth</td>
<td>VPMAX</td>
<td>11/12/2001</td>
<td>22.95%</td>
<td>17.27%</td>
<td>14.14%</td>
</tr>
<tr>
<td>S&amp;P 500 Index</td>
<td></td>
<td></td>
<td></td>
<td>17.91%</td>
<td>13.95%</td>
<td>11.97%</td>
</tr>
<tr>
<td>Vanguard U.S. Growth Fund Admiral</td>
<td>Large Growth</td>
<td>VWUAX</td>
<td>08/13/2001</td>
<td>26.18%</td>
<td>16.29%</td>
<td>13.75%</td>
</tr>
<tr>
<td>Russell 1000 Growth Index</td>
<td></td>
<td></td>
<td></td>
<td>26.30%</td>
<td>16.58%</td>
<td>14.31%</td>
</tr>
<tr>
<td>TIAA-CREF Large-Cap Value Fund Institutional</td>
<td>Large Value</td>
<td>TRLIX</td>
<td>10/01/2002</td>
<td>6.68%</td>
<td>9.40%</td>
<td>9.97%</td>
</tr>
<tr>
<td>Russell 1000 Value Index</td>
<td></td>
<td></td>
<td></td>
<td>9.45%</td>
<td>10.72%</td>
<td>9.79%</td>
</tr>
<tr>
<td>TIAA-CREF Large-Cap Value Index Fund Institutional</td>
<td>Large Value</td>
<td>TILVX</td>
<td>10/01/2002</td>
<td>9.35%</td>
<td>10.64%</td>
<td>9.72%</td>
</tr>
<tr>
<td>Russell 1000 Value Index</td>
<td></td>
<td></td>
<td></td>
<td>9.45%</td>
<td>10.72%</td>
<td>9.79%</td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark</td>
<td>Total Annual Operating Expenses (%/Per $1000)</td>
<td>Shareholder Fees &amp; Restrictions</td>
</tr>
<tr>
<td>-----------------------------</td>
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<td>----------------------------------</td>
</tr>
<tr>
<td>Vanguard Capital Value Fund</td>
<td>Large Value</td>
<td>VCVLX</td>
<td>12/17/2001</td>
<td>8.48% 6.34% 12.17%</td>
<td>0.27% 0.27% 0.27% $2.70 $2.70</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell 3000 Value Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Equity Income Fund Admiral</td>
<td>Large Value</td>
<td>VEIRX</td>
<td>08/13/2001</td>
<td>10.70% 11.64% 11.16%</td>
<td>0.17% 0.17% 0.17% $1.70 $1.70</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell 1000 Value Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard U.S. Value Fund Investor</td>
<td>Large Value</td>
<td>VUVLX</td>
<td>06/29/2000</td>
<td>10.22% 11.33% 10.09%</td>
<td>0.23% 0.23% 0.23% $2.30 $2.30</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell 3000 Value Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Value Index Fund Institutional</td>
<td>Large Value</td>
<td>VIVIX</td>
<td>07/02/1998</td>
<td>13.58% 12.44% 10.69%</td>
<td>0.04% 0.04% 0.04% $0.40 $0.40</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>CRSP US Large Cap Value TR USD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Windsor Fund Admiral</td>
<td>Large Value</td>
<td>VWNEX</td>
<td>11/12/2001</td>
<td>8.82% 10.44% 11.32%</td>
<td>0.21% 0.21% 0.21% $2.10 $2.10</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell 1000 Value Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Windsor II Fund Admiral</td>
<td>Large Value</td>
<td>VWNAX</td>
<td>05/14/2001</td>
<td>12.48% 10.71% 10.16%</td>
<td>0.26% 0.26% 0.26% $2.60 $2.60</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell 1000 Value Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Extended Market Index Fund Institutional</td>
<td>Mid-Cap Blend</td>
<td>VIEIX</td>
<td>07/07/1997</td>
<td>16.12% 11.43% 12.44%</td>
<td>0.06% 0.06% 0.06% $0.60 $0.60</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>S&amp;P Completion Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Mid-Cap Index Fund Institutional</td>
<td>Mid-Cap Blend</td>
<td>VMCIX</td>
<td>05/21/1998</td>
<td>13.45% 11.68% 12.44%</td>
<td>0.04% 0.04% 0.04% $0.40 $0.40</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>CRSP U.S. Mid Cap Index</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark</td>
<td>Total Annual Operating Expenses (%/Per $1000)</td>
<td>Shareholder Fees &amp; Restrictions</td>
</tr>
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</tr>
<tr>
<td>Vanguard Strategic Equity Fund Investor</td>
<td>Mid-Cap Blend</td>
<td>VSEQX</td>
<td>08/14/1995</td>
<td>15.63% 12.84% 12.61%</td>
<td>Gross 0.18% $1.80 Net 0.18% $1.80</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell Midcap Index</td>
<td></td>
<td></td>
<td></td>
<td>13.98% 11.65% 12.31%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TIAA-CREF Mid-Cap Growth Fund Institutional</td>
<td>Mid-Cap Growth</td>
<td>TRPWX</td>
<td>10/01/2002</td>
<td>19.08% 10.81% 12.34%</td>
<td>Gross 0.47% $4.70 Net 0.47% $4.70</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell Midcap Growth Index</td>
<td></td>
<td></td>
<td></td>
<td>21.10% 13.00% 13.46%</td>
<td></td>
<td>Contractual Cap Exp: 02/28/2019</td>
</tr>
<tr>
<td>Vanguard Mid-Cap Growth Fund Investor</td>
<td>Mid-Cap Growth</td>
<td>VMGRX</td>
<td>12/31/1997</td>
<td>24.95% 11.70% 12.56%</td>
<td>Gross 0.36% $3.60 Net 0.36% $3.60</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell Midcap Growth Index</td>
<td></td>
<td></td>
<td></td>
<td>21.10% 13.00% 13.46%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TIAA-CREF Mid-Cap Value Fund Institutional</td>
<td>Mid-Cap Value</td>
<td>TIMVX</td>
<td>10/01/2002</td>
<td>7.75% 9.42% 10.27%</td>
<td>Gross 0.41% $4.10 Net 0.41% $4.10</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell Midcap Value Index</td>
<td></td>
<td></td>
<td></td>
<td>8.81% 10.72% 11.29%</td>
<td></td>
<td>Contractual Cap Exp: 02/28/2019</td>
</tr>
<tr>
<td>Vanguard Selected Value Fund Investor</td>
<td>Mid-Cap Value</td>
<td>VASVX</td>
<td>02/15/1996</td>
<td>0.83% 8.41% 11.40%</td>
<td>Gross 0.39% $3.90 Net 0.39% $3.90</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Russell Midcap Value Index</td>
<td></td>
<td></td>
<td></td>
<td>8.81% 10.72% 11.29%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TIAA-CREF Real Estate Securities Fund Institutional</td>
<td>Real Estate</td>
<td>TIREX</td>
<td>10/01/2002</td>
<td>5.89% 10.07% 7.84%</td>
<td>Gross 0.51% $5.10 Net 0.51% $5.10</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>FTSE Nareit All Equity REITs Index</td>
<td>Real Estate</td>
<td>VGSNX</td>
<td>12/02/2003</td>
<td>1.96% 8.70% 7.53%</td>
<td>Gross 0.10% $1.00 Net 0.10% $1.00</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Vanguard REIT Index Fund Institutional</td>
<td>Real Estate</td>
<td>TISBX</td>
<td>10/01/2002</td>
<td>15.41% 11.31% 11.23%</td>
<td>Gross 0.06% $0.60 Net 0.06% $0.60</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark</td>
<td>Total Annual Operating Expenses (%/Per $1000)</td>
<td>Shareholder Fees &amp; Restrictions</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Yr.</td>
<td>5 Yr.</td>
<td>10 Yr.</td>
</tr>
<tr>
<td>Russell 2000 Index</td>
<td></td>
<td></td>
<td></td>
<td>15.24%</td>
<td>11.07%</td>
<td>11.11%</td>
</tr>
<tr>
<td>Vanguard Small-Cap Index Fund Institutional</td>
<td>Small Blend</td>
<td>VSCIX</td>
<td>07/07/1997</td>
<td>16.72%</td>
<td>11.49%</td>
<td>12.39%</td>
</tr>
<tr>
<td>CRSP U.S. Small Cap Index</td>
<td></td>
<td></td>
<td></td>
<td>16.68%</td>
<td>11.46%</td>
<td>12.90%</td>
</tr>
<tr>
<td>TIAA-CREF Quant Small-Cap Equity Fund Institutional</td>
<td>Small Growth</td>
<td>TISEX</td>
<td>10/01/2002</td>
<td>13.62%</td>
<td>11.73%</td>
<td>11.66%</td>
</tr>
<tr>
<td>Russell 2000 Index</td>
<td></td>
<td></td>
<td></td>
<td>15.24%</td>
<td>11.07%</td>
<td>11.11%</td>
</tr>
<tr>
<td>Vanguard Explorer Fund Admiral</td>
<td>Small Growth</td>
<td>VEXRX</td>
<td>11/12/2001</td>
<td>28.58%</td>
<td>12.88%</td>
<td>13.42%</td>
</tr>
<tr>
<td>Russell 2500 Growth Index</td>
<td></td>
<td></td>
<td></td>
<td>23.13%</td>
<td>12.88%</td>
<td>13.61%</td>
</tr>
<tr>
<td>Vanguard Small-Cap Growth Index Fund Institutional</td>
<td>Small Growth</td>
<td>VSGIX</td>
<td>05/24/2000</td>
<td>23.60%</td>
<td>11.47%</td>
<td>13.16%</td>
</tr>
<tr>
<td>CRSP US Small Cap Growth TR USD</td>
<td></td>
<td></td>
<td></td>
<td>23.61%</td>
<td>11.41%</td>
<td>12.64%</td>
</tr>
<tr>
<td>Vanguard Small-Cap Value Index Fund Institutional</td>
<td>Small Value</td>
<td>VSIIX</td>
<td>12/07/1999</td>
<td>11.25%</td>
<td>11.46%</td>
<td>11.48%</td>
</tr>
<tr>
<td>CRSP US Small Cap Value TR USD</td>
<td></td>
<td></td>
<td></td>
<td>11.20%</td>
<td>11.48%</td>
<td>13.11%</td>
</tr>
<tr>
<td>Vanguard Global Equity Fund Investor</td>
<td>World Stock</td>
<td>VHGEX</td>
<td>08/14/1995</td>
<td>10.22%</td>
<td>9.90%</td>
<td>9.18%</td>
</tr>
<tr>
<td>MSCI All Country World Index (NR USD)</td>
<td></td>
<td></td>
<td></td>
<td>9.77%</td>
<td>8.67%</td>
<td>8.19%</td>
</tr>
<tr>
<td>Variable Annuity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CREF Stock Account R3</td>
<td>Allocation--85%+ Equity</td>
<td>QCSTIX</td>
<td>04/24/2015</td>
<td>11.79%</td>
<td>10.34%</td>
<td>9.70%</td>
</tr>
<tr>
<td>Morningstar Aggressive Target Risk Index</td>
<td></td>
<td></td>
<td></td>
<td>10.40%</td>
<td>9.26%</td>
<td>9.34%</td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark</td>
<td>Total Annual Operating Expenses (%/Per $1000)</td>
<td>Shareholder Fees &amp; Restrictions</td>
</tr>
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<td>-----------------------------</td>
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<td>-----------------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>CREF Equity Index Account R3</td>
<td>Large Blend</td>
<td>QCEQIX</td>
<td>04/24/2015</td>
<td>17.31% 13.16% 11.66%</td>
<td>0.23% 0.23% $2.30 $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>Russell 3000 Index</td>
<td></td>
<td></td>
<td></td>
<td>17.58% 13.46% 12.01%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CREF Growth Account R3</td>
<td>Large Growth</td>
<td>QCGRIX</td>
<td>04/24/2015</td>
<td>26.42% 16.51% 13.94%</td>
<td>0.26% 0.26% $2.60 $2.60</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>Russell 1000 Growth Index</td>
<td></td>
<td></td>
<td></td>
<td>26.30% 16.58% 14.31%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CREF Global Equities Account R3</td>
<td>World Stock</td>
<td>QCGLIX</td>
<td>04/24/2015</td>
<td>9.45% 8.89% 8.43%</td>
<td>0.34% 0.34% $3.40 $3.40</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>MSCI All Country World Index (NR USD)</td>
<td></td>
<td></td>
<td></td>
<td>9.77% 8.67% 8.19%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed Income</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanguard Intermediate-Term Investment-Grade Fund Admiral</td>
<td>Corporate Bond</td>
<td>VFIDX</td>
<td>02/12/2001</td>
<td>-1.38% 2.91% 5.66%</td>
<td>0.10% 0.10% $1.00 $1.00</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Bloomberg Barclays U.S. 5-10 Year Government/Credit Bond Index</td>
<td>Corporate Bond</td>
<td>VWETX</td>
<td>02/12/2001</td>
<td>-2.68% 5.95% 8.12%</td>
<td>0.12% 0.12% $1.20 $1.20</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Vanguard Long-Term Investment-Grade Fund Admiral</td>
<td>Corporate Bond</td>
<td>VWEAX</td>
<td>11/12/2001</td>
<td>1.67% 5.24% 8.05%</td>
<td>0.13% 0.13% $1.30 $1.30</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Bloomberg Barclays U.S. Long Government/Credit A+ Long Index</td>
<td>Corporate Bond</td>
<td>VIPIX</td>
<td>12/12/2003</td>
<td>3.05% 5.54% 9.46%</td>
<td>0.07% 0.07% $0.70 $0.70</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>1 Yr.</td>
<td>5 Yr.</td>
<td>10 Yr. or Since Inception</td>
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<td>Bloomberg Barclays U.S. Treasury Inflation Protected Securities (TIPS) Index (Series-L)</td>
<td></td>
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<td>0.41%</td>
<td>1.37%</td>
<td>3.32%</td>
</tr>
<tr>
<td>Vanguard GNMA Fund Admiral</td>
<td>Intermediate Government</td>
<td>VFJX</td>
<td>02/12/2001</td>
<td>-0.85%</td>
<td>2.10%</td>
<td>3.53%</td>
</tr>
<tr>
<td></td>
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<td>-0.89%</td>
<td>1.85%</td>
<td>3.38%</td>
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<tr>
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<td>VFIUX</td>
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<td>Vanguard Intermediate-Term Bond Index Fund Institutional</td>
<td>Intermediate-Term Bond</td>
<td>VBIMX</td>
<td>01/26/2006</td>
<td>-2.01%</td>
<td>2.43%</td>
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<td>Bloomberg Barclays U.S. 5-10 Year Government/Credit Float Adjusted Index</td>
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<td>-2.07%</td>
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<td>Vanguard Total Bond Market Index Fund Institutional</td>
<td>Intermediate-Term Bond</td>
<td>VBTIX</td>
<td>09/18/1995</td>
<td>-1.21%</td>
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<td>3.73%</td>
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<td>Bloomberg Barclays U.S. Aggregate Float Adjusted Index</td>
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<td>Long Government</td>
<td>VUSUX</td>
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<td>-3.72%</td>
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<td>Long-Term Bond</td>
<td>VBLLX</td>
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<td>Ticker Symbol</td>
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<td>Vanguard Short-Term Federal Fund Admiral</td>
<td>Short Government</td>
<td>VSGDX</td>
<td>02/12/2001</td>
<td>-0.16%</td>
<td>0.83%</td>
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<td>Short Government</td>
<td>VFIRX</td>
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<td>Variable Annuity</td>
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<tr>
<td>CREF Inflation-Linked Bond Account R3</td>
<td>Inflation-Protected Bond</td>
<td>QCILIX</td>
<td>04/24/2015</td>
<td>0.22%</td>
<td>1.01%</td>
<td>2.87%</td>
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<td>Bloomberg Barclays U.S. Treasury Inflation Protected Securities (TIPS) 1-10 Year Index</td>
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<td>CREF Bond Market Account R3</td>
<td>Intermediate-Term Bond</td>
<td>QCBMIX</td>
<td>04/24/2015</td>
<td>-1.05%</td>
<td>2.43%</td>
<td>3.80%</td>
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<td>Bloomberg Barclays U.S. Aggregate Bond Index</td>
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**Money Market**
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<tr>
<th>Investment Name / Benchmark</th>
<th>Morningstar Category</th>
<th>Ticker Symbol</th>
<th>Inception Date</th>
<th>Average Annual Total Returns/Benchmark</th>
<th>Total Annual Operating Expenses (%/Per $1000)</th>
<th>Shareholder Fees &amp; Restrictions</th>
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<tr>
<td><strong>Mutual Fund</strong></td>
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<td>5 Yr.</td>
<td>10 Yr. or Since Inception</td>
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<td>Vanguard Federal Money Market Fund Investor</td>
<td>Money Market-Taxable</td>
<td>VMFXX</td>
<td>07/13/1981</td>
<td>1.50%</td>
<td>0.48%</td>
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<tr>
<td>FTSE 3-Month Treasury Bill Index</td>
<td>Money Market-Taxable</td>
<td>QCMMIX</td>
<td>04/24/2015</td>
<td>1.11%</td>
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<tr>
<td><strong>Variable Annuity</strong></td>
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<tr>
<td>CREF Money Market Account R3</td>
<td>Money Market-Taxable</td>
<td>QCMIX</td>
<td>04/24/2015</td>
<td>1.13%</td>
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<td><strong>Multi-Asset</strong></td>
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<td>Vanguard LifeStrategy Income Fund Investor</td>
<td>Allocation--15% to 30% Equity</td>
<td>VASIX</td>
<td>09/30/1994</td>
<td>1.93%</td>
<td>4.05%</td>
<td>4.82%</td>
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<td>Vanguard LifeStrategy Conservative Growth Fund Investor</td>
<td>Allocation--30% to 50% Equity</td>
<td>VSCGX</td>
<td>09/30/1994</td>
<td>4.19%</td>
<td>5.63%</td>
<td>6.10%</td>
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<td><strong>Bloomberg Barclays U.S. Aggregate Bond Index</strong></td>
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<td>Vanguard Wellesley Income Fund Admiral</td>
<td>Allocation--30% to 50% Equity</td>
<td>VWIA1X</td>
<td>05/14/2001</td>
<td>3.36%</td>
<td>6.33%</td>
<td>7.98%</td>
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<td><strong>Morningstar Moderately Conservative Target Risk Index</strong></td>
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<tr>
<td>Vanguard Balanced Index Fund Institutional</td>
<td>Allocation--50% to 70% Equity</td>
<td>VBAIX</td>
<td>12/01/2000</td>
<td>9.89%</td>
<td>8.92%</td>
<td>9.02%</td>
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<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark</td>
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<td>Shareholder Fees &amp; Restrictions</td>
</tr>
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<td>1 Yr.</td>
<td>5 Yr.</td>
<td>10 Yr. or Since Inception</td>
</tr>
<tr>
<td>Morningstar Moderate Target Risk Index</td>
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<td>6.02%</td>
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<td>7.41%</td>
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<tr>
<td>Vanguard LifeStrategy Moderate Growth Fund Investor</td>
<td>Allocation--50% to 70% Equity</td>
<td>VSMGX</td>
<td>09/30/1994</td>
<td>6.44%</td>
<td>7.19%</td>
<td>7.35%</td>
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<td>Bloomberg Barclays U.S. Aggregate Bond Index</td>
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<td>Vanguard STAR Fund - Balanced Option Investor</td>
<td>Allocation--50% to 70% Equity</td>
<td>VGSTX</td>
<td>03/29/1985</td>
<td>8.10%</td>
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<td>8.78%</td>
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<tr>
<td>Morningstar Moderate Target Risk Index</td>
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<td>6.02%</td>
<td>6.51%</td>
<td>7.41%</td>
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<td>Vanguard Wellington Fund Admiral</td>
<td>Allocation--50% to 70% Equity</td>
<td>VWENX</td>
<td>05/14/2001</td>
<td>8.34%</td>
<td>9.12%</td>
<td>9.49%</td>
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<td>S&amp;P 500 Index</td>
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<td>17.91%</td>
<td>13.95%</td>
<td>11.97%</td>
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<tr>
<td>Vanguard LifeStrategy Growth Fund Investor</td>
<td>Allocation--70% to 85% Equity</td>
<td>VASGX</td>
<td>09/30/1994</td>
<td>8.69%</td>
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<td>8.35%</td>
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<td>Dow Jones U.S. Total Stock Market Index</td>
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<td>17.58%</td>
<td>13.42%</td>
<td>12.05%</td>
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<td>Vanguard Convertible Securities Fund Investor</td>
<td>Convertibles</td>
<td>VCVSX</td>
<td>06/17/1986</td>
<td>7.33%</td>
<td>5.04%</td>
<td>8.29%</td>
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<td>ICE BofAML All Convertible All Qualities</td>
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<td>12.15%</td>
<td>9.31%</td>
<td>11.00%</td>
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<tr>
<td>TIAA-CREF Lifecycle Retirement Income Fund Institutional</td>
<td>Retirement Income</td>
<td>TLRIX</td>
<td>11/30/2007</td>
<td>4.29%</td>
<td>5.64%</td>
<td>6.61%</td>
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<td>S&amp;P Target Date Retirement Income Index</td>
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<td>3.71%</td>
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<td>Vanguard Institutional Target Retirement Income Fund Institutional</td>
<td>Retirement Income</td>
<td>VITRX</td>
<td>06/26/2015</td>
<td>3.34%</td>
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<td>4.18%</td>
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<td>1.78%</td>
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## INVESTMENT OPTIONS COMPARATIVE CHART

<table>
<thead>
<tr>
<th>Investment Name / Benchmark</th>
<th>Morningstar Category</th>
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<th>Total Annual Operating Expenses (%/Per $1000)</th>
<th>Shareholder Fees &amp; Restrictions</th>
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<tr>
<td>TIAA-CREF Lifecycle 2010 Fund Institutional</td>
<td>Target Date 2000-2010</td>
<td>TCTIX</td>
<td>01/17/2007</td>
<td>4.55% 6.02% 6.94%</td>
<td>0.49% 0.37%</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>S&amp;P Target Date 2010 Index</td>
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<td>4.36% 5.09% 5.84%</td>
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<tr>
<td>TIAA-CREF Lifecycle 2015 Fund Institutional</td>
<td>Target-Date 2015</td>
<td>TCNIX</td>
<td>01/17/2007</td>
<td>5.21% 6.49% 7.30%</td>
<td>0.50% 0.38%</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>S&amp;P Target Date 2015 Index</td>
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<td></td>
<td>5.09% 5.85% 6.53%</td>
<td></td>
<td>Contractual Waiver Exp: 09/30/2021</td>
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<td>Vanguard Institutional Target Retirement 2015 Fund Institutional</td>
<td>Target-Date 2015</td>
<td>VITVX</td>
<td>06/26/2015</td>
<td>4.60% - 5.07%</td>
<td>0.09% 0.09%</td>
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<tr>
<td>Bloomberg Barclays U.S. Aggregate Bond Index</td>
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<td>-1.22% 1.78%</td>
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<td>TIAA-CREF Lifecycle 2020 Fund Institutional</td>
<td>Target-Date 2020</td>
<td>TCWIX</td>
<td>01/17/2007</td>
<td>5.90% 7.10% 7.76%</td>
<td>0.50% 0.39%</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>S&amp;P Target Date 2020 Index</td>
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<td>5.78% 6.49% 7.09%</td>
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<td>Contractual Waiver Exp: 09/30/2021</td>
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<td>VITWX</td>
<td>06/26/2015</td>
<td>5.92% - 6.04%</td>
<td>0.09% 0.09%</td>
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<td>MSCI U.S. Broad Market Index (GR USD)</td>
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<td>17.62% 12.34%</td>
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<td>TIAA-CREF Lifecycle 2025 Fund Institutional</td>
<td>Target-Date 2025</td>
<td>TCYIX</td>
<td>01/17/2007</td>
<td>7.05% 7.78% 8.22%</td>
<td>0.52% 0.41%</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>S&amp;P Target Date 2025 Index</td>
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<td>6.86% 7.13% 7.59%</td>
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<td>Contractual Waiver Exp: 09/30/2021</td>
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<tr>
<td>Vanguard Institutional Target Retirement 2025 Fund Institutional</td>
<td>Target-Date 2025</td>
<td>VRIVX</td>
<td>06/26/2015</td>
<td>6.85% - 6.67%</td>
<td>0.09% 0.09%</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>MSCI U.S. Broad Market Index (GR USD)</td>
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<td></td>
<td>17.62% 12.34%</td>
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<tr>
<td>TIAA-CREF Lifecycle 2030 Fund Institutional</td>
<td>Target-Date 2030</td>
<td>TCRIX</td>
<td>01/17/2007</td>
<td>8.00% 8.41% 8.61%</td>
<td>0.53% 0.42%</td>
<td>Round Trip: You cannot exchange into the fund within 30 calendar days of exchanging out of the fund.</td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker</td>
<td>Inception Date</td>
<td>1 Yr.</td>
<td>5 Yr.</td>
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<td>7.99%</td>
<td>7.78%</td>
<td>8.02%</td>
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<td>Target-Date 2030</td>
<td>VTTWX</td>
<td>06/26/2015</td>
<td>7.73%</td>
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<td>7.15%</td>
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<td>Target-Date 2035</td>
<td>VITFX</td>
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<td>8.54%</td>
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<td>17.62%</td>
<td>12.34%</td>
<td></td>
</tr>
<tr>
<td>TIAA-CREF Lifecycle 2040</td>
<td>Fund Institutional</td>
<td>TCOIX</td>
<td>01/17/2007</td>
<td>10.13%</td>
<td>9.57%</td>
<td>9.45%</td>
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<tr>
<td>S&amp;P Target Date 2040 Index</td>
<td></td>
<td></td>
<td></td>
<td>9.68%</td>
<td>8.79%</td>
<td>8.67%</td>
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<tr>
<td>Vanguard Institutional</td>
<td>Target-Date 2040</td>
<td>VIRSX</td>
<td>06/26/2015</td>
<td>9.39%</td>
<td>-</td>
<td>8.11%</td>
</tr>
<tr>
<td>MSCI U.S. Broad Market Index (GR USD)</td>
<td></td>
<td></td>
<td></td>
<td>17.62%</td>
<td>12.34%</td>
<td></td>
</tr>
<tr>
<td>TIAA-CREF Lifecycle 2045</td>
<td>Fund Institutional</td>
<td>TTFIX</td>
<td>11/30/2007</td>
<td>10.86%</td>
<td>9.84%</td>
<td>9.45%</td>
</tr>
<tr>
<td>S&amp;P Target Date 2045 Index</td>
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<td></td>
<td>9.98%</td>
<td>9.05%</td>
<td>8.79%</td>
</tr>
<tr>
<td>Vanguard Institutional</td>
<td>Target-Date 2045</td>
<td>VITLX</td>
<td>06/26/2015</td>
<td>9.92%</td>
<td>-</td>
<td>8.44%</td>
</tr>
<tr>
<td>MSCI U.S. Broad Market Index (GR USD)</td>
<td></td>
<td></td>
<td></td>
<td>17.62%</td>
<td>12.34%</td>
<td></td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark 1 Yr.</td>
<td>Average Annual Total Returns/Benchmark 5 Yr.</td>
<td>Average Annual Total Returns/Benchmark 10 Yr. or Since Inception</td>
</tr>
<tr>
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<td>TIAA-CREF Lifecycle 2050 Fund Institutional</td>
<td>Target-Date 2050</td>
<td>TFTIX</td>
<td>11/30/2007</td>
<td>10.89%</td>
<td>9.93%</td>
<td>9.37%</td>
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<tr>
<td>Morningstar Target Date 2050 Index</td>
<td></td>
<td></td>
<td></td>
<td>10.26%</td>
<td>9.29%</td>
<td>8.96%</td>
</tr>
<tr>
<td>Vanguard Institutional Target Retirement 2050 Fund Institutional</td>
<td>Target-Date 2050</td>
<td>VTRRX</td>
<td>06/26/2015</td>
<td>9.88%</td>
<td>-</td>
<td>8.44%</td>
</tr>
<tr>
<td>MSCI U.S. Broad Market Index (GR USD)</td>
<td></td>
<td></td>
<td></td>
<td>17.62%</td>
<td>12.34%</td>
<td></td>
</tr>
<tr>
<td>TIAA-CREF Lifecycle 2055 Fund Institutional</td>
<td>Target-Date 2055</td>
<td>TTRRX</td>
<td>04/29/2011</td>
<td>11.09%</td>
<td>10.02%</td>
<td>9.43%</td>
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<tr>
<td>S&amp;P Target Date 2055 TR USD</td>
<td>Target-Date 2055</td>
<td>VIVLX</td>
<td>06/26/2015</td>
<td>9.84%</td>
<td>-</td>
<td>8.43%</td>
</tr>
<tr>
<td>MSCI U.S. Broad Market Index (GR USD)</td>
<td></td>
<td></td>
<td></td>
<td>17.62%</td>
<td>12.34%</td>
<td></td>
</tr>
<tr>
<td>TIAA-CREF Lifecycle 2060 Fund Institutional</td>
<td>Target-Date 2060+</td>
<td>TLNX</td>
<td>09/26/2014</td>
<td>11.21%</td>
<td>-</td>
<td>9.59%</td>
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<tr>
<td>S&amp;P Target Date 2060+ TR USD</td>
<td>Target-Date 2060+</td>
<td>VILVX</td>
<td>06/26/2015</td>
<td>9.83%</td>
<td>-</td>
<td>8.41%</td>
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<td>MSCI U.S. Broad Market Index (GR USD)</td>
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<td>17.62%</td>
<td>12.34%</td>
<td></td>
</tr>
<tr>
<td>Variable Annuity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CREF Social Choice Account R3</td>
<td>Allocation--50% to 70% Equity</td>
<td>QCSCIX</td>
<td>04/24/2015</td>
<td>6.92%</td>
<td>7.12%</td>
<td>7.71%</td>
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<tr>
<td>Morningstar Moderate Target Risk Index</td>
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<td></td>
<td></td>
<td>6.02%</td>
<td>6.51%</td>
<td>7.41%</td>
</tr>
<tr>
<td>Real Estate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Variable Annuity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investment Name / Benchmark</td>
<td>Morningstar Category</td>
<td>Ticker Symbol</td>
<td>Inception Date</td>
<td>Average Annual Total Returns/Benchmark</td>
<td>Total Annual Operating Expenses (%/Per $1000)</td>
<td>Shareholder Fees &amp; Restrictions</td>
</tr>
<tr>
<td>----------------------------</td>
<td>---------------------</td>
<td>--------------</td>
<td>---------------</td>
<td>----------------------------------------</td>
<td>---------------------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>TIAA Real Estate Account</td>
<td>N/A</td>
<td>QREARX</td>
<td>10/02/1995</td>
<td>5.14% 7.05% 2.99%</td>
<td>0.79% 0.79%</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>S&amp;P 500 Index</td>
<td></td>
<td></td>
<td></td>
<td>17.91% 13.95% 11.97%</td>
<td>$7.90 $7.90</td>
<td></td>
</tr>
</tbody>
</table>

Table 1 shows fee and expense information for the investment options listed including the Total Annual Operating Expenses expressed as a percentage and a dollar amount based upon a $1,000 accumulation both as net and gross 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.
Table 2 – Fixed Return Investments

The following chart lists the plan's investment options that have a fixed or stated rate of return.

<table>
<thead>
<tr>
<th>Name/Type/Option</th>
<th>Return</th>
<th>Term</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guaranteed Annuity</td>
<td>4.00%</td>
<td>Through 02/28/2019</td>
<td>The current rate shown applies to premiums remitted during the month of October 2018 and will be credited through 2/28/2019. 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 855-250-5424. 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.</td>
</tr>
<tr>
<td>TIAA Traditional-Group Retirement Annuity</td>
<td>3.25%</td>
<td>Through 02/28/2019</td>
<td>The current rate shown applies to premiums remitted during the month of October 2018 and will be credited through 2/28/2019. 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 855-250-5424. 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. For Group Supplemental Retirement Annuity (GSRA) contracts, and subject to the terms of your employer's plan, lump-sum withdrawals and transfers are available from the TIAA Traditional account without any restrictions or charges. After termination of employment additional income options may be available including income for life, income for a fixed period of time, and IRS required minimum distribution payments.</td>
</tr>
<tr>
<td>Name/Type/Option</td>
<td>Return</td>
<td>Term</td>
<td>Additional Information</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>---------</td>
<td>------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>TIAA Traditional-Retirement Choice</td>
<td>4.25%</td>
<td>Through 02/28/2019</td>
<td>The current rate shown applies to premiums remitted during the month of October 2018 and will be credited through 2/28/2019. 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 855-250-5424. TIAA Traditional guarantees your principal and a minimum annual interest rate. The current guaranteed minimum interest rate for premiums remitted in 2018 is 1.00%, and is effective through 2027. The account also offers the opportunity for additional amounts in excess of the minimum interest rate. When declared, additional amounts remain in effect for the twelve-month period that begins each March 1 for accumulating annuities and January 1 for payout annuities. Additional amounts are not guaranteed for the future years. All guarantees are subject to TIAA's claims paying ability. TIAA Traditional is designed primarily to help meet your long-term retirement income needs; it is not a short-term savings vehicle. Therefore, some contracts require that benefits are paid in installments over time and/or may impose surrender charges on certain withdrawals. TIAA has rewarded participants who save in contracts where benefits are paid in installments over time instead of in an immediate lump-sum by crediting higher interest rates, typically 0.50% to 0.75% higher. Higher rates will lead to higher account balances and more retirement income for you. For Retirement Choice (RC) contracts, and subject to the terms of your employer's plan, lump-sum withdrawals are available from the TIAA Traditional account only within 120 days after termination of employment and are subject to a 2.5% surrender charge. All other withdrawals and transfers from the account must be paid in 84 monthly installments (7 years). If the Contractholder elects to remove TIAA Traditional, the contract's entire TIAA Traditional accumulation will be paid out in 60 monthly installments without any surrender charge.</td>
</tr>
<tr>
<td>TIAA Traditional-Retirement Choice Plus</td>
<td>3.50%</td>
<td>Through 02/28/2019</td>
<td>The current rate shown applies to premiums remitted during the month of October 2018 and will be credited through 2/28/2019. 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 855-250-5424. TIAA Traditional guarantees your principal and a minimum annual interest rate. The current guaranteed minimum interest rate is 1.15% for premiums remitted in March 2018 through February 2019, and is effective through February 2019. The account also offers the opportunity for additional amounts in excess of the minimum interest rate. When declared, additional amounts remain in effect for the twelve-month period that begins each March 1 for accumulating annuities and January 1 for payout annuities. Additional amounts are not guaranteed for the future years. All guarantees are subject to TIAA's claims paying ability. For Retirement Choice Plus (RCP) contracts, and subject to the terms of your employer's plan, lump-sum withdrawals and transfers are available from the TIAA Traditional account without any surrender charges. For certain RCP contracts, any transfer from TIAA Traditional to a competing fund must first be directed to a non-competing fund for a period of 90 days. After 90 days, transfers may be made to a competing fund, including transferring back to TIAA Traditional. (TIAA Contract form IGRSP-02-ACC/TIAA Certificate form IGRSP-CERT3-ACC). After termination of employment additional income options may be available including income for life and IRS required minimum distribution payments. The Contractholder (typically your employer as the sponsor of your plan) has the right to remove TIAA Traditional as a plan option. If elected, the contract's entire TIAA Traditional accumulation will be paid out in 60 monthly installments, without any surrender charge and will be reinvested at the direction of your plan sponsor. Please refer to your contract certificate for additional details.</td>
</tr>
</tbody>
</table>
Part B. Annuity Information

The information below focuses on the annuity options under the plan. Annuities are insurance contracts that allow you to receive a guaranteed stream of payments at regular intervals, usually beginning when you retire and lasting for your entire life. Annuities are issued by insurance companies. Guarantees of an insurance company are subject to its long-term financial strength and claims-paying ability.

TIAA Traditional Annuity Lifetime Income Option

OBJECTIVES / GOALS
To provide a guaranteed stable stream of income for your life and, if you choose, the life of an annuity partner. A TIAA Traditional Annuity provides income stability by providing a minimum guaranteed interest rate as well as the potential for additional interest. TIAA Traditional can be part of a diversified retirement portfolio that may include stocks (equities), bonds (fixed income), real estate, and money market investments. Electing a life annuity is just one of many payout options available under the TIAA Traditional Annuity.

PRICING FACTORS
The amount of your lifetime income is dependent upon many factors including:
• The type of annuity selected (single life, joint life, with or without guaranteed minimum periods), and your selection of either the standard or graded benefit method.
• The amount of accumulations converted to a life annuity.
• Your age and, if applicable, the age of your annuity partner.
• The projected returns of the TIAA Traditional Annuity.

Under no circumstances will you receive less than the guaranteed amount of income required under the annuity contracts. To learn more about investments that offer lifetime annuity income, please access the web link provided in the Performance and Fee Information section.

RESTRICTIONS / FEES
• You may not begin a one-life annuity after you attain age 90, nor may you begin a two-life annuity after you or your annuity partner attains age 90.
• Subject to contract terms, if your accumulation is less than $5,000 on your annuity starting date, TIAA may choose instead to pay your accumulations to you in a single sum.
• If your TIAA annuity payment would be less than $100, TIAA has the right to change the payment frequency which would result in a payment of $100 or more.
• Once you have elected a lifetime annuity, your election is irrevocable.

TIAA Real Estate and CREF Variable Annuity Lifetime Income Options

OBJECTIVES / GOALS
To provide a variable stream of income for your life and, if you choose, the life of an annuity partner. This lifetime annuity provides a variable income that you cannot outlive. A variable annuity can be part of a diversified retirement portfolio that may include guaranteed, stocks (equities), bonds (fixed income), real estate, and money market investments. Electing a life annuity is just one of many payout options available.

PRICING FACTORS
The amount of your lifetime income is dependent upon many factors including:
• The type of annuity selected (single life, joint life, with or without guaranteed minimum periods).
• The amount of accumulations converted to a life annuity.
• Your age and, if applicable, the age of your annuity partner.
• The investment performance of the variable annuity account your annuity is based upon.

Variable annuity accounts don't guarantee a minimum income. Income fluctuates based on market performance and is directly tied to the accounts' investment returns. A 4% annual investment return is assumed. Generally, if the actual return in a given year is greater than 4% the amount of annuity income will increase; if it is less than 4%, the income will decrease. To learn more about investments that offer lifetime annuity income, please access the web link provided in the Performance and Fee Information section.

RESTRICTIONS / FEES
• You may not begin a one-life annuity after you attain age 90, nor may you begin a two-life annuity after you or your annuity partner attains age 90.
• Subject to contract terms, if your accumulation is less than $5,000 on your annuity starting date, TIAA may choose instead to pay your accumulations to you in a single sum.
• If your annuity payment would be less than $100, TIAA has the right to change the payment frequency which would result in a payment of $100 or more.
• Once you have elected a lifetime annuity, your election is irrevocable.
• Upon annuitization of CREF accumulations, the expenses associated with CREF will be the same as the R3 Class regardless of the CREF Class prior to annuitization. The R3 Class has the lowest expense of all the CREF Classes.
Please visit www.TIAA.org/public/support/help/glossary/index.html for a glossary of investment terms relevant to the investment options under this plan.

Fees and expenses are only one of many factors to consider when you decide to invest in an option. You may also want to think about whether an investment in a particular option, along with your other investments, will help you achieve your financial goals. The cumulative effect of fees and expenses can substantially reduce the growth of your retirement savings. Visit the Department of Labor's website for an example showing the long-term effect of fees and expenses at www.dol.gov/ebsa/publications/401k_employee.html.

**TIAA important additional information:**

The returns quoted represent past performance, which is no guarantee of future results. Returns and the principal value of your investment will fluctuate. Current performance may be higher or lower than that shown, and you may have a gain or a loss when you redeem your investments. Expense ratios shown are based on the most recent information available, but may not reflect all updates. Please consult the most recent prospectus or offering document for more detailed information.

Variable return investments (mutual funds and/or variable annuities) are offered through your plan sponsor's retirement plan. 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.

If a variable return investment option includes performance for periods beyond its inception date that performance is based on the performance of an older share class of the investment option. Such performance has not been restated to reflect expense differences between the two classes. If expense differences had been reflected, performance for these periods would be lower or higher than stated.

TIAA provides information on restrictions on recordkept investment options, as well as performance and product information for all proprietary investment options. TIAA assumes no responsibility for damages or losses arising from the use of such information, and has not independently verified the accuracy or completeness of such information.

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The Morningstar Category classifies an investment option based on its investment style as measured by underlying portfolio holdings (portfolio statistics and compositions over the past three years). If the investment option 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.

There are inherent risks in investing in variable return investments including loss of principal. Please read the prospectus and carefully consider the investment objectives, risks, charges and expenses before investing.

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