

INVESTMENT PERFORMANCE SUMMARIES DISCLOSURE

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 accumulation units or shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than the performance quoted within. For the most recent month end performance, visit the TIAA website at <https://www.tiaa.org/public/tcfpi/InvestResearch> or call 877-518-9161.

For mutual fund prospectuses, or for annuities the contract prospectus and, if applicable, the underlying funds' prospectuses visit the TIAA website at <http://www.tiaa.org/public/prospectuses/> or call 877-518-9161.

TIAA Mutual Funds are managed by Teacher's Advisors, LLC under the supervision of the Board of Trustees. Advisors is an indirect wholly-owned subsidiary of TIAA. It is registered as an investment adviser with the U.S. Securities and Exchange Commission under the Investment Advisers Act of 1940.

CREF variable annuity accounts are managed by TIAA Investment Management, LLC, a registered investment adviser.

Annuity account options are available through contracts issued by TIAA or CREF. These contracts are designed for retirement or other long-term goals, and offer a variety of income options, including lifetime income. Payments from the variable annuity accounts [and mutual funds] are not guaranteed and will rise or fall based on investment performance. Mutual funds do not offer the range of income options available through annuities.

The CREF Money Market Account and TIAA-CREF Money Market Fund are not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. Although the TIAA-CREF Money Market Fund seeks to preserve the value of your investment at \$1 per share, it is possible to lose money by investing in the fund.

The current yield of the money market funds/accounts more closely reflects current earnings than does the total return.

For the CREF variable annuity accounts we estimate expenses for the coming year based on projected expenses, asset levels and other relevant factors. At the end of each quarter, we compare these projections with the account's actual experience and adjust the account's expenses upward or downward to reflect any difference. These adjustments are made in equal daily installments over the remaining days of the new quarter.

TIAA-CREF Individual & Institutional Services, LLC and Teachers Personal Investors Services, Inc. and Nuveen Securities, LLC, Members FINRA and SIPC, distribute securities products. Annuity contracts and certificates are issued by Teachers Insurance and Annuity Association of America (TIAA) and College Retirement Equities Fund (CREF), New York, NY. Each is solely responsible for its own financial condition and contractual obligations.

The investment advisory services, strategies and expertise of TIAA Investments, a division of Nuveen, are provided by Teachers Advisors, LLC and TIAA-CREF Investment Management, LLC. Securities offered through Nuveen Securities, LLC.

Please note that equity returns have historically been higher than other asset classes, but carry considerable risk of principal. Small stocks are traditionally more volatile than large stocks. Fixed income returns have historically been less than equity returns, are subject to interest rate risk, but bring greater safety of principal. Real estate investing has special risks, including fluctuations in property value, higher expenses or lower income than expected, and potential environmental problems and liability.

Morningstar is an independent service that rates mutual funds and variable annuities, based on risk-adjusted returns. Although Morningstar data are gathered from reliable sources, neither Morningstar nor TIAA can guarantee its completeness and accuracy. Morningstar does not rate money market accounts. Past performance does not guarantee future results. Accumulation net asset values and returns will vary.

Morningstar ratings include Retail, Retirement, Premier and Institutional fund share classes that have completed one calendar year of performance; CREF Variable Annuity Accounts; and the Life Funds. Please note Morningstar rates CREF group variable annuities within the open-end mutual fund universe. Current rankings may be higher or lower on a monthly basis. Morningstar is an independent service that rates mutual funds and variable annuities. The top 10% of accounts in an investment category receive five stars, the next 22.5% receive four stars, and the next 35% receive three stars. Morningstar proprietary ratings reflect historical risk-adjusted performance and can change every month. They are calculated from the account's three-, five- and ten-year average annual returns in excess of 90-day Treasury bill returns with appropriate fee adjustments, and a risk factor that reflects subaccount performance below 90-day T-bill returns. Past performance cannot guarantee future results. For current performance and rankings, please visit <https://www.tiaa.org/public/tcfpi/InvestResearch>.

There are special risks associated with investments in foreign securities, including erratic market conditions economic and political instability and fluctuations in currency exchange rates.

TIAA may use fair value pricing when there are significant market movements in the United States after foreign markets have closed and it is expected that prices on those markets will change when they open the next day. Our benchmark indexes do not use this procedure. This difference in calculating share prices may magnify differences between a fund's performance and that of its benchmark. For a full description of fair value pricing, please see the section 'Calculating share price' in the mutual fund prospectuses.

Lifecycle Fund Disclosures:

The Target Date is the approximate date when investors plan to start withdrawing their money.

The principal investment in any Lifecycle Fund is not guaranteed at any time even at or after the Target Date has been reached.

The Lifecycle Funds are Actively Managed fund of funds that invest primarily in Actively Managed Mutual Funds. Any chart or depiction of Lifecycle Fund asset allocation or glide paths will reflect current allocation and may be subject to change at any moment without notice.

Approximately seven to ten years following the Lifecycle Fund's target date the Fund may be merged into the TIAA-CREF Lifecycle Retirement Income Fund.

Benchmark Disclosures:

Please note, you cannot invest directly in any index.

The Morgan Stanley Capital International Europe, Australasia, Far East (EAFE) Index is an unmanaged index. The Index tracks the performance of the leading stocks in 21 MSCI developed countries outside of North America. EAFE is a trademark of Morgan Stanley Capital International, Inc. The Morgan Stanley Capital International All Country World Ex USA Index is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging market nations, excluding the United States. The MSCI Emerging Markets® (EM) Index tracks the performance of the leading stocks in 20 MSCI emerging countries in the following areas: Europe, Asia, Africa, Latin America and the Middle East. The MSCI All Country World Commodity Producers Sector Capped Index (the "Index") is a free float-adjusted index that tracks the overall performance of stocks of commodity producers in 24 developed market and 21 emerging market countries around the world.

The iMoneyNet Money Fund Averages™ – All Government is a simple average of over 500 money market funds that invest in U.S. Treasuries, U.S. Agencies, repurchase agreements and government-backed floating rate notes and you cannot invest directly in it.

Standard & Poor's 500 Index and S&P are registered trademarks. The S&P 500 Index is an unmanaged index of 500 stocks. S&P 500 is a trademark of The McGraw-Hill Companies, Inc.

The Russell 1000, 2000, 2500, 3000, MidCap Growth, MidCap Value indexes are registered trademarks of the Frank Russell Company. Our accounts are not promoted or sponsored by or affiliated with Frank Russell Company.

The ICE BofA Merrill Lynch BB-B US Cash Pay Index is an unmanaged index. The index includes securities that are rated either BB or B on a composite basis by Moody's and Standard & Poor's and are U.S. dollar cash-pay securities.

The Bloomberg Barclays U.S. Aggregate Bond Index, the Bloomberg Barclays 10-Year Municipal Bond Index and the Bloomberg Barclays Mutual Fund (1-3 Year) Government/Credit Index are all unmanaged indices.

The NAREIT Index is an unmanaged, market capitalization weighted index of all publicly-traded REITs that invest predominantly in the equity ownership of real estate. The index is designed to reflect the performance of all publicly-traded equity REITs as a whole.

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INVESTMENT PERFORMANCE SUMMARIES INSTRUCTIONS

Every month and every quarter, TIAA creates a summary of performance information on all TIAA-CREF funds. The performance summaries highlight month or quarter end reviews of:

- Six different asset classes of funds
- Net assets under management for each fund
- Expense Ratio
- 1 month, 3 month, YTD performance
- 1, 3, 5, 10 year and since inception performance
- Benchmark comparisons

The reports are available the 10th business day of each month. If you plan to utilize this information for internally-generated reports of investment funds offered by your institution, please make certain that the following guidelines are adhered to in order to ensure proper legal and regulatory disclosures are provided to your institution's employees. Disclosures are an increasing focus of securities regulators (including SEC and FINRA) so we feel this protects both you and your participants while providing useful and current information. Please contact your TIAA Relationship Manager if you have any questions. Thank you.

1. The disclosure page cannot be changed in any way and must be provided with the report.
2. Benchmark data may be removed for a fund(s) but the removal must be consistent across all funds. For example, if your plan offers TIAA-CREF Large Cap Value Fund, you may either delete all of the benchmarks associated with this Fund or keep all of them.
3. Non-proprietary funds cannot be added to this spreadsheet. If you offer non-proprietary funds in your plans, a clear distinction must be made between those funds and the TIAA-CREF funds.
4. The disclosure page should precede the performance presentation, or otherwise be prominently presented.
5. The performance data should not be altered in any way.
6. Only those tabs/share classes/funds offered under the respective plans may be sent to plan administrators.

Thank you for your cooperation in adhering to these guidelines. Please contact your TIAA Relationship Manager if you need additional information or if you have any questions.

INVESTMENT PERFORMANCE SUMMARY
CREF VARIABLE ANNUITIES - R3

FOR PERIOD ENDING October 31, 2018
 PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

ACCOUNT	Total Portfolio Net Assets (in \$Mil.)	Exp. Ratio (bps)	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	
10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	10/31/18 to 10/31/18	Inc. Date			
U.S. Equities															
CREF EQUITY INDEX ACCOUNT	\$18,480.90	23	17.31%	16.81%	13.16%	11.66%	-7.36%	-3.98%	2.27%	6.39%	11.03%	10.53%	12.98%	9.35%	4/29/1994
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	9.70%	4/24/2015
Fund vs. Russell 3000 Index			-27	-26	-30	-35	0	-3	-16	-21	-24	-28	-37	-35	
PG: Large Blend M*star OE Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A	
Fund vs. Large Blend M*star OE Category			196	164	123	82	N/A	N/A	N/A	111	130	109	84	N/A	
PG: Fund % Rank in Large Blend M*star Category			35%	27%	33%	31%	N/A	N/A	N/A	43%	30%	34%	31%	N/A	
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A	
Fund Star Rating			N/A	****	****	***	N/A	N/A	N/A	N/A	****	****	***	N/A	
CREF GROWTH ACCOUNT	\$25,644.40	26	26.42%	19.73%	16.51%	13.94%	-9.70%	-4.48%	5.83%	9.88%	12.60%	13.19%	14.99%	8.77%	4/29/1994
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	9.61%	4/24/2015
Fund vs. Russell 1000 Growth Index			12	-82	-7	-37	-76	-105	-79	-83	-107	-24	-46	-84	
PG: Large Growth M*star OE Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A	
Fund vs. Large Growth M*star OE Category			324	205	249	134	N/A	N/A	N/A	118	135	214	126	N/A	
PG: Fund % Rank in Large Growth M*star Category			28%	26%	15%	25%	N/A	N/A	N/A	37%	30%	19%	26%	N/A	
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
Global Equities															
CREF GLOBAL EQUITIES ACCOUNT⁽⁵⁾	\$19,739.40	34	9.45%	12.41%	8.89%	8.43%	-8.65%	-7.72%	-5.69%	-2.18%	6.58%	6.13%	9.92%	7.39%	5/1/1992
BM: MSCI AC World Index			9.77%	13.40%	8.67%	8.19%	-7.49%	-6.36%	-3.96%	-0.52%	7.74%	6.15%	9.75%	N/A	4/24/2015
Fund vs. MSCI AC World Index			-32	-99	22	24	-116	-136	-173	-166	-116	-2	17	N/A	
BM: MSCI World Index			11.24%	13.54%	9.28%	8.56%	-7.34%	-5.67%	-2.31%	1.16%	7.91%	6.81%	10.02%	7.33%	
Fund vs. MSCI World Index			-179	-113	-39	-13	-131	-205	-338	-334	-133	-68	-10	6	
PG: World Large Stock M*star OE Category			8.87%	12.44%	8.24%	8.25%	N/A	N/A	N/A	-1.14%	6.98%	5.76%	9.65%	N/A	
Fund vs. World Large Stock M*star OE Category			58	-3	65	18	N/A	N/A	N/A	-104	-40	37	27	N/A	
PG: Fund % Rank in World Large Stock M*star Category			46%	50%	41%	45%	N/A	N/A	N/A	63%	60%	46%	43%	N/A	
PG: # of funds in World Large Stock M*star Category			895	739	611	348	N/A	N/A	N/A	887	735	614	362	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
CREF STOCK ACCOUNT^(6,8)	\$113,967.80	31	11.79%	14.37%	10.34%	9.70%	-8.14%	-6.52%	-2.87%	0.53%	8.59%	7.63%	11.08%	9.75%	7/31/1952
BM: CREF Composite Benchmark ⁽¹⁾			12.68%	15.02%	10.73%	10.00%	-7.66%	-5.76%	-1.85%	1.92%	9.27%	8.11%	11.40%	N/A	4/24/2015
Fund vs. CREF Composite Benchmark			-89	-65	-39	-30	-48	-76	-102	-139	-68	-48	-32	N/A	
BM: Morningstar Aggressive Target Risk TR USD			10.40%	13.86%	9.26%	9.34%	-7.19%	-6.07%	-3.11%	0.53%	8.66%	6.88%	10.78%	N/A	
Fund vs. Morningstar Aggressive Target Risk TR USD			139	51	108	36	-95	-45	24	0	-7	75	30	N/A	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	N/A	
Fund vs. Russell 3000 Index			-579	-270	-312	-231	-78	-257	-530	-607	-268	-318	-227	N/A	
PG: Allocation--85%+ Equity M*star OE Category			10.08%	12.40%	8.72%	9.01%	N/A	N/A	N/A	0.21%	7.18%	6.25%	10.33%	N/A	
Fund vs. Allocation--85%+ Equity M*star OE Category			171	197	162	69	N/A	N/A	N/A	32	141	138	75	N/A	
PG: Fund % Rank in Allocation--85%+ Equity M*star Category			24%	6%	11%	11%	N/A	N/A	N/A	40%	10%	12%	7%	N/A	
PG: # of funds in Allocation--85%+ Equity M*star Category			196	176	151	108	N/A	N/A	N/A	195	174	149	108	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
Fixed Income															
CREF BOND MARKET ACCOUNT	\$13,048.20	31	-1.05%	1.80%	2.43%	3.80%	-0.72%	-0.76%	-2.24%	-1.90%	1.48%	2.08%	4.01%	5.63%	3/1/1990
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	5.84%	4/24/2015
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			17	49	27	3	7	3	14	15	44	25	7	-21	
PG: Intermediate-Term Bond M*star OE Category			-1.06%	1.65%	2.14%	4.21%	N/A	N/A	N/A	-1.87%	1.30%	1.79%	4.55%	N/A	
Fund vs. Intermediate-Term Bond M*star OE Category			1	15	29	-41	N/A	N/A	N/A	-3	18	29	-54	N/A	
PG: Fund % Rank in Intermediate-Term Bond M*star Category			43%	39%	31%	69%	N/A	N/A	N/A	47%	40%	30%	70%	N/A	
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796	577	N/A	N/A	N/A	1027	887	785	568	N/A	
Fund Star Rating			N/A	***	****	***	N/A	N/A	N/A	N/A	***	****	**	N/A	
CREF INFLATION-LINKED BOND ACCOUNT	\$6,341.50	24	0.22%	1.58%	1.01%	2.87%	-0.81%	-0.85%	-1.18%	-0.79%	1.21%	0.75%	3.71%	4.73%	5/1/1997
BM: Bloomberg Barclays US TIPS 1-10 Year Index			0.33%	1.65%	0.94%	2.52%	-0.78%	-0.80%	-0.98%	-0.61%	1.38%	0.69%	3.29%	N/A	4/24/2015
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-11	-7	7	35	-3	-5	-20	-18	-17	6	42	N/A	
PG: Inflation-Protected Bond M*star OE Category			0.42%	1.95%	0.97%	2.89%	N/A	N/A	N/A	-1.23%	1.40%	0.58%	3.61%	N/A	
Fund vs. Inflation-Protected Bond M*star OE Category			-20	-37	4	-2	N/A	N/A	N/A	44	-9	17	10	N/A	
PG: Fund % Rank in Inflation-Protected Bond M*star Category			65%	60%	42%	56%	N/A	N/A	N/A	32%	55%	35%	48%	N/A	
PG: # of funds in Inflation-Protected Bond M*star Category			236	207	174	107	N/A	N/A	N/A	235	206	173	107	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
Multi-Asset															
CREF SOCIAL CHOICE ACCOUNT⁽³⁾	\$13,385.80	27	6.92%	9.32%	7.12%	7.71%	-4.88%	-3.65%	-1.68%	0.52%	5.94%	5.50%	8.57%	8.09%	3/1/1990
BM: CREF Social Choice Account Composite Benchmark			7.17%	9.31%	7.51%	7.97%	-4.84%	-3.56%	-1.52%	0.79%	5.89%	5.88%	8.82%	8.20%	4/24/2015
Fund vs. CREF Social Choice Account Composite Benchmark			-25	1	-39	-26	-4	-9	-16	-27	5	-38	-25	-11	
BM: Morningstar Moderate Target Risk TR USD			6.02%	9.19%	6.51%	7.41%	-4.71%	-3.98%	-2.61%	-0.22%	5.99%	4.96%	8.28%	N/A	
Fund vs. Morningstar Moderate Target Risk TR USD			90	13	61	30	-17	33	93	74	-5	54	29	N/A	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	9.99%	
Fund vs. Russell 3000 Index			-1066	-775	-634	-430	248	30	-411	-608	-533	-531	-478	-190	
PG: Allocation--50% to 70% Equity M*star OE Category			6.75%	8.80%	6.67%	7.58%	N/A	N/A	N/A	0.34%	5.42%	5.03%	8.56%	N/A	
Fund vs. Allocation--50% to 70% Equity M*star OE Category			17	52	45	13	N/A	N/A	N/A	18	52	47	1	N/A	
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			40%	37%	41%	44%	N/A	N/A	N/A	38%	33%	39%	46%	N/A	
PG: # of funds in Allocation--50% to 70% Equity M*star Category			771	703	619	450	N/A	N/A	N/A	773	702	620	450	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	****	***	***	N/A	

INVESTMENT PERFORMANCE SUMMARY
CREF VARIABLE ANNUITIES - R3

FOR PERIOD ENDING October 31, 2018
 PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

ACCOUNT	Total Portfolio Net Assets (in \$Mil.)	Exp. Ratio (bps)	Previous Quarter-End Returns				Current Month-End Returns					Since Inception	Inc. Date		
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year			5 Year	10 Year
	10/01/17 to 10/31/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18				
Money Market															
CREF MONEY MARKET ACCOUNT^[2,4,7]	\$9,607.70	24	1.11%	0.52%	0.31%	0.23%	0.16%	0.46%	1.10%	1.21%	0.58%	0.34%	0.22%	3.17%	4/1/1988
PG: iMoneynet Money Fund AveragesTM-All Government			1.13%	0.50%	0.30%	0.18%	0.15%	0.41%	1.10%	1.22%	0.55%	0.33%	0.19%	2.88%	4/24/2015
Fund vs.iMoneynet Money Fund AveragesTM-All Government			-2	2	1	5	1	5	0	-1	3	1	3	29	
7-Day Effective Yield as of 10/31/2018: 1.99%															
7-Day Current Yield as of 10/31/2018: 1.99%															
CREF ACCOUNTS TOTALS	\$220,215.70														

BM = Benchmark; PG = Peer Group; % Rank within Morningstar Category: 1 = Best 100 = Worst; Morningstar Category Returns are equal-weighted.

The Morningstar category averages, percentile ranks and star ratings are sourced from the Morningstar Essentials files prepared for TIAA as well as from Morningstar Direct.

Morningstar, Inc. rates and ranks U.S. variable annuities' underlying funds within their open-end mutual funds universe and includes the effect of fees and expenses charged by U.S. variable annuities in their comparisons. The data points that provide the number of investments in each category for the 3, 5, and 10 year time periods reflect the number of funds in each respective Morningstar open-end fund category.

Where a product lists two inception dates, the top date reflects the inception date of the product's oldest share class, and the bottom date represents the date of inception for the Share Class being reported. 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.

[1] Current Weightings: 70.00% Russell 3000® Index, 30.00% MSCI ACWI ex US Investable Market Index.

[2] The Peer Group since inception performance shown is computed from May 1988.

[3] As of July 1, 2002, the domestic equity component of the Social Choice Account uses the Russell 3000® Index as its benchmark. Prior to July 1, 2002, it used the S&P 500® Index. Consequently, the domestic equity component of the benchmark data involving time periods prior to July 1, 2002, are a combination of the Russell 3000® and the S&P 500®, reflecting the proportional weights of the two equity benchmarks during the periods involved. As of April 1, 2008, the MSCI EAFE®+Canada Index was added to the Social Choice Account's composite benchmark to reflect the change in the equity component of the account to include foreign developed-market stocks. The current weightings are 42% Russell 3000® Index, 40% Bloomberg Barclays U.S. Aggregate Bond Index, 18% MSCI EAFE + Canada Index.

As provided for in the annuity contracts or certificates, restrictions may apply to certain plan sponsor and / or participant initiated transactions. Please refer to these documents for details.

[4] Beginning July 16, 2009, part or all of the 12b-1 distribution expenses and/or administrative expenses attributable to the CREF Money Market Account are being voluntarily waived. Without these waivers, the 7-day current and effective annualized yields and total returns would have been lower. These waivers may be discontinued at any time without notice. Amounts waived on or after October 1, 2010 are subject to possible recovery by TIAA under certain conditions. Please see the prospectus for additional information.

[5] Effective May 1, 2018 the Fund's benchmark index changed from MSCI World Index to MSCI AC World Index.

[6] If a fund is displayed with a "composite index", an appropriate broad market index is also included for reference.

[7] Effective October 1, 2016, the iMoneyNet Money Fund Averages-All Taxable peer group was changed to the iMoneyNet Money Fund Averages-All Government.

[8] Previously, the Fund compared its performance to the Russell 3000 Index instead of the Morningstar Aggressive Target Risk Index as shown. 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.

INVESTMENT PERFORMANCE SUMMARY
CREF VARIABLE ANNUITIES - R2

FOR PERIOD ENDING October 31, 2018
 PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

ACCOUNT	Total Portfolio Net Assets (in \$Mil.) 10/31/18	Exp. Ratio (bps)	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Returns				Avg. Annual Returns								
			1 Year 10/01/17 to 09/30/18	3 Year 10/01/15 to 09/30/18	5 Year 10/01/13 to 09/30/18	10 Year 10/01/08 to 09/30/18	1 Month 10/01/18 to 10/31/18	3 Month 08/01/18 to 10/31/18	YTD 01/01/18 to 10/31/18	1 Year 11/01/17 to 10/31/18	3 Year 11/01/15 to 10/31/18	5 Year 11/01/13 to 10/31/18	10 Year 11/01/08 to 10/31/18	Since Inception to 10/31/18	
U.S. Equities															
CREF EQUITY INDEX ACCOUNT	\$18,480.90	30	17.26%	16.72%	13.10%	11.63%	-7.37%	-3.99%	2.24%	6.34%	10.94%	10.47%	12.95%	9.34%	4/29/1994
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	9.70%	4/24/2015
Fund vs. Russell 3000 Index			-32	-35	-36	-38	-1	-4	-19	-26	-33	-34	-40	-36	
PG: Large Blend M*star OE Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A	
Fund vs. Large Blend M*star OE Category			191	155	117	79	N/A	N/A	N/A	106	121	103	81	N/A	
PG: Fund % Rank in Large Blend M*star Category			36%	29%	35%	31%	N/A	N/A	N/A	44%	33%	36%	32%	N/A	
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A	
Fund Star Rating			N/A	****	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
CREF GROWTH ACCOUNT	\$25,644.40	32	26.36%	19.64%	16.44%	13.91%	-9.71%	-4.49%	5.80%	9.83%	12.51%	13.13%	14.96%	8.76%	4/29/1994
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	9.61%	4/24/2015
Fund vs. Russell 1000 Growth Index			6	-91	-14	-40	-77	-106	-82	-88	-116	-30	-49	-85	
PG: Large Growth M*star OE Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A	
Fund vs. Large Growth M*star OE Category			318	196	242	131	N/A	N/A	N/A	113	126	208	123	N/A	
PG: Fund % Rank in Large Growth M*star Category			28%	28%	16%	26%	N/A	N/A	N/A	38%	31%	19%	27%	N/A	
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
Global Equities															
CREF GLOBAL EQUITIES ACCOUNT ^[9]	\$19,739.40	40	9.40%	12.32%	8.83%	8.40%	-8.65%	-7.73%	-5.73%	-2.22%	6.49%	6.07%	9.89%	7.38%	5/1/1992
BM: MSCI AC World Index			9.77%	13.40%	8.67%	8.19%	-7.49%	-6.36%	-3.96%	-0.52%	7.74%	6.15%	9.75%	N/A	4/24/2015
Fund vs. MSCI AC World Index			-37	-108	16	21	-116	-137	-177	-170	-125	-8	14	N/A	
BM: MSCI World Index			11.24%	13.54%	9.28%	8.56%	-7.34%	-5.67%	-2.31%	1.16%	7.91%	6.81%	10.02%	7.33%	
Fund vs. MSCI World Index			-184	-122	-45	-16	-131	-206	-342	-338	-142	-74	-13	5	
PG: World Large Stock M*star OE Category			8.87%	12.44%	8.24%	8.25%	N/A	N/A	N/A	-1.14%	6.98%	5.76%	9.65%	N/A	
Fund vs. World Large Stock M*star OE Category			53	-12	59	15	N/A	N/A	N/A	-108	-49	31	24	N/A	
PG: Fund % Rank in World Large Stock M*star Category			46%	51%	43%	46%	N/A	N/A	N/A	63%	62%	48%	44%	N/A	
PG: # of funds in World Large Stock M*star Category			895	739	611	348	N/A	N/A	N/A	887	735	614	362	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
CREF STOCK ACCOUNT ^[6,8]	\$113,967.80	37	11.74%	14.28%	10.28%	9.67%	-8.15%	-6.53%	-2.90%	0.48%	8.51%	7.57%	11.05%	9.74%	7/31/1952
BM: CREF Composite Benchmark ^[1]			12.68%	15.02%	10.73%	10.00%	-7.66%	-5.76%	-1.85%	1.92%	9.27%	8.11%	11.40%	N/A	4/24/2015
Fund vs. CREF Composite Benchmark			-94	-74	-45	-33	-49	-77	-105	-144	-76	-54	-35	N/A	
BM: Morningstar Aggressive Target Risk TR USD			10.40%	13.86%	9.26%	9.34%	-7.19%	-6.07%	-3.11%	0.53%	8.66%	6.88%	10.78%	N/A	
Fund vs. Morningstar Aggressive Target Risk TR USD			134	42	102	33	-96	-46	21	-5	-15	69	27	N/A	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	N/A	
Fund vs. Russell 3000 Index			-584	-279	-318	-234	-79	-258	-533	-612	-276	-324	-230	N/A	
PG: Allocation--85%+ Equity M*star OE Category			10.08%	12.40%	8.72%	9.01%	N/A	N/A	N/A	0.21%	7.18%	6.25%	10.33%	N/A	
Fund vs. Allocation--85%+ Equity M*star OE Category			166	188	156	66	N/A	N/A	N/A	27	133	132	72	N/A	
PG: Fund % Rank in Allocation--85%+ Equity M*star OE Category			24%	7%	12%	12%	N/A	N/A	N/A	43%	11%	12%	10%	N/A	
PG: # of funds in Allocation--85%+ Equity M*star OE Category			196	176	151	108	N/A	N/A	N/A	195	174	149	108	N/A	
Fund Star Rating			N/A	*****	*****	*****	N/A	N/A	N/A	N/A	*****	*****	*****	N/A	
Fixed Income															
CREF BOND MARKET ACCOUNT	\$13,048.20	37	-1.09%	1.72%	2.38%	3.78%	-0.73%	-0.77%	-2.27%	-1.94%	1.40%	2.02%	3.98%	5.62%	3/1/1990
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	5.84%	4/24/2015
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			13	41	22	1	6	2	11	11	36	19	4	-22	
PG: Intermediate-Term Bond M*star OE Category			-1.06%	1.65%	2.14%	4.21%	N/A	N/A	N/A	-1.87%	1.30%	1.79%	4.55%	N/A	
Fund vs. Intermediate-Term Bond M*star OE Category			-3	7	24	-43	N/A	N/A	N/A	-7	10	23	-57	N/A	
PG: Fund % Rank in Intermediate-Term Bond M*star OE Category			45%	42%	34%	70%	N/A	N/A	N/A	48%	43%	33%	70%	N/A	
PG: # of funds in Intermediate-Term Bond M*star OE Category			1039	902	796	577	N/A	N/A	N/A	1027	887	785	568	N/A	
Fund Star Rating			N/A	***	***	**	N/A	N/A	N/A	N/A	***	***	**	N/A	
CREF INFLATION-LINKED BOND ACCOUNT	\$6,341.50	31	0.17%	1.50%	0.96%	2.85%	-0.82%	-0.86%	-1.21%	-0.83%	1.13%	0.70%	3.68%	4.72%	5/1/1997
BM: Bloomberg Barclays US TIPS 1-10 Year Index			0.33%	1.65%	0.94%	2.52%	-0.78%	-0.80%	-0.98%	-0.61%	1.38%	0.69%	3.29%	N/A	4/24/2015
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-16	-15	2	33	-4	-6	-23	-22	-25	1	39	N/A	
PG: Inflation-Protected Bond M*star OE Category			0.42%	1.95%	0.97%	2.89%	N/A	N/A	N/A	-1.23%	1.30%	0.58%	3.61%	N/A	
Fund vs. Inflation-Protected Bond M*star OE Category			-25	-45	-1	-4	N/A	N/A	N/A	40	-17	12	7	N/A	
PG: Fund % Rank in Inflation-Protected Bond M*star OE Category			69%	68%	43%	60%	N/A	N/A	N/A	32%	61%	38%	48%	N/A	
PG: # of funds in Inflation-Protected Bond M*star OE Category			236	207	174	107	N/A	N/A	N/A	235	206	173	107	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
Multi-Asset															
CREF SOCIAL CHOICE ACCOUNT ^[3]	\$13,385.80	33	6.87%	9.23%	7.06%	7.68%	-4.88%	-3.66%	-1.72%	0.48%	5.85%	5.44%	8.54%	8.08%	3/1/1990
BM: CREF Social Choice Account Composite Benchmark			7.17%	9.31%	7.51%	7.97%	-4.84%	-3.56%	-1.52%	0.79%	5.89%	5.88%	8.82%	8.20%	4/24/2015
Fund vs. CREF Social Choice Account Composite Benchmark			-30	-8	-45	-29	-4	-10	-20	-31	-4	-44	-28	-12	
BM: Morningstar Moderate Target Risk TR USD			6.02%	9.19%	6.51%	7.41%	-4.71%	-3.98%	-2.61%	-0.22%	5.99%	4.96%	8.28%	N/A	
Fund vs. Morningstar Moderate Target Risk TR USD			85	4	55	27	-17	32	89	70	-14	48	26	N/A	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	9.99%	
Fund vs. Russell 3000 Index			-1071	-784	-640	-433	248	29	-415	-612	-542	-537	-481	-191	
PG: Allocation--50% to 70% Equity M*star OE Category			6.75%	8.80%	6.67%	7.58%	N/A	N/A	N/A	0.34%	5.42%	5.03%	8.56%	N/A	
Fund vs. Allocation--50% to 70% Equity M*star OE Category			12	43	39	10	N/A	N/A	N/A	14	43	41	-2	N/A	
PG: Fund % Rank in Allocation--50% to 70% Equity M*star OE Category			40%	40%	42%	45%	N/A	N/A	N/A	38%	37%	39%	47%	N/A	
PG: # of funds in Allocation--50% to 70% Equity M*star OE Category			771	703	619	450	N/A	N/A	N/A	773	702	620	450	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	

INVESTMENT PERFORMANCE SUMMARY
CREF VARIABLE ANNUITIES - R2

FOR PERIOD ENDING October 31, 2018
 PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

ACCOUNT	Total Portfolio Net Assets (in \$Mil.) 10/31/18	Exp. Ratio (bps)	Previous Quarter-End Returns				Current Month-End Returns										
			Avg. Annual Returns				Avg. Annual Returns										
			1 Year 10/01/17 to 09/30/18	3 Year 10/01/15 to 09/30/18	5 Year 10/01/13 to 09/30/18	10 Year 10/01/08 to 09/30/18	1 Month 10/01/18 to 10/31/18	3 Month 08/01/18 to 10/31/18	YTD 01/01/18 to 10/31/18	1 Year 11/01/17 to 10/31/18	3 Year 11/01/15 to 10/31/18	5 Year 11/01/13 to 10/31/18	10 Year 11/01/08 to 10/31/18	Since Inception 10/31/18 to Inc. Date			
Money Market																	
CREF MONEY MARKET ACCOUNT ^[2,4,7]	\$9,607.70	30	0.97%	0.44%	0.26%	0.20%	0.16%	0.38%	0.97%	1.08%	0.49%	0.29%	0.19%	3.16%	4/1/1988		
PG: iMoneynet Money Fund AveragesTM-All Government			1.13%	0.50%	0.30%	0.18%	0.15%	0.41%	1.10%	1.22%	0.55%	0.33%	0.19%	2.88%	4/24/2015		
Fund vs. iMoneynet Money Fund AveragesTM-All Government			-16	-6	-4	2	1	-3	-13	-14	-6	-4	0	28			
7-Day Effective Yield as of 10/31/2018: 1.93%																	
7-Day Current Yield as of 10/31/2018: 1.93%																	
CREF ACCOUNTS TOTALS	\$220,215.70																

BM = Benchmark; PG = Peer Group; % Rank within Morningstar Category: 1 = Best 100 = Worst; Morningstar Category Returns are equal-weighted.

The Morningstar category averages, percentile ranks and star ratings are sourced from the Morningstar Essentials files prepared for TIAA as well as from Morningstar Direct.

Morningstar, Inc. rates and ranks U.S. variable annuities' underlying funds within their open-end mutual funds universe and includes the effect of fees and expenses charged by U.S. variable annuities in their comparisons. The data points that provide the number of investments in each category for the 3, 5, and 10 year time periods reflect the number of funds in each respective Morningstar open-end fund category.

Where a product lists two inception dates, the top date reflects the inception date of the product's oldest share class, and the bottom date represents the date of inception for the Share Class being reported. The performance shown for Class R2 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 R2. If these lower expenses had been reflected, the performance of Class R2 for these periods would have been higher.

[1] Current Weightings: 70.00% Russell 3000® Index, 30.00% MSCI ACWI ex US Investable Market Index.

[2] The Peer Group since inception performance shown is computed from May 1988.

[3] As of July 1, 2002, the domestic equity component of the Social Choice Account uses the Russell 3000® Index as its benchmark. Prior to July 1, 2002, it used the S&P 500® Index. Consequently, the domestic equity component of the benchmark data involving time periods prior to July 1, 2002, are a combination of the Russell 3000® and the S&P 500®, reflecting the proportional weights of the two equity benchmarks during the periods involved. As of April 1, 2008, the MSCI EAFE®+Canada Index was added to the Social Choice Account's composite benchmark to reflect the change in the equity component of the account to include foreign developed-market stocks. The current weightings are 42% Russell 3000® Index, 40% Bloomberg Barclays U.S. Aggregate Bond Index, 18% MSCI EAFE + Canada Index.

As provided for in the annuity contracts or certificates, restrictions may apply to certain plan sponsor and / or participant initiated transactions. Please refer to these documents for details.

[4] Beginning July 16, 2009, part or all of the 12b-1 distribution expenses and/or administrative expenses attributable to the CREF Money Market Account are being voluntarily waived. Without these waivers, the 7-day current and effective annualized yields and total returns would have been lower. These waivers may be discontinued at any time without notice. Amounts waived on or after October 1, 2010 are subject to possible recovery by TIAA under certain conditions. Please see the prospectus for additional information.

[5] Effective May 1, 2018 the Fund's benchmark index changed from MSCI World Index to MSCI AC World Index.

[6] If a fund is displayed with a "composite index", an appropriate broad market index is also included for reference.

[7] Effective October 1, 2016, the iMoneyNet Money Fund Averages-All Taxable peer group was changed to the iMoneyNet Money Fund Averages-All Government.

[8] Previously, the Fund compared its performance to the Russell 3000 Index instead of the Morningstar Aggressive Target Risk Index as shown. 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.

INVESTMENT PERFORMANCE SUMMARY
CREF VARIABLE ANNUITIES - R1

FOR PERIOD ENDING October 31, 2018
 PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

ACCOUNT	Total Portfolio Net Assets (in \$MM.) 10/31/18	Exp. Ratio (bps)	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Returns				Avg. Annual Returns									
			1 Year 10/01/17 to 09/30/18	3 Year 10/01/15 to 09/30/18	5 Year 10/01/13 to 09/30/18	10 Year 10/01/08 to 09/30/18	1 Month 10/01/18 to 10/31/18	3 Month 08/01/18 to 10/31/18	YTD 01/01/18 to 10/31/18	1 Year 11/01/17 to 10/31/18	3 Year 11/01/15 to 10/31/18	5 Year 11/01/13 to 10/31/18	10 Year 11/01/08 to 10/31/18	Since Inception 10/31/18 to Inc. Date		
U.S. Equities																
CREF EQUITY INDEX ACCOUNT	\$18,480.9	51	17.03%	16.42%	12.90%	11.53%	-7.38%	-4.04%	2.08%	6.14%	10.66%	10.27%	12.85%	9.30%	4/29/1994	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	9.70%		
Fund vs. Russell 3000 Index			-55	-65	-56	-48	-2	-9	-35	-46	-61	-54	-50	-40		
PG: Large Blend M*star OE Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A		
Fund vs. Large Blend M*star OE Category			168	125	97	69	N/A	N/A	N/A	86	93	83	71	N/A		
PG: Fund % Rank in Large Blend M*star Category			40%	35%	38%	35%	N/A	N/A	N/A	47%	40%	40%	35%	N/A		
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
CREF GROWTH ACCOUNT	\$25,644.4	53	26.12%	19.33%	16.24%	13.81%	-9.72%	-4.53%	5.63%	9.62%	12.23%	12.93%	14.86%	8.72%	4/29/1994	
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	9.61%		
Fund vs. Russell 1000 Growth Index			-18	-122	-34	-50	-78	-110	-99	-109	-144	-50	-59	-89		
PG: Large Growth M*star OE Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A		
Fund vs. Large Growth M*star OE Category			294	165	222	121	N/A	N/A	N/A	92	98	188	113	N/A		
PG: Fund % Rank in Large Growth M*star Category			30%	31%	20%	28%	N/A	N/A	N/A	40%	36%	23%	29%	N/A		
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	***	****	****	N/A		
Global Equities																
CREF GLOBAL EQUITIES ACCOUNT ^[9]	\$19,739.4	61	9.19%	12.03%	8.64%	8.30%	-8.67%	-7.77%	-5.87%	-2.41%	6.22%	5.88%	9.79%	7.35%	5/1/1992	
BM: MSCI AC World Index			9.77%	13.40%	8.67%	8.19%	-7.49%	-6.36%	-3.96%	-0.52%	7.74%	6.15%	9.75%	N/A		
Fund vs. MSCI AC World Index			-58	-137	-3	11	-118	-141	-191	-189	-152	-27	4	N/A		
BM: MSCI World Index			11.24%	13.54%	9.28%	8.56%	-7.34%	-5.67%	-2.31%	1.16%	7.91%	6.81%	10.02%	7.33%		
Fund vs. MSCI World Index			-205	-151	-64	-26	-133	-210	-356	-357	-169	-93	-23	2		
PG: World Large Stock M*star OE Category			8.87%	12.44%	8.24%	8.25%	N/A	N/A	N/A	-1.14%	6.98%	5.76%	9.65%	N/A		
Fund vs. World Large Stock M*star OE Category			32	-41	40	5	N/A	N/A	N/A	-127	-76	12	14	N/A		
PG: Fund % Rank in World Large Stock M*star Category			48%	54%	46%	48%	N/A	N/A	N/A	66%	67%	51%	46%	N/A		
PG: # of funds in World Large Stock M*star Category			895	739	611	348	N/A	N/A	N/A	887	735	614	362	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	**	***	***	N/A		
CREF STOCK ACCOUNT ^[6,8]	\$113,967.8	58	11.52%	13.99%	10.09%	9.57%	-8.16%	-6.57%	-3.05%	0.29%	8.23%	7.38%	10.95%	9.73%	7/31/1952	
BM: CREF Composite Benchmark ^[1]			12.68%	15.02%	10.73%	10.00%	-7.66%	-5.76%	-1.85%	1.92%	9.27%	8.11%	11.40%	N/A		
Fund vs. CREF Composite Benchmark			-116	-103	-64	-43	-50	-81	-120	-163	-104	-73	-45	N/A		
BM: Morningstar Aggressive Target Risk TR USD			10.40%	13.86%	9.26%	9.34%	-7.19%	-6.07%	-3.11%	0.53%	8.66%	6.88%	10.78%	N/A		
Fund vs. Morningstar Aggressive Target Risk TR USD			112	13	83	23	-97	-50	6	-24	-43	50	17	N/A		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	N/A		
Fund vs. Russell 3000 Index			-606	-308	-337	-244	-80	-262	-548	-631	-304	-343	-240	N/A		
PG: Allocation--85%+ Equity M*star OE Category			10.08%	12.40%	8.72%	9.01%	N/A	N/A	N/A	0.21%	7.18%	6.25%	10.33%	N/A		
Fund vs. Allocation--85%+ Equity M*star OE Category			144	159	137	56	N/A	N/A	N/A	8	105	113	62	N/A		
PG: Fund % Rank in Allocation--85%+ Equity M*star Category			27%	13%	16%	13%	N/A	N/A	N/A	45%	18%	16%	11%	N/A		
PG: # of funds in Allocation--85%+ Equity M*star Category			196	176	151	108	N/A	N/A	N/A	195	174	149	108	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
Fixed Income																
CREF BOND MARKET ACCOUNT	\$13,048.2	58	-1.28%	1.46%	2.20%	3.69%	-0.75%	-0.82%	-2.43%	-2.12%	1.14%	1.84%	3.89%	5.58%	3/1/1990	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	5.84%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-6	15	4	-8	4	-3	-5	-7	10	1	-5	-26		
PG: Intermediate-Term Bond M*star OE Category			-1.06%	1.65%	2.14%	4.21%	N/A	N/A	N/A	-1.87%	1.30%	1.79%	4.55%	N/A		
Fund vs. Intermediate-Term Bond M*star OE Category			-22	-19	6	-52	N/A	N/A	N/A	-25	-16	5	-66	N/A		
PG: Fund % Rank in Intermediate-Term Bond M*star Category			56%	53%	45%	72%	N/A	N/A	N/A	59%	53%	45%	74%	N/A		
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796	577	N/A	N/A	N/A	1027	887	785	568	N/A		
Fund Star Rating			N/A	***	***	**	N/A	N/A	N/A	N/A	***	***	**	N/A		
CREF INFLATION-LINKED BOND ACCOUNT	\$6,341.5	52	-0.02%	1.24%	0.78%	2.76%	-0.84%	-0.91%	-1.36%	-1.01%	0.88%	0.52%	3.59%	4.67%	5/1/1997	
BM: Bloomberg Barclays US TIPS 1-10 Year Index			0.33%	1.65%	0.94%	2.52%	-0.78%	-0.80%	-0.98%	-0.61%	1.38%	0.69%	3.29%	N/A		
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-35	-41	-16	24	-6	-11	-38	-40	-50	-17	30	N/A		
PG: Inflation-Protected Bond M*star OE Category			0.42%	1.95%	0.97%	2.89%	N/A	N/A	N/A	-1.23%	1.30%	0.58%	3.61%	N/A		
Fund vs. Inflation-Protected Bond M*star OE Category			-44	-71	-19	-13	N/A	N/A	N/A	22	-42	-6	-2	N/A		
PG: Fund % Rank in Inflation-Protected Bond M*star Category			81%	81%	58%	65%	N/A	N/A	N/A	35%	80%	52%	59%	N/A		
PG: # of funds in Inflation-Protected Bond M*star Category			236	207	174	107	N/A	N/A	N/A	235	206	173	107	N/A		
Fund Star Rating			N/A	**	***	***	N/A	N/A	N/A	N/A	**	***	***	N/A		
Multi-Asset																
CREF SOCIAL CHOICE ACCOUNT ^[3]	\$13,385.8	54	6.66%	8.96%	6.87%	7.59%	-4.90%	-3.71%	-1.87%	0.29%	5.59%	5.25%	8.44%	8.05%	3/1/1990	
BM: CREF Social Choice Account Composite Benchmark			7.17%	9.31%	7.51%	7.97%	-4.84%	-3.56%	-1.52%	0.79%	5.89%	5.88%	8.82%	8.20%		
Fund vs. CREF Social Choice Account Composite Benchmark			-51	-35	-64	-38	-6	-15	-35	-50	-30	-63	-38	-15		
BM: Morningstar Moderate Target Risk TR USD			6.02%	9.19%	6.51%	7.41%	-4.71%	-3.98%	-2.61%	-0.22%	5.99%	4.96%	8.28%	N/A		
Fund vs. Morningstar Moderate Target Risk TR USD			64	-23	36	18	-19	27	74	51	-40	29	16	N/A		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	9.99%		
Fund vs. Russell 3000 Index			-1092	-811	-659	-442	246	24	-430	-631	-568	-556	-491	-194		
PG: Allocation--50% to 70% Equity M*star OE Category			6.75%	8.80%	6.67%	7.58%	N/A	N/A	N/A	0.34%	5.42%	5.03%	8.56%	N/A		
Fund vs. Allocation--50% to 70% Equity M*star OE Category			-9	16	20	1	N/A	N/A	N/A	-5	17	22	-12	N/A		
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			46%	49%	48%	48%	N/A	N/A	N/A	40%	48%	45%	51%	N/A		
PG: # of funds in Allocation--50% to 70% Equity M*star Category			771	703	619	450	N/A	N/A	N/A	773	702	620	450	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		

INVESTMENT PERFORMANCE SUMMARY
CREF VARIABLE ANNUITIES - R1

FOR PERIOD ENDING October 31, 2018
 PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

ACCOUNT	Total Portfolio Net Assets (in \$Mil.)	Exp. Ratio (bps)	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Returns				Avg. Annual Returns									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception		
10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	10/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	10/31/18	Date				
Money Market																
CREF MONEY MARKET ACCOUNT ^[2,4,7]	\$9,607.7	51	0.82%	0.32%	0.19%	0.17%	0.10%	0.30%	0.81%	0.89%	0.35%	0.21%	0.15%	3.15%	4/1/1988	
PG: iMoneynet Money Fund Averages TM -All Government			1.13%	0.50%	0.30%	0.18%	0.15%	0.41%	1.10%	1.22%	0.55%	0.33%	0.19%	2.88%		
Fund vs. iMoneynet Money Fund Averages TM -All Government			-31	-18	-11	-1	-5	-11	-29	-33	-20	-12	-4	27		
7-Day Effective Yield as of 10/31/2018: 1.29%																
7-Day Current Yield as of 10/31/2018: 1.29%																
CREF ACCOUNTS TOTALS	\$220,215.7															

BM = Benchmark; PG = Peer Group; % Rank within Morningstar Category: 1 = Best 100 = Worst; Morningstar Category Returns are equal-weighted.

The Morningstar category averages, percentile ranks and star ratings are sourced from the Morningstar Essentials files prepared for TIAA as well as from Morningstar Direct.

Morningstar, Inc. rates and ranks U.S. variable annuities' underlying funds within their open-end mutual funds universe and includes the effect of fees and expenses charged by U.S. variable annuities in their comparisons. The data points that provide the number of investments in each category for the 3, 5, and 10 year time periods reflect the number of funds in each respective Morningstar open-end fund category.

[1] Current Weightings: 70.00% Russell 3000® Index, 30.00% MSCI ACWI ex US Investable Market Index.

[2] The Peer Group since inception performance shown is computed from May 1988.

[3] As of July 1, 2002, the domestic equity component of the Social Choice Account uses the Russell 3000® Index as its benchmark. Prior to July 1, 2002, it used the S&P 500® Index. Consequently, the domestic equity component of the benchmark data involving time periods prior to July 1, 2002, are a combination of the Russell 3000® and the S&P 500®, reflecting the proportional weights of the two equity benchmarks during the periods involved. As of April 1, 2008, the MSCI EAFE®+Canada Index was added to the Social Choice Account's composite benchmark to reflect the change in the equity component of the account to include foreign developed-market stocks. The current weightings are 42% Russell 3000® Index, 40% Bloomberg Barclays U.S. Aggregate Bond Index, 18% MSCI EAFE + Canada Index.

As provided for in the annuity contracts or certificates, restrictions may apply to certain plan sponsor and / or participant initiated transactions. Please refer to these documents for details.

[4] Beginning July 16, 2009, part or all of the 12b-1 distribution expenses and/or administrative expenses attributable to the CREF Money Market Account are being voluntarily waived. Without these waivers, the 7-day current and effective annualized yields and total returns would have been lower. These waivers may be discontinued at any time without notice. Amounts waived on or after October 1, 2010 are subject to possible recovery by TIAA under certain conditions. Please see the prospectus for additional information.

[5] Effective May 1, 2018 the Fund's benchmark index changed from MSCI World Index to MSCI AC World Index.

[6] If a fund is displayed with a "composite index", an appropriate broad market index is also included for reference.

[7] Effective October 1, 2016, the iMoneyNet Money Fund Averages-All Taxable peer group was changed to the iMoneyNet Money Fund Averages-All Government.

[8] Previously, the Fund compared its performance to the Russell 3000 Index instead of the Morningstar Aggressive Target Risk Index as shown. 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.

INVESTMENT PERFORMANCE SUMMARY
TIAA ANNUITY ACCOUNTS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

ACCOUNT	Total Portfolio Net Assets (in \$Mil.)	Exp. Ratio (bps)	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.	
10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	10/31/18 to 10/31/18	Date				
TIAA TRADITIONAL ANNUITY-GROUP RETIREMENT ANNUITY ^(1,2,3)	\$254,628.86		3.83%	3.92%	3.96%	4.08%	0.32%	0.97%	3.21%	3.84%	3.92%	3.96%	4.06%	N/A	1918	
TIAA TRADITIONAL ANNUITY-GROUP SUPPLEMENTAL RETIREMENT ANNUITY ^(1,2,3)			3.14%	3.24%	3.28%	3.36%	0.26%	0.79%	2.62%	3.15%	3.23%	3.27%	3.35%	N/A	10/1/1973	
TIAA TRADITIONAL ANNUITY-IRA (ISSUED ON OR AFTER 10/11/2010) ^(1,2,3)			1.50%	1.23%	1.14%	N/A	0.14%	0.42%	1.32%	1.53%	1.25%	1.15%	N/A	1.12%	10/11/2010	
TIAA TRADITIONAL ANNUITY-IRA (ISSUED PRIOR TO 10/11/2010) ^(1,2,3,4)			3.00%	3.00%	3.00%	3.14%	0.25%	0.75%	2.49%	3.00%	3.00%	3.00%	3.13%	N/A	5/1/1997	
TIAA TRADITIONAL ANNUITY-KEOGH ^(1,2,3)			3.00%	3.00%	3.00%	3.14%	0.25%	0.75%	2.49%	3.00%	3.00%	3.00%	3.13%	N/A	4/1/1988	
TIAA TRADITIONAL ANNUITY-RETIREMENT ANNUITY ^(1,2,3)			3.83%	3.92%	3.96%	4.08%	0.32%	0.97%	3.21%	3.84%	3.92%	3.96%	4.06%	N/A	1918	
TIAA TRADITIONAL ANNUITY-RETIREMENT CHOICE ^(1,2,3)			4.09%	4.21%	4.27%	4.31%	0.35%	1.03%	3.42%	4.10%	4.20%	4.27%	4.30%	4.47%	8/1/2005	
TIAA TRADITIONAL ANNUITY-RETIREMENT CHOICE PLUS ^(1,2,3)			3.33%	3.45%	3.50%	3.52%	0.28%	0.84%	2.80%	3.35%	3.44%	3.49%	3.51%	3.71%	6/1/2006	
TIAA TRADITIONAL ANNUITY-SUPPLEMENTAL RETIREMENT ANNUITY ^(1,2,3)			3.14%	3.24%	3.28%	3.36%	0.26%	0.79%	2.62%	3.15%	3.23%	3.27%	3.35%	N/A	10/1/1973	
TIAA REAL ESTATE ACCOUNT (QREARX)	\$25,657.30	79	5.14%	5.02%	7.05%	2.99%	0.16%	0.96%	3.97%	4.88%	4.75%	6.95%	3.25%	6.29%	10/2/1995	
TIAA ANNUITY TOTALS	\$280,286.16															

As provided for in the annuity contracts or certificates, restrictions may apply to certain plan sponsor and / or participant initiated transactions. Please refer to these documents for details.

[1] The Net Assets figures shown for the TIAA Traditional Annuity Accounts reflect the total Invested Assets that are attributable to the TIAA Traditional line of business within the TIAA General Account as of September 30, 2018. Please note that the assets of the entire General Account are available to meet the claims of the TIAA Traditional Annuity contract holders.

[2] The TIAA Traditional Account under the Retirement Annuity (RA), Group Retirement Annuity (GRA), Group Annuity (GA), Retirement Choice (RC), Supplemental Retirement Annuity (SRA), Group Supplemental Retirement Annuity (GSRA) and Retirement Choice Plus (RCP), Group Supplemental Annuity (GSA) and Special Service Retirement Annuity (SSRA) contracts are issued by Teachers Insurance and Annuity Association (TIAA), New York, NY 10017. Amounts contributed are deposited in TIAA's general account. These guaranteed accounts and contracts are not considered to be "investments" under the Federal Securities laws. Each premium allocated to these accounts and contracts buys a definite amount of lifetime income for participants based on the rate schedule in effect at the time the premium is paid. In addition, these accounts and contracts provide a guarantee of principal, a guaranteed minimum rate of interest and the potential for additional amounts of interest when declared by TIAA's Board of Trustees. Additional interest, when declared, remains in effect for the "declaration year" that begins each March 1. Additional interest is not guaranteed for future years. Interest crediting rates are net of administrative expenses, investment expenses and risk capital charges. Payment obligations and the fulfillment of the returns provided for in these annuity accounts and contracts are subject to TIAA's claims-paying ability. Past interest rates are not indicative of future interest rates. These products are not mutual funds or bank products. The obligations of TIAA are not insured by the FDIC or any other federal governmental agency.

[3] The returns shown for the TIAA Traditional Products are based on a single investment at the beginning of each period. The Crediting Rates as of October 01, 2018 are as follows: TIAA Traditional Annuity - RC (4.25%); TIAA Traditional Annuity - RA, GRA and GA (4.00%); TIAA Traditional Annuity - SRA, GSRA, GSA and SSRA (3.25%); TIAA Traditional Annuity - RCP (3.50%). Funds applied to the TIAA Traditional Annuity during October 2018 will be credited with the indicated rates through February 28, 2019. Funds transferred to TIAA Traditional Annuity during October 2018 will begin earning interest at the beginning of the next calendar day following the effective date of the transfer, and will be credited with the indicated rates through February 28, 2019.

[4] Contributions and accumulation transfers can no longer be applied to IRA contracts issued prior to 10/10/2010.

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
INSTITUTIONAL SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mil.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns					Avg. Annual Returns			
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	11/01/08 to 10/31/18	Date
U.S. Equities															
TIAA-CREF EQUITY INDEX FUND (TIEIX)	\$17,528.40	5	17.49%	17.03%	13.42%	11.98%	-7.37%	-3.96%	2.39%	6.52%	11.25%	10.79%	13.31%	5.91%	7/1/1999
Gross Expense Ratio		5													
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	5.98%	
Fund vs. Russell 3000 Index			-9	-4	-4	-3	-1	-1	-4	-8	-2	-2	-4	-7	
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A	
Fund vs. Large Blend M*star Category			214	186	149	114	N/A	N/A	N/A	124	152	135	117	N/A	
PG: Fund % Rank in Large Blend M*star Category			32%	19%	24%	17%	N/A	N/A	N/A	41%	22%	25%	17%	N/A	
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF GROWTH & INCOME FUND (TIGRX)	\$6,500.80	41	20.02%	17.37%	14.03%	12.43%	-9.35%	-5.38%	1.87%	5.61%	10.70%	10.83%	13.28%	6.20%	7/1/1999
Gross Expense Ratio		41													
BM: S&P 500 Index			17.91%	17.31%	13.95%	11.97%	-6.84%	-3.25%	3.01%	7.35%	11.52%	11.34%	13.24%	5.55%	
Fund vs. S&P 500 Index			211	6	8	46	-251	-213	-114	-174	46	-51	4	65	
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A	
Fund vs. Large Growth M*star Category			-316	-31	1	-17	N/A	N/A	N/A	-309	-55	-22	-45	N/A	
PG: Fund % Rank in Large Growth M*star Category			69%	57%	55%	54%	N/A	N/A	N/A	81%	62%	59%	59%	N/A	
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF LARGE-CAP GROWTH FUND (TILGX)	\$5,111.30	43	28.31%	20.31%	16.94%	14.22%	-9.89%	-4.46%	7.96%	11.30%	13.02%	13.65%	15.30%	9.82%	3/31/2006
Gross Expense Ratio		43													
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	9.87%	
Fund vs. Russell 1000 Growth Index			201	-24	36	-9	-95	-103	134	59	-65	22	-15	-5	
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A	
Fund vs. Large Growth M*star Category			513	263	292	162	N/A	N/A	N/A	260	177	260	157	N/A	
PG: Fund % Rank in Large Growth M*star Category			19%	20%	11%	21%	N/A	N/A	N/A	23%	23%	11%	22%	N/A	
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LARGE-CAP GROWTH INDEX FUND (TILIX)	\$6,121.60	6	26.19%	20.48%	16.50%	14.24%	-8.92%	-3.43%	6.59%	10.67%	13.62%	13.36%	15.38%	10.49%	10/1/2002
Gross Expense Ratio		6													
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	10.59%	
Fund vs. Russell 1000 Growth Index			-11	-7	-8	-7	2	0	-3	-4	-5	-7	-7	-10	
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A	
Fund vs. Large Growth M*star Category			301	280	248	164	N/A	N/A	N/A	197	237	231	165	N/A	
PG: Fund % Rank in Large Growth M*star Category			29%	18%	15%	20%	N/A	N/A	N/A	29%	17%	15%	20%	N/A	
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LARGE-CAP VALUE FUND (TRLIX)	\$6,168.60	40	6.68%	12.97%	9.40%	9.97%	-7.98%	-7.46%	-5.57%	-1.84%	7.02%	6.68%	11.23%	9.05%	10/1/2002
Gross Expense Ratio		40													
BM: Russell 1000 Value Index			9.45%	13.55%	10.72%	9.79%	-5.18%	-3.59%	-1.46%	3.03%	8.88%	8.61%	11.30%	9.14%	
Fund vs. Russell 1000 Value Index			-277	-58	-132	18	-280	-387	-411	-487	-186	-193	-7	-9	
PG: Large Value M*star Category			10.84%	13.45%	10.19%	9.69%	N/A	N/A	N/A	3.34%	8.69%	8.03%	11.13%	N/A	
Fund vs. Large Value M*star Category			-416	-48	-79	28	N/A	N/A	N/A	-518	-167	-135	10	N/A	
PG: Fund % Rank in Large Value M*star Category			90%	62%	75%	42%	N/A	N/A	N/A	95%	83%	85%	47%	N/A	
PG: # of funds in Large Value M*star Category			1274	1109	948	696	N/A	N/A	N/A	1249	1089	932	678	N/A	
Fund Star Rating			N/A	***	**	***	N/A	N/A	N/A	N/A	**	**	***	N/A	
TIAA-CREF LARGE-CAP VALUE INDEX FUND (TILVX)	\$6,354.70	6	9.35%	13.48%	10.64%	9.72%	-5.16%	-3.60%	-1.53%	2.97%	8.82%	8.55%	11.23%	9.05%	10/1/2002
Gross Expense Ratio		6													
BM: Russell 1000 Value Index			9.45%	13.55%	10.72%	9.79%	-5.18%	-3.59%	-1.46%	3.03%	8.88%	8.61%	11.30%	9.14%	
Fund vs. Russell 1000 Value Index			-10	-7	-8	-7	2	-1	-7	-6	-6	-6	-7	-9	
PG: Large Value M*star Category			10.84%	13.45%	10.19%	9.69%	N/A	N/A	N/A	3.34%	8.69%	8.03%	11.13%	N/A	
Fund vs. Large Value M*star Category			-149	3	45	3	N/A	N/A	N/A	-37	13	52	10	N/A	
PG: Fund % Rank in Large Value M*star Category			64%	53%	42%	49%	N/A	N/A	N/A	50%	50%	41%	47%	N/A	
PG: # of funds in Large Value M*star Category			1274	1109	948	696	N/A	N/A	N/A	1249	1089	932	678	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF MID-CAP GROWTH FUND (TRPWX)	\$1,363.90	47	19.08%	14.67%	10.81%	12.34%	-12.31%	-7.89%	-1.07%	2.29%	7.78%	7.50%	13.68%	11.01%	10/1/2002
Gross Expense Ratio		47													
BM: Russell Mid Cap Growth Index			21.10%	16.65%	13.00%	13.46%	-9.90%	-5.11%	2.16%	6.14%	10.39%	10.10%	15.10%	11.71%	
Fund vs. Russell Mid Cap Growth Index			-202	-198	-219	-112	-241	-278	-323	-385	-261	-260	-142	-70	
PG: Mid-Cap Growth M*star Category			20.31%	15.81%	11.68%	11.97%	N/A	N/A	N/A	5.13%	9.74%	8.58%	13.28%	N/A	
Fund vs. Mid-Cap Growth M*star Category			-123	-114	-87	37	N/A	N/A	N/A	-284	-196	-108	40	N/A	
PG: Fund % Rank in Mid-Cap Growth M*star Category			58%	60%	71%	43%	N/A	N/A	N/A	74%	76%	74%	40%	N/A	
PG: # of funds in Mid-Cap Growth M*star Category			601	540	483	342	N/A	N/A	N/A	598	537	487	341	N/A	
Fund Star Rating			N/A	***	**	***	N/A	N/A	N/A	N/A	**	**	***	N/A	
TIAA-CREF MID-CAP VALUE FUND (TIMVX)	\$3,480.50	41	7.75%	11.48%	9.42%	10.27%	-8.34%	-8.00%	-4.90%	-2.12%	6.42%	6.79%	11.91%	11.05%	10/1/2002
Gross Expense Ratio		41													
BM: Russell Mid Cap Value Index			8.81%	13.09%	10.72%	11.29%	-7.20%	-6.68%	-4.30%	0.16%	8.15%	8.11%	13.35%	11.10%	
Fund vs. Russell Mid Cap Value Index			-106	-161	-130	-102	-114	-132	-60	-228	-173	-132	-144	-5	
PG: Mid-Cap Value M*star Category			8.93%	12.59%	9.33%	10.41%	N/A	N/A	N/A	-0.20%	7.44%	6.70%	12.13%	N/A	
Fund vs. Mid-Cap Value M*star Category			-118	-111	9	-14	N/A	N/A	N/A	-192	-102	9	-22	N/A	
PG: Fund % Rank in Mid-Cap Value M*star Category			60%	69%	51%	56%	N/A	N/A	N/A	67%	67%	49%	58%	N/A	
PG: # of funds in Mid-Cap Value M*star Category			422	373	315	228	N/A	N/A	N/A	412	363	306	220	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF QUANT LARGE-CAP GROWTH FUND (TLIX)^[3]	\$2,511.50	33	24.88%	20.33%	16.22%	13.80%	-8.88%	-3.97%	5.24%	9.45%	13.46%	13.03%	14.94%	9.36%	11/30/2007
Gross Expense Ratio		33													
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	9.72%	
Fund vs. Russell 1000 Growth Index			-142	-22	-36	-51	6	-54	-138	-126	-21	-40	-51	-36	
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A	
Fund vs. Large Growth M*star Category			170	265	220	120	N/A	N/A	N/A	75	221	198	121	N/A	
PG: Fund % Rank in Large Growth M*star Category			39%	20%	20%	28%	N/A	N/A	N/A						

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
INSTITUTIONAL SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Returns				Avg. Annual Returns								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	11/01/08 to 10/31/18	
TIAA-CREF QUANT LARGE-CAP VALUE FUND (TEVIX)^[14]	\$2,522.30	33	8.75%	12.31%	9.85%	9.07%	-5.64%	-4.02%	-3.18%	1.36%	7.59%	7.60%	10.49%	5.59%	11/30/2007
Gross Expense Ratio		33													
BM: Russell 1000 Value Index			9.45%	13.55%	10.72%	9.79%	-5.18%	-3.59%	-1.46%	3.03%	8.88%	8.61%	11.30%	6.25%	
Fund vs. Russell 1000 Value Index			-70	-124	-87	-72	-46	-43	-172	-167	-129	-101	-81	-66	
PG: Large Value M*star Category			10.84%	13.45%	10.19%	9.69%	N/A	N/A	N/A	3.34%	8.69%	8.03%	11.13%	N/A	
Fund vs. Large Value M*star Category			-209	-114	-34	-62	N/A	N/A	N/A	-198	-110	-43	-64	N/A	
PG: Fund % Rank in Large Value M*star Category			71%	76%	63%	68%	N/A	N/A	N/A	75%	75%	64%	69%	N/A	
PG: # of funds in Large Value M*star Category			1274	1109	948	696	N/A	N/A	N/A	1249	1089	932	678	N/A	
Fund Star Rating			N/A	**	***	**	N/A	N/A	N/A	N/A	**	***	**	N/A	
TIAA-CREF QUANT SMALL-CAP EQUITY FUND (TISEX)^[15]	\$3,348.90	41	13.62%	16.30%	11.73%	11.66%	-10.02%	-7.85%	-1.73%	0.85%	10.00%	8.72%	12.94%	10.77%	10/1/2002
Gross Expense Ratio		41													
BM: Russell 2000 Index			15.24%	17.12%	11.07%	11.11%	-10.86%	-9.26%	-0.60%	1.85%	10.68%	8.01%	12.44%	10.64%	
Fund vs. Russell 2000 Index			-162	-82	66	55	84	141	-113	-100	-68	71	50	13	
PG: Small Growth M*star Category			24.44%	18.35%	11.75%	12.57%	N/A	N/A	N/A	8.31%	11.98%	8.58%	13.81%	N/A	
Fund vs. Small Growth M*star Category			-1082	-209	-2	-91	N/A	N/A	N/A	-746	-198	14	-87	N/A	
PG: Fund % Rank in Small Growth M*star Category			89%	73%	51%	69%	N/A	N/A	N/A	89%	73%	51%	68%	N/A	
PG: # of funds in Small Growth M*star Category			702	606	532	404	N/A	N/A	N/A	677	591	516	392	N/A	
Fund Star Rating			N/A	**	***	**	N/A	N/A	N/A	N/A	**	***	**	N/A	
TIAA-CREF QUANT SMALL/MID-CAP EQUITY (TSMWX)^[164]	\$643.00	50	21.41%	N/A	N/A	N/A	-9.99%	-6.33%	2.05%	6.02%	N/A	N/A	N/A	13.02%	8/5/2016
Gross Expense Ratio		50													
BM: Russell 2500 Index			16.19%				-10.15%	-7.72%	-0.80%	2.80%				10.12%	
Fund vs. Russell 2500 Index			522				16	139	285	322				290	
PG: Small Blend M*star Category			12.14%				N/A	N/A	N/A	-0.07%				N/A	
Fund vs. Small Blend M*star Category			927				N/A	N/A	N/A	609				N/A	
PG: Fund % Rank in Small Blend M*star Category			3%				N/A	N/A	N/A	6%				N/A	
PG: # of funds in Small Blend M*star Category			778				N/A	N/A	N/A	784				N/A	
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A	
TIAA-CREF REAL ESTATE SECURITIES FUND (TIREX)	\$2,049.80	51	5.89%	8.57%	10.07%	7.84%	-2.69%	-1.86%	-0.74%	2.14%	5.59%	8.63%	11.37%	10.09%	10/1/2002
Gross Expense Ratio		51													
BM: FTSE Nareit All Equity REITs Index			4.31%	8.97%	9.57%	7.77%	-2.65%	-2.75%	-0.91%	1.42%	5.76%	8.06%	11.65%	10.32%	
Fund vs. FTSE Nareit All Equity REITs Index			158	-40	50	7	-4	89	17	72	-17	57	-28	-23	
PG: Real Estate M*star Category			3.39%	7.24%	8.56%	7.13%	N/A	N/A	N/A	0.37%	4.16%	7.03%	10.70%	N/A	
Fund vs. Real Estate M*star Category			250	133	151	71	N/A	N/A	N/A	177	143	160	67	N/A	
PG: Fund % Rank in Real Estate M*star Category			8%	13%	3%	28%	N/A	N/A	N/A	30%	14%	6%	24%	N/A	
PG: # of funds in Real Estate M*star Category			253	222	191	138	N/A	N/A	N/A	252	222	190	138	N/A	
Fund Star Rating			N/A	****	*****	****	N/A	N/A	N/A	N/A	****	*****	****	N/A	
TIAA-CREF S&P 500 INDEX FUND (TISPX)	\$4,775.10	6	17.79%	17.22%	13.87%	11.89%	-6.82%	-3.27%	2.94%	7.26%	11.46%	11.26%	13.16%	9.63%	10/1/2002
Gross Expense Ratio		6													
BM: S&P 500 Index			17.91%	17.31%	13.95%	11.97%	-6.84%	-3.25%	3.01%	7.35%	11.52%	11.34%	13.24%	9.71%	
Fund vs. S&P 500 Index			-12	-9	-8	-8	2	-2	-7	-9	-6	-8	-8	-8	
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A	
Fund vs. Large Blend M*star Category			244	205	194	105	N/A	N/A	N/A	198	173	182	102	N/A	
PG: Fund % Rank in Large Blend M*star Category			23%	13%	11%	22%	N/A	N/A	N/A	23%	13%	11%	23%	N/A	
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A	
Fund Star Rating			N/A	****	*****	****	N/A	N/A	N/A	N/A	****	*****	****	N/A	
TIAA-CREF SMALL-CAP BLEND INDEX FUND (TISBX)	\$2,666.50	6	15.41%	17.35%	11.31%	11.23%	-10.86%	-9.22%	-0.47%	1.99%	10.90%	8.24%	12.57%	10.70%	10/1/2002
Gross Expense Ratio		6													
BM: Russell 2000 Index			15.24%	17.12%	11.07%	11.11%	-10.86%	-9.26%	-0.60%	1.85%	10.68%	8.01%	12.44%	10.64%	
Fund vs. Russell 2000 Index			17	23	24	12	0	4	13	14	22	23	13	6	
PG: Small Blend M*star Category			12.14%	14.73%	9.71%	10.67%	N/A	N/A	N/A	-0.07%	8.86%	6.75%	12.10%	N/A	
Fund vs. Small Blend M*star Category			327	262	160	56	N/A	N/A	N/A	206	204	149	47	N/A	
PG: Fund % Rank in Small Blend M*star Category			22%	15%	20%	37%	N/A	N/A	N/A	31%	18%	23%	38%	N/A	
PG: # of funds in Small Blend M*star Category			778	652	539	388	N/A	N/A	N/A	784	653	542	395	N/A	
Fund Star Rating			N/A	****	****	***	N/A	N/A	N/A	N/A	****	****	***	N/A	
TIAA-CREF SOCIAL CHOICE EQUITY FUND (TISCX)	\$3,620.40	18	16.27%	16.67%	12.30%	11.32%	-7.62%	-4.57%	1.15%	5.17%	10.82%	9.64%	12.65%	5.65%	7/1/1999
Gross Expense Ratio		18													
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	5.98%	
Fund vs. Russell 3000 Index			-131	-40	-116	-69	-26	-62	-128	-143	-45	-117	-70	-33	
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A	
Fund vs. Large Blend M*star Category			92	150	37	48	N/A	N/A	N/A	-11	109	20	51	N/A	
PG: Fund % Rank in Large Blend M*star Category			49%	30%	52%	43%	N/A	N/A	N/A	61%	36%	54%	39%	N/A	
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A	
Fund Star Rating			N/A	****	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF SOCIAL CHOICE LOW CARBON EQUITY FUND (TNWCX)	\$113.10	32	15.61%	16.64%	N/A	N/A	-7.73%	-4.49%	0.95%	4.54%	10.89%	N/A	N/A	9.80%	8/7/2015
Gross Expense Ratio		62													
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%			10.33%	
Fund vs. Russell 3000 Index			-197	-43			-37	-54	-148	-206	-38			-53	
PG: Large Blend M*star Category			15.35%	15.17%			N/A	N/A	N/A	5.28%	9.73%			N/A	
Fund vs. Large Blend M*star Category			26	147			N/A	N/A	N/A	-74	116			N/A	
PG: Fund % Rank in Large Blend M*star Category			55%	31%			N/A	N/A	N/A	69%	35%			N/A	
PG: # of funds in Large Blend M*star Category			1383	1196			N/A	N/A	N/A	1412	1218			N/A	
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	***			N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
INSTITUTIONAL SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Returns				Avg. Annual Returns									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.	
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	10/31/18	Date	
International Equities																
TIAA-CREF EMERGING MARKETS EQUITY FUND (TEMLX)	\$1,411.20	92	-9.61%	10.39%	1.86%	N/A	-6.69%	-14.18%	-20.05%	-18.47%	5.72%	-0.44%	N/A	1.34%	8/31/2010	
Gross Expense Ratio 92																
BM: MS Emerging Market																
Fund vs. MS Emerging Market -0.81% 12.36% 3.61%																
PG: Diversified Emerging Mkts M*star Category -880 -197 -175																
Fund vs. Diversified Emerging Mkts M*star Category -3.63% 10.09% 2.54%																
PG: Fund % Rank in Diversified Emerging Mkts M*star Category -598 30 -68																
PG: # of funds in Diversified Emerging Mkts M*star Category 93% 50% 70%																
Fund Star Rating 838 708 508																
N/A *** **																
TIAA-CREF EMERGING MARKETS EQUITY INDEX FUND (TEQLX)	\$2,403.30	21	-1.59%	11.97%	3.40%	N/A	-8.32%	-11.67%	-15.50%	-12.75%	6.54%	0.74%	N/A	1.92%	8/31/2010	
Gross Expense Ratio 21																
BM: MS Emerging Market																
Fund vs. MS Emerging Market -0.81% 12.36% 3.61%																
PG: Diversified Emerging Mkts M*star Category -78 -39 -21																
Fund vs. Diversified Emerging Mkts M*star Category -3.63% 10.09% 2.54%																
PG: Fund % Rank in Diversified Emerging Mkts M*star Category 204 188 86																
PG: # of funds in Diversified Emerging Mkts M*star Category 31% 28% 35%																
Fund Star Rating 838 708 508																
N/A **** **																
TIAA-CREF INTERNATIONAL EQUITY FUND (TIEIX)	\$4,412.10	49	-3.15%	8.03%	4.02%	5.48%	-8.77%	-13.34%	-15.43%	-13.04%	2.57%	1.21%	7.41%	4.43%	7/1/1999	
Gross Expense Ratio 49																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index 2.74% 9.23% 4.42% 5.38%																
PG: Foreign Large Blend M*star Category -589 -120 -40 10																
Fund vs. Foreign Large Blend M*star Category 1.55% 8.71% 4.05% 4.98%																
PG: Fund % Rank in Foreign Large Blend M*star Category -470 -68 -3 50																
PG: # of funds in Foreign Large Blend M*star Category 96% 72% 52% 32%																
Fund Star Rating 783 655 535 379																
N/A ** ** **																
TIAA-CREF INTERNATIONAL EQUITY INDEX FUND (TCIEIX)	\$11,343.80	6	2.63%	9.18%	4.53%	5.34%	-7.92%	-9.10%	-8.92%	-7.04%	3.93%	2.17%	6.89%	7.34%	10/1/2002	
Gross Expense Ratio 6																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index 2.74% 9.23% 4.42% 5.38%																
PG: Foreign Large Blend M*star Category -11 -5 11 -4																
Fund vs. Foreign Large Blend M*star Category 1.55% 8.71% 4.05% 4.98%																
PG: Fund % Rank in Foreign Large Blend M*star Category 108 47 48 36																
PG: # of funds in Foreign Large Blend M*star Category 31% 40% 34% 35%																
Fund Star Rating 783 655 535 379																
N/A *** ** **																
TIAA-CREF INTERNATIONAL OPPORTUNITIES FUND (TIOIX)	\$1,512.50	63	6.25%	11.45%	6.16%	N/A	-11.32%	-12.10%	-10.32%	-7.07%	5.88%	3.02%	N/A	4.29%	4/12/2013	
Gross Expense Ratio 63																
BM: MSCI AC World Index ex USA																
Fund vs. MSCI AC World Index ex USA 1.76% 9.97% 4.12%																
PG: Foreign Large Growth M*star Category 449 148 204																
Fund vs. Foreign Large Growth M*star Category 4.08% 10.28% 5.74%																
PG: Fund % Rank in Foreign Large Growth M*star Category 217 117 42																
PG: # of funds in Foreign Large Growth M*star Category 25% 28% 28%																
Fund Star Rating 426 347 313																
N/A **** ****																
TIAA-CREF QUANT INTERNATIONAL EQUITY FUND (TFIX)^[17]	\$1,775.60	41	1.13%	8.55%	4.66%	5.51%	-8.33%	-9.90%	-10.56%	-8.96%	3.33%	2.04%	7.07%	0.66%	11/30/2007	
Gross Expense Ratio 41																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index 2.74% 9.23% 4.42% 5.38%																
PG: Foreign Large Blend M*star Category -161 -68 24 13																
Fund vs. Foreign Large Blend M*star Category 1.55% 8.71% 4.05% 4.98%																
PG: Fund % Rank in Foreign Large Blend M*star Category -42 -16 61 53																
PG: # of funds in Foreign Large Blend M*star Category 63% 59% 32% 31%																
Fund Star Rating 783 655 535 379																
N/A *** **** ****																
TIAA-CREF QUANT INTERNATIONAL SMALL-CAP EQUITY FUND (TISX)^[84]	\$884.60	74	-4.19%	N/A	N/A	N/A	-10.11%	-13.02%	-18.44%	-15.62%	N/A	N/A	N/A	4.64%	12/9/2016	
Gross Expense Ratio 74																
BM: MSCI ACWI ex-US Small Cap Index																
Fund vs. MSCI ACWI ex-US Small Cap Index 1.86% 9.23%																
PG: Foreign Small/Mid Value M*star Category -605 -131 -473 -589																
Fund vs. Foreign Small/Mid Value M*star Category -1.55%																
PG: Fund % Rank in Foreign Small/Mid Value M*star Category -264																
PG: # of funds in Foreign Small/Mid Value M*star Category 77%																
Fund Star Rating 63																
N/A N/A N/A N/A																
TIAA-CREF SOCIAL CHOICE INTERNATIONAL EQUITY FUND (TSONX)	\$61.20	40	2.41%	9.38%	N/A	N/A	-8.40%	-8.81%	-9.30%	-7.61%	3.91%	N/A	N/A	2.09%	8/7/2015	
Gross Expense Ratio 120																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index 2.74% 9.23%																
PG: Foreign Large Blend M*star Category -33 15																
Fund vs. Foreign Large Blend M*star Category 1.55% 8.71%																
PG: Fund % Rank in Foreign Large Blend M*star Category 86 67																
PG: # of funds in Foreign Large Blend M*star Category 37% 36%																
Fund Star Rating 783 655																
N/A ***																

INVESTMENT PERFORMANCE SUMMARY
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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Returns				Avg. Annual Returns									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.	
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	11/01/08 to 10/31/18	Date	
Fixed Income																
TIAA-CREF 5-15 YEAR LADDERED TAX-EXEMPT BOND FUND (TITIX) ^[19]	\$256.50	30	-0.03%	1.77%	2.59%	4.03%	-0.66%	-1.02%	-0.79%	-0.78%	1.40%	2.31%	4.08%	3.64%	3/31/2006	
Gross Expense Ratio 33																
BM: Bloomberg Barclays 10-Year Municipal Bond Index																
Fund vs. Bloomberg Barclays 10-Year Municipal Bond Index																
PG: Muni National Interm M*star Category																
Fund vs. Muni National Interm M*star Category																
PG: Fund % Rank in Muni National Interm M*star Category																
PG: # of funds in Muni National Interm M*star Category																
Fund Star Rating																
TIAA-CREF BOND FUND (TIBDX)	\$5,718.20	30	-1.02%	2.18%	2.87%	4.33%	-0.83%	-0.90%	-2.31%	-2.07%	1.76%	2.43%	4.49%	4.85%	7/1/1999	
Gross Expense Ratio 30																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate-Term Bond M*star Category																
Fund vs. Intermediate-Term Bond M*star Category																
PG: Fund % Rank in Intermediate-Term Bond M*star Category																
PG: # of funds in Intermediate-Term Bond M*star Category																
Fund Star Rating																
TIAA-CREF BOND INDEX FUND (TBIIX)	\$10,409.90	12	-1.40%	1.13%	2.04%	N/A	-0.82%	-0.84%	-2.48%	-2.23%	0.85%	1.70%	N/A	2.79%	9/14/2009	
Gross Expense Ratio 12																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate-Term Bond M*star Category																
Fund vs. Intermediate-Term Bond M*star Category																
PG: Fund % Rank in Intermediate-Term Bond M*star Category																
PG: # of funds in Intermediate-Term Bond M*star Category																
Fund Star Rating																
TIAA-CREF BOND PLUS FUND (TIBFX)	\$4,177.60	30	-0.76%	2.50%	3.06%	4.81%	-0.81%	-0.95%	-2.02%	-1.73%	2.03%	2.61%	5.08%	4.27%	3/31/2006	
Gross Expense Ratio 30																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate-Term Bond M*star Category																
Fund vs. Intermediate-Term Bond M*star Category																
PG: Fund % Rank in Intermediate-Term Bond M*star Category																
PG: # of funds in Intermediate-Term Bond M*star Category																
Fund Star Rating																
TIAA-CREF EMERGING MARKETS DEBT FUND (TEDNX)	\$452.70	65	-3.17%	7.59%	N/A	N/A	-2.03%	-3.52%	-6.61%	-5.58%	5.67%	N/A	N/A	3.41%	9/26/2014	
Gross Expense Ratio 65																
BM: J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified																
Fund vs. J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified																
PG: Emerging Markets Bond M*star Category																
Fund vs. Emerging Markets Bond M*star Category																
PG: Fund % Rank in Emerging Markets Bond M*star Category																
PG: # of funds in Emerging Markets Bond M*star Category																
Fund Star Rating																
TIAA-CREF HIGH YIELD BOND FUND (TIHYX)	\$3,864.90	36	3.49%	7.48%	5.28%	8.59%	-1.80%	-0.35%	0.94%	1.21%	5.82%	4.30%	9.82%	6.75%	3/31/2006	
Gross Expense Ratio 36																
BM: ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)																
Fund vs. ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)																
PG: High Yield Bond M*star Category																
Fund vs. High Yield Bond M*star Category																
PG: Fund % Rank in High Yield Bond M*star Category																
PG: # of funds in High Yield Bond M*star Category																
Fund Star Rating																
TIAA-CREF INFLATION-LINKED BOND FUND (TIILX)	\$2,985.90	26	0.23%	1.38%	0.93%	2.90%	-0.81%	-0.85%	-1.17%	-0.76%	1.05%	0.68%	3.73%	3.75%	10/1/2002	
Gross Expense Ratio 26																
BM: Bloomberg Barclays US TIPS 1-10 Year Index																
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index																
PG: Inflation-Protected Bond M*star Category																
Fund vs. Inflation-Protected Bond M*star Category																
PG: Fund % Rank in Inflation-Protected Bond M*star Category																
PG: # of funds in Inflation-Protected Bond M*star Category																
Fund Star Rating																
TIAA-CREF INTERNATIONAL BOND FUND (TIBWX) ^[4]	\$353.90	65	0.89%	N/A	N/A	N/A	-0.31%	-0.92%	-0.82%	0.07%	N/A	N/A	N/A	0.74%	8/5/2016	
Gross Expense Ratio 70																
BM: Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)																
Fund vs. Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)																
PG: World Bond M*star Category																
Fund vs. World Bond M*star Category																
PG: Fund % Rank in World Bond M*star Category																
PG: # of funds in World Bond M*star Category																
Fund Star Rating																
TIAA-CREF SHORT-TERM BOND FUND (TISIX)	\$1,805.10	27	0.78%	1.49%	1.41%	2.58%	0.02%	0.32%	0.72%	0.74%	1.49%	1.33%	2.62%	2.81%	3/31/2006	
Gross Expense Ratio 27																
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index																
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index																
PG: Short-Term Bond M*star Category																
Fund vs. Short-Term Bond M*star Category																
PG: Fund % Rank in Short-Term Bond M*star Category																
PG: # of funds in Short-Term Bond M*star Category																
Fund Star Rating																

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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Returns				Avg. Annual Returns									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.	
10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	10/31/18 to 10/31/18	10/31/18 to 10/31/18	Date			
TIAA-CREF SHORT-TERM BOND INDEX FUND (TNSHX)	\$434.90	12	0.17%	0.56%	N/A	N/A	0.09%	0.34%	0.49%	0.23%	0.60%	N/A	N/A	0.64%	8/7/2015	
Gross Expense Ratio		18														
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			0.20%	0.73%			0.11%	0.39%	0.52%	0.34%	0.77%				0.81%	
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-3	-17			-2	-5	-3	-11	-17				-17	
PG: Short-Term Bond M*star Category			0.43%	1.36%			N/A	N/A	N/A	0.32%	1.29%				N/A	
Fund vs. Short-Term Bond M*star Category			-26	-80			N/A	N/A	N/A	-9	-69				N/A	
PG: Fund % Rank in Short-Term Bond M*star Category			64%	85%			N/A	N/A	N/A	56%	85%				N/A	
PG: # of funds in Short-Term Bond M*star Category			533	474			N/A	N/A	N/A	536	472				N/A	
Fund Star Rating			N/A	**			N/A	N/A	N/A	N/A	**				N/A	
TIAA-CREF SOCIAL CHOICE BOND FUND (TSBIX)	\$2,626.80	39	-0.48%	1.96%	3.31%	N/A	-0.65%	-0.64%	-1.75%	-1.33%	1.70%	2.98%	N/A	2.55%	9/21/2012	
Gross Expense Ratio		39														
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%			1.41%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			74	65	115		14	15	63	72	66	115			114	
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%		N/A	N/A	N/A	-1.87%	1.30%	1.79%			N/A	
Fund vs. Intermediate-Term Bond M*star Category			58	31	117		N/A	N/A	N/A	54	40	119			N/A	
PG: Fund % Rank in Intermediate-Term Bond M*star Category			17%	32%	5%		N/A	N/A	N/A	22%	28%	4%			N/A	
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796		N/A	N/A	N/A	1027	887	785			N/A	
Fund Star Rating			N/A	****	*****		N/A	N/A	N/A	N/A	****	*****			N/A	
Multi-Asset																
TIAA-CREF LIFECYCLE 2010 FUND (TCTIX)^[7,8]	\$1,195.00	37	4.55%	7.55%	6.02%	6.94%	-3.72%	-3.23%	-1.98%	-0.43%	4.97%	4.68%	7.82%	5.55%	10/15/2004	
Gross Expense Ratio		49													1/17/2007	
BM: Lifecycle 2010 Fund Composite Index			4.84%	7.13%	5.74%	6.60%	-3.57%	-2.72%	-1.59%	0.16%	4.63%	4.50%	7.43%	5.47%		
Fund vs. Lifecycle 2010 Fund Composite Index			-29	42	28	34	-15	-51	-39	-59	34	18	39	8		
BM: S&P Target Date 2010 Index			4.36%	6.38%	5.09%	5.84%	-3.35%	-2.67%	-1.62%	0.01%	4.15%	3.97%	6.61%	5.00%		
Fund vs. S&P Target Date 2010 Index			19	117	93	110	-37	-56	-36	-44	82	71	121	55		
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.67%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			577	624	386	317	-293	-244	40	162	393	285	388	188		
PG: Target-Date 2000-2010 M*star Category			3.40%	6.33%	4.87%	5.92%	N/A	N/A	N/A	-0.63%	4.09%	3.78%	6.98%	N/A		
Fund vs. Target-Date 2000-2010 M*star Category			115	122	115	102	N/A	N/A	N/A	20	88	90	84	N/A		
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			8%	2%	1%	5%	N/A	N/A	N/A	32%	2%	3%	15%	N/A		
PG: # of funds in Target-Date 2000-2010 M*star Category			137	113	91	76	N/A	N/A	N/A	137	113	91	76	N/A		
Fund Star Rating			N/A	*****	*****	*****	N/A	N/A	N/A	N/A	*****	*****	*****	*****	N/A	
TIAA-CREF LIFECYCLE 2015 FUND (TCNIX)^[7,8]	\$1,809.50	38	5.21%	8.21%	6.49%	7.30%	-4.20%	-3.64%	-2.10%	-0.37%	5.31%	5.00%	8.30%	5.76%	10/15/2004	
Gross Expense Ratio		50													1/17/2007	
BM: Lifecycle 2015 Fund Composite Index			5.47%	7.82%	6.24%	6.97%	-3.94%	-2.99%	-1.65%	0.28%	5.04%	4.87%	7.92%	5.69%		
Fund vs. Lifecycle 2015 Fund Composite Index			-26	39	25	33	-26	-65	-45	-65	27	13	38	7		
BM: S&P Target Date 2015 Index			5.09%	7.42%	5.85%	6.53%	-3.79%	-3.03%	-1.70%	0.14%	4.78%	4.55%	7.44%	5.49%		
Fund vs. S&P Target Date 2015 Index			12	79	64	77	-41	-61	-40	-51	53	45	86	27		
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.67%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			643	690	433	353	-341	-285	28	168	427	317	436	209		
PG: Target-Date 2015 M*star Category			4.24%	7.04%	5.34%	6.40%	N/A	N/A	N/A	-0.46%	4.48%	4.08%	7.56%	N/A		
Fund vs. Target-Date 2015 M*star Category			97	117	115	90	N/A	N/A	N/A	9	83	92	74	N/A		
PG: Fund % Rank in Target-Date 2015 M*star Category			13%	6%	1%	9%	N/A	N/A	N/A	45%	6%	9%	18%	N/A		
PG: # of funds in Target-Date 2015 M*star Category			139	111	77	49	N/A	N/A	N/A	136	110	77	49	N/A		
Fund Star Rating			N/A	*****	*****	*****	N/A	N/A	N/A	N/A	*****	*****	*****	*****	N/A	
TIAA-CREF LIFECYCLE 2020 FUND (TCWIX)^[7,9]	\$3,635.80	39	5.90%	9.08%	7.10%	7.76%	-4.70%	-4.07%	-2.31%	-0.39%	5.82%	5.43%	8.87%	5.95%	10/15/2004	
Gross Expense Ratio		50													1/17/2007	
BM: Lifecycle 2020 Fund Composite Index			6.30%	8.77%	6.88%	7.44%	-4.37%	-3.32%	-1.68%	0.49%	5.60%	5.35%	8.52%	5.91%		
Fund vs. Lifecycle 2020 Fund Composite Index			-40	31	22	32	-33	-75	-63	-88	22	8	35	4		
BM: S&P Target Date 2020 Index			5.78%	8.36%	6.49%	7.09%	-4.19%	-3.37%	-1.80%	0.25%	5.35%	5.04%	8.14%	5.88%		
Fund vs. S&P Target Date 2020 Index			12	72	61	67	-51	-70	-51	-64	47	39	73	7		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-1168	-799	-636	-425	266	-12	-474	-699	-545	-538	-448	-302		
PG: Target-Date 2020 M*star Category			4.70%	7.51%	5.59%	6.56%	N/A	N/A	N/A	-0.60%	4.69%	4.22%	7.78%	N/A		
Fund vs. Target-Date 2020 M*star Category			120	157	151	120	N/A	N/A	N/A	21	113	121	109	N/A		
PG: Fund % Rank in Target-Date 2020 M*star Category			13%	5%	1%	6%	N/A	N/A	N/A	38%	5%	2%	10%	N/A		
PG: # of funds in Target-Date 2020 M*star Category			253	205	171	107	N/A	N/A	N/A	252	204	171	108	N/A		
Fund Star Rating			N/A	*****	*****	*****	N/A	N/A	N/A	N/A	*****	*****	*****	*****	N/A	
TIAA-CREF LIFECYCLE 2025 FUND (TCYIX)^[7,9]	\$4,259.40	41	7.05%	10.15%	7.78%	8.22%	-5.40%	-4.62%	-2.46%	-0.30%	6.35%	5.88%	9.43%	6.17%	10/15/2004	
Gross Expense Ratio		52													1/17/2007	
BM: Lifecycle 2025 Fund Composite Index			7.36%	9.87%	7.60%	7.95%	-4.94%	-3.74%	-1.73%	0.72%	6.26%	5.88%	9.12%	6.15%		
Fund vs. Lifecycle 2025 Fund Composite Index			-31	28	18	27	-46	-88	-73	-102	9	0	31	2		
BM: S&P Target Date 2025 Index			6.86%	9.45%	7.13%	7.59%	-4.86%	-3.92%	-1.99%	0.38%	5.98%	5.48%	8.72%	6.22%		
Fund vs. S&P Target Date 2025 Index			19	70	65	63	-54	-70	-47	-68	37	40	71	-5		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-1053	-692	-568	-379	196	-67	-489	-690	-492	-493	-392	-280		
PG: Target-Date 2025 M*star Category			5.85%	8.80%	6.39%	7.33%	N/A	N/A	N/A	-0.49%	5.43%	4.79%	8.63%	N/A		
Fund vs. Target-Date 2025 M*star Category			120	135	139	89	N/A	N/A	N/A	19	92	109	80	N/A		
PG: Fund % Rank in Target-Date 2025 M*star Category			11%	6%	2%	15%	N/A	N/A	N/A	41%	5%	3%	13%	N/A		
PG: # of funds in Target-Date 2025 M*star Category			223	180	141	72	N/A	N/A	N/A	223	179	141	72	N/A		
Fund Star Rating			N/A	*****	*****	*****	N/A	N/A	N/A	N/A	*****	*****	*****	*****	N/A	

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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Returns				Avg. Annual Returns									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date	
TIAA-CREF LIFECYCLE 2030 FUND (TCRIX)^[7,9]	\$4,206.50	42	8.00%	11.18%	8.41%	8.61%	-0.06%	-5.21%	-2.72%	-0.30%	6.88%	6.31%	9.92%	6.31%	10/15/2004	
Gross Expense Ratio		53													1/17/2007	
BM: Lifecycle 2030 Fund Composite Index			8.42%	10.98%	8.32%	8.42%	-5.51%	-4.16%	-1.79%	0.95%	6.91%	6.40%	9.70%	6.37%		
Fund vs. Lifecycle 2030 Fund Composite Index			-42	20	9	19	-55	-105	-93	-125	-3	-9	22	-6		
BM: S&P Target Date 2030 Index			7.99%	10.47%	7.78%	8.02%	-5.60%	-4.53%	-2.20%	0.48%	6.54%	5.91%	9.21%	6.48%		
Fund vs. S&P Target Date 2030 Index			1	71	63	59	-46	-68	-52	-78	34	40	71	-17		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-958	-589	-505	-340	130	-126	-515	-690	-439	-450	-343	-266		
PG: Target-Date 2030 M*star Category			6.89%	9.88%	7.06%	7.56%	N/A	N/A	N/A	-0.44%	6.02%	5.25%	8.92%	N/A		
Fund vs. Target-Date 2030 M*star Category			111	130	135	105	N/A	N/A	N/A	14	86	106	100	N/A		
PG: Fund % Rank in Target-Date 2030 M*star Category			14%	12%	6%	13%	N/A	N/A	N/A	41%	15%	11%	14%	N/A		
PG: # of funds in Target-Date 2030 M*star Category			242	195	161	97	N/A	N/A	N/A	241	194	161	98	N/A		
Fund Star Rating			N/A	****	*****	****	N/A	N/A	N/A	N/A	****	*****	****	N/A		
TIAA-CREF LIFECYCLE 2035 FUND (TCIIX)^[7,9]	\$4,271.20	43	9.08%	12.21%	9.02%	9.07%	-6.73%	-5.72%	-2.86%	-0.16%	7.45%	6.71%	10.42%	6.61%	10/15/2004	
Gross Expense Ratio		54													1/17/2007	
BM: Lifecycle 2035 Fund Composite Index			9.51%	12.08%	8.98%	8.95%	-6.07%	-4.58%	-1.82%	1.20%	7.54%	6.87%	10.27%	6.73%		
Fund vs. Lifecycle 2035 Fund Composite Index			-43	13	4	12	-66	-114	-104	-136	-9	-16	15	-12		
BM: S&P Target Date 2035 Index			8.99%	11.44%	8.39%	8.39%	-6.25%	-5.08%	-2.41%	0.54%	6.02%	5.25%	9.63%	6.68%		
Fund vs. S&P Target Date 2035 Index			9	77	63	68	-48	-64	-45	-70	37	40	79	-7		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-850	-486	-444	-294	63	-177	-529	-676	-382	-410	-293	-236		
PG: Target-Date 2035 M*star Category			8.03%	11.01%	7.74%	8.20%	N/A	N/A	N/A	-0.23%	6.65%	5.71%	9.57%	N/A		
Fund vs. Target-Date 2035 M*star Category			105	120	128	87	N/A	N/A	N/A	7	80	100	85	N/A		
PG: Fund % Rank in Target-Date 2035 M*star Category			17%	13%	9%	17%	N/A	N/A	N/A	44%	16%	11%	13%	N/A		
PG: # of funds in Target-Date 2035 M*star Category			218	175	136	67	N/A	N/A	N/A	215	174	136	67	N/A		
Fund Star Rating			N/A	****	*****	****	N/A	N/A	N/A	N/A	****	*****	****	N/A		
TIAA-CREF LIFECYCLE 2040 FUND (TCOIX)^[7,9]	\$5,156.80	44	10.13%	13.18%	9.57%	9.45%	-7.40%	-6.34%	-3.01%	-0.08%	7.96%	7.06%	10.72%	6.97%	10/15/2004	
Gross Expense Ratio		55													1/17/2007	
BM: Lifecycle 2040 Fund Composite Index			10.65%	13.19%	9.60%	9.37%	-6.62%	-4.98%	-1.80%	1.49%	8.19%	7.31%	10.63%	7.10%		
Fund vs. Lifecycle 2040 Fund Composite Index			-52	-1	-3	8	-78	-136	-121	-157	-23	-25	9	-13		
BM: S&P Target Date 2040 Index			9.68%	12.11%	8.79%	8.67%	-6.66%	-5.44%	-2.53%	0.62%	7.46%	6.59%	9.92%	6.85%		
Fund vs. S&P Target Date 2040 Index			45	107	78	78	-74	-90	-48	-70	50	47	80	12		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-745	-389	-389	-256	-4	-239	-544	-668	-331	-375	-263	-200		
PG: Target-Date 2040 M*star Category			8.60%	11.56%	8.07%	8.20%	N/A	N/A	N/A	-0.34%	6.92%	5.92%	9.60%	N/A		
Fund vs. Target-Date 2040 M*star Category			153	162	150	125	N/A	N/A	N/A	26	104	114	112	N/A		
PG: Fund % Rank in Target-Date 2040 M*star Category			12%	4%	2%	10%	N/A	N/A	N/A	39%	11%	5%	8%	N/A		
PG: # of funds in Target-Date 2040 M*star Category			242	195	161	97	N/A	N/A	N/A	241	194	161	98	N/A		
Fund Star Rating			N/A	****	*****	****	N/A	N/A	N/A	N/A	****	*****	****	N/A		
TIAA-CREF LIFECYCLE 2045 FUND (TTFIX)^[9]	\$2,767.90	45	10.86%	13.70%	9.84%	9.45%	-7.96%	-6.70%	-3.16%	-0.13%	8.21%	7.20%	10.74%	5.30%	11/30/2007	
Gross Expense Ratio		56														
BM: Lifecycle 2045 Fund Composite Index			11.34%	13.72%	9.90%	9.52%	-7.00%	-5.27%	-1.84%	1.60%	8.53%	7.52%	10.74%	5.76%		
Fund vs. Lifecycle 2045 Fund Composite Index			-48	-2	-6	-7	-96	-143	-132	-173	-32	-32	0	-46		
BM: S&P Target Date 2045 Index			9.98%	12.54%	9.05%	8.79%	-6.88%	-5.65%	-2.65%	0.59%	7.70%	6.76%	10.08%	5.16%		
Fund vs. S&P Target Date 2045 Index			88	116	79	66	-108	-105	-51	-72	51	44	66	14		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.03%		
Fund vs. Russell 3000 Index			-672	-337	-362	-256	-60	-275	-559	-673	-306	-361	-261	-273		
PG: Target-Date 2045 M*star Category			9.22%	12.14%	8.42%	8.54%	N/A	N/A	N/A	-0.19%	7.23%	6.15%	9.95%	N/A		
Fund vs. Target-Date 2045 M*star Category			164	156	142	91	N/A	N/A	N/A	6	98	105	79	N/A		
PG: Fund % Rank in Target-Date 2045 M*star Category			10%	1%	3%	12%	N/A	N/A	N/A	48%	4%	6%	11%	N/A		
PG: # of funds in Target-Date 2045 M*star Category			218	175	136	66	N/A	N/A	N/A	215	174	136	66	N/A		
Fund Star Rating			N/A	*****	*****	****	N/A	N/A	N/A	N/A	*****	*****	****	N/A		
TIAA-CREF LIFECYCLE 2050 FUND (TFTIX)^[9]	\$1,831.70	45	10.89%	13.82%	9.93%	9.37%	-8.00%	-6.81%	-3.22%	-0.06%	8.34%	7.26%	10.68%	5.32%	11/30/2007	
Gross Expense Ratio		57														
BM: Lifecycle 2050 Fund Composite Index			11.51%	13.90%	10.00%	9.57%	-7.09%	-5.33%	-1.84%	1.65%	8.67%	7.60%	10.78%	5.80%		
Fund vs. Lifecycle 2050 Fund Composite Index			-62	-8	-7	-20	-91	-148	-138	-171	-33	-34	-10	-48		
BM: S&P Target Date 2050 Index			10.26%	12.92%	9.29%	8.96%	-7.05%	-5.81%	-2.71%	0.62%	7.93%	6.94%	10.24%	5.30%		
Fund vs. S&P Target Date 2050 Index			63	90	64	41	-95	-100	-51	-68	41	32	44	2		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.03%		
Fund vs. Russell 3000 Index			-669	-325	-353	-264	-64	-286	-565	-666	-293	-355	-267	-271		
PG: Target-Date 2050 M*star Category			9.23%	12.16%	8.45%	8.38%	N/A	N/A	N/A	-0.40%	7.22%	6.16%	9.77%	N/A		
Fund vs. Target-Date 2050 M*star Category			166	166	148	99	N/A	N/A	N/A	34	112	110	91	N/A		
PG: Fund % Rank in Target-Date 2050 M*star Category			11%	1%	3%	12%	N/A	N/A	N/A	39%	4%	5%	11%	N/A		
PG: # of funds in Target-Date 2050 M*star Category			238	190	156	74	N/A	N/A	N/A	237	189	156	75	N/A		
Fund Star Rating			N/A	*****	*****	****	N/A	N/A	N/A	N/A	*****	*****	****	N/A		
TIAA-CREF LIFECYCLE 2055 FUND (TTRIX)^[9]	\$592.20	45	11.09%	14.00%	10.02%	N/A	-8.16%	-6.94%	-3.26%	-0.10%	8.42%	7.32%	N/A	8.08%	4/29/2011	
Gross Expense Ratio		59														
BM: Lifecycle 2055 Fund Composite Index			11.69%	14.09%	10.11%	N/A	-7.18%	-5.40%	-1.84%	1.69%	8.81%	7.69%	N/A	8.42%		
Fund vs. Lifecycle 2055 Fund Composite Index			-60	-9	-9	N/A	-98	-154	-142	-179	-39	-37	N/A	-34		
BM: S&P Target Date 2055 Index			10.32%	13.13%	9.42%	N/A	-7.08%	-5.84%	-2.72%	0.62%	8.06%	7.04%	N/A	7.77%		
Fund vs. S&P Target Date 2055 Index			77	87	60	N/A	-108	-110	-54	-72	36	28	N/A	31		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	N/A	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	N/A	11.53%		
Fund vs. Russell 3000 Index			-649	-307	-344	N/A	-80	-299	-569	-670	-285	-349	N/A	-345		
PG: Target-Date 2055 M*star Category			9.51%	12.41%	8.71%	N/A	N/A	N/A	N/A	-0.20%	7.38%	6.36%	N/A	N/A		
Fund vs. Target-Date 2055 M*star Category			158	159	131	N/A	N/A	N/A	N/A	10	104	96	N/A	N/A		
PG: Fund % Rank in Target-Date 2055 M*star Category			10%	2%	3%	N/A	N/A	N/A	N/A	49%	5%	7%	N/A	N/A		
PG: # of funds in Target-Date 2055 M*star Category			218	173	112	N/A	N/A	N/A	N/A	218	172	112	N/A	N/A		
Fund Star Rating			N/A	*****	*****	****	N/A	N/A	N/A	N/A	*****	*****	****	N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
INSTITUTIONAL SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Returns				Avg. Annual Returns									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date	
TIAA-CREF LIFECYCLE 2060 FUND (TLXNX)^[9]	\$107.80	45	11.21%	14.11%	N/A	N/A	-8.21%	-6.93%	-3.22%	-0.08%	8.51%	N/A	N/A	N/A	7.12%	9/26/2014
Gross Expense Ratio		79														
BM: Lifecycle 2060 Fund Composite Index			11.87%	14.27%			-7.26%	-5.46%	-1.84%	1.73%	8.95%				7.20%	
Fund vs. Lifecycle 2060 Fund Composite Index			-66	-16			-95	-147	-138	-181	-44				-8	
BM: S&P Target Date 2060+ Index			10.60%	13.34%			-7.11%	-5.82%	-2.60%	0.80%	8.22%				6.67%	
Fund vs. S&P Target Date 2060+ Index			61	77			-110	-111	-62	-88	29				45	
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%				9.86%	
Fund vs. Russell 3000 Index			-637	-296			-85	-298	-565	-668	-276				-274	
PG: Target-Date 2060+ M*star Category			9.74%	12.66%			N/A	N/A	N/A	-0.16%	7.60%				N/A	
Fund vs. Target-Date 2060+ M*star Category			147	145			N/A	N/A	N/A	8	91				N/A	
PG: Fund % Rank in Target-Date 2060+ M*star Category			9%	1%			N/A	N/A	N/A	46%	6%				N/A	
PG: # of funds in Target-Date 2060+ M*star Category			190	76			N/A	N/A	N/A	189	75				N/A	
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****				N/A	
TIAA-CREF LIFECYCLE INDEX 2010 FUND (TLTIX)^[9]	\$409.30	10	4.73%	6.96%	5.73%	N/A	-3.58%	-2.76%	-1.53%	0.05%	4.51%	4.50%	N/A	6.48%	9/30/2009	
Gross Expense Ratio		25														
BM: Lifecycle Index 2010 Composite Benchmark			4.84%	7.12%	5.83%		-3.55%	-2.69%	-1.54%	0.17%	4.62%	4.59%			6.61%	
Fund vs. Lifecycle Index 2010 Composite Benchmark			-11	-16	-10		-3	-7	1	-12	-11	-9			-13	
BM: S&P Target Date 2010 Index			4.36%	6.38%	5.09%		-3.35%	-2.67%	-1.62%	0.01%	4.15%	3.97%			5.78%	
Fund vs. S&P Target Date 2010 Index			37	58	64		-23	-9	9	4	36	53			70	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%			2.93%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			595	565	357		-279	-197	85	210	347	267			355	
PG: Target-Date 2000-2010 M*star Category			3.40%	6.33%	4.87%		N/A	N/A	N/A	-0.63%	4.09%	3.78%			N/A	
Fund vs. Target-Date 2000-2010 M*star Category			133	63	86		N/A	N/A	N/A	68	42	72			N/A	
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			1%	19%	9%		N/A	N/A	N/A	8%	28%	9%			N/A	
PG: # of funds in Target-Date 2000-2010 M*star Category			137	113	91		N/A	N/A	N/A	137	113	91			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	
TIAA-CREF LIFECYCLE INDEX 2015 FUND (TLFIX)^[9]	\$796.00	10	5.30%	7.65%	6.21%	N/A	-3.85%	-2.94%	-1.53%	0.22%	4.98%	4.87%	N/A	6.95%	9/30/2009	
Gross Expense Ratio		23														
BM: Lifecycle Index 2015 Composite Benchmark			5.47%	7.80%	6.31%		-3.91%	-2.95%	-1.59%	0.29%	5.03%	4.94%			7.08%	
Fund vs. Lifecycle Index 2015 Composite Benchmark			-17	-15	-10		6	1	6	-7	-5	-7			-13	
BM: S&P Target Date 2015 Index			5.09%	7.42%	5.85%		-3.79%	-3.03%	-1.70%	0.14%	4.78%	4.55%			6.56%	
Fund vs. S&P Target Date 2015 Index			21	23	36		-6	9	17	8	20	32			39	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%			2.93%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			652	634	405		-306	-215	85	227	394	304			402	
PG: Target-Date 2015 M*star Category			4.24%	7.04%	5.34%		N/A	N/A	N/A	-0.46%	4.48%	4.08%			N/A	
Fund vs. Target-Date 2015 M*star Category			106	61	87		N/A	N/A	N/A	68	50	79			N/A	
PG: Fund % Rank in Target-Date 2015 M*star Category			11%	26%	15%		N/A	N/A	N/A	11%	24%	14%			N/A	
PG: # of funds in Target-Date 2015 M*star Category			139	111	77		N/A	N/A	N/A	136	110	77			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	
TIAA-CREF LIFECYCLE INDEX 2020 FUND (TLWIX)^[9]	\$1,877.10	10	6.13%	8.59%	6.83%	N/A	-4.28%	-3.26%	-1.57%	0.43%	5.54%	5.34%	N/A	7.53%	9/30/2009	
Gross Expense Ratio		21														
BM: Lifecycle Index 2020 Composite Benchmark			6.30%	8.75%	6.93%		-4.34%	-3.27%	-1.62%	0.49%	5.59%	5.40%			7.66%	
Fund vs. Lifecycle Index 2020 Composite Benchmark			-17	-16	-10		6	1	5	-6	-5	-6			-13	
BM: S&P Target Date 2020 Index			5.78%	8.36%	6.49%		-4.19%	-3.37%	-1.80%	0.25%	5.35%	5.04%			7.24%	
Fund vs. S&P Target Date 2020 Index			35	23	34		-9	11	23	18	19	30			29	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%			13.17%	
Fund vs. Russell 3000 Index			-1145	-848	-663		308	69	-400	-617	-573	-547			-564	
PG: Target-Date 2020 M*star Category			4.70%	7.51%	5.59%		N/A	N/A	N/A	-0.60%	4.69%	4.22%			N/A	
Fund vs. Target-Date 2020 M*star Category			143	108	124		N/A	N/A	N/A	103	85	112			N/A	
PG: Fund % Rank in Target-Date 2020 M*star Category			8%	19%	11%		N/A	N/A	N/A	8%	19%	10%			N/A	
PG: # of funds in Target-Date 2020 M*star Category			253	205	171		N/A	N/A	N/A	252	204	171			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	
TIAA-CREF LIFECYCLE INDEX 2025 FUND (TLQIX)^[9]	\$2,277.90	10	7.24%	9.72%	7.55%	N/A	-4.88%	-3.70%	-1.60%	0.66%	6.19%	5.85%	N/A	8.14%	9/30/2009	
Gross Expense Ratio		20														
BM: Lifecycle Index 2025 Composite Benchmark			7.36%	9.86%	7.63%		-4.90%	-3.69%	-1.66%	0.73%	6.24%	5.92%			8.26%	
Fund vs. Lifecycle Index 2025 Composite Benchmark			-12	-14	-8		2	-1	6	-7	-5	-7			-12	
BM: S&P Target Date 2025 Index			6.86%	9.45%	7.13%		-4.86%	-3.92%	-1.99%	0.38%	5.98%	5.48%			7.82%	
Fund vs. S&P Target Date 2025 Index			38	27	42		-2	22	39	28	21	37			32	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%			13.17%	
Fund vs. Russell 3000 Index			-1034	-735	-591		248	25	-403	-594	-508	-496			-503	
PG: Target-Date 2025 M*star Category			5.85%	8.80%	6.39%		N/A	N/A	N/A	-0.49%	5.43%	4.79%			N/A	
Fund vs. Target-Date 2025 M*star Category			139	92	116		N/A	N/A	N/A	115	76	106			N/A	
PG: Fund % Rank in Target-Date 2025 M*star Category			8%	19%	7%		N/A	N/A	N/A	6%	14%	4%			N/A	
PG: # of funds in Target-Date 2025 M*star Category			223	180	141		N/A	N/A	N/A	223	179	141			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	
TIAA-CREF LIFECYCLE INDEX 2030 FUND (TLHIX)^[9]	\$2,419.40	10	8.24%	10.81%	8.23%	N/A	-5.41%	-4.15%	-1.64%	0.82%	6.84%	6.35%	N/A	8.75%	9/30/2009	
Gross Expense Ratio		20														
BM: Lifecycle Index 2030 Composite Benchmark			8.42%	10.96%	8.34%		-5.46%	-4.10%	-1.71%	0.96%	6.89%	6.43%			8.86%	
Fund vs. Lifecycle Index 2030 Composite Benchmark			-18	-15	-11		5	-5	7	-14	-5	-8			-11	
BM: S&P Target Date 2030 Index			7.99%	10.47%	7.78%		-5.60%	-4.53%	-2.20%	0.48%	6.54%	5.91%			8.33%	
Fund vs. S&P Target Date 2030 Index			25	34	45		19	38	56	34	30	44			42	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%			13.17%	
Fund vs. Russell 3000 Index			-934	-626	-523		195	-20	-407	-578	-443	-446			-442	
PG: Target-Date 2030 M*star Category			6.89%	9.88%	7.06%		N/A	N/A	N/A	-0.44%	6.02%	5.25%			N/A	
Fund vs. Target-Date 2030 M*star Category			135	93	117		N/A	N/A	N/A	126	82	110			N/A	
PG: Fund % Rank in Target-Date 2030 M*star Category			11%	19%	9%		N/A	N/A	N/A	11%	16%	8%			N/A	
PG: # of funds in Target-Date 2030 M*star Category			242	195	161		N/A	N/A	N/A	241	194	161			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
INSTITUTIONAL SHARE CLASS

FOR PERIOD ENDING October 31, 2018
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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Returns				Avg. Annual Returns									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date	
TIAA-CREF LIFECYCLE INDEX 2035 FUND (TLYIX)^[9]	\$2,216.50	10	9.32%	11.91%	8.90%	N/A	-5.98%	-4.55%	-1.67%	1.11%	7.51%	6.84%	N/A	9.32%	9/30/2009	
Gross Expense Ratio		19														
BM: Lifecycle Index 2035 Composite Benchmark			9.51%	12.06%	9.00%		-6.02%	-4.51%	-1.73%	1.21%	7.52%	6.90%		9.44%		
Fund vs. Lifecycle Index 2035 Composite Benchmark			-19	-15	-10		4	-4	6	-10	-1	-6		-12		
BM: S&P Target Date 2035 Index			8.99%	11.44%	8.39%		-6.25%	-5.08%	-2.41%	0.54%	7.08%	6.31%		8.78%		
Fund vs. S&P Target Date 2035 Index			33	47	51		27	53	74	57	43	53		54		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%		
Fund vs. Russell 3000 Index			-826	-516	-456		138	-60	-410	-549	-376	-397		-385		
PG: Target-Date 2035 M*star Category			8.03%	12.11%	7.74%		N/A	N/A	N/A	-0.23%	6.65%	5.71%		N/A		
Fund vs. Target-Date 2035 M*star Category			129	90	116		N/A	N/A	N/A	134	86	113		N/A		
PG: Fund % Rank in Target-Date 2035 M*star Category			13%	18%	11%		N/A	N/A	N/A	7%	13%	9%		N/A		
PG: # of funds in Target-Date 2035 M*star Category			218	175	136		N/A	N/A	N/A	215	174	136		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE INDEX 2040 FUND (TLZIX)^[9]	\$2,377.20	10	10.45%	13.03%	9.53%	N/A	-6.49%	-4.94%	-1.62%	1.38%	8.16%	7.29%	N/A	9.72%	9/30/2009	
Gross Expense Ratio		19														
BM: Lifecycle Index 2040 Composite Benchmark			10.65%	13.17%	9.62%		-6.57%	-4.91%	-1.71%	1.50%	8.16%	7.35%		9.83%		
Fund vs. Lifecycle Index 2040 Composite Benchmark			-20	-14	-9		8	-3	9	-12	0	-6		-11		
BM: S&P Target Date 2040 Index			9.68%	12.11%	8.79%		-6.66%	-5.44%	-2.53%	0.62%	7.46%	6.59%		9.09%		
Fund vs. S&P Target Date 2040 Index			77	92	74		17	50	91	76	70	70		63		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%		
Fund vs. Russell 3000 Index			-713	-404	-393		87	-99	-405	-522	-311	-352		-345		
PG: Target-Date 2040 M*star Category			8.60%	11.56%	8.07%		N/A	N/A	N/A	-0.34%	6.92%	5.92%		N/A		
Fund vs. Target-Date 2040 M*star Category			185	147	146		N/A	N/A	N/A	172	124	137		N/A		
PG: Fund % Rank in Target-Date 2040 M*star Category			7%	9%	3%		N/A	N/A	N/A	4%	3%	2%		N/A		
PG: # of funds in Target-Date 2040 M*star Category			242	195	161		N/A	N/A	N/A	241	194	161		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE INDEX 2045 FUND (TLXIX)^[9]	\$1,524.40	10	11.15%	13.53%	9.80%	N/A	-6.90%	-5.24%	-1.66%	1.53%	8.49%	7.49%	N/A	9.82%	9/30/2009	
Gross Expense Ratio		20														
BM: Lifecycle Index 2045 Composite Benchmark			11.33%	13.69%	9.92%		-6.95%	-5.19%	-1.74%	1.62%	8.50%	7.55%		9.95%		
Fund vs. Lifecycle Index 2045 Composite Benchmark			-18	-16	-12		5	-5	8	-9	-1	-6		-13		
BM: S&P Target Date 2045 Index			9.98%	12.54%	9.05%		-6.88%	-5.65%	-2.65%	0.59%	7.70%	6.76%		9.30%		
Fund vs. S&P Target Date 2045 Index			117	99	75		-2	41	99	94	79	73		52		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%		
Fund vs. Russell 3000 Index			-643	-354	-366		46	-129	-409	-507	-278	-332		-335		
PG: Target-Date 2045 M*star Category			9.22%	12.14%	8.42%		N/A	N/A	N/A	-0.19%	7.23%	6.15%		N/A		
Fund vs. Target-Date 2045 M*star Category			193	139	138		N/A	N/A	N/A	172	126	134		N/A		
PG: Fund % Rank in Target-Date 2045 M*star Category			4%	2%	3%		N/A	N/A	N/A	6%	2%	3%		N/A		
PG: # of funds in Target-Date 2045 M*star Category			218	175	136		N/A	N/A	N/A	215	174	136		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE INDEX 2050 FUND (TLLIX)^[9]	\$1,113.50	10	11.33%	13.72%	9.93%	N/A	-6.97%	-5.26%	-1.65%	1.58%	8.64%	7.58%	N/A	9.88%	9/30/2009	
Gross Expense Ratio		20														
BM: Lifecycle Index 2050 Composite Benchmark			11.51%	13.87%	10.03%		-7.04%	-5.26%	-1.74%	1.66%	8.64%	7.64%		9.99%		
Fund vs. Lifecycle Index 2050 Composite Benchmark			-18	-15	-10		7	0	9	-8	0	-6		-11		
BM: S&P Target Date 2050 Index			10.26%	12.92%	9.29%		-7.05%	-5.81%	-2.71%	0.62%	7.93%	6.94%		9.47%		
Fund vs. S&P Target Date 2050 Index			107	80	64		8	55	106	96	71	64		41		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%		
Fund vs. Russell 3000 Index			-625	-335	-353		39	-131	-408	-502	-263	-323		-329		
PG: Target-Date 2050 M*star Category			9.23%	12.16%	8.45%		N/A	N/A	N/A	-0.40%	7.22%	6.16%		N/A		
Fund vs. Target-Date 2050 M*star Category			210	156	148		N/A	N/A	N/A	198	142	142		N/A		
PG: Fund % Rank in Target-Date 2050 M*star Category			5%	2%	2%		N/A	N/A	N/A	5%	2%	2%		N/A		
PG: # of funds in Target-Date 2050 M*star Category			238	190	156		N/A	N/A	N/A	237	189	156		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE INDEX 2055 FUND (TTIIX)^[9]	\$429.40	10	11.49%	13.90%	10.03%	N/A	-7.04%	-5.30%	-1.63%	1.67%	8.78%	7.66%	N/A	8.36%	4/29/2011	
Gross Expense Ratio		24														
BM: Lifecycle Index 2055 Composite Benchmark			11.69%	14.06%	10.13%		-7.12%	-5.32%	-1.74%	1.71%	8.79%	7.72%		8.45%		
Fund vs. Lifecycle Index 2055 Composite Benchmark			-20	-16	-10		8	2	11	-4	-1	-6		-9		
BM: S&P Target Date 2055 Index			10.32%	13.13%	9.42%		-7.08%	-5.84%	-2.72%	0.62%	8.06%	7.04%		7.77%		
Fund vs. S&P Target Date 2055 Index			117	77	61		4	54	109	105	72	62		59		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		11.53%		
Fund vs. Russell 3000 Index			-609	-317	-343		32	-135	-406	-493	-249	-315		-317		
PG: Target-Date 2055 M*star Category			9.51%	12.41%	8.71%		N/A	N/A	N/A	-0.20%	7.38%	6.36%		N/A		
Fund vs. Target-Date 2055 M*star Category			198	149	132		N/A	N/A	N/A	187	140	130		N/A		
PG: Fund % Rank in Target-Date 2055 M*star Category			7%	3%	2%		N/A	N/A	N/A	5%	1%	2%		N/A		
PG: # of funds in Target-Date 2055 M*star Category			218	173	112		N/A	N/A	N/A	218	172	112		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE INDEX 2060 FUND (TVIIX)^[9]	\$103.50	10	11.74%	14.09%	N/A	N/A	-7.14%	-5.39%	-1.55%	1.71%	8.93%	N/A	N/A	7.20%	9/26/2014	
Gross Expense Ratio		48														
BM: Lifecycle Index 2060 Composite Benchmark			11.87%	14.24%			-7.21%	-5.38%	-1.74%	1.75%	8.93%			7.27%		
Fund vs. Lifecycle Index 2060 Composite Benchmark			-13	-15			7	-1	19	-4	0			-7		
BM: S&P Target Date 2060+ Index			10.60%	13.34%			-7.11%	-5.82%	-2.60%	0.80%	8.22%			6.67%		
Fund vs. S&P Target Date 2060+ Index			114	75			-3	43	105	91	71			53		
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%			9.86%		
Fund vs. Russell 3000 Index			-584	-298			22	-144	-398	-489	-234			-266		
PG: Target-Date 2060+ M*star Category			9.74%	12.66%			N/A	N/A	N/A	-0.16%	7.60%			N/A		
Fund vs. Target-Date 2060+ M*star Category			200	143			N/A	N/A	N/A	187	133			N/A		
PG: Fund % Rank in Target-Date 2060+ M*star Category			5%	2%			N/A	N/A	N/A	6%	1%			N/A		
PG: # of funds in Target-Date 2060+ M*star Category			190	76			N/A	N/A	N/A	189	75			N/A		
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****			N/A		

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TIAA-CREF FUNDS
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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Returns				Avg. Annual Returns								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date
TIAA-CREF LIFECYCLE INDEX RETIREMENT INCOME FUND (TRILX)^[9]	\$304.50	10	4.57%	6.57%	5.40%	N/A	-3.41%	-2.61%	-1.41%	0.09%	4.32%	4.24%	N/A	6.01%	9/30/2009
Gross Expense Ratio		31													
BM: Lifecycle Index Retirement Income Composite Benchmark			4.54%	6.67%	5.48%		-3.42%	-2.60%	-1.55%	0.07%	4.35%	4.31%		6.15%	
Fund vs. Lifecycle Index Retirement Income Composite Benchmark			3	-10	-8		1	-1	14	2	-3	-7		-14	
BM: S&P Target Date Retirement Income Index			3.71%	5.35%	4.37%		-2.92%	-2.36%	-1.52%	-0.07%	3.53%	3.42%		4.96%	
Fund vs. S&P Target Date Retirement Income Index			86	122	103		-49	-25	11	16	79	82		105	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		2.93%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			579	526	324		-262	-182	97	214	328	241		308	
PG: Target-Date Retirement M*star Category			2.74%	5.19%	3.98%		N/A	N/A	N/A	-0.89%	3.34%	3.03%		N/A	
Fund vs. Target-Date Retirement M*star Category			183	138	142		N/A	N/A	N/A	98	98	121		N/A	
PG: Fund % Rank in Target-Date Retirement M*star Category			5%	13%	4%		N/A	N/A	N/A	4%	12%	3%		N/A	
PG: # of funds in Target-Date Retirement M*star Category			189	164	137		N/A	N/A	N/A	189	163	137		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE RETIREMENT INCOME FUND (TLRIX)^[9]	\$530.00	37	4.29%	7.14%	5.64%	6.61%	-3.58%	-3.06%	-1.94%	-0.46%	4.72%	4.39%	7.24%	4.63%	11/30/2007
Gross Expense Ratio		52													
BM: Lifecycle Retirement Income Fund Composite Index			4.54%	6.68%	5.37%	6.34%	-3.45%	-2.63%	-1.59%	0.06%	4.36%	4.21%	6.92%	4.59%	
Fund vs. Lifecycle Retirement Income Fund Composite Index			-25	46	27	27	-13	-43	-35	-52	36	18	32	4	
BM: S&P Target Date Retirement Income Index			3.71%	5.35%	4.37%	5.10%	-2.92%	-2.36%	-1.52%	-0.07%	3.53%	3.42%	5.73%	3.57%	
Fund vs. S&P Target Date Retirement Income Index			58	179	127	151	-66	-70	-42	-39	119	97	151	106	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.46%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			551	583	348	284	-279	-227	44	159	368	256	330	117	
PG: Target-Date Retirement M*star Category			2.74%	5.19%	3.98%	5.19%	N/A	N/A	N/A	-0.89%	3.34%	3.03%	5.89%	N/A	
Fund vs. Target-Date Retirement M*star Category			155	195	166	142	N/A	N/A	N/A	43	138	136	135	N/A	
PG: Fund % Rank in Target-Date Retirement M*star Category			9%	3%	1%	2%	N/A	N/A	N/A	28%	4%	1%	3%	N/A	
PG: # of funds in Target-Date Retirement M*star Category			189	164	137	93	N/A	N/A	N/A	189	163	137	94	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LIFESTYLE AGGRESSIVE GROWTH FUND (TSAIX)^[11]	\$111.30	55	11.56%	14.50%	10.34%	N/A	-8.90%	-7.69%	-3.80%	-0.51%	8.42%	7.42%	N/A	11.27%	12/9/2011
Gross Expense Ratio		75													
BM: Lifestyle Aggressive Composite Benchmark			12.68%	14.99%	10.66%		-7.66%	-5.76%	-1.85%	1.92%	9.22%	8.04%		11.37%	
Fund vs. Lifestyle Aggressive Composite Benchmark			-112	-49	-32		-124	-193	-195	-243	-80	-62		-10	
BM: Morningstar Aggressive Target Risk TR USD			10.40%	13.86%	9.26%		-7.19%	-6.07%	-3.11%	0.53%	8.66%	6.88%		10.10%	
Fund vs. Morningstar Aggressive Target Risk TR USD			116	64	108		-171	-162	-69	-104	-24	54		117	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%	
Fund vs. Russell 3000 Index			-602	-257	-312		-154	-374	-623	-711	-285	-339		-270	
PG: Allocation-85%+ Equity M*star Category			10.08%	12.40%	8.72%		N/A	N/A	N/A	0.21%	7.18%	6.25%		N/A	
Fund vs. Allocation-85%+ Equity M*star Category			148	210	162		N/A	N/A	N/A	-72	124	117		N/A	
PG: Fund % Rank in Allocation-85%+ Equity M*star Category			26%	5%	11%		N/A	N/A	N/A	62%	11%	15%		N/A	
PG: # of funds in Allocation-85%+ Equity M*star Category			196	176	151		N/A	N/A	N/A	195	174	149		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFESTYLE CONSERVATIVE FUND (TCSIX)^[10]	\$225.00	46	4.30%	7.01%	5.63%	N/A	-4.03%	-3.55%	-2.29%	-0.85%	4.48%	4.30%	N/A	6.08%	12/9/2011
Gross Expense Ratio		61													
BM: Lifestyle Conservative Composite Benchmark			4.52%	6.58%	5.33%		-3.36%	-2.51%	-1.44%	0.16%	4.31%	4.20%		5.54%	
Fund vs. Lifestyle Conservative Composite Benchmark			-22	43	30		-67	-104	-85	-101	17	10		54	
BM: Morningstar Moderately Conservative Target Risk TR USD			3.91%	6.69%	4.96%		-3.34%	-2.78%	-2.11%	-0.42%	4.51%	3.85%		5.33%	
Fund vs. Morningstar Moderately Conservative Target Risk TR USD			39	32	67		-69	-77	-18	-43	-3	45		75	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.88%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			552	570	347		-324	-276	9	120	344	247		420	
PG: Allocation-30% to 50% Equity M*star Category			3.30%	6.30%	4.74%		N/A	N/A	N/A	-1.08%	3.81%	3.37%		N/A	
Fund vs. Allocation-30% to 50% Equity M*star Category			100	71	89		N/A	N/A	N/A	23	67	93		N/A	
PG: Fund % Rank in Allocation-30% to 50% Equity M*star Category			27%	24%	16%		N/A	N/A	N/A	46%	25%	17%		N/A	
PG: # of funds in Allocation-30% to 50% Equity M*star Category			508	439	355		N/A	N/A	N/A	532	460	368		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFESTYLE GROWTH FUND (TSGGX)^[11]	\$159.30	52	9.00%	12.13%	8.92%	N/A	-7.42%	-6.43%	-3.54%	-0.83%	7.20%	6.50%	N/A	9.70%	12/9/2011
Gross Expense Ratio		66													
BM: Lifestyle Growth Composite Benchmark			9.83%	12.21%	8.99%		-6.29%	-4.74%	-1.86%	1.22%	7.62%	6.87%		9.51%	
Fund vs. Lifestyle Growth Composite Benchmark			-83	-8	-7		-113	-169	-168	-205	-42	-37		19	
BM: Morningstar Moderately Aggressive Target Risk TR USD			8.32%	11.76%	8.03%		-6.13%	-5.19%	-3.08%	0.04%	7.46%	6.01%		8.77%	
Fund vs. Morningstar Moderately Aggressive Target Risk TR USD			68	37	89		-129	-124	-46	-87	-26	49		93	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%	
Fund vs. Russell 3000 Index			-858	-494	-454		-6	-248	-597	-743	-407	-431		-427	
PG: Allocation-70% to 85% Equity M*star Category			8.52%	10.41%	7.54%		N/A	N/A	N/A	0.04%	6.17%	5.48%		N/A	
Fund vs. Allocation-70% to 85% Equity M*star Category			48	172	138		N/A	N/A	N/A	-87	103	102		N/A	
PG: Fund % Rank in Allocation-70% to 85% Equity M*star Category			40%	18%	17%		N/A	N/A	N/A	68%	29%	24%		N/A	
PG: # of funds in Allocation-70% to 85% Equity M*star Category			359	323	279		N/A	N/A	N/A	351	315	270		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFESTYLE INCOME FUND (TSITX)^[10]	\$72.00	42	2.03%	4.37%	3.79%	N/A	-2.17%	-1.92%	-1.43%	-0.72%	3.03%	3.01%	N/A	4.06%	12/9/2011
Gross Expense Ratio		68													
BM: Lifestyle Income Composite Benchmark			2.07%	3.76%	3.35%		-1.80%	-1.29%	-1.02%	-0.21%	2.60%	2.71%		3.44%	
Fund vs. Lifestyle Income Composite Benchmark			-4	61	44		-37	-63	-41	-51	43	30		62	
BM: Morningstar Conservative Target Risk TR USD			1.46%	3.96%	3.07%		-1.94%	-1.69%	-1.90%	-0.93%	2.81%	2.42%		3.28%	
Fund vs. Morningstar Conservative Target Risk TR USD			57	41	72		-23	-23	47	21	22	59		78	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.88%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			325	306	163		-138	-113	95	133	199	118		218	
PG: Allocation-15% to 30% Equity M*star Category			1.46%	4.21%	3.14%		N/A	N/A	N/A	-1.35%	2.70%	2.40%		N/A	
Fund vs. Allocation-15% to 30% Equity M*star Category			57	16	65		N/A	N/A	N/A	63	33	61		N/A	
PG: Fund % Rank in Allocation-15% to 30% Equity M*star Category			43%	53%	31%		N/A	N/A	N/A	45%	41%	30%		N/A	
PG: # of funds in Allocation-15% to 30% Equity M*star Category			207	182	149		N/A	N/A	N/A	194	171	145		N/A	
Fund Star Rating			N/A	***	****		N/A	N/A	N/A	N/A	***	****		N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
ADVISOR SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mil.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.	
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	to Inception	Date	
U.S. Equities																
TIAA-CREF EQUITY INDEX FUND (TEIHX)	\$17,528.40	15	17.39%	16.97%	13.39%	11.96%	-7.37%	-3.96%	2.34%	6.44%	11.19%	10.75%	13.30%	5.90%	7/1/1999	
Gross Expense Ratio		15													12/4/2015	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	5.98%		
Fund vs. Russell 3000 Index			-19	-10	-7	-5	-1	-1	-9	-16	-8	-6	-5	-8		
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A		
Fund vs. Large Blend M*star Category			204	180	146	112	N/A	N/A	N/A	116	146	131	116	N/A		
PG: Fund % Rank in Large Blend M*star Category			33%	21%	25%	18%	N/A	N/A	N/A	42%	24%	27%	17%	N/A		
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF GROWTH & INCOME FUND (TGIIHX)	\$6,500.80	54	19.96%	17.28%	13.98%	12.40%	-9.35%	-5.34%	1.79%	5.56%	10.62%	10.78%	13.25%	6.19%	7/1/1999	
Gross Expense Ratio		54													12/4/2015	
BM: S&P 500 Index			17.91%	17.31%	13.95%	11.97%	-6.84%	-3.25%	3.01%	7.35%	11.52%	11.34%	13.24%	5.55%		
Fund vs. S&P 500 Index			205	-3	3	43	-251	-209	-122	-179	-90	-56	1	64		
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A		
Fund vs. Large Growth M*star Category			-322	-40	-4	-20	N/A	N/A	N/A	-314	-63	-27	-48	N/A		
PG: Fund % Rank in Large Growth M*star Category			69%	59%	55%	55%	N/A	N/A	N/A	81%	62%	59%	60%	N/A		
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF LARGE-CAP GROWTH FUND (TILHX)	\$5,111.30	58	28.19%	20.21%	16.88%	14.20%	-9.89%	-4.46%	7.86%	11.19%	12.93%	13.60%	15.27%	9.80%	3/31/2006	
Gross Expense Ratio		65													12/4/2015	
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	9.87%		
Fund vs. Russell 1000 Growth Index			189	-34	30	-11	-95	-103	124	48	-74	17	-18	-7		
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A		
Fund vs. Large Growth M*star Category			501	253	286	160	N/A	N/A	N/A	249	168	255	154	N/A		
PG: Fund % Rank in Large Growth M*star Category			19%	20%	12%	21%	N/A	N/A	N/A	24%	24%	11%	22%	N/A		
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LARGE-CAP GROWTH INDEX FUND (TRIHX)	\$6,121.60	19	26.00%	20.37%	16.44%	14.21%	-8.96%	-3.49%	6.42%	10.49%	13.50%	13.29%	15.34%	10.47%	10/1/2002	
Gross Expense Ratio		19													12/4/2015	
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	10.59%		
Fund vs. Russell 1000 Growth Index			-30	-18	-14	-10	-2	-6	-20	-22	-17	-14	-11	-12		
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A		
Fund vs. Large Growth M*star Category			282	269	242	161	N/A	N/A	N/A	179	225	224	161	N/A		
PG: Fund % Rank in Large Growth M*star Category			31%	19%	16%	21%	N/A	N/A	N/A	32%	19%	17%	21%	N/A		
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LARGE-CAP VALUE FUND (TRLHX)	\$6,168.60	49	6.56%	12.90%	9.36%	9.95%	-7.94%	-7.47%	-5.62%	-1.85%	6.97%	6.65%	11.21%	9.04%	10/1/2002	
Gross Expense Ratio		49													12/4/2015	
BM: Russell 1000 Value Index			9.45%	13.55%	10.72%	9.79%	-5.18%	-3.59%	-1.46%	3.03%	8.88%	8.61%	11.30%	9.14%		
Fund vs. Russell 1000 Value Index			-289	-65	-136	16	-276	-388	-416	-488	-191	-196	-9	-10		
PG: Large Value M*star Category			10.84%	13.45%	10.19%	9.69%	N/A	N/A	N/A	3.34%	8.69%	8.03%	11.13%	N/A		
Fund vs. Large Value M*star Category			-428	-55	-83	26	N/A	N/A	N/A	-519	-172	-138	8	N/A		
PG: Fund % Rank in Large Value M*star Category			91%	64%	77%	48%	N/A	N/A	N/A	95%	84%	87%	53%	N/A		
PG: # of funds in Large Value M*star Category			1274	1109	948	696	N/A	N/A	N/A	1249	1089	932	678	N/A		
Fund Star Rating			N/A	**	**	**	N/A	N/A	N/A	N/A	**	**	**	N/A		
TIAA-CREF LARGE-CAP VALUE INDEX FUND (THCVX)	\$6,354.70	19	9.15%	13.36%	10.57%	9.68%	-5.17%	-3.65%	-1.68%	2.77%	8.70%	8.48%	11.19%	9.03%	10/1/2002	
Gross Expense Ratio		19													12/4/2015	
BM: Russell 1000 Value Index			9.45%	13.55%	10.72%	9.79%	-5.18%	-3.59%	-1.46%	3.03%	8.88%	8.61%	11.30%	9.14%		
Fund vs. Russell 1000 Value Index			-30	-19	-15	-11	1	-6	-22	-26	-18	-13	-11	-11		
PG: Large Value M*star Category			10.84%	13.45%	10.19%	9.69%	N/A	N/A	N/A	3.34%	8.69%	8.03%	11.13%	N/A		
Fund vs. Large Value M*star Category			-169	-9	38	-1	N/A	N/A	N/A	-57	1	45	6	N/A		
PG: Fund % Rank in Large Value M*star Category			66%	55%	43%	50%	N/A	N/A	N/A	55%	52%	43%	48%	N/A		
PG: # of funds in Large Value M*star Category			1274	1109	948	696	N/A	N/A	N/A	1249	1089	932	678	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF MID-CAP GROWTH FUND (TCMHX)	\$1,363.90	56	19.01%	14.63%	10.78%	12.33%	-12.32%	-7.90%	-1.11%	2.22%	7.73%	7.47%	13.66%	11.00%	10/1/2002	
Gross Expense Ratio		56													12/4/2015	
BM: Russell Mid Cap Growth Index			21.10%	16.65%	13.00%	13.46%	-9.90%	-5.11%	2.16%	6.14%	10.39%	10.10%	15.10%	11.71%		
Fund vs. Russell Mid Cap Growth Index			-209	-202	-222	-113	-242	-279	-327	-392	-266	-263	-144	-71		
PG: Mid-Cap Growth M*star Category			20.31%	15.81%	11.68%	11.97%	N/A	N/A	N/A	5.13%	9.74%	8.58%	13.28%	N/A		
Fund vs. Mid-Cap Growth M*star Category			-130	-118	-90	36	N/A	N/A	N/A	-291	-201	-111	38	N/A		
PG: Fund % Rank in Mid-Cap Growth M*star Category			59%	62%	71%	45%	N/A	N/A	N/A	74%	76%	75%	40%	N/A		
PG: # of funds in Mid-Cap Growth M*star Category			601	540	483	342	N/A	N/A	N/A	598	537	487	341	N/A		
Fund Star Rating			N/A	***	**	***	N/A	N/A	N/A	N/A	**	**	***	N/A		
TIAA-CREF MID-CAP VALUE FUND (TRVHX)	\$3,480.50	56	7.66%	11.39%	9.37%	10.25%	-8.35%	-8.01%	-4.95%	-2.17%	6.33%	6.74%	11.88%	11.04%	10/1/2002	
Gross Expense Ratio		56													12/4/2015	
BM: Russell Mid Cap Value Index			8.81%	13.09%	10.72%	11.29%	-7.20%	-6.68%	-4.30%	0.16%	8.15%	8.11%	13.35%	11.10%		
Fund vs. Russell Mid Cap Value Index			-115	-170	-135	-104	-115	-133	-65	-233	-182	-137	-147	-6		
PG: Mid-Cap Value M*star Category			8.93%	12.59%	9.33%	10.41%	N/A	N/A	N/A	-0.20%	7.44%	6.70%	12.13%	N/A		
Fund vs. Mid-Cap Value M*star Category			-127	-120	4	-16	N/A	N/A	N/A	-197	-111	4	-25	N/A		
PG: Fund % Rank in Mid-Cap Value M*star Category			62%	70%	51%	56%	N/A	N/A	N/A	68%	69%	51%	59%	N/A		
PG: # of funds in Mid-Cap Value M*star Category			422	373	315	228	N/A	N/A	N/A	412	363	306	220	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF QUANT LARGE-CAP GROWTH FUND (TECGX)^[1]	\$2,511.50	42	24.91%	20.30%	16.20%	13.79%	-8.88%	-4.04%	5.32%	9.47%	13.43%	13.01%	14.93%	9.36%	11/30/2007	
Gross Expense Ratio		42													12/4/2015	
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	9.72%		
Fund vs. Russell 1000 Growth Index			-139	-25	-38	-52	6	-61	-130	-124	-24	-42	-52	-36		
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A		
Fund vs. Large Growth M*star Category			173	262	218	119	N/A	N/A	N/A							

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
ADVISOR SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return ¹				Avg. Annual Return ¹									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.	
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	10/31/18 to 10/31/18	Date	
TIAA-CREF QUANT LARGE-CAP VALUE FUND (TELCX)^[12]	\$2,522.30	42	8.47%	12.16%	9.76%	9.03%	-5.56%	-3.93%	-3.38%	1.18%	7.49%	7.54%	10.46%	5.56%	11/30/2007	
Gross Expense Ratio		42													12/4/2015	
BM: Russell 1000 Value Index			9.45%	13.55%	10.72%	9.79%	-5.18%	-3.59%	-1.46%	3.03%	8.88%	8.61%	11.30%	6.25%		
Fund vs. Russell 1000 Value Index			-98	-139	-96	-76	-38	-34	-192	-185	-139	-107	-84	-69		
PG: Large Value M*star Category			10.84%	13.45%	10.19%	9.69%	N/A	N/A	N/A	3.34%	8.69%	8.03%	11.13%	N/A		
Fund vs. Large Value M*star Category			-237	-129	-43	-66	N/A	N/A	N/A	-216	-120	-49	-67	N/A		
PG: Fund % Rank in Large Value M*star Category			75%	77%	65%	70%	N/A	N/A	N/A	77%	77%	66%	69%	N/A		
PG: # of funds in Large Value M*star Category			1274	1109	948	696	N/A	N/A	N/A	1249	1089	932	678	N/A		
Fund Star Rating			N/A	**	***	**	N/A	N/A	N/A	N/A	**	***	**	N/A		
TIAA-CREF QUANT SMALL-CAP EQUITY FUND (TSCHX)^[13]	\$3,348.90	50	13.57%	16.23%	11.69%	11.64%	-10.03%	-7.86%	-1.73%	0.84%	9.93%	8.68%	12.91%	10.76%	10/1/2002	
Gross Expense Ratio		50													12/4/2015	
BM: Russell 2000 Index			15.24%	17.12%	11.07%	11.11%	-10.86%	-9.26%	-0.60%	1.85%	10.68%	8.01%	12.44%	10.64%		
Fund vs. Russell 2000 Index			-167	-89	62	53	83	140	-113	-101	-75	67	47	12		
PG: Small Growth M*star Category			24.44%	18.35%	11.75%	12.57%	N/A	N/A	N/A	8.31%	11.98%	8.58%	13.81%	N/A		
Fund vs. Small Growth M*star Category			-1087	-216	-6	-93	N/A	N/A	N/A	-747	-205	10	-90	N/A		
PG: Fund % Rank in Small Growth M*star Category			89%	74%	52%	70%	N/A	N/A	N/A	89%	74%	52%	68%	N/A		
PG: # of funds in Small Growth M*star Category			702	606	532	404	N/A	N/A	N/A	677	591	516	392	N/A		
Fund Star Rating			N/A	**	***	**	N/A	N/A	N/A	N/A	**	***	**	N/A		
TIAA-CREF QUANT SMALL/MID-CAP EQUITY (TSMNX)^[14]	\$643.00	59	21.52%	N/A	N/A	N/A	-9.92%	-6.33%	2.22%	6.19%	N/A	N/A	N/A	13.05%	8/5/2016	
Gross Expense Ratio		59														
BM: Russell 2500 Index			16.19%				-10.15%	-7.72%	-0.80%	2.80%				10.12%		
Fund vs. Russell 2500 Index			533				23	139	302	339				293		
PG: Small Blend M*star Category			12.14%				N/A	N/A	N/A	-0.07%				N/A		
Fund vs. Small Blend M*star Category			938				N/A	N/A	N/A	626				N/A		
PG: Fund % Rank in Small Blend M*star Category			3%				N/A	N/A	N/A	5%				N/A		
PG: # of funds in Small Blend M*star Category			778				N/A	N/A	N/A	784				N/A		
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A		
TIAA-CREF REAL ESTATE SECURITIES FUND (TIRHX)	\$2,049.80	65	5.74%	8.48%	10.01%	7.81%	-2.69%	-1.89%	-0.84%	2.00%	5.49%	8.57%	11.35%	10.07%	10/1/2002	
Gross Expense Ratio		65													12/4/2015	
BM: FTSE Nareit All Equity REITs Index			4.31%	8.97%	9.57%	7.77%	-2.65%	-2.75%	-0.91%	1.42%	5.76%	8.06%	11.65%	10.32%		
Fund vs. FTSE Nareit All Equity REITs Index			143	-49	44	4	-4	86	7	58	-27	51	-30	-25		
PG: Real Estate M*star Category			3.39%	7.24%	8.56%	7.13%	N/A	N/A	N/A	0.37%	4.16%	7.03%	10.70%	N/A		
Fund vs. Real Estate M*star Category			235	124	145	68	N/A	N/A	N/A	163	133	154	65	N/A		
PG: Fund % Rank in Real Estate M*star Category			8%	17%	3%	29%	N/A	N/A	N/A	33%	15%	7%	25%	N/A		
PG: # of funds in Real Estate M*star Category			253	222	191	138	N/A	N/A	N/A	252	222	190	138	N/A		
Fund Star Rating			N/A	****	*****	****	N/A	N/A	N/A	N/A	****	*****	***	N/A		
TIAA-CREF S&P 500 INDEX FUND (TISAX)	\$4,775.10	19	17.60%	17.11%	13.81%	11.86%	-6.83%	-3.27%	2.84%	7.12%	11.35%	11.20%	13.13%	9.61%	10/1/2002	
Gross Expense Ratio		19													12/4/2015	
BM: S&P 500 Index			17.91%	17.31%	13.95%	11.97%	-6.84%	-3.25%	3.01%	7.35%	11.52%	11.34%	13.24%	9.71%		
Fund vs. S&P 500 Index			-31	-20	-14	-11	1	-2	-17	-23	-17	-14	-11	-10		
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A		
Fund vs. Large Blend M*star Category			225	194	188	102	N/A	N/A	N/A	184	162	176	99	N/A		
PG: Fund % Rank in Large Blend M*star Category			28%	16%	12%	23%	N/A	N/A	N/A	27%	17%	12%	24%	N/A		
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF SMALL-CAP BLEND INDEX FUND (TRHBX)	\$2,666.50	21	15.26%	17.26%	11.26%	11.20%	-10.87%	-9.27%	-0.61%	1.84%	10.81%	8.18%	12.54%	10.68%	10/1/2002	
Gross Expense Ratio		117													12/4/2015	
BM: Russell 2000 Index			15.24%	17.12%	11.07%	11.11%	-10.86%	-9.26%	-0.60%	1.85%	10.68%	8.01%	12.44%	10.64%		
Fund vs. Russell 2000 Index			2	14	19	9	-1	-1	-1	-1	13	17	10	4		
PG: Small Blend M*star Category			12.14%	14.73%	9.71%	10.67%	N/A	N/A	N/A	-0.07%	8.86%	6.75%	12.10%	N/A		
Fund vs. Small Blend M*star Category			312	253	155	53	N/A	N/A	N/A	191	195	143	44	N/A		
PG: Fund % Rank in Small Blend M*star Category			26%	17%	21%	37%	N/A	N/A	N/A	34%	20%	25%	38%	N/A		
PG: # of funds in Small Blend M*star Category			778	652	539	388	N/A	N/A	N/A	784	653	542	395	N/A		
Fund Star Rating			N/A	****	****	***	N/A	N/A	N/A	N/A	****	****	***	N/A		
TIAA-CREF SOCIAL CHOICE EQUITY FUND (TICHX)	\$3,620.40	27	16.25%	16.63%	12.28%	11.31%	-7.62%	-4.58%	1.09%	5.15%	10.78%	9.62%	12.64%	5.64%	7/1/1999	
Gross Expense Ratio		27													12/4/2015	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	5.98%		
Fund vs. Russell 3000 Index			-133	-44	-118	-70	-26	-63	-134	-145	-49	-119	-71	-34		
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A		
Fund vs. Large Blend M*star Category			90	146	35	47	N/A	N/A	N/A	-13	105	18	50	N/A		
PG: Fund % Rank in Large Blend M*star Category			49%	30%	52%	43%	N/A	N/A	N/A	61%	36%	54%	39%	N/A		
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A		
Fund Star Rating			N/A	****	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF SOCIAL CHOICE LOW CARBON EQUITY FUND (TCCHX)	\$113.10	41	15.52%	16.59%	N/A	N/A	-7.73%	-4.49%	0.87%	4.54%	10.85%	N/A	N/A	9.76%	8/7/2015	
Gross Expense Ratio		71													12/4/2015	
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%			10.33%		
Fund vs. Russell 3000 Index			-206	-48			-37	-54	-156	-206	-42			-57		
PG: Large Blend M*star Category			15.35%	15.17%			N/A	N/A	N/A	5.28%	9.73%			N/A		
Fund vs. Large Blend M*star Category			17	142			N/A	N/A	N/A	-74	112			N/A		
PG: Fund % Rank in Large Blend M*star Category			55%	32%			N/A	N/A	N/A	69%	35%			N/A		
PG: # of funds in Large Blend M*star Category			1383	1196			N/A	N/A	N/A	1412	1218			N/A		
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	***			N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
ADVISOR SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.	
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	10/31/18 to 10/31/18	Date	
International Equities																
TIAA-CREF EMERGING MARKETS EQUITY FUND (TEMHX)	\$1,411.20	101	-9.53%	10.35%	1.84%	N/A	-6.78%	-14.26%	-20.06%	-18.48%	5.65%	-0.48%	N/A	1.31%	8/31/2010	
Gross Expense Ratio		101													12/4/2015	
BM: MS Emerging Market			-0.81%	12.36%	3.61%		-8.71%	-11.65%	-15.72%	-12.52%	6.52%	0.78%		2.25%		
Fund vs. MS Emerging Market			-872	-201	-177		193	-261	-434	-596	-87	-126		-94		
PG: Diversified Emerging Mkts M*star Category			-3.63%	10.09%	2.54%		N/A	N/A	N/A	-13.34%	4.90%	0.01%		N/A		
Fund vs. Diversified Emerging Mkts M*star Category			-590	26	-70		N/A	N/A	N/A	-514	75	-49		N/A		
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			92%	51%	71%		N/A	N/A	N/A	91%	43%	66%		N/A		
PG: # of funds in Diversified Emerging Mkts M*star Category			838	708	508		N/A	N/A	N/A	842	710	511		N/A		
Fund Star Rating			N/A	***	**		N/A	N/A	N/A	N/A	***	***		N/A		
TIAA-CREF EMERGING MARKETS EQUITY INDEX FUND (TEQHX)	\$2,403.30	36	-1.63%	11.91%	3.37%	N/A	-8.41%	-11.76%	-15.58%	-12.86%	6.45%	0.69%	N/A	1.88%	8/31/2010	
Gross Expense Ratio		36													12/4/2015	
BM: MS Emerging Market			-0.81%	12.36%	3.61%		-8.71%	-11.65%	-15.72%	-12.52%	6.52%	0.78%		2.25%		
Fund vs. MS Emerging Market			-82	-45	-24		30	-11	14	-34	-7	-9		-37		
PG: Diversified Emerging Mkts M*star Category			-3.63%	10.09%	2.54%		N/A	N/A	N/A	-13.34%	4.90%	0.01%		N/A		
Fund vs. Diversified Emerging Mkts M*star Category			200	182	83		N/A	N/A	N/A	48	155	68		N/A		
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			32%	28%	36%		N/A	N/A	N/A	44%	28%	37%		N/A		
PG: # of funds in Diversified Emerging Mkts M*star Category			838	708	508		N/A	N/A	N/A	842	710	511		N/A		
Fund Star Rating			N/A	****	***		N/A	N/A	N/A	N/A	****	***		N/A		
TIAA-CREF INTERNATIONAL EQUITY FUND (TIEHX)	\$4,412.10	64	-3.28%	7.97%	3.99%	5.47%	-8.77%	-13.35%	-15.50%	-13.16%	2.51%	1.17%	7.39%	4.42%	7/1/1999	
Gross Expense Ratio		67													12/4/2015	
BM: Morgan Stanley EAFE Index			2.74%	9.23%	4.42%	5.38%	-7.96%	-8.95%	-9.28%	-6.85%	3.62%	2.02%	6.89%	3.72%		
Fund vs. Morgan Stanley EAFE Index			-602	-126	-43	9	-81	-440	-622	-631	-111	-85	50	70		
PG: Foreign Large Blend M*star Category			1.55%	8.71%	4.05%	4.98%	N/A	N/A	N/A	-8.26%	3.41%	1.62%	6.50%	N/A		
Fund vs. Foreign Large Blend M*star Category			-483	-74	-6	49	N/A	N/A	N/A	-490	-90	-45	89	N/A		
PG: Fund % Rank in Foreign Large Blend M*star Category			96%	75%	53%	32%	N/A	N/A	N/A	96%	75%	70%	23%	N/A		
PG: # of funds in Foreign Large Blend M*star Category			783	655	535	379	N/A	N/A	N/A	763	642	523	387	N/A		
Fund Star Rating			N/A	**	**	***	N/A	N/A	N/A	N/A	**	**	***	N/A		
TIAA-CREF INTERNATIONAL EQUITY INDEX FUND (TCHX)	\$11,343.80	20	2.46%	9.07%	4.47%	5.31%	-7.93%	-9.16%	-9.07%	-7.16%	3.82%	2.11%	6.86%	7.32%	10/1/2002	
Gross Expense Ratio		20													12/4/2015	
BM: Morgan Stanley EAFE Index			2.74%	9.23%	4.42%	5.38%	-7.96%	-8.95%	-9.28%	-6.85%	3.62%	2.02%	6.89%	7.30%		
Fund vs. Morgan Stanley EAFE Index			-28	-16	5	-7	3	-21	21	-31	20	9	-3	2		
PG: Foreign Large Blend M*star Category			1.55%	8.71%	4.05%	4.98%	N/A	N/A	N/A	-8.26%	3.41%	1.62%	6.50%	N/A		
Fund vs. Foreign Large Blend M*star Category			91	36	42	33	N/A	N/A	N/A	110	41	49	36	N/A		
PG: Fund % Rank in Foreign Large Blend M*star Category			35%	45%	37%	36%	N/A	N/A	N/A	32%	43%	32%	38%	N/A		
PG: # of funds in Foreign Large Blend M*star Category			783	655	535	379	N/A	N/A	N/A	763	642	523	387	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF INTERNATIONAL OPPORTUNITIES FUND (TIOHX)	\$1,512.50	72	6.15%	11.41%	6.13%	N/A	-11.40%	-12.18%	-10.47%	-7.17%	5.80%	2.98%	N/A	4.25%	4/12/2013	
Gross Expense Ratio		72													12/4/2015	
BM: MSCI AC World Index ex USA			1.76%	9.97%	4.12%		-8.13%	-9.65%	-10.97%	-8.24%	4.37%	1.63%		3.10%		
Fund vs. MSCI AC World Index ex USA			439	144	201		-327	-253	50	107	143	135		115		
PG: Foreign Large Growth M*star Category			4.08%	10.28%	5.74%		N/A	N/A	N/A	-7.67%	4.35%	3.03%		N/A		
Fund vs. Foreign Large Growth M*star Category			207	113	39		N/A	N/A	N/A	50	145	-5		N/A		
PG: Fund % Rank in Foreign Large Growth M*star Category			26%	29%	32%	36%	N/A	N/A	N/A	43%	24%	46%		N/A		
PG: # of funds in Foreign Large Growth M*star Category			426	347	313		N/A	N/A	N/A	445	358	324		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	***		N/A		
TIAA-CREF QUANT INTERNATIONAL EQUITY FUND (TEIEX)^[15]	\$1,775.60	50	1.04%	8.50%	4.63%	5.49%	-8.33%	-9.90%	-10.56%	-9.04%	3.28%	2.01%	7.06%	0.65%	11/30/2007	
Gross Expense Ratio		50													12/4/2015	
BM: Morgan Stanley EAFE Index			2.74%	9.23%	4.42%	5.38%	-7.96%	-8.95%	-9.28%	-6.85%	3.62%	2.02%	6.89%	0.66%		
Fund vs. Morgan Stanley EAFE Index			-170	-73	21	11	-37	-95	-128	-219	-34	-1	17	-1		
PG: Foreign Large Blend M*star Category			1.55%	8.71%	4.05%	4.98%	N/A	N/A	N/A	-8.26%	3.41%	1.62%	6.50%	N/A		
Fund vs. Foreign Large Blend M*star Category			-51	-21	58	51	N/A	N/A	N/A	-78	-13	39	56	N/A		
PG: Fund % Rank in Foreign Large Blend M*star Category			65%	62%	33%	32%	N/A	N/A	N/A	66%	59%	40%	32%	N/A		
PG: # of funds in Foreign Large Blend M*star Category			783	655	535	379	N/A	N/A	N/A	763	642	523	387	N/A		
Fund Star Rating			N/A	***	****	****	N/A	N/A	N/A	N/A	***	***	****	N/A		
TIAA-CREF QUANT INTERNATIONAL SMALL-CAP EQUITY FUND (TAISX)^[16,4]	\$884.60	83	-4.23%	N/A	N/A	N/A	-10.11%	-13.02%	-18.44%	-15.59%	N/A	N/A	N/A	4.57%	12/9/2016	
Gross Expense Ratio		83													12/4/2015	
BM: MSCI ACWI ex-US Small Cap Index			1.86%				-9.73%	-11.71%	-13.71%	-9.73%				7.31%		
Fund vs. MSCI ACWI ex-US Small Cap Index			-609				-38	-131	-473	-586				-274		
PG: Foreign Small/Mid Value M*star Category			-1.55%				N/A	N/A	N/A	-11.19%				N/A		
Fund vs. Foreign Small/Mid Value M*star Category			-268				N/A	N/A	N/A	-440				N/A		
PG: Fund % Rank in Foreign Small/Mid Value M*star Category			78%				N/A	N/A	N/A	94%				N/A		
PG: # of funds in Foreign Small/Mid Value M*star Category			63				N/A	N/A	N/A	61				N/A		
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A		
TIAA-CREF SOCIAL CHOICE INTERNATIONAL EQUITY FUND (TSOHX)	\$61.20	49	2.36%	9.35%	N/A	N/A	-8.40%	-8.81%	-9.30%	-7.58%	3.88%	N/A	N/A	2.07%	8/7/2015	
Gross Expense Ratio		129													12/4/2015	
BM: Morgan Stanley EAFE Index			2.74%	9.23%			-7.96%	-8.95%	-9.28%	-6.85%	3.62%			1.84%		
Fund vs. Morgan Stanley EAFE Index			-38	12			-44	14	-2	-73	26			23		
PG: Foreign Large Blend M*star Category			1.55%	8.71%			N/A	N/A	N/A	-8.26%	3.41%			N/A		
Fund vs. Foreign Large Blend M*star Category			81	64			N/A	N/A	N/A	68	47			N/A		
PG: Fund % Rank in Foreign Large Blend M*star Category			38%	37%			N/A	N/A	N/A	40%	41%			N/A		
PG: # of funds in Foreign Large Blend M*star Category			783	655			N/A	N/A	N/A	763	642			N/A		
Fund Star Rating			N/A	***			N/A	N/A	N/A	N/A	***			N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
ADVISOR SHARE CLASS

FOR PERIOD ENDING October 31, 2018
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FUND	Total Portfolio Net Assets (in \$ Mil.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.	
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	10/31/18 to 10/31/18	Date	
Fixed Income																
TIAA-CREF 5-15 YEAR LADDERED TAX-EXEMPT BOND FUND (TIXHX) ^[1]	\$256.50	38	-0.07%	1.75%	2.57%	4.03%	-0.67%	-1.04%	-0.92%	-0.82%	1.38%	2.30%	4.08%	3.63%	3/31/2006	
Gross Expense Ratio 40																
BM: Bloomberg Barclays 10-Year Municipal Bond Index																
Fund vs. Bloomberg Barclays 10-Year Municipal Bond Index																
PG: Muni National Interm M*star Category																
Fund vs. Muni National Interm M*star Category																
PG: Fund % Rank in Muni National Interm M*star Category																
PG: # of funds in Muni National Interm M*star Category																
Fund Star Rating																
TIAA-CREF BOND FUND (TIBHX)	\$5,718.20	38	-1.09%	2.16%	2.85%	4.32%	-0.84%	-0.94%	-2.37%	-2.05%	1.73%	2.42%	4.48%	4.84%	7/1/1999	
Gross Expense Ratio 38																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate-Term Bond M*star Category																
Fund vs. Intermediate-Term Bond M*star Category																
PG: Fund % Rank in Intermediate-Term Bond M*star Category																
PG: # of funds in Intermediate-Term Bond M*star Category																
Fund Star Rating																
TIAA-CREF BOND INDEX FUND (TBIAX)	\$10,409.90	20	-1.54%	1.05%	1.99%	N/A	-0.83%	-0.88%	-2.60%	-2.37%	0.76%	1.65%	N/A	2.76%	9/14/2009	
Gross Expense Ratio 20																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate-Term Bond M*star Category																
Fund vs. Intermediate-Term Bond M*star Category																
PG: Fund % Rank in Intermediate-Term Bond M*star Category																
PG: # of funds in Intermediate-Term Bond M*star Category																
Fund Star Rating																
TIAA-CREF BOND PLUS FUND (TCBHX)	\$4,177.60	37	-0.82%	2.46%	3.04%	4.80%	-0.81%	-0.96%	-2.05%	-1.77%	2.00%	2.59%	5.06%	4.26%	3/31/2006	
Gross Expense Ratio 37																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate-Term Bond M*star Category																
Fund vs. Intermediate-Term Bond M*star Category																
PG: Fund % Rank in Intermediate-Term Bond M*star Category																
PG: # of funds in Intermediate-Term Bond M*star Category																
Fund Star Rating																
TIAA-CREF EMERGING MARKETS DEBT FUND (TEDHX)	\$452.70	73	-3.24%	7.59%	N/A	N/A	-2.02%	-3.41%	-6.56%	-5.56%	5.67%	N/A	N/A	3.41%	9/26/2014	
Gross Expense Ratio 73																
BM: J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified																
Fund vs. J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified																
PG: Emerging Markets Bond M*star Category																
Fund vs. Emerging Markets Bond M*star Category																
PG: Fund % Rank in Emerging Markets Bond M*star Category																
PG: # of funds in Emerging Markets Bond M*star Category																
Fund Star Rating																
TIAA-CREF HIGH YIELD BOND FUND (TIHHX)	\$3,864.90	46	3.40%	7.35%	5.20%	8.55%	-1.81%	-0.48%	0.88%	1.13%	5.69%	4.22%	9.78%	6.72%	3/31/2006	
Gross Expense Ratio 46																
BM: ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)																
Fund vs. ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)																
PG: High Yield Bond M*star Category																
Fund vs. High Yield Bond M*star Category																
PG: Fund % Rank in High Yield Bond M*star Category																
PG: # of funds in High Yield Bond M*star Category																
Fund Star Rating																
TIAA-CREF INFLATION-LINKED BOND FUND (TIILX)	\$2,985.90	41	0.10%	1.29%	0.87%	2.87%	-0.81%	-0.87%	-1.27%	-0.88%	0.96%	0.62%	3.70%	3.74%	10/1/2002	
Gross Expense Ratio 42																
BM: Bloomberg Barclays US TIPS 1-10 Year Index																
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index																
PG: Inflation-Protected Bond M*star Category																
Fund vs. Inflation-Protected Bond M*star Category																
PG: Fund % Rank in Inflation-Protected Bond M*star Category																
PG: # of funds in Inflation-Protected Bond M*star Category																
Fund Star Rating																
TIAA-CREF INTERNATIONAL BOND FUND (TIBNX) ^[4]	\$353.90	73	0.76%	N/A	N/A	N/A	-0.31%	-0.95%	-0.85%	-0.06%	N/A	N/A	N/A	0.71%	8/5/2016	
Gross Expense Ratio 78																
BM: Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)																
Fund vs. Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)																
PG: World Bond M*star Category																
Fund vs. World Bond M*star Category																
PG: Fund % Rank in World Bond M*star Category																
PG: # of funds in World Bond M*star Category																
Fund Star Rating																
TIAA-CREF SHORT-TERM BOND FUND (TCTHX)	\$1,805.10	35	0.72%	1.42%	1.37%	2.56%	0.01%	0.30%	0.58%	0.68%	1.42%	1.29%	2.60%	2.80%	3/31/2006	
Gross Expense Ratio 35																
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index																
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index																
PG: Short-Term Bond M*star Category																
Fund vs. Short-Term Bond M*star Category																
PG: Fund % Rank in Short-Term Bond M*star Category																
PG: # of funds in Short-Term Bond M*star Category																
Fund Star Rating																

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
ADVISOR SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return ¹				Avg. Annual Return ¹									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception		
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	Inc. Date		
TIAA-CREF SHORT-TERM BOND INDEX FUND (TTBHX)	\$434.90	27	0.02%	0.47%	N/A	N/A	0.07%	0.31%	0.37%	0.09%	0.51%	N/A	N/A	0.56%	8/7/2015	
Gross Expense Ratio		38													12/4/2015	
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			0.20%	0.73%			0.11%	0.39%	0.52%	0.34%	0.77%			0.81%		
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-18	-26			-4	-8	-15	-25	-26			-25		
PG: Short-Term Bond M*star Category			0.43%	1.36%			N/A	N/A	N/A	0.32%	1.29%			N/A		
Fund vs. Short-Term Bond M*star Category			-41	-89			N/A	N/A	N/A	-23	-78			N/A		
PG: Fund % Rank in Short-Term Bond M*star Category			70%	87%			N/A	N/A	N/A	64%	86%			N/A		
PG: # of funds in Short-Term Bond M*star Category			533	474			N/A	N/A	N/A	536	472			N/A		
Fund Star Rating			N/A	**			N/A	N/A	N/A	N/A	**			N/A		
TIAA-CREF SOCIAL CHOICE BOND FUND (TSBHX)	\$2,626.80	44	-0.63%	1.86%	3.25%	N/A	-0.56%	-0.56%	-1.79%	-1.38%	1.63%	2.94%	N/A	2.52%	9/21/2012	
Gross Expense Ratio		44													12/4/2015	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.41%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			59	55	109		23	23	59	67	59	111		111		
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%		N/A	N/A	N/A	-1.87%	1.30%	1.79%		N/A		
Fund vs. Intermediate-Term Bond M*star Category			43	21	111		N/A	N/A	N/A	49	33	115		N/A		
PG: Fund % Rank in Intermediate-Term Bond M*star Category			24%	36%	6%		N/A	N/A	N/A	24%	31%	5%		N/A		
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796		N/A	N/A	N/A	1027	887	785		N/A		
Fund Star Rating			N/A	***	*****		N/A	N/A	N/A	N/A	****	*****		N/A		
Multi-Asset																
TIAA-CREF LIFECYCLE 2010 FUND (TCLHX)^[6]	\$1,195.00	45	4.62%	7.54%	5.89%	6.75%	-3.80%	-3.23%	-1.98%	-0.45%	4.93%	4.55%	7.62%	5.38%	10/15/2004	
Gross Expense Ratio		57													12/4/2015	
BM: Lifecycle 2010 Fund Composite Index			4.84%	7.13%	5.74%	6.60%	-3.57%	-2.72%	-1.59%	0.16%	4.63%	4.50%	7.43%	5.47%		
Fund vs. Lifecycle 2010 Fund Composite Index			-22	41	15	15	-23	-51	-39	-61	30	5	19	-9		
BM: S&P Target Date 2010 Index			4.36%	6.38%	5.09%	5.84%	-3.35%	-2.67%	-1.62%	0.01%	4.15%	3.97%	6.61%	5.00%		
Fund vs. S&P Target Date 2010 Index			26	116	80	91	-45	-56	-36	-46	78	58	101	38		
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.67%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			584	623	373	298	-301	-244	40	160	389	272	368	171		
PG: Target-Date 2000-2010 M*star Category			3.40%	6.33%	4.87%	5.92%	N/A	N/A	N/A	-0.63%	4.09%	3.78%	6.98%	N/A		
Fund vs. Target-Date 2000-2010 M*star Category			122	121	102	83	N/A	N/A	N/A	18	84	77	64	N/A		
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			6%	3%	1%	10%	N/A	N/A	N/A	35%	7%	7%	22%	N/A		
PG: # of funds in Target-Date 2000-2010 M*star Category			137	113	91	76	N/A	N/A	N/A	137	113	91	76	N/A		
Fund Star Rating			N/A	*****	*****	*****	N/A	N/A	N/A	N/A	*****	*****	*****	N/A		
TIAA-CREF LIFECYCLE 2015 FUND (TCNHX)^[6]	\$1,809.50	46	5.17%	8.18%	6.37%	7.11%	-4.20%	-3.54%	-2.10%	-0.40%	5.29%	4.87%	8.10%	5.59%	10/15/2004	
Gross Expense Ratio		58													12/4/2015	
BM: Lifecycle 2015 Fund Composite Index			5.47%	7.82%	6.24%	6.97%	-3.94%	-2.99%	-1.65%	0.28%	5.04%	4.87%	7.92%	5.69%		
Fund vs. Lifecycle 2015 Fund Composite Index			-30	36	13	14	-26	-55	-45	-68	25	0	18	-10		
BM: S&P Target Date 2015 Index			5.09%	7.42%	5.85%	6.53%	-3.79%	-3.03%	-1.70%	0.14%	4.78%	4.55%	7.44%	5.49%		
Fund vs. S&P Target Date 2015 Index			8	76	52	58	-41	-51	-40	-54	51	32	66	10		
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.67%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			639	687	421	334	-341	-275	28	165	425	304	416	192		
PG: Target-Date 2015 M*star Category			4.24%	7.04%	5.34%	6.40%	N/A	N/A	N/A	-0.46%	4.48%	4.08%	7.56%	N/A		
Fund vs. Target-Date 2015 M*star Category			93	114	103	71	N/A	N/A	N/A	6	81	79	54	N/A		
PG: Fund % Rank in Target-Date 2015 M*star Category			14%	7%	4%	15%	N/A	N/A	N/A	48%	7%	14%	22%	N/A		
PG: # of funds in Target-Date 2015 M*star Category			139	111	77	49	N/A	N/A	N/A	136	110	77	49	N/A		
Fund Star Rating			N/A	*****	*****	****	N/A	N/A	N/A	N/A	*****	****	****	N/A		
TIAA-CREF LIFECYCLE 2020 FUND (TCWHX)^[7]	\$3,635.80	47	5.90%	9.06%	6.95%	7.56%	-4.71%	-4.08%	-2.32%	-0.40%	5.77%	5.30%	8.66%	5.78%	10/15/2004	
Gross Expense Ratio		58													12/4/2015	
BM: Lifecycle 2020 Fund Composite Index			6.30%	8.77%	6.88%	7.44%	-4.37%	-3.32%	-1.68%	0.49%	5.60%	5.35%	8.52%	5.91%		
Fund vs. Lifecycle 2020 Fund Composite Index			-40	29	7	12	-34	-76	-64	-89	17	-5	14	-13		
BM: S&P Target Date 2020 Index			5.78%	8.36%	6.49%	7.09%	-4.19%	-3.37%	-1.80%	0.25%	5.35%	5.04%	8.14%	5.88%		
Fund vs. S&P Target Date 2020 Index			12	70	46	47	-52	-71	-52	-65	42	26	52	-10		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-1168	-801	-651	-445	265	-13	-475	-700	-550	-551	-469	-319		
PG: Target-Date 2020 M*star Category			4.70%	7.51%	5.59%	6.56%	N/A	N/A	N/A	-0.60%	4.69%	4.22%	7.78%	N/A		
Fund vs. Target-Date 2020 M*star Category			120	155	136	100	N/A	N/A	N/A	20	108	108	88	N/A		
PG: Fund % Rank in Target-Date 2020 M*star Category			14%	6%	3%	15%	N/A	N/A	N/A	39%	7%	10%	21%	N/A		
PG: # of funds in Target-Date 2020 M*star Category			253	205	171	107	N/A	N/A	N/A	252	204	171	108	N/A		
Fund Star Rating			N/A	*****	*****	****	N/A	N/A	N/A	N/A	*****	****	****	N/A		
TIAA-CREF LIFECYCLE 2025 FUND (TCQHX)^[7]	\$4,259.40	49	6.90%	10.07%	7.63%	8.01%	-5.32%	-4.53%	-2.46%	-0.26%	6.34%	5.76%	9.23%	5.99%	10/15/2004	
Gross Expense Ratio		60													12/4/2015	
BM: Lifecycle 2025 Fund Composite Index			7.36%	9.87%	7.60%	7.95%	-4.94%	-3.74%	-1.73%	0.72%	6.26%	5.88%	9.12%	6.15%		
Fund vs. Lifecycle 2025 Fund Composite Index			-46	20	3	6	-38	-79	-73	-98	8	-12	11	-16		
BM: S&P Target Date 2025 Index			6.86%	9.45%	7.13%	7.59%	-4.86%	-3.92%	-1.99%	0.38%	5.98%	5.48%	8.72%	6.22%		
Fund vs. S&P Target Date 2025 Index			4	62	50	42	-46	-61	-47	-64	36	28	51	-23		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-1068	-700	-583	-400	204	-58	-489	-686	-493	-505	-412	-298		
PG: Target-Date 2025 M*star Category			5.85%	8.80%	6.39%	7.33%	N/A	N/A	N/A	-0.49%	5.43%	4.79%	8.63%	N/A		
Fund vs. Target-Date 2025 M*star Category			105	127	124	68	N/A	N/A	N/A	23	91	97	60	N/A		
PG: Fund % Rank in Target-Date 2025 M*star Category			15%	7%	4%	23%	N/A	N/A	N/A	38%	5%	11%	26%	N/A		
PG: # of funds in Target-Date 2025 M*star Category			223	180	141	72	N/A	N/A	N/A	223	179	141	72	N/A		
Fund Star Rating			N/A	*****	*****	****	N/A	N/A	N/A	N/A	*****	*****	****	N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
ADVISOR SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return:				Avg. Annual Return:									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception		
TIAA-CREF LIFECYCLE 2030 FUND (TCHHX)^[7]	\$4,206.50	50	7.97%	11.13%	8.28%	8.40%	-6.06%	-5.21%	-2.72%	-0.32%	6.85%	6.18%	9.73%	6.13%	10/15/2004	
Gross Expense Ratio		61													12/4/2015	
BM: Lifecycle 2030 Fund Composite Index			8.42%	10.98%	8.32%	8.42%	-5.51%	-4.16%	-1.79%	0.95%	6.91%	6.40%	9.70%	6.37%		
Fund vs. Lifecycle 2030 Fund Composite Index			-45	15	-4	-2	-55	-105	-93	-127	-6	-22	3	-24		
BM: S&P Target Date 2030 Index			7.99%	10.47%	7.78%	8.02%	-5.60%	-4.53%	-2.20%	0.48%	6.54%	5.91%	9.21%	6.48%		
Fund vs. S&P Target Date 2030 Index			-2	66	50	38	-46	-68	-52	-80	31	27	52	-35		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-961	-594	-518	-361	130	-126	-515	-692	-442	-463	-362	-284		
PG: Target-Date 2030 M*star Category			6.89%	9.88%	7.06%	7.56%	N/A	N/A	N/A	-0.44%	6.02%	5.25%	8.92%	N/A		
Fund vs. Target-Date 2030 M*star Category			108	125	122	84	N/A	N/A	N/A	12	83	93	81	N/A		
PG: Fund % Rank in Target-Date 2030 M*star Category			15%	12%	7%	21%	N/A	N/A	N/A	42%	16%	16%	20%	N/A		
PG: # of funds in Target-Date 2030 M*star Category			242	195	161	97	N/A	N/A	N/A	241	194	161	98	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2035 FUND (TCYHX)^[7]	\$4,271.20	51	9.05%	12.14%	8.89%	8.85%	-6.73%	-5.73%	-2.86%	-0.19%	7.40%	6.57%	10.21%	6.44%	10/15/2004	
Gross Expense Ratio		62													12/4/2015	
BM: Lifecycle 2035 Fund Composite Index			9.51%	12.08%	8.98%	8.95%	-6.07%	-4.58%	-1.82%	1.20%	7.54%	6.87%	10.27%	6.73%		
Fund vs. Lifecycle 2035 Fund Composite Index			-46	6	-9	-10	-66	-115	-104	-139	-14	-30	-6	-29		
BM: S&P Target Date 2035 Index			8.99%	11.44%	8.39%	8.39%	-6.25%	-5.08%	-2.41%	0.54%	7.02%	6.31%	9.63%	6.68%		
Fund vs. S&P Target Date 2035 Index			6	70	50	46	-48	-65	-45	-73	32	26	58	-24		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-853	-493	-457	-316	63	-178	-529	-679	-387	-424	-314	-253		
PG: Target-Date 2035 M*star Category			8.03%	11.01%	7.74%	8.20%	N/A	N/A	N/A	-0.23%	6.65%	5.71%	9.57%	N/A		
Fund vs. Target-Date 2035 M*star Category			102	113	115	65	N/A	N/A	N/A	4	75	86	64	N/A		
PG: Fund % Rank in Target-Date 2035 M*star Category			20%	14%	12%	20%	N/A	N/A	N/A	45%	16%	16%	24%	N/A		
PG: # of funds in Target-Date 2035 M*star Category			218	175	136	67	N/A	N/A	N/A	215	174	136	67	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2040 FUND (TCZHX)^[7]	\$5,156.80	52	10.12%	13.15%	9.45%	9.25%	-7.48%	-6.34%	-3.01%	-0.10%	7.91%	6.92%	10.51%	6.79%	10/15/2004	
Gross Expense Ratio		63													12/4/2015	
BM: Lifecycle 2040 Fund Composite Index			10.65%	13.19%	9.60%	9.37%	-6.62%	-4.98%	-1.80%	1.49%	8.19%	7.31%	10.63%	7.10%		
Fund vs. Lifecycle 2040 Fund Composite Index			-53	-4	-15	-12	-86	-136	-121	-159	-28	-39	-12	-31		
BM: S&P Target Date 2040 Index			9.68%	12.11%	8.79%	8.67%	-6.66%	-5.44%	-2.53%	0.62%	7.46%	6.59%	9.92%	6.85%		
Fund vs. S&P Target Date 2040 Index			44	104	66	58	-82	-90	-48	-72	45	33	59	-6		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-746	-392	-401	-276	-12	-239	-544	-670	-336	-389	-284	-218		
PG: Target-Date 2040 M*star Category			8.60%	11.56%	8.07%	8.20%	N/A	N/A	N/A	-0.34%	6.92%	5.92%	9.60%	N/A		
Fund vs. Target-Date 2040 M*star Category			152	159	138	105	N/A	N/A	N/A	24	99	100	91	N/A		
PG: Fund % Rank in Target-Date 2040 M*star Category			13%	8%	4%	17%	N/A	N/A	N/A	42%	14%	14%	19%	N/A		
PG: # of funds in Target-Date 2040 M*star Category			242	195	161	97	N/A	N/A	N/A	241	194	161	98	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2045 FUND (TTFHX)^[7]	\$2,767.90	53	10.76%	13.64%	9.71%	9.24%	-7.96%	-6.77%	-3.24%	-0.14%	8.16%	7.07%	10.52%	5.10%	11/30/2007	
Gross Expense Ratio		64													12/4/2015	
BM: Lifecycle 2045 Fund Composite Index			11.34%	13.72%	9.90%	9.52%	-7.00%	-5.27%	-1.84%	1.60%	8.53%	7.52%	10.74%	5.76%		
Fund vs. Lifecycle 2045 Fund Composite Index			-58	-8	-19	-28	-96	-150	-140	-174	-37	-45	-22	-66		
BM: S&P Target Date 2045 Index			9.98%	12.54%	9.05%	8.79%	-6.88%	-5.65%	-2.65%	0.59%	7.70%	6.76%	10.08%	5.16%		
Fund vs. S&P Target Date 2045 Index			78	110	66	45	-108	-112	-59	-73	46	31	44	-6		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.03%		
Fund vs. Russell 3000 Index			-682	-343	-375	-277	-60	-282	-567	-674	-311	-374	-283	-293		
PG: Target-Date 2045 M*star Category			9.22%	12.14%	8.42%	8.54%	N/A	N/A	N/A	-0.19%	7.23%	6.15%	9.95%	N/A		
Fund vs. Target-Date 2045 M*star Category			154	150	129	70	N/A	N/A	N/A	5	93	92	57	N/A		
PG: Fund % Rank in Target-Date 2045 M*star Category			13%	1%	3%	12%	N/A	N/A	N/A	48%	5%	7%	12%	N/A		
PG: # of funds in Target-Date 2045 M*star Category			218	175	136	66	N/A	N/A	N/A	215	174	136	66	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2050 FUND (TFTHX)^[7]	\$1,831.70	53	10.87%	13.79%	9.80%	9.17%	-8.00%	-6.81%	-3.22%	-0.07%	8.30%	7.13%	10.48%	5.11%	11/30/2007	
Gross Expense Ratio		65													12/4/2015	
BM: Lifecycle 2050 Fund Composite Index			11.51%	13.90%	10.00%	9.57%	-7.09%	-5.33%	-1.84%	1.65%	8.67%	7.60%	10.78%	5.80%		
Fund vs. Lifecycle 2050 Fund Composite Index			-64	-11	-20	-40	-91	-148	-138	-172	-37	-47	-30	-69		
BM: S&P Target Date 2050 Index			10.26%	12.92%	9.29%	8.96%	-7.05%	-5.81%	-2.71%	0.62%	7.93%	6.94%	10.24%	5.30%		
Fund vs. S&P Target Date 2050 Index			61	87	51	21	-95	-100	-51	-69	37	19	24	-19		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.03%		
Fund vs. Russell 3000 Index			-671	-328	-366	-284	-64	-286	-565	-667	-297	-368	-287	-292		
PG: Target-Date 2050 M*star Category			9.23%	12.16%	8.45%	8.38%	N/A	N/A	N/A	-0.40%	7.22%	6.16%	9.77%	N/A		
Fund vs. Target-Date 2050 M*star Category			164	163	135	79	N/A	N/A	N/A	33	108	97	71	N/A		
PG: Fund % Rank in Target-Date 2050 M*star Category			11%	2%	4%	13%	N/A	N/A	N/A	41%	5%	6%	11%	N/A		
PG: # of funds in Target-Date 2050 M*star Category			238	190	156	74	N/A	N/A	N/A	237	189	156	75	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2055 FUND (TTRHX)^[7]	\$592.20	53	11.08%	13.96%	9.89%	N/A	-8.10%	-6.87%	-3.19%	-0.04%	8.43%	7.22%	N/A	7.92%	4/29/2011	
Gross Expense Ratio		67													12/4/2015	
BM: Lifecycle 2055 Fund Composite Index			11.69%	14.09%	10.11%		-7.18%	-5.40%	-1.84%	1.69%	8.81%	7.69%		8.42%		
Fund vs. Lifecycle 2055 Fund Composite Index			-61	-13	-22		-92	-147	-135	-173	-38	-47		-50		
BM: S&P Target Date 2055 Index			10.32%	13.13%	9.42%		-7.08%	-5.84%	-2.72%	0.62%	8.06%	7.04%		7.77%		
Fund vs. S&P Target Date 2055 Index			76	83	47		-102	-103	-47	-66	37	18		15		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		11.53%		
Fund vs. Russell 3000 Index			-650	-311	-357		-74	-292	-562	-664	-284	-359		-361		
PG: Target-Date 2055 M*star Category			9.51%	12.41%	8.71%		N/A	N/A	N/A	-0.20%	7.38%	6.36%		N/A		
Fund vs. Target-Date 2055 M*star Category			157	155	118		N/A	N/A	N/A	16	105	86		N/A		
PG: Fund % Rank in Target-Date 2055 M*star Category			12%	3%	4%		N/A	N/A	N/A	44%	5%	7%		N/A		
PG: # of funds in Target-Date 2055 M*star Category			218	173	112		N/A	N/A	N/A	218	172	112		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
ADVISOR SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date	
TIAA-CREF LIFECYCLE 2060 FUND (TLXHX)^[7]	\$107.80	53	11.18%	14.09%	N/A	N/A	-8.21%	-6.93%	-3.31%	-0.12%	8.49%	N/A	N/A	N/A	7.04%	9/26/2014
Gross Expense Ratio		87														12/4/2015
BM: Lifecycle 2060 Fund Composite Index			11.87%	14.27%			-7.26%	-5.46%	-1.84%	1.73%	8.95%				7.20%	
Fund vs. Lifecycle 2060 Fund Composite Index			-69	-18			-95	-147	-147	-185	-46				-16	
BM: S&P Target Date 2060+ Index			10.60%	13.34%			-7.11%	-5.82%	-2.60%	0.80%	8.22%				6.67%	
Fund vs. S&P Target Date 2060+ Index			58	75			-110	-111	-71	-92	27				37	
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%				9.86%	
Fund vs. Russell 3000 Index			-640	-298			-85	-298	-574	-672	-278				-282	
PG: Target-Date 2060+ M*star Category			9.74%	12.66%			N/A	N/A	N/A	-0.16%	7.60%				N/A	
Fund vs. Target-Date 2060+ M*star Category			144	143			N/A	N/A	N/A	4	89				N/A	
PG: Fund % Rank in Target-Date 2060+ M*star Category			9%	2%			N/A	N/A	N/A	48%	7%				N/A	
PG: # of funds in Target-Date 2060+ M*star Category			190	76			N/A	N/A	N/A	189	75				N/A	
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****				N/A	
TIAA-CREF LIFECYCLE INDEX 2010 FUND (TLTHX)^[6]	\$409.30	18	4.65%	6.91%	5.59%	N/A	-3.52%	-2.76%	-1.59%	0.04%	4.50%	4.37%	N/A	6.28%	9/30/2009	
Gross Expense Ratio		33														12/4/2015
BM: Lifecycle Index 2010 Composite Benchmark			4.84%	7.12%	5.83%		-3.55%	-2.69%	-1.54%	0.17%	4.62%	4.59%			6.61%	
Fund vs. Lifecycle Index 2010 Composite Benchmark			-19	-21	-24		3	-7	-5	-13	-12	-22			-33	
BM: S&P Target Date 2010 Index			4.36%	6.38%	5.09%		-3.35%	-2.67%	-1.62%	0.01%	4.15%	3.97%			5.78%	
Fund vs. S&P Target Date 2010 Index			29	53	50		-17	-9	3	3	35	40			50	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%			2.93%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			587	560	343		-273	-197	79	209	346	254			335	
PG: Target-Date 2000-2010 M*star Category			3.40%	6.33%	4.87%		N/A	N/A	N/A	-0.63%	4.09%	3.78%			N/A	
Fund vs. Target-Date 2000-2010 M*star Category			125	58	72		N/A	N/A	N/A	67	41	59			N/A	
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			3%	23%	12%		N/A	N/A	N/A	10%	29%	15%			N/A	
PG: # of funds in Target-Date 2000-2010 M*star Category			137	113	91		N/A	N/A	N/A	137	113	91			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	
TIAA-CREF LIFECYCLE INDEX 2015 FUND (TLFAX)^[6]	\$796.00	18	5.35%	7.64%	6.10%	N/A	-3.91%	-3.01%	-1.59%	0.21%	4.94%	4.76%	N/A	6.76%	9/30/2009	
Gross Expense Ratio		31														12/4/2015
BM: Lifecycle Index 2015 Composite Benchmark			5.47%	7.80%	6.31%		-3.91%	-2.95%	-1.59%	0.29%	5.03%	4.94%			7.08%	
Fund vs. Lifecycle Index 2015 Composite Benchmark			-12	-16	-21		0	-6	0	-8	-9	-18			-32	
BM: S&P Target Date 2015 Index			5.09%	7.42%	5.85%		-3.79%	-3.03%	-1.70%	0.14%	4.78%	4.55%			6.56%	
Fund vs. S&P Target Date 2015 Index			26	22	25		-12	2	11	7	16	21			20	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%			2.93%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			657	633	394		-312	-222	79	226	390	293			383	
PG: Target-Date 2015 M*star Category			4.24%	7.04%	5.34%		N/A	N/A	N/A	-0.46%	4.48%	4.08%			N/A	
Fund vs. Target-Date 2015 M*star Category			111	60	76		N/A	N/A	N/A	67	46	68			N/A	
PG: Fund % Rank in Target-Date 2015 M*star Category			10%	26%	15%		N/A	N/A	N/A	11%	25%	15%			N/A	
PG: # of funds in Target-Date 2015 M*star Category			139	111	77		N/A	N/A	N/A	136	110	77			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	
TIAA-CREF LIFECYCLE INDEX 2020 FUND (TLWHX)^[7]	\$1,877.10	18	6.07%	8.53%	6.68%	N/A	-4.28%	-3.32%	-1.63%	0.31%	5.46%	5.18%	N/A	7.33%	9/30/2009	
Gross Expense Ratio		29														12/4/2015
BM: Lifecycle Index 2020 Composite Benchmark			6.30%	8.75%	6.93%		-4.34%	-3.27%	-1.62%	0.49%	5.59%	5.40%			7.66%	
Fund vs. Lifecycle Index 2020 Composite Benchmark			-23	-22	-25		6	-5	-1	-18	-13	-22			-33	
BM: S&P Target Date 2020 Index			5.78%	8.36%	6.49%		-4.19%	-3.37%	-1.80%	0.25%	5.35%	5.04%			7.24%	
Fund vs. S&P Target Date 2020 Index			29	17	19		-9	5	17	6	11	14			9	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%			13.17%	
Fund vs. Russell 3000 Index			-1151	-854	-678		308	63	-406	-629	-581	-563			-584	
PG: Target-Date 2020 M*star Category			4.70%	7.51%	5.59%		N/A	N/A	N/A	-0.60%	4.69%	4.22%			N/A	
Fund vs. Target-Date 2020 M*star Category			137	102	109		N/A	N/A	N/A	91	77	96			N/A	
PG: Fund % Rank in Target-Date 2020 M*star Category			9%	20%	12%		N/A	N/A	N/A	12%	20%	10%			N/A	
PG: # of funds in Target-Date 2020 M*star Category			253	205	171		N/A	N/A	N/A	252	204	171			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	
TIAA-CREF LIFECYCLE INDEX 2025 FUND (TLQHX)^[7]	\$2,277.90	18	7.14%	9.65%	7.39%	N/A	-4.88%	-3.71%	-1.66%	0.56%	6.13%	5.70%	N/A	7.94%	9/30/2009	
Gross Expense Ratio		28														12/4/2015
BM: Lifecycle Index 2025 Composite Benchmark			7.36%	9.86%	7.63%		-4.90%	-3.69%	-1.66%	0.73%	6.24%	5.92%			8.26%	
Fund vs. Lifecycle Index 2025 Composite Benchmark			-22	-21	-24		2	-2	0	-17	-11	-22			-32	
BM: S&P Target Date 2025 Index			6.86%	9.45%	7.13%		-4.86%	-3.92%	-1.99%	0.38%	5.98%	5.48%			7.82%	
Fund vs. S&P Target Date 2025 Index			28	20	26		-2	21	33	18	15	22			12	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%			13.17%	
Fund vs. Russell 3000 Index			-1044	-742	-607		248	24	-409	-604	-514	-511			-523	
PG: Target-Date 2025 M*star Category			5.85%	8.80%	6.39%		N/A	N/A	N/A	-0.49%	5.43%	4.79%			N/A	
Fund vs. Target-Date 2025 M*star Category			129	85	100		N/A	N/A	N/A	105	70	91			N/A	
PG: Fund % Rank in Target-Date 2025 M*star Category			10%	24%	9%		N/A	N/A	N/A	11%	21%	10%			N/A	
PG: # of funds in Target-Date 2025 M*star Category			223	180	141		N/A	N/A	N/A	223	179	141			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	
TIAA-CREF LIFECYCLE INDEX 2030 FUND (TLHXX)^[7]	\$2,419.40	18	8.15%	10.71%	8.08%	N/A	-5.41%	-4.15%	-1.69%	0.78%	6.78%	6.21%	N/A	8.54%	9/30/2009	
Gross Expense Ratio		28														12/4/2015
BM: Lifecycle Index 2030 Composite Benchmark			8.42%	10.96%	8.34%		-5.46%	-4.10%	-1.71%	0.96%	6.89%	6.43%			8.86%	
Fund vs. Lifecycle Index 2030 Composite Benchmark			-27	-25	-26		5	-5	2	-18	-11	-22			-32	
BM: S&P Target Date 2030 Index			7.99%	10.47%	7.78%		-5.60%	-4.53%	-2.20%	0.48%	6.54%	5.91%			8.33%	
Fund vs. S&P Target Date 2030 Index			16	24	30		19	38	51	30	24	30			21	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%			13.17%	
Fund vs. Russell 3000 Index			-943	-636	-538		195	-20	-412	-582	-449	-460			-463	
PG: Target-Date 2030 M*star Category			6.89%	9.88%	7.06%		N/A	N/A	N/A	-0.44%	6.02%	5.25%			N/A	
Fund vs. Target-Date 2030 M*star Category			126	83	102		N/A	N/A	N/A	122	76	96			N/A	
PG: Fund % Rank in Target-Date 2030 M*star Category			12%	20%	12%		N/A	N/A	N/A	11%	18%	11%			N/A	
PG: # of funds in Target-Date 2030 M*star Category			242	195	161		N/A	N/A	N/A	241	194	161			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
ADVISOR SHARE CLASS

FOR PERIOD ENDING October 31, 2018
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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception		
TIAA-CREF LIFECYCLE INDEX 2035 FUND (TLYHX)^[7]	\$2,216.50	18	9.31%	11.88%	8.78%	N/A	-5.99%	-4.56%	-1.67%	1.09%	7.48%	6.71%	N/A	9.13%	9/30/2009	
Gross Expense Ratio		27													12/4/2015	
BM: Lifecycle Index 2035 Composite Benchmark			9.51%	12.06%	9.00%		-6.02%	-4.51%	-1.73%	1.21%	7.52%	6.90%		9.44%		
Fund vs. Lifecycle Index 2035 Composite Benchmark			-20	-18	-22		3	-5	6	-12	-4	-19		-31		
BM: S&P Target Date 2035 Index			8.99%	11.44%	8.39%		-6.25%	-5.08%	-2.41%	0.54%	7.08%	6.31%		8.78%		
Fund vs. S&P Target Date 2035 Index			32	44	39		26	52	74	55	40	40		35		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%		
Fund vs. Russell 3000 Index			-827	-519	-468		137	-61	-410	-51	-379	-410		-404		
PG: Target-Date 2035 M*star Category			8.03%	11.01%	7.74%		N/A	N/A	N/A	-0.23%	6.65%	5.71%		N/A		
Fund vs. Target-Date 2035 M*star Category			128	87	104		N/A	N/A	N/A	132	83	100		N/A		
PG: Fund % Rank in Target-Date 2035 M*star Category			14%	19%	12%		N/A	N/A	N/A	7%	14%	10%		N/A		
PG: # of funds in Target-Date 2035 M*star Category			218	175	136		N/A	N/A	N/A	215	174	136		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE INDEX 2040 FUND (TLZHX)^[7]	\$2,377.20	18	10.42%	12.96%	9.39%	N/A	-6.54%	-4.94%	-1.67%	1.30%	8.10%	7.15%	N/A	9.52%	9/30/2009	
Gross Expense Ratio		27													12/4/2015	
BM: Lifecycle Index 2040 Composite Benchmark			10.65%	13.17%	9.62%		-6.57%	-4.91%	-1.71%	1.50%	8.16%	7.35%		9.83%		
Fund vs. Lifecycle Index 2040 Composite Benchmark			-23	-21	-23		3	-3	4	-20	-6	-20		-31		
BM: S&P Target Date 2040 Index			9.68%	12.11%	8.79%		-6.66%	-5.44%	-2.53%	0.62%	6.65%	6.59%		9.09%		
Fund vs. S&P Target Date 2040 Index			74	85	60		12	50	86	68	64	56		43		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%		
Fund vs. Russell 3000 Index			-716	-411	-407		82	-99	-410	-530	-317	-366		-365		
PG: Target-Date 2040 M*star Category			8.60%	11.56%	8.07%		N/A	N/A	N/A	-0.34%	6.92%	5.92%		N/A		
Fund vs. Target-Date 2040 M*star Category			182	140	132		N/A	N/A	N/A	164	118	123		N/A		
PG: Fund % Rank in Target-Date 2040 M*star Category			8%	11%	4%		N/A	N/A	N/A	5%	4%	3%		N/A		
PG: # of funds in Target-Date 2040 M*star Category			242	195	161		N/A	N/A	N/A	241	194	161		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE INDEX 2045 FUND (TLMHX)^[7]	\$1,524.40	18	10.99%	13.44%	9.66%	N/A	-6.87%	-5.24%	-1.76%	1.37%	8.42%	7.33%	N/A	9.62%	9/30/2009	
Gross Expense Ratio		28													12/4/2015	
BM: Lifecycle Index 2045 Composite Benchmark			11.33%	13.69%	9.92%		-6.95%	-5.19%	-1.74%	1.62%	8.50%	7.55%		9.95%		
Fund vs. Lifecycle Index 2045 Composite Benchmark			-34	-25	-26		8	-5	-2	-25	-8	-22		-33		
BM: S&P Target Date 2045 Index			9.98%	12.54%	9.05%		-6.88%	-5.65%	-2.65%	0.59%	7.70%	6.76%		9.30%		
Fund vs. S&P Target Date 2045 Index			101	90	61		1	41	89	78	72	57		32		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%		
Fund vs. Russell 3000 Index			-659	-363	-380		49	-129	-419	-523	-285	-348		-355		
PG: Target-Date 2045 M*star Category			9.22%	12.14%	8.42%		N/A	N/A	N/A	-0.19%	7.23%	6.15%		N/A		
Fund vs. Target-Date 2045 M*star Category			177	130	124		N/A	N/A	N/A	156	119	118		N/A		
PG: Fund % Rank in Target-Date 2045 M*star Category			8%	4%	4%		N/A	N/A	N/A	8%	2%	3%		N/A		
PG: # of funds in Target-Date 2045 M*star Category			218	175	136		N/A	N/A	N/A	215	174	136		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE INDEX 2050 FUND (TLLHX)^[7]	\$1,113.50	18	11.26%	13.64%	9.77%	N/A	-6.97%	-5.27%	-1.70%	1.50%	8.55%	7.43%	N/A	9.67%	9/30/2009	
Gross Expense Ratio		28													12/4/2015	
BM: Lifecycle Index 2050 Composite Benchmark			11.51%	13.87%	10.03%		-7.04%	-5.26%	-1.74%	1.66%	8.64%	7.64%		9.99%		
Fund vs. Lifecycle Index 2050 Composite Benchmark			-25	-23	-26		7	-1	4	-16	-9	-21		-32		
BM: S&P Target Date 2050 Index			10.26%	12.92%	9.29%		-7.05%	-5.81%	-2.71%	0.62%	7.93%	6.94%		9.47%		
Fund vs. S&P Target Date 2050 Index			100	72	48		8	54	101	88	62	49		20		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%		
Fund vs. Russell 3000 Index			-632	-343	-369		39	-132	-413	-510	-272	-338		-350		
PG: Target-Date 2050 M*star Category			9.23%	12.16%	8.45%		N/A	N/A	N/A	-0.40%	7.22%	6.16%		N/A		
Fund vs. Target-Date 2050 M*star Category			203	148	132		N/A	N/A	N/A	190	133	127		N/A		
PG: Fund % Rank in Target-Date 2050 M*star Category			6%	4%	4%		N/A	N/A	N/A	6%	2%	3%		N/A		
PG: # of funds in Target-Date 2050 M*star Category			238	190	156		N/A	N/A	N/A	237	189	156		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE INDEX 2055 FUND (TTIHX)^[7]	\$429.40	18	11.48%	13.87%	9.89%	N/A	-7.05%	-5.31%	-1.63%	1.59%	8.75%	7.52%	N/A	8.18%	4/29/2011	
Gross Expense Ratio		31													12/4/2015	
BM: Lifecycle Index 2055 Composite Benchmark			11.69%	14.06%	10.13%		-7.12%	-5.32%	-1.74%	1.71%	8.79%	7.72%		8.45%		
Fund vs. Lifecycle Index 2055 Composite Benchmark			-21	-19	-24		7	1	11	-12	-4	-20		-27		
BM: S&P Target Date 2055 Index			10.32%	13.13%	9.42%		-7.08%	-5.84%	-2.72%	0.62%	8.06%	7.04%		7.77%		
Fund vs. S&P Target Date 2055 Index			116	74	47		3	53	109	97	69	48		41		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		11.53%		
Fund vs. Russell 3000 Index			-610	-320	-357		31	-136	-406	-501	-252	-329		-335		
PG: Target-Date 2055 M*star Category			9.51%	12.41%	8.71%		N/A	N/A	N/A	-0.20%	7.38%	6.36%		N/A		
Fund vs. Target-Date 2055 M*star Category			197	146	118		N/A	N/A	N/A	179	137	116		N/A		
PG: Fund % Rank in Target-Date 2055 M*star Category			8%	3%	4%		N/A	N/A	N/A	6%	2%	3%		N/A		
PG: # of funds in Target-Date 2055 M*star Category			218	173	112		N/A	N/A	N/A	218	172	112		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE INDEX 2060 FUND (TVIHX)^[7]	\$103.50	18	11.72%	14.04%	N/A	N/A	-7.14%	-5.39%	-1.63%	1.70%	8.88%	N/A	N/A	7.09%	9/26/2014	
Gross Expense Ratio		54													12/4/2015	
BM: Lifecycle Index 2060 Composite Benchmark			11.87%	14.24%			-7.21%	-5.38%	-1.74%	1.75%	8.93%			7.27%		
Fund vs. Lifecycle Index 2060 Composite Benchmark			-15	-20			7	-1	11	-5	-5			-18		
BM: S&P Target Date 2060+ Index			10.60%	13.34%			-7.11%	-5.82%	-2.60%	0.80%	8.22%			6.67%		
Fund vs. S&P Target Date 2060+ Index			112	70			-3	43	97	90	66			42		
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%			9.86%		
Fund vs. Russell 3000 Index			-586	-303			22	-144	-406	-490	-239			-277		
PG: Target-Date 2060+ M*star Category			9.74%	12.66%			N/A	N/A	N/A	-0.16%	7.60%			N/A		
Fund vs. Target-Date 2060+ M*star Category			198	138			N/A	N/A	N/A	186	128			N/A		
PG: Fund % Rank in Target-Date 2060+ M*star Category			6%	4%			N/A	N/A	N/A	7%	1%			N/A		
PG: # of funds in Target-Date 2060+ M*star Category			190	76			N/A	N/A	N/A	189	75			N/A		
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****			N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
ADVISOR SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception		
TIAA-CREF LIFECYCLE INDEX RETIREMENT INCOME FUND (TLHX)^[8]	\$304.50	18	4.49%	6.51%	5.26%	N/A	-3.41%	-2.68%	-1.42%	0.08%	4.26%	4.12%	N/A	5.82%	9/30/2009	
Gross Expense Ratio		38													12/4/2015	
BM: Lifecycle Index Retirement Income Composite Benchmark			4.54%	6.67%	5.48%		-3.42%	-2.60%	-1.55%	0.07%	4.35%	4.31%		6.15%		
Fund vs. Lifecycle Index Retirement Income Composite Benchmark			-5	-16	-22		1	-8	13	1	-9	-19		-33		
BM: S&P Target Date Retirement Income Index			3.71%	5.35%	4.37%		-2.92%	-2.36%	-1.52%	-0.07%	3.53%	3.42%		4.96%		
Fund vs. S&P Target Date Retirement Income Index			78	116	89		-49	-32	10	15	73	70		86		
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		2.93%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			571	520	310		-262	-189	96	213	322	229		289		
PG: Target-Date Retirement M*star Category			2.74%	5.19%	3.98%		N/A	N/A	N/A	-0.89%	3.34%	3.03%		N/A		
Fund vs. Target-Date Retirement M*star Category			175	132	128		N/A	N/A	N/A	97	92	109		N/A		
PG: Fund % Rank in Target-Date Retirement M*star Category			7%	14%	5%		N/A	N/A	N/A	7%	13%	3%		N/A		
PG: # of funds in Target-Date Retirement M*star Category			189	164	137		N/A	N/A	N/A	189	163	137		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFECYCLE RETIREMENT INCOME FUND (TLRH)^[8]	\$530.00	45	4.26%	7.11%	5.51%	6.40%	-3.58%	-3.08%	-1.97%	-0.50%	4.69%	4.27%	7.04%	4.43%	11/30/2007	
Gross Expense Ratio		60													12/4/2015	
BM: Lifecycle Retirement Income Fund Composite Index			4.54%	6.68%	5.37%	6.34%	-3.45%	-2.63%	-1.59%	0.06%	4.36%	4.21%	6.92%	4.59%		
Fund vs. Lifecycle Retirement Income Fund Composite Index			-28	43	14	6	-13	-45	-38	-56	33	6	12	-16		
BM: S&P Target Date Retirement Income Index			3.71%	5.35%	4.37%	5.10%	-2.92%	-2.36%	-1.52%	-0.07%	3.53%	3.42%	5.73%	3.57%		
Fund vs. S&P Target Date Retirement Income Index			55	176	114	130	-66	-72	-45	-43	116	85	131	86		
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.46%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			548	580	335	263	-279	-229	41	155	365	244	310	97		
PG: Target-Date Retirement M*star Category			2.74%	5.19%	3.98%	5.19%	N/A	N/A	N/A	-0.89%	3.34%	3.03%	5.89%	N/A		
Fund vs. Target-Date Retirement M*star Category			152	192	153	121	N/A	N/A	N/A	39	135	124	115	N/A		
PG: Fund % Rank in Target-Date Retirement M*star Category			9%	4%	2%	3%	N/A	N/A	N/A	30%	5%	2%	4%	N/A		
PG: # of funds in Target-Date Retirement M*star Category			189	164	137	93	N/A	N/A	N/A	189	163	137	94	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFESTYLE AGGRESSIVE GROWTH FUND (TSAHX)^[8]	\$111.30	63	11.53%	14.46%	10.32%	N/A	-8.96%	-7.75%	-3.86%	-0.66%	8.35%	7.38%	N/A	11.24%	12/9/2011	
Gross Expense Ratio		83													12/4/2015	
BM: Lifestyle Aggressive Composite Benchmark			12.68%	14.99%	10.66%		-7.66%	-5.76%	-1.85%	1.92%	9.22%	8.04%		11.37%		
Fund vs. Lifestyle Aggressive Composite Benchmark			-115	-53	-34		-130	-199	-201	-258	-87	-66		-13		
BM: Morningstar Aggressive Target Risk TR USD			10.40%	13.86%	9.26%		-7.19%	-6.07%	-3.11%	0.53%	8.66%	6.88%		10.10%		
Fund vs. Morningstar Aggressive Target Risk TR USD			113	60	106		-177	-168	-75	-119	-31	50		114		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%		
Fund vs. Russell 3000 Index			-605	-261	-314		-160	-380	-629	-726	-292	-343		-273		
PG: Allocation-85%+ Equity M*star Category			10.08%	12.40%	8.72%		N/A	N/A	N/A	0.21%	7.18%	6.25%		N/A		
Fund vs. Allocation-85%+ Equity M*star Category			145	206	160		N/A	N/A	N/A	-87	117	113		N/A		
PG: Fund % Rank in Allocation-85%+ Equity M*star Category			27%	6%	12%		N/A	N/A	N/A	65%	13%	16%		N/A		
PG: # of funds in Allocation-85%+ Equity M*star Category			196	176	151		N/A	N/A	N/A	195	174	149		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE CONSERVATIVE FUND (TLSHX)^[8]	\$225.00	54	4.27%	6.98%	5.61%	N/A	-4.03%	-3.56%	-2.39%	-0.96%	4.44%	4.28%	N/A	6.06%	12/9/2011	
Gross Expense Ratio		64													12/4/2015	
BM: Lifestyle Conservative Composite Benchmark			4.52%	6.58%	5.33%		-3.36%	-2.51%	-1.44%	0.16%	4.31%	4.20%		5.54%		
Fund vs. Lifestyle Conservative Composite Benchmark			-25	40	28		-67	-105	-95	-112	13	8		52		
BM: Morningstar Moderately Conservative Target Risk TR USD			3.91%	6.69%	4.96%		-3.34%	-2.78%	-2.11%	-0.42%	4.51%	3.85%		5.33%		
Fund vs. Morningstar Moderately Conservative Target Risk TR USD			36	29	65		-69	-78	-28	-54	-7	43		73		
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.88%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			549	567	345		-324	-277	-1	109	340	245		418		
PG: Allocation-30% to 50% Equity M*star Category			3.30%	6.30%	4.74%		N/A	N/A	N/A	-1.08%	3.81%	3.37%		N/A		
Fund vs. Allocation-30% to 50% Equity M*star Category			97	68	87		N/A	N/A	N/A	12	63	91		N/A		
PG: Fund % Rank in Allocation-30% to 50% Equity M*star Category			28%	25%	17%		N/A	N/A	N/A	50%	27%	18%		N/A		
PG: # of funds in Allocation-30% to 50% Equity M*star Category			508	439	355		N/A	N/A	N/A	532	460	368		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE GROWTH FUND (TSGHX)^[8]	\$159.30	59	8.94%	12.07%	8.89%	N/A	-7.42%	-6.44%	-3.54%	-0.89%	7.15%	6.47%	N/A	9.67%	12/9/2011	
Gross Expense Ratio		74													12/4/2015	
BM: Lifestyle Growth Composite Benchmark			9.83%	12.21%	8.99%		-6.29%	-4.74%	-1.86%	1.22%	7.62%	6.87%		9.51%		
Fund vs. Lifestyle Growth Composite Benchmark			-89	-14	-10		-113	-170	-168	-211	-47	-40		16		
BM: Morningstar Moderately Aggressive Target Risk TR USD			8.32%	11.76%	8.03%		-6.13%	-5.19%	-3.08%	0.04%	7.46%	6.01%		8.77%		
Fund vs. Morningstar Moderately Aggressive Target Risk TR USD			62	31	86		-129	-125	-46	-93	-31	46		90		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%		
Fund vs. Russell 3000 Index			-864	-500	-457		-6	-249	-597	-749	-412	-434		-430		
PG: Allocation-70% to 85% Equity M*star Category			8.52%	10.41%	7.54%		N/A	N/A	N/A	0.04%	6.17%	5.48%		N/A		
Fund vs. Allocation-70% to 85% Equity M*star Category			42	166	135		N/A	N/A	N/A	-93	98	99		N/A		
PG: Fund % Rank in Allocation-70% to 85% Equity M*star Category			41%	20%	20%		N/A	N/A	N/A	70%	30%	25%		N/A		
PG: # of funds in Allocation-70% to 85% Equity M*star Category			359	323	279		N/A	N/A	N/A	351	315	270		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE INCOME FUND (TSIH)^[8]	\$72.00	50	2.20%	4.38%	3.79%	N/A	-2.26%	-1.92%	-1.43%	-0.73%	3.01%	2.99%	N/A	4.05%	12/9/2011	
Gross Expense Ratio		76													12/4/2015	
BM: Lifestyle Income Composite Benchmark			2.07%	3.76%	3.35%		-1.80%	-1.29%	-1.02%	-0.21%	2.60%	2.71%		3.44%		
Fund vs. Lifestyle Income Composite Benchmark			13	62	44		-46	-63	-41	-52	41	28		61		
BM: Morningstar Conservative Target Risk TR USD			1.46%	3.96%	3.07%		-1.94%	-1.69%	-1.90%	-0.93%	2.81%	2.42%		3.28%		
Fund vs. Morningstar Conservative Target Risk TR USD			74	42	72		-32	-23	47	20	20	57		77		
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.88%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			342	307	163		-147	-113	95	132	197	116		217		
PG: Allocation-15% to 30% Equity M*star Category			1.46%	4.21%	3.14%		N/A	N/A	N/A	-1.35%	2.70%	2.40%		N/A		
Fund vs. Allocation-15% to 30% Equity M*star Category			74	17	65		N/A	N/A	N/A	62	31	59		N/A		
PG: Fund % Rank in Allocation-15% to 30% Equity M*star Category			40%	49%	30%		N/A	N/A	N/A	47%	40%	30%		N/A		
PG: # of funds in Allocation-15% to 30% Equity M*star Category			207	182	149		N/A	N/A	N/A	194	171	145		N/A		
Fund Star Rating			N/A	***	****		N/A	N/A	N/A	N/A	***	****		N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
ADVISOR SHARE CLASS

FOR PERIOD ENDING October 31, 2018
 PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception		
TIAA-CREF LIFESTYLE MODERATE FUND (TSMHX) ^[9]	\$339.70	57	6.39%	9.59%	7.42%	N/A	-5.84%	-5.18%	-3.20%	-1.16%	5.80%	5.51%	N/A	8.06%	12/9/2011	
Gross Expense Ratio		65													12/4/2015	
BM: Lifestyle Moderate Composite Benchmark			7.01%	9.45%	7.31%		-4.91%	-3.74%	-1.92%	0.47%	6.00%	5.66%		7.63%		
Fund vs. Lifestyle Moderate Composite Benchmark			-62	14	11		-93	-144	-128	-163	-20	-15		43		
BM: Morningstar Moderate Target Risk TR USD			6.02%	9.19%	6.51%		-4.71%	-3.98%	-2.61%	-0.22%	5.99%	4.96%		7.08%		
Fund vs. Morningstar Moderate Target Risk TR USD			37	40	91		-113	-120	-59	-94	-19	55		98		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%		
Fund vs. Russell 3000 Index			-1119	-748	-604		152	-123	-563	-776	-547	-530		-591		
PG: Allocation-50% to 70% Equity M*star Category			6.75%	8.80%	6.67%		N/A	N/A	N/A	0.34%	5.42%	5.03%		N/A		
Fund vs. Allocation-50% to 70% Equity M*star Category			-36	79	75		N/A	N/A	N/A	-150	38	48		N/A		
PG: # of funds in Allocation-50% to 70% Equity M*star Category			54%	31%	33%		N/A	N/A	N/A	77%	40%	38%		N/A		
Fund Star Rating			771	703	619		N/A	N/A	N/A	773	702	620		N/A		
			N/A	****	****		N/A	N/A	N/A	N/A	***	***		N/A		
TIAA-CREF MONEY MARKET FUND (TMHXX) ^[10,3,5]	\$1,057.00	23	1.42%	0.74%	0.44%	0.35%	0.17%	0.47%	1.37%	1.54%	0.79%	0.48%	0.35%	1.88%	7/1/1999	
Gross Expense Ratio		23													12/4/2015	
BM: iMoneyNet Money Fund Averages-TM-All Government			1.13%	0.50%	0.30%	0.18%	0.15%	0.41%	1.10%	1.22%	0.55%	0.33%	0.19%	1.50%		
Fund vs. iMoneyNet Money Fund Averages-TM-All Government			29	24	14	17	2	6	27	32	24	15	16	38		
7-Day Effective Yield as of 10/31/2018: 1.93%																
7-Day Current Yield as of 10/31/2018: 1.93%																

MUTUAL FUND TOTALS^[11] **\$132,828.10**

BM = Benchmark; PG = Peer Group; % Rank within Morningstar Category: 1 = Best 100 = Worst; Morningstar Category Returns are equal-weighted.

Where a product lists two inception dates, the top date reflects the inception date of the product's oldest share class, and the bottom date represents the date of inception for the Share Class being reported. Performance shown for the Since Inception period and prior to the inception of the Advisor Class is based on the performance of the fund's Institutional Class. Performance has not been restated to reflect the higher expenses of the Advisor Class. If the expense differential had been reflected, performance for these periods would have been lower.

- [1] Combined Mutual Funds' Net Assets exclude the Managed Allocation Fund, Lifecycle Funds, and Lifestyle Funds.
- [2] The net expense ratio (top number) represents expenses after reimbursement and waivers, and is what participants actually pay. The number below represents the gross expense ratio, before consideration for reimbursements and/or waivers.
- [3] The "Since Inception" benchmark performance shown is computed from August 1999.
- [4] The "Since Inception" values presented are cumulative values and not average annualized total returns.
- [5] Beginning December 5, 2015, part or all of the investment management fees of the Advisor Class of the TIAA-CREF Money Market Fund may be voluntarily waived. Without this waiver, current and effective annualized yields and total returns would be lower. This voluntary fee waiver may be discontinued at any time without notice.
- [6] The S&P Target Date Indexes represent a broadly derived consensus of asset class exposure for the respective target retirement date based on market observations acquired through an annual survey of target date fund managers. The S&P Target Date Index returns include the fees and expenses of the exchange-traded funds that comprise each respective index. Previously, the Lifecycle Active and Index 2010, 2015 and Retirement Income Funds compared their performance to the Bloomberg Barclays U.S. Aggregate Bond Index instead of the S&P Target Date Indexes shown in the chart above. The returns of the S&P Target Date Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.
- [7] The S&P Target Date Indexes represent a broadly derived consensus of asset class exposure for the respective target retirement date based on market observations acquired through an annual survey of target date fund managers. The S&P Target Date Index returns include the fees and expenses of the exchange-traded funds that comprise each respective index. Previously, the Lifecycle Active and Index 2020, 2025, 2030, 2035, 2040, 2045, 2050, 2055 and 2060 Funds compared their performance to the Russell 3000 Index instead of the S&P Target Date Indexes shown in the chart above. The returns of the S&P Target Date Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.
- [8] The Morningstar Target Risk Indexes are asset allocation indexes comprised of constituent Morningstar indexes and reflect global equity market exposure of 20%, 40%, 60%, 80% or 95% based on an asset allocation methodology from Ibbotson Associates, a Morningstar company. The returns of the Morningstar Target Risk Indexes do not reflect a deduction for fees or expenses. Previously, the Lifestyle Conservative and Lifestyle Income Funds compared their performance to the Bloomberg Barclays U.S. Aggregate Bond Index instead of the Morningstar Target Risk Indexes shown in the chart above. The returns of the Morningstar Target Risk Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure and similar risk profiles.
- [9] The Morningstar Target Risk Indexes are asset allocation indexes comprised of constituent Morningstar indexes and reflect global equity market exposure of 20%, 40%, 60%, 80% or 95% based on an asset allocation methodology from Ibbotson Associates, a Morningstar company. The returns of the Morningstar Target Risk Indexes do not reflect a deduction for fees or expenses. Previously, the Lifestyle Moderate, Growth and Aggressive, and the TIAA-CREF Managed Allocation Fund compared their performance to the Russell 3000 Index instead of the Morningstar Target Risk Indexes shown in the chart above. The returns of the Morningstar Target Risk Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure and similar risk profiles.
- [10] Effective October 1, 2016, the iMoneyNet Money Fund Averages-All Taxable peer group was changed to the iMoneyNet Money Fund Averages-All Government.
- [11] Effective August 1, 2018, the TIAA-CREF Enhanced Large-Cap Growth Index Fund's name was changed to TIAA-CREF Quant Large-Cap Growth Fund.
- [12] Effective August 1, 2018, the TIAA-CREF Enhanced Large-Cap Value Index Fund's name was changed to TIAA-CREF Quant Large-Cap Value Fund.
- [13] Effective August 1, 2018, the TIAA-CREF Small Cap Equity Fund's name was changed to TIAA-CREF Quant Small Cap Equity Fund.
- [14] Effective August 1, 2018, the TIAA-CREF Small/Mid-Cap Equity Fund's name was changed to TIAA-CREF Quant Small/Mid Cap Equity Fund.
- [15] Effective August 1, 2018, the TIAA-CREF Enhanced International Equity Index Fund's name was changed to TIAA-CREF Quant International Equity Fund.
- [16] Effective August 1, 2018, the TIAA-CREF International Small-Cap Equity Fund's name was changed to TIAA-CREF Quant International Small-Cap Equity Fund.
- [17] Effective August 1, 2018, the TIAA-CREF Tax-Exempt Bond Fund's name was changed to TIAA-CREF 5-15 Year Laddered Tax-Exempt Bond Fund.

Teachers Advisors, LLC. ("Advisors"), the Funds' investment adviser has contractually agreed to reimburse the Funds for any Total Annual Fund Operating Expenses (excluding Acquired Fund Fees and Expenses and extraordinary expenses) that exceed 0.25% of average daily net assets for the Lifecycle and 0.29% for the Lifecycle Advisor Class Funds. These expense reimbursement arrangements will continue through at least September 30, 2019 unless changed with approval of the Board of Trustees.

In addition to the expense reimbursement arrangement, Advisors has contractually agreed to waive a portion of the Fund's Management Fee equal to, on an annual basis of 0.10% for the all of the Lifecycle Funds. This waiver will remain in effect through September 30, 2019, unless changed with approval of the Board of Trustees.

The Morningstar category averages, percentile ranks and star ratings are sourced from the Morningstar Essentials files prepared for TIAA as well as from Morningstar Direct.

Under the Funds' expense reimbursement arrangements, the Funds' investment adviser, Teachers Advisors, LLC. ("Advisors"), has contractually agreed to reimburse the Funds for any Total Annual Fund Operating Expenses (excluding Acquired Fund Fees and Expenses and extraordinary expenses) that exceed the following annual rates of average daily net assets: a) 0.67% for the Growth & Income Fund; 0.75% for the International Equity Fund; 1.10% for the Emerging Markets Equity Fund; 0.67% for the Large-Cap Growth Fund; 0.67% for the Large-Cap Value Fund; 0.70% for the Mid-Cap Growth Fund; 0.70% for the Mid-Cap Value Fund; 0.68% for the Small-Cap Equity Fund; 0.24% for the Large-Cap Growth Index Fund; 0.24% for the Large-Cap Value Index Fund; 0.24% for the Equity Index Fund; 0.24% for the S&P 500 Index Fund; 0.24% for the Small-Cap Blend Index Fund; 0.30% for the International Equity Index Fund; 0.65% for the Enhanced International Equity Index Fund; 0.55% for the Enhanced Large-Cap Growth Index Fund; 0.55% for the Enhanced Large-Cap Value Index Fund; 0.40% for the Emerging Markets Equity Index Fund; 0.37% for the Social Choice Equity Fund; 0.90% of the Global Natural Resources Fund; 0.85% for the International Opportunities Fund; 0.80% for the Emerging Markets Debt Fund; b) 0.72% for the Real Estate Securities Fund; 0.50% for the Bond Fund; 0.50% for the Bond Plus Fund; 0.45% for the Short-Term Bond Fund; 0.45% for the Inflation-Linked Bond Fund; 0.55% for the High-Yield Fund; 0.50% for the Tax-Exempt Bond Fund; 0.28% for the Bond Index Fund; 0.30% for the Money Market Fund; 0.55% for the Social Choice Bond Fund; 0.27% for the Short-Term Bond Index Fund; 0.47% for the Social Choice Low Carbon Equity Fund; 0.55% for the Social Choice International Equity Index.

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
PREMIER SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mil.) 10/31/18	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Return				Avg. Annual Return								
			1 Year 10/01/17 to 09/30/18	3 Year 10/01/15 to 09/30/18	5 Year 10/01/13 to 09/30/18	10 Year 10/01/08 to 09/30/18	1 Month 10/01/18 to 10/31/18	3 Month 08/01/18 to 10/31/18	YTD 01/01/18 to 10/31/18	1 Year 11/01/17 to 10/31/18	3 Year 11/01/15 to 10/31/18	5 Year 11/01/13 to 10/31/18	10 Year 11/01/08 to 10/31/18	Since Inception 10/31/18 to Inc. Date	
U.S. Equities															
TIAA-CREF EQUITY INDEX FUND (TCEPX)^[5]	\$17,528.40	20	17.34%	16.86%	13.26%	11.83%	-7.39%	-4.02%	2.24%	6.36%	11.07%	10.61%	13.16%	5.83%	7/1/1999
Gross Expense Ratio		20													9/30/2009
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	5.98%	
Fund vs. Russell 3000 Index			-24	-21	-20	-18	-3	-7	-19	-24	-20	-20	-19	-15	
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A	
Fund vs. Large Blend M*star Category			199	169	133	99	N/A	N/A	N/A	108	134	117	102	N/A	
PG: Fund % Rank in Large Blend M*star Category			35%	25%	29%	25%	N/A	N/A	N/A	44%	29%	32%	24%	N/A	
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF GROWTH & INCOME FUND (TRGPX)^[5]	\$6,500.80	56	19.90%	17.20%	13.87%	12.29%	-9.34%	-5.35%	1.75%	5.52%	10.55%	10.68%	13.14%	6.13%	7/1/1999
Gross Expense Ratio		56													9/30/2009
BM: S&P 500 Index			17.91%	17.31%	13.95%	11.97%	-6.84%	-3.25%	3.01%	7.35%	11.52%	11.34%	13.24%	5.55%	
Fund vs. S&P 500 Index			199	-11	-8	32	-250	-210	-126	-183	-97	-66	-10	-58	
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A	
Fund vs. Large Growth M*star Category			-328	-48	-15	-31	N/A	N/A	N/A	-318	-70	-37	-59	N/A	
PG: Fund % Rank in Large Growth M*star Category			70%	59%	58%	59%	N/A	N/A	N/A	82%	64%	61%	63%	N/A	
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF LARGE-CAP GROWTH FUND (TILPX)^[5]	\$5,111.30	58	28.12%	20.12%	16.75%	14.07%	-9.91%	-4.51%	7.82%	11.11%	12.83%	13.47%	15.15%	9.70%	3/31/2006
Gross Expense Ratio		58													9/30/2009
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	9.87%	
Fund vs. Russell 1000 Growth Index			182	-43	17	-24	-97	-108	120	40	-84	4	-30	-17	
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A	
Fund vs. Large Growth M*star Category			494	244	273	147	N/A	N/A	N/A	241	158	242	142	N/A	
PG: Fund % Rank in Large Growth M*star Category			20%	21%	13%	24%	N/A	N/A	N/A	25%	26%	13%	24%	N/A	
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LARGE-CAP VALUE FUND (TRCPX)^[5]	\$6,168.60	55	6.47%	12.79%	9.22%	9.81%	-7.96%	-7.49%	-5.68%	-2.01%	6.87%	6.51%	11.08%	8.95%	10/1/2002
Gross Expense Ratio		55													9/30/2009
BM: Russell 1000 Value Index			9.45%	13.55%	10.72%	9.79%	-5.18%	-3.59%	-1.46%	3.03%	8.88%	8.61%	11.30%	9.14%	
Fund vs. Russell 1000 Value Index			-298	-76	-150	2	-278	-390	-422	-504	-201	-210	-22	-19	
PG: Large Value M*star Category			10.84%	13.45%	10.19%	9.69%	N/A	N/A	N/A	3.34%	8.69%	8.03%	11.13%	N/A	
Fund vs. Large Value M*star Category			-437	-66	-97	12	N/A	N/A	N/A	-535	-182	-152	-5	N/A	
PG: Fund % Rank in Large Value M*star Category			91%	66%	78%	47%	N/A	N/A	N/A	95%	85%	87%	53%	N/A	
PG: # of funds in Large Value M*star Category			1274	1109	948	696	N/A	N/A	N/A	1249	1089	932	678	N/A	
Fund Star Rating			N/A	**	**	***	N/A	N/A	N/A	N/A	**	**	***	N/A	
TIAA-CREF MID-CAP GROWTH FUND (TRGPX)^[5]	\$1,363.90	62	18.92%	14.52%	10.65%	12.19%	-12.32%	-7.90%	-1.20%	2.13%	7.62%	7.33%	13.52%	10.92%	10/1/2002
Gross Expense Ratio		62													9/30/2009
BM: Russell Mid Cap Growth Index			21.10%	16.65%	13.00%	13.46%	-9.90%	-5.11%	2.16%	6.14%	10.39%	10.10%	15.10%	11.71%	
Fund vs. Russell Mid Cap Growth Index			-218	-213	-235	-127	-242	-279	-336	-401	-277	-277	-158	-79	
PG: Mid-Cap Growth M*star Category			20.31%	15.81%	11.68%	11.97%	N/A	N/A	N/A	5.13%	9.74%	8.58%	13.28%	N/A	
Fund vs. Mid-Cap Growth M*star Category			-139	-129	-103	22	N/A	N/A	N/A	-300	-212	-125	24	N/A	
PG: Fund % Rank in Mid-Cap Growth M*star Category			59%	63%	73%	48%	N/A	N/A	N/A	75%	78%	76%	45%	N/A	
PG: # of funds in Mid-Cap Growth M*star Category			601	540	483	342	N/A	N/A	N/A	598	537	487	341	N/A	
Fund Star Rating			N/A	***	**	***	N/A	N/A	N/A	N/A	**	**	***	N/A	
TIAA-CREF MID-CAP VALUE FUND (TRVPX)^[5]	\$3,480.50	56	7.58%	11.32%	9.26%	10.12%	-8.33%	-8.02%	-5.00%	-2.21%	6.28%	6.63%	11.76%	10.96%	10/1/2002
Gross Expense Ratio		56													9/30/2009
BM: Russell Mid Cap Value Index			8.81%	13.09%	10.72%	11.29%	-7.20%	-6.68%	-4.30%	0.16%	8.15%	8.11%	13.35%	11.10%	
Fund vs. Russell Mid Cap Value Index			-123	-177	-146	-117	-113	-134	-70	-237	-187	-148	-159	-14	
PG: Mid-Cap Value M*star Category			8.93%	12.59%	9.33%	10.41%	N/A	N/A	N/A	-0.20%	7.44%	6.70%	12.13%	N/A	
Fund vs. Mid-Cap Value M*star Category			-135	-127	-7	-29	N/A	N/A	N/A	-201	-116	-7	-37	N/A	
PG: Fund % Rank in Mid-Cap Value M*star Category			62%	71%	55%	59%	N/A	N/A	N/A	68%	70%	54%	61%	N/A	
PG: # of funds in Mid-Cap Value M*star Category			422	373	315	228	N/A	N/A	N/A	412	363	306	220	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF QUANT SMALL-CAP EQUITY FUND (TSRPX)^[12,5]	\$3,348.90	56	13.46%	16.14%	11.56%	11.51%	-10.08%	-7.95%	-1.89%	0.68%	9.81%	8.54%	12.77%	10.67%	10/1/2002
Gross Expense Ratio		56													9/30/2009
BM: Russell 2000 Index			15.24%	17.12%	11.07%	11.11%	-10.86%	-9.26%	-0.60%	1.85%	10.68%	8.01%	12.44%	10.64%	
Fund vs. Russell 2000 Index			-178	-98	49	40	78	131	-129	-117	-87	53	33	3	
PG: Small Growth M*star Category			24.44%	18.39%	11.75%	12.57%	N/A	N/A	N/A	8.31%	11.98%	8.58%	13.81%	N/A	
Fund vs. Small Growth M*star Category			-1098	-225	-19	-106	N/A	N/A	N/A	-763	-217	-4	-104	N/A	
PG: Fund % Rank in Small Growth M*star Category			90%	74%	54%	72%	N/A	N/A	N/A	90%	76%	54%	71%	N/A	
PG: # of funds in Small Growth M*star Category			702	606	532	404	N/A	N/A	N/A	677	591	516	392	N/A	
Fund Star Rating			N/A	**	***	**	N/A	N/A	N/A	N/A	**	***	**	N/A	
TIAA-CREF QUANT SMALL/MID-CAP EQUITY (TSMMX)^[13,4]	\$643.00	64	21.20%	N/A	N/A	N/A	-9.94%	-6.34%	1.97%	5.89%	N/A	N/A	N/A	12.85%	8/5/2016
Gross Expense Ratio		64													
BM: Russell 2500 Index			16.19%				-10.15%	-7.72%	-0.80%	2.80%				10.12%	
Fund vs. Russell 2500 Index			501				21	138	277	309				273	
PG: Small Blend M*star Category			12.14%				N/A	N/A	N/A	-0.07%				N/A	
Fund vs. Small Blend M*star Category			906				N/A	N/A	N/A	596				N/A	
PG: Fund % Rank in Small Blend M*star Category			3%				N/A	N/A	N/A	6%				N/A	
PG: # of funds in Small Blend M*star Category			778				N/A	N/A	N/A	784				N/A	
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A	
TIAA-CREF REAL ESTATE SECURITIES FUND (TRRPX)^[5]	\$2,049.80	66	5.66%	8.40%	9.90%	7.70%	-2.69%	-1.90%	-0.85%	1.99%	5.42%	8.46%	11.23%	10.00%	10/1/2002
Gross Expense Ratio		66													9/30/2009
BM: FTSE Nareit All Equity REITs Index			4.31%	8.97%	9.57%	7.77%	-2.65%	-2.75%	-0.91%	1.42%	5.76%	8.06%	11.65%	10.32%	
Fund vs. FTSE Nareit All Equity REITs Index			135	-57	33	-7	-4	85	6	57	-34	40	-42	-32	
PG: Real Estate M*star Category			3.39%	7.24%	8.56%	7.13%	N/A	N/A	N/A	0.37%	4.16%	7.03%	10.70%	N/A	
Fund vs. Real Estate M*star Category			227	116	134	57	N/A	N/A	N/A	162	126	143	53	N/A	
PG: Fund % Rank in Real Estate M*star Category			10%	18%	7%	31%	N/A	N/A	N/A	33%	16%	8%	30%	N/A	
PG: # of funds in Real Estate M*star Category			253												

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
PREMIER SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mil.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date	
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18			
TIAA-CREF SOCIAL CHOICE EQUITY FUND (TRPSX)^[5]	\$3,620.40	33	16.08%	16.49%	12.14%	11.16%	-7.60%	-4.59%	1.05%	5.07%	10.66%	9.49%	12.49%	5.57%	7/1/1999	
Gross Expense Ratio		33													9/30/2009	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	5.98%		
Fund vs. Russell 3000 Index			-150	-58	-132	-85	-24	-64	-138	-153	-61	-132	-86	-41		
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A		
Fund vs. Large Blend M*star Category			73	132	21	32	N/A	N/A	N/A	-21	93	5	35	N/A		
PG: Fund % Rank in Large Blend M*star Category			51%	34%	56%	48%	N/A	N/A	N/A	62%	40%	58%	46%	N/A		
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A		
Fund Star Rating			N/A	****	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF SOCIAL CHOICE LOW CARBON EQUITY FUND (TPWCX)	\$113.10	47	15.42%	16.48%	N/A	N/A	-7.72%	-4.55%	0.87%	4.46%	10.75%	N/A	N/A	9.66%	8/7/2015	
Gross Expense Ratio		47														
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%			10.33%		
Fund vs. Russell 3000 Index			-216	-59			-36	-60	-156	-214	-52			-67		
PG: Large Blend M*star Category			15.35%	15.17%			N/A	N/A	N/A	5.28%	9.73%			N/A		
Fund vs. Large Blend M*star Category			7	131			N/A	N/A	N/A	-82	102			N/A		
PG: Fund % Rank in Large Blend M*star Category			57%	34%			N/A	N/A	N/A	69%	38%			N/A		
PG: # of funds in Large Blend M*star Category			1383	1196			N/A	N/A	N/A	1412	1218			N/A		
Fund Star Rating			N/A	***			N/A	N/A	N/A	N/A	***			N/A		
International Equities																
TIAA-CREF EMERGING MARKETS EQUITY FUND (TEMPX)	\$1,411.20	107	-9.69%	10.24%	1.70%	N/A	-6.78%	-14.26%	-20.13%	-18.63%	5.55%	-0.60%	N/A	1.18%	8/31/2010	
Gross Expense Ratio		107														
BM: MS Emerging Market			-0.81%	12.36%	3.61%		-8.71%	-11.65%	-15.72%	-12.52%	6.52%	0.78%		2.25%		
Fund vs. MS Emerging Market			-888	-212	-191		193	-261	-441	-611	-97	-138		-107		
PG: Diversified Emerging Mkts M*star Category			-3.63%	10.09%	2.54%		N/A	N/A	N/A	-13.34%	4.90%	0.01%		N/A		
Fund vs. Diversified Emerging Mkts M*star Category			-606	15	-84		N/A	N/A	N/A	-529	65	-61		N/A		
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			93%	51%	73%		N/A	N/A	N/A	92%	45%	68%		N/A		
PG: # of funds in Diversified Emerging Mkts M*star Category			838	708	508		N/A	N/A	N/A	842	710	511		N/A		
Fund Star Rating			N/A	***	**		N/A	N/A	N/A	N/A	***	**		N/A		
TIAA-CREF EMERGING MARKETS EQUITY INDEX FUND (TEQPX)	\$2,403.30	36	-1.71%	11.83%	3.27%	N/A	-8.43%	-11.79%	-15.69%	-12.89%	6.35%	0.58%	N/A	1.76%	8/31/2010	
Gross Expense Ratio		36														
BM: MS Emerging Market			-0.81%	12.36%	3.61%		-8.71%	-11.65%	-15.72%	-12.52%	6.52%	0.78%		2.25%		
Fund vs. MS Emerging Market			-90	-53	-34		28	-14	3	-37	-17	-20		-49		
PG: Diversified Emerging Mkts M*star Category			-3.63%	10.09%	2.54%		N/A	N/A	N/A	-13.34%	4.90%	0.01%		N/A		
Fund vs. Diversified Emerging Mkts M*star Category			192	174	73		N/A	N/A	N/A	45	145	57		N/A		
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			32%	30%	40%		N/A	N/A	N/A	44%	29%	41%		N/A		
PG: # of funds in Diversified Emerging Mkts M*star Category			838	708	508		N/A	N/A	N/A	842	710	511		N/A		
Fund Star Rating			N/A	****	***		N/A	N/A	N/A	N/A	****	***		N/A		
TIAA-CREF INTERNATIONAL EQUITY FUND (TREPX)^[5]	\$4,412.10	64	-3.37%	7.86%	3.86%	5.33%	-8.71%	-13.30%	-15.52%	-13.20%	2.42%	1.07%	7.26%	4.36%	7/1/1999	
Gross Expense Ratio		64													9/30/2009	
BM: Morgan Stanley EAFE Index			2.74%	9.23%	4.42%	5.38%	-7.96%	-8.95%	-9.28%	-6.85%	3.62%	2.02%	6.89%	3.72%		
Fund vs. Morgan Stanley EAFE Index			-611	-137	-56	-5	-75	-435	-624	-635	-120	-95	37	64		
PG: Foreign Large Blend M*star Category			1.55%	8.71%	4.05%	4.98%	N/A	N/A	N/A	-8.26%	3.41%	1.62%	6.50%	N/A		
Fund vs. Foreign Large Blend M*star Category			-492	-85	-19	35	N/A	N/A	N/A	-494	-99	-55	76	N/A		
PG: Fund % Rank in Foreign Large Blend M*star Category			96%	75%	59%	35%	N/A	N/A	N/A	97%	77%	73%	25%	N/A		
PG: # of funds in Foreign Large Blend M*star Category			783	655	535	379	N/A	N/A	N/A	763	642	523	387	N/A		
Fund Star Rating			N/A	**	**	***	N/A	N/A	N/A	N/A	**	**	***	N/A		
TIAA-CREF INTERNATIONAL EQUITY INDEX FUND (TRIPX)^[5]	\$1,343.80	21	2.50%	9.01%	4.38%	5.20%	-7.94%	-9.13%	-9.04%	-7.18%	3.78%	2.02%	6.75%	7.25%	10/1/2002	
Gross Expense Ratio		21													9/30/2009	
BM: Morgan Stanley EAFE Index			2.74%	9.23%	4.42%	5.38%	-7.96%	-8.95%	-9.28%	-6.85%	3.62%	2.02%	6.89%	7.30%		
Fund vs. Morgan Stanley EAFE Index			-24	-22	-4	-18	2	-18	24	-33	16	0	-14	-5		
PG: Foreign Large Blend M*star Category			1.55%	8.71%	4.05%	4.98%	N/A	N/A	N/A	-8.26%	3.41%	1.62%	6.50%	N/A		
Fund vs. Foreign Large Blend M*star Category			95	30	33	22	N/A	N/A	N/A	108	37	40	25	N/A		
PG: Fund % Rank in Foreign Large Blend M*star Category			34%	46%	39%	42%	N/A	N/A	N/A	32%	44%	37%	44%	N/A		
PG: # of funds in Foreign Large Blend M*star Category			783	655	535	379	N/A	N/A	N/A	763	642	523	387	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF INTERNATIONAL OPPORTUNITIES FUND (TIOPX)	\$1,512.50	80	6.04%	11.26%	5.99%	N/A	-11.31%	-12.15%	-10.45%	-7.17%	5.73%	2.86%	N/A	4.12%	4/12/2013	
Gross Expense Ratio		80														
BM: MSCI AC World Index ex USA			1.76%	9.97%	4.12%		-8.13%	-9.65%	-10.97%	-8.24%	4.37%	1.63%		3.10%		
Fund vs. MSCI AC World Index ex USA			428	129	187		-318	-250	52	107	136	123		102		
PG: Foreign Large Growth M*star Category			4.08%	10.28%	5.74%		N/A	N/A	N/A	-7.67%	4.35%	3.03%		N/A		
Fund vs. Foreign Large Growth M*star Category			196	98	25		N/A	N/A	N/A	50	138	-17		N/A		
PG: Fund % Rank in Foreign Large Growth M*star Category			26%	29%	34%		N/A	N/A	N/A	44%	25%	46%		N/A		
PG: # of funds in Foreign Large Growth M*star Category			426	347	313		N/A	N/A	N/A	445	358	324		N/A		
Fund Star Rating			N/A	****	***		N/A	N/A	N/A	N/A	****	***		N/A		
TIAA-CREF QUANT INTERNATIONAL SMALL-CAP EQUITY FUND (TPISX)^[14]	\$884.60	91	-4.18%	N/A	N/A	N/A	-10.11%	-13.01%	-18.36%	-15.54%	N/A	N/A	N/A	4.60%	12/9/2016	
Gross Expense Ratio		104														
BM: MSCI ACWI ex-US Small Cap Index			1.86%				-9.73%	-11.71%	-13.71%	-9.73%				7.31%		
Fund vs. MSCI ACWI ex-US Small Cap Index			-604				-38	-130	-465	-581				-271		
PG: Foreign Small/Mid Value M*star Category			-1.55%				N/A	N/A	N/A	-11.19%				N/A		
Fund vs. Foreign Small/Mid Value M*star Category			-263				N/A	N/A	N/A	-435				N/A		
PG: Fund % Rank in Foreign Small/Mid Value M*star Category			77%				N/A	N/A	N/A	93%				N/A		
PG: # of funds in Foreign Small/Mid Value M*star Category			63				N/A	N/A	N/A	61				N/A		
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
PREMIER SHARE CLASS

FOR PERIOD ENDING October 31, 2018
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FUND	Total Portfolio Net Assets (in \$Mil.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	
TIAA-CREF SOCIAL CHOICE INTERNATIONAL EQUITY FUND (TSOPX)	\$61.20	55	2.19%	9.19%	N/A	N/A	-8.33%	-8.74%	-9.31%	-7.66%	3.80%	N/A	N/A	1.96%	8/7/2015
Gross Expense Ratio							136								
BM: Morgan Stanley EAFE Index			2.74%				9.23%								
Fund vs. Morgan Stanley EAFE Index			-55				-4								
PG: Foreign Large Blend M*star Category			1.55%				8.71%								
Fund vs. Foreign Large Blend M*star Category			64				48								
PG: Fund % Rank in Foreign Large Blend M*star Category			42%				40%								
PG: # of funds in Foreign Large Blend M*star Category			783				655								
Fund Star Rating			N/A				***								
Fixed Income															
TIAA-CREF BOND FUND (TIDPX)^[5]	\$5,718.20	45	-1.26%	2.00%	2.71%	4.19%	-0.74%	-0.94%	-2.43%	-2.12%	1.64%	2.28%	4.35%	4.78%	7/1/1999
Gross Expense Ratio							45								
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%				1.31%								
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-4				69								
PG: Intermediate-Term Bond M*star Category			-1.06%				1.65%								
Fund vs. Intermediate-Term Bond M*star Category			-20				35								
PG: Fund % Rank in Intermediate-Term Bond M*star Category			51%				30%								
PG: # of funds in Intermediate-Term Bond M*star Category			1039				902								
Fund Star Rating			N/A				***								
TIAA-CREF BOND INDEX FUND (TBIPX)^[5]	\$10,409.90	27	-1.56%	0.95%	1.85%	N/A	-0.74%	-0.88%	-2.60%	-2.38%	0.70%	1.55%	N/A	2.63%	9/14/2009
Gross Expense Ratio							27								
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%				1.31%								
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-34				-36								
PG: Intermediate-Term Bond M*star Category			-1.06%				1.65%								
Fund vs. Intermediate-Term Bond M*star Category			-50				-70								
PG: Fund % Rank in Intermediate-Term Bond M*star Category			72%				79%								
PG: # of funds in Intermediate-Term Bond M*star Category			1039				902								
Fund Star Rating			N/A				**								
TIAA-CREF BOND PLUS FUND (TBPPX)^[5]	\$4,177.60	46	-0.82%	2.37%	2.90%	4.67%	-0.82%	-0.89%	-2.14%	-1.78%	1.88%	2.46%	4.93%	4.15%	3/31/2006
Gross Expense Ratio							46								
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%				1.31%								
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			40				106								
PG: Intermediate-Term Bond M*star Category			-1.06%				1.65%								
Fund vs. Intermediate-Term Bond M*star Category			24				72								
PG: Fund % Rank in Intermediate-Term Bond M*star Category			30%				17%								
PG: # of funds in Intermediate-Term Bond M*star Category			1039				902								
Fund Star Rating			N/A				***								
TIAA-CREF EMERGING MARKETS DEBT FUND (TEDFX)	\$452.70	80	-3.39%	7.41%	N/A	N/A	-2.03%	-3.46%	-6.70%	-5.72%	5.52%	N/A	N/A	3.23%	9/26/2014
Gross Expense Ratio							82								
BM: J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified			-1.92%				6.04%								
Fund vs. J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified			-147				137								
PG: Emerging Markets Bond M*star Category			-3.56%				5.59%								
Fund vs. Emerging Markets Bond M*star Category			17				182								
PG: Fund % Rank in Emerging Markets Bond M*star Category			48%				12%								
PG: # of funds in Emerging Markets Bond M*star Category			287				222								
Fund Star Rating			N/A				***								
TIAA-CREF HIGH YIELD FUND (TIHPX)^[5]	\$3,864.90	51	3.43%	7.32%	5.14%	8.45%	-1.91%	-0.49%	0.81%	1.05%	5.66%	4.12%	9.67%	6.64%	3/31/2006
Gross Expense Ratio							51								
BM: ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)			2.30%				7.34%								
Fund vs. ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)			113				-2								
PG: High Yield Bond M*star Category			2.36%				6.41%								
Fund vs. High Yield Bond M*star Category			107				91								
PG: Fund % Rank in High Yield Bond M*star Category			23%				24%								
PG: # of funds in High Yield Bond M*star Category			692				592								
Fund Star Rating			N/A				***								
TIAA-CREF INFLATION-LINKED BOND FUND (TIKFX)^[5]	\$2,985.90	41	0.06%	1.24%	0.78%	2.75%	-0.81%	-0.89%	-1.27%	-0.93%	0.88%	0.53%	3.58%	3.66%	10/1/2002
Gross Expense Ratio							41								
BM: Bloomberg Barclays US TIPS 1-10 Year Index			0.33%				1.65%								
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-27				-41								
PG: Inflation-Protected Bond M*star Category			0.42%				1.95%								
Fund vs. Inflation-Protected Bond M*star Category			-36				-71								
PG: Fund % Rank in Inflation-Protected Bond M*star Category			77%				79%								
PG: # of funds in Inflation-Protected Bond M*star Category			236				207								
Fund Star Rating			N/A				**								
TIAA-CREF INTERNATIONAL BOND FUND (TIBLX)^[4]	\$353.90	79	0.77%	N/A	N/A	N/A	-0.31%	-0.93%	-0.83%	-0.04%	N/A	N/A	N/A	0.64%	8/5/2016
Gross Expense Ratio							84								
BM: Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			2.40%				0.29%								
Fund vs. Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			-163				-106								
PG: World Bond M*star Category			-1.23%				N/A								
Fund vs. World Bond M*star Category			200				N/A								
PG: Fund % Rank in World Bond M*star Category			19%				N/A								
PG: # of funds in World Bond M*star Category			310				N/A								
Fund Star Rating			N/A				N/A								
TIAA-CREF SHORT-TERM BOND FUND (TSTPX)^[5]	\$1,805.10	42	0.63%	1.34%	1.26%	2.45%	0.01%	0.28%	0.60%	0.59%	1.33%	1.18%	2.49%	2.71%	3/31/2006
Gross Expense Ratio							42								
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			0.20%				0.73%								
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			43				61								
PG: Short-Term Bond M*star Category			0.43%				1.36%								
Fund vs. Short-Term Bond M*star Category			20				-2								
PG: Fund % Rank in Short-Term Bond M*star Category			33%				43%								
PG: # of funds in Short-Term Bond M*star Category			533				474								
Fund Star Rating			N/A				***								

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
PREMIER SHARE CLASS

FOR PERIOD ENDING October 31, 2018
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FUND	Total Portfolio Net Assets (in \$Mil.) 10/31/18	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Return				Avg. Annual Return					Avg. Annual Return			
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18		
TIAA-CREF SHORT-TERM BOND INDEX FUND (TPSHX)	\$434.90	27	-0.09%	0.37%	N/A	N/A	0.07%	0.31%	0.26%	0.08%	0.41%	N/A	N/A	0.46%	8/7/2015
Gross Expense Ratio		34													
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			0.20%	0.73%			0.11%	0.39%	0.52%	0.34%	0.77%			0.81%	
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-29	-36			-4	-8	-26	-26	-36			-35	
PG: Short-Term Bond M*star Category			0.43%	1.36%			N/A	N/A	N/A	0.32%	1.29%			N/A	
Fund vs. Short-Term Bond M*star Category			-52	-99			N/A	N/A	N/A	-24	-88			N/A	
PG: Fund % Rank in Short-Term Bond M*star Category			73%	90%			N/A	N/A	N/A	64%	89%			N/A	
PG: # of funds in Short-Term Bond M*star Category			533	474			N/A	N/A	N/A	536	472			N/A	
Fund Star Rating			N/A	**			N/A	N/A	N/A	N/A	**			N/A	
TIAA-CREF SOCIAL CHOICE BOND FUND (TSBPX)	\$2,626.80	54	-0.73%	1.80%	3.15%	N/A	-0.56%	-0.59%	-1.88%	-1.49%	1.57%	2.84%	N/A	2.41%	9/21/2012
Gross Expense Ratio		54													
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.41%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			49	49	99		23	20	50	56	53	101		100	
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%		N/A	N/A	N/A	-1.87%	1.30%	1.79%		N/A	
Fund vs. Intermediate-Term Bond M*star Category			33	15	101		N/A	N/A	N/A	38	27	105		N/A	
PG: Fund % Rank in Intermediate-Term Bond M*star Category			29%	39%	7%		N/A	N/A	N/A	26%	33%	5%		N/A	
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796		N/A	N/A	N/A	1027	887	785		N/A	
Fund Star Rating			N/A	***	*****		N/A	N/A	N/A	N/A	***	*****		N/A	
Multi-Asset															
TIAA-CREF LIFECYCLE 2010 FUND (TCTPX)^[5,7]	\$1,195.00	52	4.49%	7.41%	5.87%	6.77%	-3.81%	-3.24%	-2.07%	-0.59%	4.79%	4.51%	7.65%	5.40%	10/15/2004
Gross Expense Ratio		64													9/30/2009
BM: Lifecycle 2010 Fund Composite Index			4.84%	7.13%	5.74%	6.60%	-3.57%	-2.72%	-1.59%	0.16%	4.63%	4.50%	7.43%	5.47%	
Fund vs. Lifecycle 2010 Fund Composite Index			-35	28	13	17	-24	-52	-48	-75	16	1	22	-7	
BM: S&P Target Date 2010 Index			4.36%	6.38%	5.09%	5.84%	-3.35%	-2.67%	-1.62%	0.01%	4.15%	3.97%	6.61%	5.00%	
Fund vs. S&P Target Date 2010 Index			13	103	78	93	-46	-57	-45	-60	64	54	104	40	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.67%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			571	610	371	300	-302	-245	31	146	375	268	371	173	
PG: Target-Date 2000-2010 M*star Category			3.40%	6.33%	4.87%	5.92%	N/A	N/A	N/A	-0.63%	4.09%	3.78%	6.98%	N/A	
Fund vs. Target-Date 2000-2010 M*star Category			109	108	100	85	N/A	N/A	N/A	4	70	73	67	N/A	
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			8%	4%	4%	9%	N/A	N/A	N/A	52%	9%	7%	21%	N/A	
PG: # of funds in Target-Date 2000-2010 M*star Category			137	113	91	76	N/A	N/A	N/A	137	113	91	76	N/A	
Fund Star Rating			N/A	*****	*****	*****	N/A	N/A	N/A	N/A	*****	*****	*****	*****	
TIAA-CREF LIFECYCLE 2015 FUND (TCFPX)^[5,7]	\$1,809.50	53	4.97%	8.01%	6.31%	7.13%	-4.13%	-3.56%	-2.21%	-0.53%	5.18%	4.86%	8.12%	5.61%	10/15/2004
Gross Expense Ratio		65													9/30/2009
BM: Lifecycle 2015 Fund Composite Index			5.47%	7.82%	6.24%	6.97%	-3.94%	-2.99%	-1.65%	0.28%	5.04%	4.87%	7.92%	5.69%	
Fund vs. Lifecycle 2015 Fund Composite Index			-50	19	7	16	-19	-57	-56	-81	14	-1	20	-8	
BM: S&P Target Date 2015 Index			5.09%	7.42%	5.85%	6.53%	-3.79%	-3.03%	-1.70%	0.14%	4.78%	4.55%	7.44%	5.49%	
Fund vs. S&P Target Date 2015 Index			-12	59	46	60	-34	-53	-51	-67	40	31	68	12	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.67%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			619	670	415	336	-334	-277	17	152	414	303	418	194	
PG: Target-Date 2015 M*star Category			4.24%	7.04%	5.34%	6.40%	N/A	N/A	N/A	-0.46%	4.48%	4.08%	7.56%	N/A	
Fund vs. Target-Date 2015 M*star Category			73	97	97	73	N/A	N/A	N/A	-7	70	78	56	N/A	
PG: Fund % Rank in Target-Date 2015 M*star Category			18%	11%	11%	15%	N/A	N/A	N/A	54%	9%	15%	22%	N/A	
PG: # of funds in Target-Date 2015 M*star Category			139	111	77	49	N/A	N/A	N/A	136	110	77	49	N/A	
Fund Star Rating			N/A	****	*****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LIFECYCLE 2020 FUND (TCWPX)^[5,8]	\$3,635.80	54	5.76%	8.92%	6.92%	7.59%	-4.63%	-3.99%	-2.32%	-0.44%	5.68%	5.29%	8.71%	5.81%	10/15/2004
Gross Expense Ratio		65													9/30/2009
BM: Lifecycle 2020 Fund Composite Index			6.30%	8.77%	6.88%	7.44%	-4.37%	-3.32%	-1.68%	0.49%	5.60%	5.35%	8.52%	5.91%	
Fund vs. Lifecycle 2020 Fund Composite Index			-54	15	4	15	-26	-67	-64	-93	8	-6	19	-10	
BM: S&P Target Date 2020 Index			5.78%	8.36%	6.49%	7.09%	-4.19%	-3.37%	-1.80%	0.25%	5.35%	5.04%	8.14%	5.88%	
Fund vs. S&P Target Date 2020 Index			-2	56	43	50	-44	-62	-52	-69	33	25	57	-7	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%	
Fund vs. Russell 3000 Index			-1182	-815	-654	-442	273	-4	-475	-704	-559	-552	-464	-316	
PG: Target-Date 2020 M*star Category			4.70%	7.51%	5.59%	6.56%	N/A	N/A	N/A	-0.60%	4.69%	4.22%	7.78%	N/A	
Fund vs. Target-Date 2020 M*star Category			106	141	133	103	N/A	N/A	N/A	16	99	107	93	N/A	
PG: Fund % Rank in Target-Date 2020 M*star Category			19%	10%	3%	9%	N/A	N/A	N/A	41%	8%	10%	16%	N/A	
PG: # of funds in Target-Date 2020 M*star Category			253	205	171	107	N/A	N/A	N/A	252	204	171	108	N/A	
Fund Star Rating			N/A	****	*****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LIFECYCLE 2025 FUND (TCQPX)^[5,8]	\$4,259.40	56	6.83%	9.96%	7.61%	8.04%	-5.43%	-4.64%	-2.65%	-0.46%	6.19%	5.71%	9.24%	6.00%	10/15/2004
Gross Expense Ratio		67													9/30/2009
BM: Lifecycle 2025 Fund Composite Index			7.36%	9.87%	7.60%	7.95%	-4.94%	-3.74%	-1.73%	0.72%	6.26%	5.88%	9.12%	6.15%	
Fund vs. Lifecycle 2025 Fund Composite Index			-53	9	1	9	-49	-90	-92	-118	-7	-17	12	-15	
BM: S&P Target Date 2025 Index			6.86%	9.45%	7.13%	7.59%	-4.86%	-3.92%	-1.99%	0.38%	5.98%	5.48%	8.72%	6.22%	
Fund vs. S&P Target Date 2025 Index			-3	51	48	45	-57	-72	-66	-84	21	23	52	-22	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%	
Fund vs. Russell 3000 Index			-1075	-711	-585	-397	193	-69	-508	-706	-508	-510	-411	-297	
PG: Target-Date 2025 M*star Category			5.85%	8.80%	6.39%	7.33%	N/A	N/A	N/A	-0.49%	5.43%	4.79%	8.63%	N/A	
Fund vs. Target-Date 2025 M*star Category			98	116	122	71	N/A	N/A	N/A	3	76	92	61	N/A	
PG: Fund % Rank in Target-Date 2025 M*star Category			20%	12%	4%	19%	N/A	N/A	N/A	48%	14%	11%	26%	N/A	
PG: # of funds in Target-Date 2025 M*star Category			223	180	141	72	N/A	N/A	N/A	223	179	141	72	N/A	
Fund Star Rating			N/A	****	*****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
PREMIER SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date	
TIAA-CREF LIFECYCLE 2030 FUND (TCHPX)^[5,8]	\$4,206.50	57	7.89%	11.00%	8.25%	8.43%	-6.10%	-5.23%	-2.82%	-0.35%	6.72%	6.14%	9.75%	6.15%	10/15/2004	
Gross Expense Ratio		68													9/30/2009	
BM: Lifecycle 2030 Fund Composite Index			8.42%	10.98%	8.32%	8.42%	-5.51%	-4.16%	-1.79%	0.95%	6.91%	6.40%	9.70%	6.37%		
Fund vs. Lifecycle 2030 Fund Composite Index			-53	2	-7	1	-59	-107	-103	-130	-19	-26	5	-22		
BM: S&P Target Date 2030 Index			7.99%	10.47%	7.78%	8.02%	-5.60%	-4.53%	-2.20%	0.48%	6.54%	5.91%	9.21%	6.48%		
Fund vs. S&P Target Date 2030 Index			-10	53	47	41	-50	-70	-62	-83	18	23	54	-33		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-969	-607	-521	-358	126	-128	-525	-695	-455	-467	-360	-282		
PG: Target-Date 2030 M*star Category			6.89%	9.88%	7.06%	7.56%	N/A	N/A	N/A	-0.44%	6.02%	5.25%	8.92%	N/A		
Fund vs. Target-Date 2030 M*star Category			100	112	119	87	N/A	N/A	N/A	9	70	89	83	N/A		
PG: Fund % Rank in Target-Date 2030 M*star Category			19%	14%	8%	21%	N/A	N/A	N/A	44%	21%	16%	20%	N/A		
PG: # of funds in Target-Date 2030 M*star Category			242	195	161	97	N/A	N/A	N/A	241	194	161	98	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2035 FUND (TCYPX)^[5,8]	\$4,271.20	58	8.96%	12.05%	8.88%	8.90%	-6.84%	-5.83%	-3.05%	-0.31%	7.25%	6.53%	10.24%	6.46%	10/15/2004	
Gross Expense Ratio		69													9/30/2009	
BM: Lifecycle 2035 Fund Composite Index			9.51%	12.08%	8.98%	8.95%	-6.07%	-4.58%	-1.82%	1.20%	7.54%	6.87%	10.27%	6.73%		
Fund vs. Lifecycle 2035 Fund Composite Index			-55	-3	-10	-5	-77	-125	-123	-151	-29	-34	-3	-27		
BM: S&P Target Date 2035 Index			8.99%	11.44%	8.39%	8.39%	-6.25%	-5.08%	-2.41%	0.54%	6.02%	5.25%	9.63%	6.68%		
Fund vs. S&P Target Date 2035 Index			-3	61	49	51	-59	-75	-64	-85	17	22	61	-22		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-862	-502	-458	-311	52	-188	-548	-691	-402	-428	-311	-251		
PG: Target-Date 2035 M*star Category			8.03%	11.01%	7.74%	8.20%	N/A	N/A	N/A	-0.23%	6.65%	5.71%	9.57%	N/A		
Fund vs. Target-Date 2035 M*star Category			93	104	114	70	N/A	N/A	N/A	-8	60	82	67	N/A		
PG: Fund % Rank in Target-Date 2035 M*star Category			21%	15%	12%	20%	N/A	N/A	N/A	53%	23%	18%	21%	N/A		
PG: # of funds in Target-Date 2035 M*star Category			218	175	136	67	N/A	N/A	N/A	215	174	136	67	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2040 FUND (TCZPX)^[5,8]	\$5,156.80	59	10.02%	13.03%	9.42%	9.28%	-7.51%	-6.37%	-3.20%	-0.22%	7.76%	6.88%	10.54%	6.81%	10/15/2004	
Gross Expense Ratio		70													9/30/2009	
BM: Lifecycle 2040 Fund Composite Index			10.65%	13.19%	9.60%	9.37%	-6.62%	-4.98%	-1.80%	1.49%	8.19%	7.31%	10.63%	7.10%		
Fund vs. Lifecycle 2040 Fund Composite Index			-63	-16	-18	-9	-89	-139	-140	-171	-43	-43	-9	-29		
BM: S&P Target Date 2040 Index			9.68%	12.11%	8.79%	8.67%	-6.66%	-5.44%	-2.53%	0.62%	7.46%	6.59%	9.92%	6.85%		
Fund vs. S&P Target Date 2040 Index			34	92	63	61	-85	-93	-67	-84	30	29	62	-4		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-756	-404	-404	-273	-15	-242	-563	-682	-351	-393	-281	-216		
PG: Target-Date 2040 M*star Category			8.60%	11.56%	8.07%	8.20%	N/A	N/A	N/A	-0.34%	6.92%	5.92%	9.60%	N/A		
Fund vs. Target-Date 2040 M*star Category			142	147	135	108	N/A	N/A	N/A	12	84	96	94	N/A		
PG: Fund % Rank in Target-Date 2040 M*star Category			14%	10%	4%	15%	N/A	N/A	N/A	49%	18%	15%	19%	N/A		
PG: # of funds in Target-Date 2040 M*star Category			242	195	161	97	N/A	N/A	N/A	241	194	161	98	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2045 FUND (TTFPX)^[5,8]	\$2,767.90	60	10.68%	13.52%	9.69%	9.28%	-8.01%	-6.81%	-3.33%	-0.27%	8.04%	7.02%	10.56%	5.13%	11/30/2007	
Gross Expense Ratio		71													9/30/2009	
BM: Lifecycle 2045 Fund Composite Index			11.34%	13.72%	9.90%	9.52%	-7.00%	-5.27%	-1.84%	1.60%	8.53%	7.52%	10.74%	5.76%		
Fund vs. Lifecycle 2045 Fund Composite Index			-66	-20	-21	-24	-101	-154	-149	-187	-49	-50	-18	-63		
BM: S&P Target Date 2045 Index			9.98%	12.54%	9.05%	8.79%	-6.88%	-5.65%	-2.65%	0.59%	7.70%	6.76%	10.08%	5.16%		
Fund vs. S&P Target Date 2045 Index			70	98	64	49	-113	-116	-68	-86	34	26	48	-3		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.03%		
Fund vs. Russell 3000 Index			-690	-355	-377	-273	-65	-286	-576	-687	-323	-379	-279	-290		
PG: Target-Date 2045 M*star Category			9.22%	12.14%	8.42%	8.54%	N/A	N/A	N/A	-0.19%	7.23%	6.15%	9.95%	N/A		
Fund vs. Target-Date 2045 M*star Category			146	138	127	74	N/A	N/A	N/A	-8	81	87	61	N/A		
PG: Fund % Rank in Target-Date 2045 M*star Category			13%	3%	4%	15%	N/A	N/A	N/A	55%	8%	11%	17%	N/A		
PG: # of funds in Target-Date 2045 M*star Category			218	175	136	66	N/A	N/A	N/A	215	174	136	66	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2050 FUND (TCLPX)^[5,8]	\$1,831.70	60	10.80%	13.67%	9.78%	9.20%	-8.03%	-6.84%	-3.31%	-0.19%	8.17%	7.12%	10.51%	5.14%	11/30/2007	
Gross Expense Ratio		72													9/30/2009	
BM: Lifecycle 2050 Fund Composite Index			11.51%	13.90%	10.00%	9.57%	-7.09%	-5.33%	-1.84%	1.65%	8.67%	7.60%	10.78%	5.80%		
Fund vs. Lifecycle 2050 Fund Composite Index			-71	-23	-22	-37	-94	-151	-147	-184	-50	-48	-27	-66		
BM: S&P Target Date 2050 Index			10.26%	12.92%	9.29%	8.96%	-7.05%	-5.81%	-2.71%	0.62%	7.93%	6.94%	10.24%	5.30%		
Fund vs. S&P Target Date 2050 Index			54	75	49	24	-98	-103	-60	-81	24	18	27	-16		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.03%		
Fund vs. Russell 3000 Index			-678	-340	-368	-281	-67	-289	-574	-679	-310	-369	-284	-289		
PG: Target-Date 2050 M*star Category			9.23%	12.16%	8.45%	8.38%	N/A	N/A	N/A	-0.40%	7.22%	6.16%	9.77%	N/A		
Fund vs. Target-Date 2050 M*star Category			157	151	133	82	N/A	N/A	N/A	21	95	96	74	N/A		
PG: Fund % Rank in Target-Date 2050 M*star Category			14%	3%	4%	22%	N/A	N/A	N/A	45%	6%	8%	16%	N/A		
PG: # of funds in Target-Date 2050 M*star Category			238	190	156	74	N/A	N/A	N/A	237	189	156	75	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2055 FUND (TTRPX)^[9]	\$592.20	60	10.93%	13.83%	9.86%	N/A	-8.13%	-6.90%	-3.41%	-0.22%	8.26%	7.17%	N/A	7.92%	4/29/2011	
Gross Expense Ratio		74														
BM: Lifecycle 2055 Fund Composite Index			11.69%	14.09%	10.11%		-7.18%	-5.40%	-1.84%	1.69%	8.81%	7.69%		8.42%		
Fund vs. Lifecycle 2055 Fund Composite Index			-76	-26	-25		-95	-150	-157	-191	-55	-52		-50		
BM: S&P Target Date 2055 Index			10.32%	13.13%	9.42%		-7.08%	-5.84%	-2.72%	0.62%	8.06%	7.04%		7.77%		
Fund vs. S&P Target Date 2055 Index			61	70	44		-105	-106	-69	-84	20	13		15		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		11.53%		
Fund vs. Russell 3000 Index			-665	-324	-360		-77	-295	-584	-682	-301	-364		-361		
PG: Target-Date 2055 M*star Category			9.51%	12.41%	8.71%		N/A	N/A	N/A	-0.20%	7.38%	6.36%		N/A		
Fund vs. Target-Date 2055 M*star Category			142	142	115		N/A	N/A	N/A	-2	88	81		N/A		
PG: Fund % Rank in Target-Date 2055 M*star Category			14%	4%	6%		N/A	N/A	N/A	53%	6%	9%		N/A		
PG: # of funds in Target-Date 2055 M*star Category			218	173	112		N/A	N/A	N/A	218	172	112		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
PREMIER SHARE CLASS

FOR PERIOD ENDING October 31, 2018
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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns					Since Inception to 10/31/18	Inc. Date		
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year			5 Year	10 Year
10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18					
TIAA-CREF LIFECYCLE 2060 FUND (TLXPX)^[8]	\$107.80	60	11.12%	13.95%	N/A	N/A	-8.22%	-6.94%	-3.39%	-0.18%	8.39%	N/A	N/A	6.97%	9/26/2014
Gross Expense Ratio		94													
BM: Lifecycle 2060 Fund Composite Index			11.87%	14.27%			-7.26%	-5.46%	-1.84%	1.73%	8.95%			7.20%	
Fund vs. Lifecycle 2060 Fund Composite Index			-75	-32			-96	-148	-155	-191	-56			-23	
BM: S&P Target Date 2060+ Index			10.60%	13.34%			-7.11%	-5.82%	-2.60%	0.80%	8.22%			6.67%	
Fund vs. S&P Target Date 2060+ Index			52	61			-111	-112	-79	-98	17			30	
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%			9.86%	
Fund vs. Russell 3000 Index			-646	-312			-86	-299	-582	-678	-288			-289	
PG: Target-Date 2060+ M*star Category			9.74%	12.66%			N/A	N/A	N/A	-0.16%	7.60%			N/A	
Fund vs. Target-Date 2060+ M*star Category			138	129			N/A	N/A	N/A	-2	79			N/A	
PG: Fund % Rank in Target-Date 2060+ M*star Category			10%	4%			N/A	N/A	N/A	50%	9%			N/A	
PG: # of funds in Target-Date 2060+ M*star Category			190	76			N/A	N/A	N/A	189	75			N/A	
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****			N/A	
TIAA-CREF LIFECYCLE INDEX 2010 FUND (TLTPX)^[7]	\$409.30	25	4.55%	6.82%	5.58%	N/A	-3.59%	-2.77%	-1.73%	-0.14%	4.36%	4.34%	N/A	6.31%	9/30/2009
Gross Expense Ratio		40													
BM: Lifecycle Index 2010 Composite Benchmark			4.84%	7.12%	5.83%		-3.55%	-2.69%	-1.54%	0.17%	4.62%	4.59%		6.61%	
Fund vs. Lifecycle Index 2010 Composite Benchmark			-29	-30	-25		-4	-8	-19	-31	-26	-25		-30	
BM: S&P Target Date 2010 Index			4.36%	6.38%	5.09%		-3.35%	-2.67%	-1.62%	0.01%	4.15%	3.97%		5.78%	
Fund vs. S&P Target Date 2010 Index			19	44	49		-24	-10	-11	-15	21	37		53	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		2.93%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			577	551	342		-280	-198	65	191	332	251		338	
PG: Target-Date 2000-2010 M*star Category			3.40%	6.33%	4.87%		N/A	N/A	N/A	-0.63%	4.09%	3.78%		N/A	
Fund vs. Target-Date 2000-2010 M*star Category			115	49	71		N/A	N/A	N/A	49	27	56		N/A	
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			7%	29%	17%		N/A	N/A	N/A	16%	39%	21%		N/A	
PG: # of funds in Target-Date 2000-2010 M*star Category			137	113	91		N/A	N/A	N/A	137	113	91		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	***	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2015 FUND (TLFPX)^[7]	\$796.00	25	5.20%	7.51%	6.06%	N/A	-3.87%	-2.96%	-1.66%	0.10%	4.83%	4.71%	N/A	6.79%	9/30/2009
Gross Expense Ratio		38													
BM: Lifecycle Index 2015 Composite Benchmark			5.47%	7.80%	6.31%		-3.91%	-2.95%	-1.59%	0.29%	5.03%	4.94%		7.08%	
Fund vs. Lifecycle Index 2015 Composite Benchmark			-27	-29	-25		4	-1	-7	-19	-20	-23		-29	
BM: S&P Target Date 2015 Index			5.09%	7.42%	5.85%		-3.79%	-3.03%	-1.70%	0.14%	4.78%	4.55%		6.56%	
Fund vs. S&P Target Date 2015 Index			11	9	21		-8	7	4	-4	5	16		23	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		2.93%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			642	620	390		-308	-217	72	215	379	288		386	
PG: Target-Date 2015 M*star Category			4.24%	7.04%	5.34%		N/A	N/A	N/A	-0.46%	4.48%	4.08%		N/A	
Fund vs. Target-Date 2015 M*star Category			96	47	72		N/A	N/A	N/A	56	35	63		N/A	
PG: Fund % Rank in Target-Date 2015 M*star Category			14%	32%	24%		N/A	N/A	N/A	19%	30%	22%		N/A	
PG: # of funds in Target-Date 2015 M*star Category			139	111	77		N/A	N/A	N/A	136	110	77		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2020 FUND (TLWPX)^[8]	\$1,877.10	25	5.97%	8.42%	6.67%	N/A	-4.30%	-3.33%	-1.69%	0.25%	5.35%	5.17%	N/A	7.36%	9/30/2009
Gross Expense Ratio		36													
BM: Lifecycle Index 2020 Composite Benchmark			6.30%	8.75%	6.93%		-4.34%	-3.27%	-1.62%	0.49%	5.59%	5.40%		7.66%	
Fund vs. Lifecycle Index 2020 Composite Benchmark			-33	-33	-26		4	-6	-7	-24	-24	-23		-30	
BM: S&P Target Date 2020 Index			5.78%	8.36%	6.49%		-4.19%	-3.37%	-1.80%	0.25%	5.35%	5.04%		7.24%	
Fund vs. S&P Target Date 2020 Index			19	6	18		-11	4	11	0	0	13		12	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-1161	-865	-679		306	62	-412	-635	-592	-564		-581	
PG: Target-Date 2020 M*star Category			4.70%	7.51%	5.59%		N/A	N/A	N/A	-0.60%	4.69%	4.22%		N/A	
Fund vs. Target-Date 2020 M*star Category			127	91	108		N/A	N/A	N/A	85	66	95		N/A	
PG: Fund % Rank in Target-Date 2020 M*star Category			9%	22%	14%		N/A	N/A	N/A	12%	23%	14%		N/A	
PG: # of funds in Target-Date 2020 M*star Category			253	205	171		N/A	N/A	N/A	252	204	171		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2025 FUND (TLVPX)^[8]	\$2,277.90	25	7.02%	9.56%	7.38%	N/A	-4.84%	-3.72%	-1.73%	0.49%	6.04%	5.69%	N/A	7.98%	9/30/2009
Gross Expense Ratio		35													
BM: Lifecycle Index 2025 Composite Benchmark			7.36%	9.86%	7.63%		-4.90%	-3.69%	-1.66%	0.73%	6.24%	5.92%		8.26%	
Fund vs. Lifecycle Index 2025 Composite Benchmark			-34	-30	-25		6	-3	-7	-24	-20	-23		-28	
BM: S&P Target Date 2025 Index			6.86%	9.45%	7.13%		-4.86%	-3.92%	-1.99%	0.38%	5.98%	5.48%		7.82%	
Fund vs. S&P Target Date 2025 Index			16	11	25		2	20	26	11	6	21		16	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-1056	-751	-608		252	23	-416	-611	-523	-512		-519	
PG: Target-Date 2025 M*star Category			5.85%	8.80%	6.39%		N/A	N/A	N/A	-0.49%	5.43%	4.79%		N/A	
Fund vs. Target-Date 2025 M*star Category			117	76	99		N/A	N/A	N/A	98	61	90		N/A	
PG: Fund % Rank in Target-Date 2025 M*star Category			13%	29%	15%		N/A	N/A	N/A	12%	26%	12%		N/A	
PG: # of funds in Target-Date 2025 M*star Category			223	180	141		N/A	N/A	N/A	223	179	141		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2030 FUND (TLHPX)^[8]	\$2,419.40	25	8.09%	10.64%	8.08%	N/A	-5.43%	-4.17%	-1.75%	0.70%	6.69%	6.20%	N/A	8.59%	9/30/2009
Gross Expense Ratio		35													
BM: Lifecycle Index 2030 Composite Benchmark			8.42%	10.96%	8.34%		-5.46%	-4.10%	-1.71%	0.96%	6.89%	6.43%		8.86%	
Fund vs. Lifecycle Index 2030 Composite Benchmark			-33	-32	-26		3	-7	-4	-26	-20	-23		-27	
BM: S&P Target Date 2030 Index			7.99%	10.47%	7.78%		-5.60%	-4.53%	-2.20%	0.48%	6.54%	5.91%		8.33%	
Fund vs. S&P Target Date 2030 Index			10	17	30		17	36	45	22	15	29		26	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-949	-643	-538		193	-22	-418	-590	-458	-461		-458	
PG: Target-Date 2030 M*star Category			6.89%	9.88%	7.06%		N/A	N/A	N/A	-0.44%	6.02%	5.25%		N/A	
Fund vs. Target-Date 2030 M*star Category			120	76	102		N/A	N/A	N/A	114	67	95		N/A	
PG: Fund % Rank in Target-Date 2030 M*star Category			13%	27%	18%		N/A	N/A	N/A	12%	22%	15%		N/A	
PG: # of funds in Target-Date 2030 M*star Category			242	195	161		N/A	N/A	N/A	241	194	161		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
PREMIER SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns					Since Inception to 10/31/18	Inc. Date		
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year			5 Year	10 Year
TIAA-CREF LIFECYCLE INDEX 2035 FUND (TLYPX)^[8]	\$2,216.50	25	9.18%	11.74%	8.74%	N/A	-5.96%	-4.58%	-1.78%	0.99%	7.34%	6.68%	N/A	9.16%	9/30/2009
Gross Expense Ratio		34													
BM: Lifecycle Index 2035 Composite Benchmark			9.51%	12.06%	9.00%		-6.02%	-4.51%	-1.73%	1.21%	7.52%	6.90%		9.44%	
Fund vs. Lifecycle Index 2035 Composite Benchmark			-33	-32	-26		6	-7	-5	-22	-18	-22		-28	
BM: S&P Target Date 2035 Index			8.99%	11.44%	8.39%		-6.25%	-5.08%	-2.41%	0.54%	7.08%	6.31%		8.78%	
Fund vs. S&P Target Date 2035 Index			19	30	35		29	50	63	45	26	37		38	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-840	-533	-472		140	-63	-421	-561	-393	-413		-401	
PG: Target-Date 2035 M*star Category			8.03%	11.01%	7.74%		N/A	N/A	N/A	-0.23%	6.65%	5.71%		N/A	
Fund vs. Target-Date 2035 M*star Category			115	73	100		N/A	N/A	N/A	122	69	97		N/A	
PG: Fund % Rank in Target-Date 2035 M*star Category			16%	21%	14%		N/A	N/A	N/A	8%	17%	12%		N/A	
PG: # of funds in Target-Date 2035 M*star Category			218	175	136		N/A	N/A	N/A	215	174	136		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2040 FUND (TLPRX)^[8]	\$2,377.20	25	10.31%	12.86%	9.37%	N/A	-6.52%	-4.96%	-1.78%	1.26%	8.00%	7.13%	N/A	9.55%	9/30/2009
Gross Expense Ratio		34													
BM: Lifecycle Index 2040 Composite Benchmark			10.65%	13.17%	9.62%		-6.57%	-4.91%	-1.71%	1.50%	8.16%	7.35%		9.83%	
Fund vs. Lifecycle Index 2040 Composite Benchmark			-34	-31	-25		5	-5	-7	-24	-16	-22		-28	
BM: S&P Target Date 2040 Index			9.68%	12.11%	8.79%		-6.66%	-5.44%	-2.53%	0.62%	7.46%	6.59%		9.09%	
Fund vs. S&P Target Date 2040 Index			63	75	58		14	48	75	64	54	54		46	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-727	-421	-409		84	-101	-421	-534	-327	-368		-362	
PG: Target-Date 2040 M*star Category			8.60%	11.56%	8.07%		N/A	N/A	N/A	-0.34%	6.92%	5.92%		N/A	
Fund vs. Target-Date 2040 M*star Category			171	130	130		N/A	N/A	N/A	160	108	121		N/A	
PG: Fund % Rank in Target-Date 2040 M*star Category			11%	13%	6%		N/A	N/A	N/A	6%	9%	3%		N/A	
PG: # of funds in Target-Date 2040 M*star Category			242	195	161		N/A	N/A	N/A	241	194	161		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2045 FUND (TLMPX)^[8]	\$1,524.40	25	10.96%	13.36%	9.64%	N/A	-6.89%	-5.26%	-1.77%	1.36%	8.32%	7.31%	N/A	9.66%	9/30/2009
Gross Expense Ratio		35													
BM: Lifecycle Index 2045 Composite Benchmark			11.33%	13.69%	9.92%		-6.95%	-5.19%	-1.74%	1.62%	8.50%	7.55%		9.95%	
Fund vs. Lifecycle Index 2045 Composite Benchmark			-37	-33	-28		6	-7	-3	-26	-18	-24		-29	
BM: S&P Target Date 2045 Index			9.98%	12.54%	9.05%		-6.88%	-5.65%	-2.65%	0.59%	7.70%	6.76%		9.30%	
Fund vs. S&P Target Date 2045 Index			98	82	59		-1	39	88	77	62	55		36	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-662	-371	-382		47	-131	-420	-524	-295	-351		-351	
PG: Target-Date 2045 M*star Category			9.22%	12.14%	8.42%		N/A	N/A	N/A	-0.19%	7.23%	6.15%		N/A	
Fund vs. Target-Date 2045 M*star Category			174	122	122		N/A	N/A	N/A	155	109	116		N/A	
PG: Fund % Rank in Target-Date 2045 M*star Category			9%	5%	5%		N/A	N/A	N/A	8%	3%	3%		N/A	
PG: # of funds in Target-Date 2045 M*star Category			218	175	136		N/A	N/A	N/A	215	174	136		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2050 FUND (TLLPX)^[8]	\$1,113.50	25	11.18%	13.54%	9.75%	N/A	-6.96%	-5.29%	-1.76%	1.41%	8.49%	7.42%	N/A	9.72%	9/30/2009
Gross Expense Ratio		35													
BM: Lifecycle Index 2050 Composite Benchmark			11.51%	13.87%	10.03%		-7.04%	-5.26%	-1.74%	1.66%	8.64%	7.64%		9.99%	
Fund vs. Lifecycle Index 2050 Composite Benchmark			-36	-33	-28		8	-3	-2	-25	-15	-22		-27	
BM: S&P Target Date 2050 Index			10.26%	12.92%	9.29%		-7.05%	-5.81%	-2.71%	0.62%	7.93%	6.94%		9.47%	
Fund vs. S&P Target Date 2050 Index			89	62	46		9	52	95	79	56	48		25	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-643	-353	-371		40	-134	-419	-519	-278	-339		-345	
PG: Target-Date 2050 M*star Category			9.23%	12.16%	8.45%		N/A	N/A	N/A	-0.40%	7.22%	6.16%		N/A	
Fund vs. Target-Date 2050 M*star Category			192	138	130		N/A	N/A	N/A	181	127	126		N/A	
PG: Fund % Rank in Target-Date 2050 M*star Category			7%	4%	5%		N/A	N/A	N/A	6%	2%	3%		N/A	
PG: # of funds in Target-Date 2050 M*star Category			238	190	156		N/A	N/A	N/A	237	189	156		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2055 FUND (TTIPX)^[8]	\$429.40	25	11.33%	13.74%	9.86%	N/A	-7.06%	-5.38%	-1.76%	1.50%	8.62%	7.50%	N/A	8.20%	4/29/2011
Gross Expense Ratio		38													
BM: Lifecycle Index 2055 Composite Benchmark			11.69%	14.06%	10.13%		-7.12%	-5.32%	-1.74%	1.71%	8.79%	7.72%		8.45%	
Fund vs. Lifecycle Index 2055 Composite Benchmark			-36	-32	-27		6	-6	-2	-21	-17	-22		-25	
BM: S&P Target Date 2055 Index			10.32%	13.13%	9.42%		-7.08%	-5.84%	-2.72%	0.62%	8.06%	7.04%		7.77%	
Fund vs. S&P Target Date 2055 Index			101	61	44		2	46	96	88	56	46		43	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		11.53%	
Fund vs. Russell 3000 Index			-625	-333	-360		30	-143	-419	-510	-265	-331		-333	
PG: Target-Date 2055 M*star Category			9.51%	12.41%	8.71%		N/A	N/A	N/A	-0.20%	7.38%	6.36%		N/A	
Fund vs. Target-Date 2055 M*star Category			182	133	115		N/A	N/A	N/A	170	124	114		N/A	
PG: Fund % Rank in Target-Date 2055 M*star Category			8%	5%	7%		N/A	N/A	N/A	6%	2%	4%		N/A	
PG: # of funds in Target-Date 2055 M*star Category			218	173	112		N/A	N/A	N/A	218	172	112		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2060 FUND (TVIPX)^[8]	\$103.50	25	11.55%	13.91%	N/A	N/A	-7.15%	-5.40%	-1.71%	1.53%	8.76%	N/A	N/A	7.04%	9/26/2014
Gross Expense Ratio		61													
BM: Lifecycle Index 2060 Composite Benchmark			11.87%	14.24%			-7.21%	-5.38%	-1.74%	1.75%	8.93%			7.27%	
Fund vs. Lifecycle Index 2060 Composite Benchmark			-32	-33			6	-2	3	-22	-17			-23	
BM: S&P Target Date 2060+ Index			10.60%	13.34%			-7.11%	-5.82%	-2.60%	0.80%	8.22%			6.67%	
Fund vs. S&P Target Date 2060+ Index			95	57			-4	42	89	73	54			37	
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%			9.86%	
Fund vs. Russell 3000 Index			-603	-316			21	-145	-414	-507	-251			-282	
PG: Target-Date 2060+ M*star Category			9.74%	12.66%			N/A	N/A	N/A	-0.16%	7.60%			N/A	
Fund vs. Target-Date 2060+ M*star Category			181	125			N/A	N/A	N/A	169	116			N/A	
PG: Fund % Rank in Target-Date 2060+ M*star Category			6%	5%			N/A	N/A	N/A	7%	2%			N/A	
PG: # of funds in Target-Date 2060+ M*star Category			190	76			N/A	N/A	N/A	189	75			N/A	
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****			N/A	

INVESTMENT PERFORMANCE SUMMARY

TIAA-CREF FUNDS
PREMIER SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$ Mil.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns					Since Inception	Inc. Date		
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year			5 Year	10 Year
TIAA-CREF LIFECYCLE INDEX RETIREMENT INCOME FUND (TLIPX)^[7]	\$304.50	25	4.35%	6.39%	5.23%	N/A	-3.41%	-2.65%	-1.52%	-0.05%	4.14%	4.09%	N/A	5.85%	9/30/2009
Gross Expense Ratio		45													
BM: Lifecycle Index Retirement Income Composite Benchmark			4.54%	6.67%	5.48%		-3.42%	-2.60%	-1.55%	0.07%	4.21%	4.31%		6.15%	
Fund vs. Lifecycle Index Retirement Income Composite Benchmark			-19	-28	-25		1	-5	3	-12	-21	-22		-30	
BM: S&P Target Date Retirement Income Index			3.71%	5.35%	4.37%		-2.92%	-2.36%	-1.52%	-0.07%	3.53%	3.42%		4.96%	
Fund vs. S&P Target Date Retirement Income Index			64	104	86		-49	-29	0	2	61	67		89	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		2.93%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			557	508	307		-262	-186	86	200	310	226		292	
PG: Target-Date Retirement M*star Category			2.74%	5.19%	3.98%		N/A	N/A	N/A	-0.89%	3.34%	3.03%		N/A	
Fund vs. Target-Date Retirement M*star Category			161	120	125		N/A	N/A	N/A	84	80	106		N/A	
PG: Fund % Rank in Target-Date Retirement M*star Category			8%	17%	7%		N/A	N/A	N/A	11%	14%	7%		N/A	
PG: # of funds in Target-Date Retirement M*star Category			189	164	137		N/A	N/A	N/A	189	163	137		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE RETIREMENT INCOME FUND (TPIIX)^[5,7]	\$530.00	52	4.14%	6.95%	5.48%	6.43%	-3.58%	-3.10%	-2.05%	-0.62%	4.57%	4.22%	7.06%	4.45%	11/30/2007
Gross Expense Ratio		67													9/30/2009
BM: Lifecycle Retirement Income Fund Composite Index			4.54%	6.68%	5.37%	6.34%	-3.45%	-2.63%	-1.59%	0.06%	4.36%	4.21%	6.92%	4.59%	
Fund vs. Lifecycle Retirement Income Fund Composite Index			-40	27	11	9	-13	-47	-46	-68	21	1	14	-14	
BM: S&P Target Date Retirement Income Index			3.71%	5.35%	4.37%	5.10%	-2.92%	-2.36%	-1.52%	-0.07%	3.53%	3.42%	5.73%	3.57%	
Fund vs. S&P Target Date Retirement Income Index			43	160	111	133	-66	-74	-53	-55	104	80	133	88	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.46%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			536	564	332	266	-279	-231	33	143	353	239	312	99	
PG: Target-Date Retirement M*star Category			2.74%	5.19%	3.98%	5.19%	N/A	N/A	N/A	-0.89%	3.34%	3.03%	5.89%	N/A	
Fund vs. Target-Date Retirement M*star Category			140	176	150	124	N/A	N/A	N/A	27	123	119	117	N/A	
PG: Fund % Rank in Target-Date Retirement M*star Category			10%	6%	3%	5%	N/A	N/A	N/A	33%	6%	3%	10%	N/A	
PG: # of funds in Target-Date Retirement M*star Category			189	164	137	93	N/A	N/A	N/A	189	163	137	94	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LIFESTYLE AGGRESSIVE GROWTH FUND (TSAPX)^[10]	\$111.30	70	11.38%	14.36%	10.20%	N/A	-8.88%	-7.67%	-3.85%	-0.65%	8.29%	7.28%	N/A	11.12%	12/9/2011
Gross Expense Ratio		91													
BM: Lifestyle Aggressive Composite Benchmark			12.68%	14.99%	10.66%		-7.66%	-5.76%	-1.85%	1.92%	9.22%	8.04%		11.37%	
Fund vs. Lifestyle Aggressive Composite Benchmark			-130	-63	-46		-122	-191	-200	-257	-93	-76		-25	
BM: Morningstar Aggressive Target Risk TR USD			10.40%	13.86%	9.26%		-7.19%	-6.07%	-3.11%	0.53%	8.66%	6.88%		10.10%	
Fund vs. Morningstar Aggressive Target Risk TR USD			98	50	94		-169	-160	-74	-118	-37	40		102	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%	
Fund vs. Russell 3000 Index			-620	-271	-326		-152	-372	-628	-725	-298	-353		-285	
PG: Allocation-85%+ Equity M*star Category			10.08%	12.40%	8.72%		N/A	N/A	N/A	0.21%	7.18%	6.25%		N/A	
Fund vs. Allocation-85%+ Equity M*star Category			130	196	148		N/A	N/A	N/A	-86	111	103		N/A	
PG: Fund % Rank in Allocation-85%+ Equity M*star Category			30%	6%	12%		N/A	N/A	N/A	65%	14%	22%		N/A	
PG: # of funds in Allocation-85%+ Equity M*star Category			196	176	151		N/A	N/A	N/A	195	174	149		N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFESTYLE CONSERVATIVE FUND (TLPX)^[9]	\$225.00	61	4.16%	6.85%	5.47%	N/A	-4.03%	-3.58%	-2.38%	-0.98%	4.31%	4.14%	N/A	5.92%	12/9/2011
Gross Expense Ratio		74													
BM: Lifestyle Conservative Composite Benchmark			4.52%	6.58%	5.33%		-3.36%	-2.51%	-1.44%	0.16%	4.31%	4.20%		5.54%	
Fund vs. Lifestyle Conservative Composite Benchmark			-36	27	14		-67	-107	-94	-114	0	-6		38	
BM: Morningstar Moderately Conservative Target Risk TR USD			3.91%	6.69%	4.96%		-3.34%	-2.78%	-2.11%	-0.42%	4.51%	3.85%		5.33%	
Fund vs. Morningstar Moderately Conservative Target Risk TR USD			25	16	51		-69	-80	-27	-56	-20	29		59	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.88%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			538	554	331		-324	-279	0	107	327	231		404	
PG: Allocation-30% to 50% Equity M*star Category			3.30%	6.30%	4.74%		N/A	N/A	N/A	-1.08%	3.81%	3.37%		N/A	
Fund vs. Allocation-30% to 50% Equity M*star Category			86	55	73		N/A	N/A	N/A	10	50	77		N/A	
PG: Fund % Rank in Allocation-30% to 50% Equity M*star Category			32%	28%	21%		N/A	N/A	N/A	51%	33%	21%		N/A	
PG: # of funds in Allocation-30% to 50% Equity M*star Category			508	439	355		N/A	N/A	N/A	532	460	368		N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFESTYLE GROWTH FUND (TSOPX)^[10]	\$159.30	67	8.84%	11.95%	8.75%	N/A	-7.42%	-6.49%	-3.60%	-0.97%	7.03%	6.33%	N/A	9.52%	12/9/2011
Gross Expense Ratio		84													
BM: Lifestyle Growth Composite Benchmark			9.83%	12.21%	8.99%		-6.29%	-4.74%	-1.86%	1.22%	7.62%	6.87%		9.51%	
Fund vs. Lifestyle Growth Composite Benchmark			-99	-26	-24		-113	-175	-174	-219	-59	-54		1	
BM: Morningstar Moderately Aggressive Target Risk TR USD			8.32%	11.76%	8.03%		-6.13%	-5.19%	-3.08%	0.04%	7.46%	6.01%		8.77%	
Fund vs. Morningstar Moderately Aggressive Target Risk TR USD			52	19	72		-129	-130	-52	-101	-43	32		75	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%	
Fund vs. Russell 3000 Index			-874	-512	-471		-6	-254	-603	-757	-424	-448		-445	
PG: Allocation-70% to 85% Equity M*star Category			8.52%	10.41%	7.54%		N/A	N/A	N/A	0.04%	6.17%	5.48%		N/A	
Fund vs. Allocation-70% to 85% Equity M*star Category			32	154	121		N/A	N/A	N/A	-101	86	85		N/A	
PG: Fund % Rank in Allocation-70% to 85% Equity M*star Category			42%	20%	21%		N/A	N/A	N/A	72%	32%	28%		N/A	
PG: # of funds in Allocation-70% to 85% Equity M*star Category			359	323	279		N/A	N/A	N/A	351	315	270		N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFESTYLE INCOME FUND (TSIPX)^[9]	\$72.00	57	1.97%	4.25%	3.64%	N/A	-2.26%	-1.95%	-1.62%	-0.87%	2.88%	2.86%	N/A	3.90%	12/9/2011
Gross Expense Ratio		84													
BM: Lifestyle Income Composite Benchmark			2.07%	3.76%	3.35%		-1.80%	-1.29%	-1.02%	-0.21%	2.60%	2.71%		3.44%	
Fund vs. Lifestyle Income Composite Benchmark			-10	49	29		-46	-66	-60	-66	28	15		46	
BM: Morningstar Conservative Target Risk TR USD			1.46%	3.96%	3.07%		-1.94%	-1.69%	-1.90%	-0.93%	2.81%	2.42%		3.28%	
Fund vs. Morningstar Conservative Target Risk TR USD			51	29	57		-32	-26	28	6	7	44		62	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.88%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			319	294	148		-147	-116	76	118	184	103		202	
PG: Allocation-15% to 30% Equity M*star Category			1.46%	4.21%	3.14%		N/A	N/A	N/A	-1.35%	2.70%	2.40%		N/A	
Fund vs. Allocation-15% to 30% Equity M*star Category			51	4	50		N/A	N/A	N/A	48	18	46		N/A	
PG: Fund % Rank in Allocation-15% to 30% Equity M*star Category			43%	56%	37%		N/A	N/A	N/A	49%	51%	34%		N/A	
PG: # of funds in Allocation-15% to 30% Equity M*star Category			207	182	149		N/A	N/A	N/A	194	171	145		N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***		N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
PREMIER SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mil.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns					Since Inception	Date		
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year			5 Year	10 Year
TIAA-CREF LIFESTYLE MODERATE FUND (TSMPIX) ^[10]	\$339.70	64	6.34%	9.53%	7.31%	N/A	-5.83%	-5.17%	-3.28%	-1.20%	5.75%	5.40%	N/A	7.94%	12/9/2011
Gross Expense Ratio		73													
BM: Lifestyle Moderate Composite Benchmark			7.01%	9.45%	7.31%		-4.91%	-3.74%	-1.92%	0.47%	6.00%	5.66%		7.63%	
Fund vs. Lifestyle Moderate Composite Benchmark			-67	8	0		-92	-143	-136	-167	-25	-26		31	
BM: Morningstar Moderate Target Risk TR USD			6.02%	9.19%	6.51%		-4.71%	-3.98%	-2.61%	-0.22%	5.99%	4.96%		7.08%	
Fund vs. Morningstar Moderate Target Risk TR USD			32	34	80		-112	-119	-67	-98	-24	44		86	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%	
Fund vs. Russell 3000 Index			-1124	-754	-615		153	-122	-571	-780	-552	-541		-603	
PG: Allocation-50% to 70% Equity M*star Category			6.75%	8.80%	6.67%		N/A	N/A	N/A	0.34%	5.42%	5.03%		N/A	
Fund vs. Allocation-50% to 70% Equity M*star Category			-41	73	64		N/A	N/A	N/A	-154	33	37		N/A	
PG: Fund # Rank in Allocation-50% to 70% Equity M*star Category			55%	33%	35%		N/A	N/A	N/A	79%	42%	40%		N/A	
PG: # of funds in Allocation-50% to 70% Equity M*star Category			771	703	619		N/A	N/A	N/A	773	702	620		N/A	
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A	

Money Market

TIAA-CREF MONEY MARKET FUND (TPPXX) ^[11,3,5,6]	\$1,057.00	29	1.29%	0.60%	0.36%	0.28%	0.16%	0.45%	1.24%	1.38%	0.65%	0.39%	0.28%	1.85%	7/1/1999
Gross Expense Ratio		29													9/30/2009
BM: iMoneyNet Money Fund AveragesTM-All Government			1.13%	0.50%	0.30%	0.18%	0.15%	0.41%	1.10%	1.22%	0.55%	0.33%	0.19%	1.50%	
Fund vs. iMoneyNet Money Fund AveragesTM-All Government			16	10	6	10	1	4	14	16	10	6	9	35	
7-Day Effective Yield as of 10/31/2018: 1.92%															
7-Day Current Yield as of 10/31/2018: 1.92%															

MUTUAL FUND TOTALS^[11] \$105,844.30

BM = Benchmark; PG = Peer Group; % Rank within Morningstar Category: 1 = Best 100 = Worst; Morningstar Category Returns are equal-weighted.

[1] Combined Mutual Funds' Net Assets exclude the Managed Allocation Fund, Lifecycle Funds, and Lifestyle Funds.

[2] The net expense ratio (top number) represents expenses after reimbursement and waivers, and is what participants actually pay. The number below represents the gross expense ratio, before consideration for reimbursements and/or waivers.

[3] The "Since Inception" benchmark performance shown is computed from August 1999.

[4] The "Since Inception" values presented are cumulative values and not average annualized total returns.

[5] The Premier Class began operations on September 30, 2009. Where a product lists two inception dates, the top date reflects the inception date of the product's oldest share class, and the bottom date represents the date of inception for the Share Class being reported. Performance shown for periods prior to the inception of the Premier Class reflects the performance of the Institutional Class, and has not been adjusted to reflect the expenses of the Premier Class.

[6] Beginning October 1, 2009, part or all of the 12b-1 distribution and investment management fees of the Premier Class of the TIAA-CREF Money Market Fund is being voluntarily waived. Without these waivers, the 7-day current and effective annualized yields and total returns would have been lower. These voluntary fee waivers may be discontinued at any time without notice.

[7] The S&P Target Date Indexes represent a broadly derived consensus of asset class exposure for the respective target retirement date based on market observations acquired through an annual survey of target date fund managers. The S&P Target Date Index returns include the fees and expenses of the exchange-traded funds that comprise each respective index. Previously, the Lifecycle Active and Index 2010, 2015 and Retirement Income Funds compared their performance to the Bloomberg Barclays U.S. Aggregate Bond Index instead of the S&P Target Date Indexes shown in the chart above. The returns of the S&P Target Date Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

[8] The S&P Target Date Indexes represent a broadly derived consensus of asset class exposure for the respective target retirement date based on market observations acquired through an annual survey of target date fund managers. The S&P Target Date Index returns include the fees and expenses of the exchange-traded funds that comprise each respective index. Previously, the Lifecycle Active and Index 2020, 2025, 2030, 2035, 2040, 2045, 2050, 2055 and 2060 Funds compared their performance to the Russell 3000 Index instead of the S&P Target Date Indexes shown in the chart above. The returns of the S&P Target Date Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

[9] The Morningstar Target Risk Indexes are asset allocation indexes comprised of constituent Morningstar indexes and reflect global equity market exposure of 20%, 40%, 60%, 80% or 95% based on an asset allocation methodology from Ibbotson Associates, a Morningstar company. The returns of the Morningstar Target Risk Indexes do not reflect a deduction for fees or expenses. Previously, the Lifestyle Conservative and Lifestyle Income Funds compared their performance to the Bloomberg Barclays U.S. Aggregate Bond Index instead of the Morningstar Target Risk Indexes shown in the chart above. The returns of the Morningstar Target Risk Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure and similar risk profiles.

[10] The Morningstar Target Risk Indexes are asset allocation indexes comprised of constituent Morningstar indexes and reflect global equity market exposure of 20%, 40%, 60%, 80% or 95% based on an asset allocation methodology from Ibbotson Associates, a Morningstar company. The returns of the Morningstar Target Risk Indexes do not reflect a deduction for fees or expenses. Previously, the Lifestyle Moderate, Growth and Aggressive, and the TIAA-CREF Managed Allocation Fund compared their performance to the Russell 3000 Index instead of the Morningstar Target Risk Indexes shown in the chart above. The returns of the Morningstar Target Risk Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure and similar risk profiles.

[11] Effective October 1, 2016, the iMoneyNet Money Fund Averages-All Taxable peer group was changed to the iMoneyNet Money Fund Averages-All Government.

[12] Effective August 1, 2018, the TIAA-CREF Small Cap Equity Fund's name was changed to TIAA-CREF Quant Small Cap Equity Fund.

[13] Effective August 1, 2018, the TIAA-CREF Small/Mid-Cap Equity Fund's name was changed to TIAA-CREF Quant Small/Mid Cap Equity Fund.

[14] Effective August 1, 2018, the TIAA-CREF International Small-Cap Equity Fund's name was changed to TIAA-CREF Quant International Small-Cap Equity Fund.

Teachers Advisors, LLC. ("Advisors"), the Funds' investment adviser has contractually agreed to reimburse the Funds for any Total Annual Fund Operating Expenses (excluding Acquired Fund Fees and Expenses and extraordinary expenses) that exceed 0.15% of average daily net assets for the Lifecycle and 0.19% for the Lifecycle Index Premier Class Funds. These expense reimbursement arrangements will continue through at least September 30, 2019 unless changed with approval of the Board of Trustees.

In addition to the expense reimbursement arrangement, Advisors has contractually agreed to waive a portion of the Fund's Management Fee equal to, on an annual basis of 0.10% for the all of the Lifecycle Funds. This waiver will remain in effect through September 30, 2019, unless changed with approval of the Board of Trustees.

The Morningstar category averages, percentile ranks and star ratings are sourced from the Morningstar Essentials files prepared for TIAA as well as from Morningstar Direct.

Under the Funds' expense reimbursement arrangements, the Funds' investment adviser, Teachers Advisors, LLC. ("Advisors"), has contractually agreed to reimburse the Funds for any Total Annual Fund Operating Expenses (excluding Acquired Fund Fees and Expenses and extraordinary expenses) that exceed the following annual rates of average daily net assets: a) 0.67% for the Growth & Income Fund; 0.75% for the International Equity Fund; 1.10% for the Emerging Markets Equity Fund; 0.67% for the Large-Cap Growth Fund; 0.67% for the Large-Cap Value Fund; 0.70% for the Mid-Cap Growth Fund; 0.70% for the Mid-Cap Value Fund; 0.68% for the Small-Cap Equity Fund; 0.24% for the Equity Index Fund; 0.30% for the International Equity Index Fund; 0.40% for the Emerging Markets Equity Index Fund; 0.37% for the Social Choice Equity Fund; 0.90% for the Global Natural Resources Fund; 0.85% for the International Opportunities Fund; 0.80% for the Emerging Markets Debt Fund; b) 0.72% for the Real Estate Securities Fund; 0.50% for the Bond Fund; 0.50% for the Bond Plus Fund; 0.45% for the Short-Term Bond Fund; 0.45% for the Inflation-Linked Bond Fund; 0.55% for the High-Yield Fund; 0.28% for the Tax-Exempt Bond Fund; 0.28% for the Bond Index Fund; 0.30% for the Money Market Fund; 0.55% for the Social Choice Bond Fund; 0.27% for the Short-Term Bond Index Fund; 0.47% for the Social Choice Low Carbon Equity Fund; 0.55% for the Social Choice International Equity Index.

a) These expense reimbursement arrangements will continue through at least February 28, 2019 unless changed with approval of the Board of Trustees.

b) These expense reimbursement arrangements will continue through at least July 31, 2019 unless changed with approval of the Board of Trustees.

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETIREMENT SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$ Mil.) 10/31/18	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return					Since Inception				
			1 Year 10/01/17 to 09/30/18	3 Year 10/01/15 to 09/30/18	5 Year 10/01/13 to 09/30/18	10 Year 10/01/08 to 09/30/18	1 Month 10/01/18 to 10/31/18	3 Month 08/01/18 to 10/31/18	YTD 01/01/18 to 10/31/18	1 Year 11/01/17 to 10/31/18	3 Year 11/01/15 to 10/31/18	5 Year 11/01/13 to 10/31/18	10 Year 11/01/08 to 10/31/18	Since Inception 10/31/18 to 10/31/18	Inc. Date	
U.S. Equities																
TIAA-CREF EQUITY INDEX FUND (TIQRX)^[5]	\$17,528.40	30	17.25%	16.78%	13.16%	11.70%	-7.40%	-4.05%	2.15%	6.29%	10.98%	10.51%	13.03%	5.74%	7/1/1999	
Gross Expense Ratio		30														3/31/2006
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	5.98%		
Fund vs. Russell 3000 Index			-33	-29	-30	-31	-4	-10	-28	-31	-29	-30	-32	-24		
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A		
Fund vs. Large Blend M*star Category			190	161	123	86	N/A	N/A	N/A	101	125	107	89	N/A		
PG: Fund % Rank in Large Blend M*star Category			37%	28%	33%	29%	N/A	N/A	N/A	45%	32%	34%	30%	N/A		
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A		
Fund Star Rating			N/A	****	****	***	N/A	N/A	N/A	N/A	****	***	****	N/A		
TIAA-CREF GROWTH & INCOME FUND (TRGIX)^[6,7]	\$6,500.80	66	19.84%	17.08%	13.76%	12.14%	-9.38%	-5.35%	1.64%	5.39%	10.43%	10.56%	13.00%	5.96%	7/1/1999	
Gross Expense Ratio		66														10/1/2002
BM: S&P 500 Index			17.91%	17.31%	13.95%	11.97%	-6.84%	-3.25%	3.01%	7.35%	11.52%	11.34%	13.24%	5.55%		
Fund vs. S&P 500 Index			193	-23	-19	17	-254	-210	-137	-196	-109	-78	-24	41		
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A		
Fund vs. Large Growth M*star Category			-334	-60	-26	-46	N/A	N/A	N/A	-331	-82	-49	-73	N/A		
PG: Fund % Rank in Large Growth M*star Category			70%	61%	58%	61%	N/A	N/A	N/A	83%	66%	62%	66%	N/A		
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF LARGE-CAP GROWTH FUND (TILRX)	\$5,111.30	72	27.99%	19.97%	16.63%	13.94%	-9.91%	-4.49%	7.75%	11.03%	12.70%	13.34%	15.01%	9.53%	3/31/2006	
Gross Expense Ratio		72														
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	9.87%		
Fund vs. Russell 1000 Growth Index			169	-58	5	-37	-97	-106	113	32	-97	-9	-44	-34		
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A		
Fund vs. Large Growth M*star Category			481	229	261	134	N/A	N/A	N/A	233	145	229	128	N/A		
PG: Fund % Rank in Large Growth M*star Category			21%	24%	14%	25%	N/A	N/A	N/A	25%	28%	16%	26%	N/A		
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LARGE-CAP GROWTH INDEX FUND (TRIRX)	\$6,121.60	31	25.91%	20.19%	16.21%	13.95%	-8.99%	-3.50%	6.33%	10.37%	13.32%	13.07%	15.09%	10.19%	10/1/2002	
Gross Expense Ratio		31														
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	10.59%		
Fund vs. Russell 1000 Growth Index			-39	-36	-37	-36	-5	-7	-29	-34	-35	-36	-36	-40		
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A		
Fund vs. Large Growth M*star Category			273	251	219	135	N/A	N/A	N/A	167	207	202	136	N/A		
PG: Fund % Rank in Large Growth M*star Category			31%	21%	20%	25%	N/A	N/A	N/A	33%	21%	20%	24%	N/A		
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LARGE-CAP VALUE FUND (TRLCX)	\$6,168.60	65	6.38%	12.68%	9.12%	9.69%	-8.02%	-7.55%	-5.80%	-2.11%	6.75%	6.40%	10.95%	8.78%	10/1/2002	
Gross Expense Ratio		65														
BM: Russell 1000 Value Index			9.45%	13.55%	10.72%	9.79%	-5.18%	-3.59%	-1.46%	3.03%	8.88%	8.61%	11.30%	9.14%		
Fund vs. Russell 1000 Value Index			-307	-87	-160	-10	-284	-396	-434	-514	-213	-221	-35	-36		
PG: Large Value M*star Category			10.84%	13.45%	10.19%	9.69%	N/A	N/A	N/A	3.34%	8.69%	8.03%	11.13%	N/A		
Fund vs. Large Value M*star Category			-446	-77	-107	0	N/A	N/A	N/A	-545	-194	-163	-18	N/A		
PG: Fund % Rank in Large Value M*star Category			92%	68%	80%	50%	N/A	N/A	N/A	95%	86%	89%	54%	N/A		
PG: # of funds in Large Value M*star Category			1274	1109	948	696	N/A	N/A	N/A	1249	1089	932	678	N/A		
Fund Star Rating			N/A	**	**	***	N/A	N/A	N/A	N/A	**	**	**	N/A		
TIAA-CREF LARGE-CAP VALUE INDEX FUND (TRCVX)	\$6,354.70	30	9.06%	13.20%	10.36%	9.45%	-5.18%	-3.64%	-1.71%	2.68%	8.54%	8.27%	10.95%	8.76%	10/1/2002	
Gross Expense Ratio		30														
BM: Russell 1000 Value Index			9.45%	13.55%	10.72%	9.79%	-5.18%	-3.59%	-1.46%	3.03%	8.88%	8.61%	11.30%	9.14%		
Fund vs. Russell 1000 Value Index			-39	-35	-36	-34	0	-5	-25	-35	-34	-34	-35	-38		
PG: Large Value M*star Category			10.84%	13.45%	10.19%	9.69%	N/A	N/A	N/A	3.34%	8.69%	8.03%	11.13%	N/A		
Fund vs. Large Value M*star Category			-178	-25	17	-24	N/A	N/A	N/A	-66	-15	24	-18	N/A		
PG: Fund % Rank in Large Value M*star Category			68%	58%	49%	58%	N/A	N/A	N/A	55%	57%	49%	54%	N/A		
PG: # of funds in Large Value M*star Category			1274	1109	948	696	N/A	N/A	N/A	1249	1089	932	678	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF MID-CAP GROWTH FUND (TRGMX)	\$1,363.90	72	18.77%	14.39%	10.53%	12.06%	-12.32%	-7.92%	-1.28%	2.04%	7.52%	7.23%	13.39%	10.72%	10/1/2002	
Gross Expense Ratio		72														
BM: Russell Mid Cap Growth Index			21.10%	16.65%	13.00%	13.46%	-9.90%	-5.11%	2.16%	6.14%	10.39%	10.10%	15.10%	11.71%		
Fund vs. Russell Mid Cap Growth Index			-233	-226	-247	-140	-242	-281	-344	-410	-287	-287	-171	-99		
PG: Mid-Cap Growth M*star Category			20.31%	15.81%	11.68%	11.97%	N/A	N/A	N/A	5.13%	9.74%	8.58%	13.28%	N/A		
Fund vs. Mid-Cap Growth M*star Category			-154	-142	-115	9	N/A	N/A	N/A	-309	-222	-135	11	N/A		
PG: Fund % Rank in Mid-Cap Growth M*star Category			60%	67%	75%	51%	N/A	N/A	N/A	75%	79%	77%	47%	N/A		
PG: # of funds in Mid-Cap Growth M*star Category			601	540	483	342	N/A	N/A	N/A	598	537	487	341	N/A		
Fund Star Rating			N/A	***	**	***	N/A	N/A	N/A	N/A	**	**	***	N/A		
TIAA-CREF MID-CAP VALUE FUND (TRVRX)	\$3,480.50	66	7.45%	11.19%	9.14%	10.00%	-8.32%	-8.06%	-5.06%	-2.33%	6.17%	6.53%	11.64%	10.76%	10/1/2002	
Gross Expense Ratio		66														
BM: Russell Mid Cap Value Index			8.81%	13.09%	10.72%	11.29%	-7.20%	-6.68%	-4.30%	0.16%	8.15%	8.11%	13.35%	11.10%		
Fund vs. Russell Mid Cap Value Index			-136	-190	-158	-129	-112	-138	-76	-249	-198	-158	-171	-34		
PG: Mid-Cap Value M*star Category			8.93%	12.59%	9.33%	10.41%	N/A	N/A	N/A	-0.20%	7.44%	6.70%	12.13%	N/A		
Fund vs. Mid-Cap Value M*star Category			-148	-140	-19	-41	N/A	N/A	N/A	-213	-127	-17	-49	N/A		
PG: Fund % Rank in Mid-Cap Value M*star Category			64%	75%	59%	62%	N/A	N/A	N/A	68%	71%	56%	63%	N/A		
PG: # of funds in Mid-Cap Value M*star Category			422	373	315	228	N/A	N/A	N/A	412	363	306	220	N/A		
Fund Star Rating			N/A	**	***	***	N/A	N/A	N/A	N/A	**	***	***	N/A		
TIAA-CREF QUANT SMALL-CAP EQUITY FUND (TRSEX)	\$3,348.90	66	13.41%	16.02%	11.46%	11.39%	-10.09%	-7.91%	-1.93%	0.60%	9.71%	8.43%	12.65%	10.48%	10/1/2002	
Gross Expense Ratio		66														
BM: Russell 2000 Index			15.24%	17.12%	11.07%	11.11%	-10.86%	-9.26%	-0.60%	1.85%	10.68%	8.01%	12.44%	10.64%		
Fund vs. Russell 2000 Index			-183	-110	39	28	77	135	-133							

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETIREMENT SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns					Since Inception	Inc. Date		
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year			5 Year	10 Year
10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18					
TIAA-CREF QUANT SMALL/MID-CAP EQUITY (TSMOX)^[15,16,4]	\$643.00	75	21.06%	N/A	N/A	N/A	-9.96%	-6.35%	1.89%	5.83%	N/A	N/A	N/A	12.74%	8/5/2016
Gross Expense Ratio		75													
BM: Russell 2500 Index			16.19%				-10.15%	-7.72%	-0.80%	2.80%				10.12%	
Fund vs. Russell 2500 Index			487				19	137	269	303				262	
PG: Small Blend M*star Category			12.14%				N/A	N/A	N/A	-0.07%				N/A	
Fund vs. Small Blend M*star Category			892				N/A	N/A	N/A	590				N/A	
PG: Fund % Rank in Small Blend M*star Category			3%				N/A	N/A	N/A	6%				N/A	
PG: # of funds in Small Blend M*star Category			778				N/A	N/A	N/A	784				N/A	
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A	
TIAA-CREF REAL ESTATE SECURITIES FUND (TRRSX)	\$2,049.80	76	5.58%	8.29%	9.79%	7.58%	-2.71%	-1.91%	-0.96%	1.87%	5.31%	8.35%	11.10%	9.86%	10/1/2002
Gross Expense Ratio		76													
BM: FTSE Nareit All Equity REITs Index			4.31%	8.97%	9.57%	7.77%	-2.65%	-2.75%	-0.91%	1.42%	5.76%	8.06%	11.65%	10.32%	
Fund vs. FTSE Nareit All Equity REITs Index			127	-68	22	-19	-6	84	-5	45	-45	29	-55	-46	
PG: Real Estate M*star Category			3.39%	7.24%	8.56%	7.13%	N/A	N/A	N/A	0.37%	4.16%	7.03%	10.70%	N/A	
Fund vs. Real Estate M*star Category			219	105	123	45	N/A	N/A	N/A	150	115	132	40	N/A	
PG: Fund % Rank in Real Estate M*star Category			11%	18%	9%	34%	N/A	N/A	N/A	36%	17%	9%	38%	N/A	
PG: # of funds in Real Estate M*star Category			253	222	191	138	N/A	N/A	N/A	252	222	190	138	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	***	N/A	
TIAA-CREF S&P 500 INDEX FUND (TRSPX)	\$4,775.10	31	17.51%	16.93%	13.59%	11.61%	-6.87%	-3.32%	2.72%	6.97%	11.16%	10.98%	12.88%	9.33%	10/1/2002
Gross Expense Ratio		31													
BM: S&P 500 Index			17.91%	17.31%	13.95%	11.97%	-6.84%	-3.25%	3.01%	7.35%	11.52%	11.34%	13.24%	9.71%	
Fund vs. S&P 500 Index			-40	-38	-36	-36	-3	-7	-29	-38	-36	-36	-36	-38	
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A	
Fund vs. Large Blend M*star Category			216	176	166	77	N/A	N/A	N/A	169	143	154	74	N/A	
PG: Fund % Rank in Large Blend M*star Category			31%	22%	19%	32%	N/A	N/A	N/A	31%	25%	20%	34%	N/A	
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF SMALL-CAP BLEND INDEX FUND (TRBIX)	\$2,666.50	31	15.10%	17.05%	11.03%	10.95%	-10.87%	-9.27%	-0.70%	1.75%	10.62%	7.96%	12.28%	10.42%	10/1/2002
Gross Expense Ratio		31													
BM: Russell 2000 Index			15.24%	17.12%	11.07%	11.11%	-10.86%	-9.26%	-0.60%	1.85%	10.68%	8.01%	12.44%	10.64%	
Fund vs. Russell 2000 Index			-14	-7	-4	-16	-1	-1	-10	-10	-6	-5	-16	-22	
PG: Small Blend M*star Category			12.14%	14.73%	9.71%	10.67%	N/A	N/A	N/A	-0.07%	8.86%	6.75%	12.10%	N/A	
Fund vs. Small Blend M*star Category			296	232	132	28	N/A	N/A	N/A	182	176	121	18	N/A	
PG: Fund % Rank in Small Blend M*star Category			29%	20%	28%	45%	N/A	N/A	N/A	36%	23%	30%	46%	N/A	
PG: # of funds in Small Blend M*star Category			778	652	539	388	N/A	N/A	N/A	784	653	542	395	N/A	
Fund Star Rating			N/A	****	****	***	N/A	N/A	N/A	N/A	****	***	***	N/A	
TIAA-CREF SOCIAL CHOICE EQUITY FUND (TRSCX)^[8]	\$3,620.40	43	15.99%	16.38%	12.02%	11.05%	-7.61%	-4.61%	0.98%	4.96%	10.55%	9.38%	12.38%	5.40%	7/1/1999
Gross Expense Ratio		43													10/1/2002
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	5.98%	
Fund vs. Russell 3000 Index			-159	-69	-144	-96	-25	-66	-145	-164	-72	-143	-97	-58	
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A	
Fund vs. Large Blend M*star Category			64	121	9	21	N/A	N/A	N/A	-32	82	-6	24	N/A	
PG: Fund % Rank in Large Blend M*star Category			51%	36%	59%	50%	N/A	N/A	N/A	64%	42%	61%	48%	N/A	
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF SOCIAL CHOICE LOW CARBON EQUITY FUND (TEWCX)	\$113.10	57	15.35%	16.33%	N/A	N/A	-7.76%	-4.58%	0.71%	4.26%	10.63%	N/A	N/A	9.52%	8/7/2015
Gross Expense Ratio		57													
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%			10.33%	
Fund vs. Russell 3000 Index			-223	-74			-40	-63	-172	-234	-64			-81	
PG: Large Blend M*star Category			15.35%	15.17%			N/A	N/A	N/A	5.28%	9.73%			N/A	
Fund vs. Large Blend M*star Category			0	116			N/A	N/A	N/A	-102	90			N/A	
PG: Fund % Rank in Large Blend M*star Category			57%	37%			N/A	N/A	N/A	72%	41%			N/A	
PG: # of funds in Large Blend M*star Category			1383	1196			N/A	N/A	N/A	1412	1218			N/A	
Fund Star Rating			N/A	***			N/A	N/A	N/A	N/A	***			N/A	
International Equities															
TIAA-CREF EMERGING MARKETS EQUITY FUND (TEMSX)	\$1,411.20	117	-9.82%	10.14%	1.60%	N/A	-6.72%	-14.24%	-20.19%	-18.63%	5.47%	-0.68%	N/A	1.08%	8/31/2010
Gross Expense Ratio		117													
BM: MS Emerging Market			-0.81%	12.36%	3.61%		-8.71%	-11.65%	-15.72%	-12.52%	6.52%	0.78%		2.25%	
Fund vs. MS Emerging Market			-901	-222	-201		199	-259	-447	-611	-105	-146		-117	
PG: Diversified Emerging Mkts M*star Category			-3.63%	10.09%	2.54%		N/A	N/A	N/A	-13.34%	4.90%	0.01%		N/A	
Fund vs. Diversified Emerging Mkts M*star Category			-619	5	-94		N/A	N/A	N/A	-529	57	-69		N/A	
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			93%	54%	74%		N/A	N/A	N/A	92%	45%	69%		N/A	
PG: # of funds in Diversified Emerging Mkts M*star Category			838	708	508		N/A	N/A	N/A	842	710	511		N/A	
Fund Star Rating			N/A	***	**		N/A	N/A	N/A	N/A	***	**		N/A	
TIAA-CREF EMERGING MARKETS EQUITY INDEX FUND (TEQSX)	\$2,403.30	46	-1.80%	11.71%	3.17%	N/A	-8.45%	-11.81%	-15.72%	-12.99%	6.23%	0.49%	N/A	1.66%	8/31/2010
Gross Expense Ratio		46													
BM: MS Emerging Market			-0.81%	12.36%	3.61%		-8.71%	-11.65%	-15.72%	-12.52%	6.52%	0.78%		2.25%	
Fund vs. MS Emerging Market			-99	-65	-44		26	-16	0	-47	-29	-29		-59	
PG: Diversified Emerging Mkts M*star Category			-3.63%	10.09%	2.54%		N/A	N/A	N/A	-13.34%	4.90%	0.01%		N/A	
Fund vs. Diversified Emerging Mkts M*star Category			183	162	63		N/A	N/A	N/A	35	133	48		N/A	
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			33%	32%	41%		N/A	N/A	N/A	45%	31%	45%		N/A	
PG: # of funds in Diversified Emerging Mkts M*star Category			838	708	508		N/A	N/A	N/A	842	710	511		N/A	
Fund Star Rating			N/A	****	***		N/A	N/A	N/A	N/A	***	***		N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETIREMENT SHARE CLASS

FOR PERIOD ENDING October 31, 2018
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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	
TIAA-CREF INTERNATIONAL EQUITY FUND (TRERX)^[5]	\$4,412.10	74	-3.42%	7.75%	3.75%	5.23%	-8.78%	-13.34%	-15.60%	-13.25%	2.30%	0.97%	7.14%	4.12%	7/1/1999
Gross Expense Ratio		74													10/1/2002
BM: Morgan Stanley EAFE Index			2.74%	9.23%	4.42%	5.38%	-7.96%	-8.95%	-9.28%	-6.85%	3.62%	2.02%	6.89%	3.72%	
Fund vs.Morgan Stanley EAFE Index			-616	-148	-67	-15	-82	-439	-632	-640	-132	-105	25	40	
PG: Foreign Large Blend M*star Category			1.55%	8.71%	4.05%	4.98%	N/A	N/A	N/A	-8.26%	3.41%	1.62%	6.50%	N/A	
Fund vs. Foreign Large Blend M*star Category			-497	-96	-30	25	N/A	N/A	N/A	-499	-111	-65	64	N/A	
PG: Fund % Rank in Foreign Large Blend M*star Category			96%	77%	63%	40%	N/A	N/A	N/A	98%	77%	76%	28%	N/A	
PG: # of funds in Foreign Large Blend M*star Category			783	655	535	379	N/A	N/A	N/A	763	642	523	387	N/A	
Fund Star Rating			N/A	**	**	**	N/A	N/A	N/A	N/A	**	**	***	N/A	
TIAA-CREF INTERNATIONAL EQUITY INDEX FUND (TRIEX)	\$11,343.80	31	2.35%	8.90%	4.26%	5.08%	-7.96%	-9.16%	-9.16%	-7.29%	3.66%	1.92%	6.62%	7.05%	10/1/2002
Gross Expense Ratio		31													
BM: Morgan Stanley EAFE Index			2.74%	9.23%	4.42%	5.38%	-7.96%	-8.95%	-9.28%	-6.85%	3.62%	2.02%	6.89%	7.30%	
Fund vs.Morgan Stanley EAFE Index			-39	-33	-16	-30	0	-21	12	-44	4	-10	-27	-25	
PG: Foreign Large Blend M*star Category			1.55%	8.71%	4.05%	4.98%	N/A	N/A	N/A	-8.26%	3.41%	1.62%	6.50%	N/A	
Fund vs. Foreign Large Blend M*star Category			80	19	21	10	N/A	N/A	N/A	97	25	30	12	N/A	
PG: Fund % Rank in Foreign Large Blend M*star Category			38%	51%	44%	45%	N/A	N/A	N/A	35%	48%	42%	46%	N/A	
PG: # of funds in Foreign Large Blend M*star Category			783	655	535	379	N/A	N/A	N/A	763	642	523	387	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF INTERNATIONAL OPPORTUNITIES FUND (TIOTX)	\$1,512.50	88	5.92%	11.17%	5.88%	N/A	-11.37%	-12.21%	-10.57%	-7.34%	5.62%	2.74%	N/A	4.01%	4/12/2013
Gross Expense Ratio		88													
BM: MSCI AC World Index ex USA			1.76%	9.97%	4.12%		-8.13%	-9.65%	-10.97%	-8.24%	4.37%	1.63%		3.10%	
Fund vs.MSCI AC World Index ex USA			416	120	176		-324	-256	40	90	125	111		91	
PG: Foreign Large Growth M*star Category			4.08%	10.28%	5.74%		N/A	N/A	N/A	-7.67%	4.35%	3.03%		N/A	
Fund vs. Foreign Large Growth M*star Category			184	89	14		N/A	N/A	N/A	33	127	-29		N/A	
PG: Fund % Rank in Foreign Large Growth M*star Category			27%	31%	37%		N/A	N/A	N/A	45%	26%	50%		N/A	
PG: # of funds in Foreign Large Growth M*star Category			426	347	313		N/A	N/A	N/A	445	358	324		N/A	
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A	
TIAA-CREF QUANT INTERNATIONAL SMALL-CAP EQUITY FUND (TTISX)^[7,4]	\$884.60	101	-4.43%	N/A	N/A	N/A	-10.14%	-13.05%	-18.61%	-15.79%	N/A	N/A	N/A	4.39%	12/9/2016
Gross Expense Ratio		104													
BM: MSCI ACWI ex-US Small Cap Index			1.86%				-9.73%	-11.71%	-13.71%	-9.73%				7.31%	
Fund vs.MSCI ACWI ex-US Small Cap Index			-629				-41	-134	-490	-606				-292	
PG: Foreign Small/Mid Value M*star Category			-1.55%				N/A	N/A	N/A	-11.19%				N/A	
Fund vs. Foreign Small/Mid Value M*star Category			-288				N/A	N/A	N/A	-460				N/A	
PG: Fund % Rank in Foreign Small/Mid Value M*star Category			79%				N/A	N/A	N/A	96%				N/A	
PG: # of funds in Foreign Small/Mid Value M*star Category			63				N/A	N/A	N/A	61				N/A	
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A	
TIAA-CREF SOCIAL CHOICE INTERNATIONAL EQUITY FUND (TSOEX)	\$61.20	65	2.14%	9.09%	N/A	N/A	-8.34%	-8.75%	-9.41%	-7.72%	3.69%	N/A	N/A	1.86%	8/7/2015
Gross Expense Ratio		145													
BM: Morgan Stanley EAFE Index			2.74%	9.23%			-7.96%	-8.95%	-9.28%	-6.85%	3.62%			1.84%	
Fund vs.Morgan Stanley EAFE Index			-60	-14			-38	20	-13	-87	7			2	
PG: Foreign Large Blend M*star Category			1.55%	8.71%			N/A	N/A	N/A	-8.26%	3.41%			N/A	
Fund vs. Foreign Large Blend M*star Category			59	38			N/A	N/A	N/A	54	28			N/A	
PG: Fund % Rank in Foreign Large Blend M*star Category			43%	44%			N/A	N/A	N/A	43%	46%			N/A	
PG: # of funds in Foreign Large Blend M*star Category			783	655			N/A	N/A	N/A	763	642			N/A	
Fund Star Rating			N/A	***			N/A	N/A	N/A	N/A	***			N/A	
Fixed Income															
TIAA-CREF BOND FUND (TIDRX)^[5]	\$5,718.20	55	-1.29%	1.91%	2.61%	4.06%	-0.73%	-0.94%	-2.43%	-2.22%	1.56%	2.20%	4.23%	4.68%	7/1/1999
Gross Expense Ratio		55													3/31/2006
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	4.66%	
Fund vs.Bloomberg Barclays U.S. Aggregate Bond Index			-7	60	45	29	6	-15	-5	-17	52	37	29	2	
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%	4.21%	N/A	N/A	N/A	-1.87%	1.30%	1.79%	4.55%	N/A	
Fund vs. Intermediate-Term Bond M*star Category			-23	26	47	-15	N/A	N/A	N/A	-35	26	41	-32	N/A	
PG: Fund % Rank in Intermediate-Term Bond M*star Category			53%	33%	24%	58%	N/A	N/A	N/A	65%	34%	25%	63%	N/A	
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796	577	N/A	N/A	N/A	1027	887	785	568	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF BOND INDEX FUND (TBIRX)	\$10,409.90	37	-1.65%	0.88%	1.76%	N/A	-0.75%	-0.81%	-2.68%	-2.38%	0.60%	1.47%	N/A	2.54%	9/14/2009
Gross Expense Ratio		37													
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	2.98%	
Fund vs.Bloomberg Barclays U.S. Aggregate Bond Index			-43	-43	-40		4	-2	-30	-33	-44	-36		-44	
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%	4.21%	N/A	N/A	N/A	-1.87%	1.30%	1.79%		N/A	
Fund vs. Intermediate-Term Bond M*star Category			-59	-77	-38		N/A	N/A	N/A	-51	-70	-32		N/A	
PG: Fund % Rank in Intermediate-Term Bond M*star Category			77%	82%	70%	38%	N/A	N/A	N/A	73%	83%	69%		N/A	
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796	577	N/A	N/A	N/A	1027	887	785		N/A	
Fund Star Rating			N/A	**	**		N/A	N/A	N/A	N/A	**	**		N/A	
TIAA-CREF BOND PLUS FUND (TCBRX)	\$4,177.60	55	-1.01%	2.24%	2.78%	4.55%	-0.73%	-0.91%	-2.12%	-1.87%	1.81%	2.38%	4.82%	4.02%	3/31/2006
Gross Expense Ratio		55													
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.93%	
Fund vs.Bloomberg Barclays U.S. Aggregate Bond Index			21	93	62	78	6	-12	26	18	77	55	88	9	
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%	4.21%	N/A	N/A	N/A	-1.87%	1.30%	1.79%	4.55%	N/A	
Fund vs. Intermediate-Term Bond M*star Category			5	59	64	34	N/A	N/A	N/A	0	51	59	27	N/A	
PG: Fund % Rank in Intermediate-Term Bond M*star Category			40%	21%	17%	38%	N/A	N/A	N/A	45%	23%	17%	40%	N/A	
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796	577	N/A	N/A	N/A	1027	887	785	568	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF EMERGING MARKETS DEBT FUND (TEDTX)	\$452.70	90	-3.41%	7.34%	N/A	N/A	-2.03%	-3.49%	-6.70%	-5.73%	5.46%	N/A	N/A	3.17%	9/26/2014
Gross Expense Ratio		90													
BM: J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified			-1.92%	6.04%			-2.16%	-2.40%	-5.13%	-4.39%	4.33%			3.51%	
Fund vs.J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified			-149	130			13	-109	-157	-134	113			-34	
PG: Emerging Markets Bond M*star Category			-3.56%	5.59%			N/A	N/A	N/A	-4.95%	3.93%			N/A	
Fund vs. Emerging Markets Bond M*star Category			15	175			N/A	N/A	N/A	-78	153			N/A	
PG: Fund % Rank in Emerging Markets Bond M*star Category			48%	13%			N/A	N/A	N/A	57%	12%			N/A	
PG: # of funds in Emerging Markets Bond M*star Category			287	222			N/A	N/A	N/A	293	230			N/A	
Fund Star Rating			N/A	***			N/A	N/A	N/A	N/A	***			N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETIREMENT SHARE CLASS

FOR PERIOD ENDING October 31, 2018
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FUND	Total Portfolio Net Assets (in \$Mil.) 10/31/18	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Return				Avg. Annual Return								
			1 Year 10/01/17 to 09/30/18	3 Year 10/01/15 to 09/30/18	5 Year 10/01/13 to 09/30/18	10 Year 10/01/08 to 09/30/18	1 Month 10/01/18 to 10/31/18	3 Month 08/01/18 to 10/31/18	YTD 01/01/18 to 10/31/18	1 Year 11/01/17 to 10/31/18	3 Year 11/01/15 to 10/31/18	5 Year 11/01/13 to 10/31/18	10 Year 11/01/08 to 10/31/18	Since Inception 10/31/18 to Inc. Date	
TIAA-CREF HIGH YIELD FUND (TIHRX)^[6]	\$3,864.90	61	3.23%	7.17%	5.02%	8.32%	-1.82%	-0.52%	0.73%	0.96%	5.56%	4.04%	9.55%	6.48%	3/31/2006
Gross Expense Ratio 61															
BM: ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)			2.30%	7.34%	5.38%	8.54%	-1.47%	-0.20%	0.41%	0.34%	5.78%	4.56%	10.18%	6.65%	
Fund vs. ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)			93	-17	-36	-22	-35	-32	32	62	-22	-52	-63	-17	
PG: High Yield Bond M*star Category			2.36%	6.41%	4.31%	7.62%	N/A	N/A	N/A	0.45%	5.12%	3.52%	9.19%	N/A	
Fund vs. High Yield Bond M*star Category			87	76	71	70	N/A	N/A	N/A	51	44	52	36	N/A	
PG: Fund % Rank in High Yield Bond M*star Category			25%	28%	24%	27%	N/A	N/A	N/A	37%	35%	28%	41%	N/A	
PG: # of funds in High Yield Bond M*star Category			692	592	502	331	N/A	N/A	N/A	697	603	505	332	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	***	****	***	N/A	
TIAA-CREF INFLATION-LINKED BOND FUND (TIKRX)^[5]	\$2,985.90	51	-0.05%	1.13%	0.67%	2.64%	-0.80%	-0.90%	-1.42%	-1.02%	0.77%	0.42%	3.48%	3.57%	10/1/2002
Gross Expense Ratio 51															
BM: Bloomberg Barclays US TIPS 1-10 Year Index			0.33%	1.65%	0.94%	2.52%	-0.78%	-0.80%	-0.98%	-0.61%	1.38%	0.69%	3.29%	3.53%	3/31/2006
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-38	-52	-27	12	-2	-10	-44	-41	-61	-27	19	4	
PG: Inflation-Protected Bond M*star Category			0.42%	1.95%	0.97%	2.89%	N/A	N/A	N/A	-1.23%	1.30%	0.58%	3.61%	N/A	
Fund vs. Inflation-Protected Bond M*star Category			-47	-82	-30	-25	N/A	N/A	N/A	21	-53	-16	-13	N/A	
PG: Fund % Rank in Inflation-Protected Bond M*star Category			82%	86%	65%	70%	N/A	N/A	N/A	35%	87%	60%	63%	N/A	
PG: # of funds in Inflation-Protected Bond M*star Category			236	207	174	107	N/A	N/A	N/A	235	206	173	107	N/A	
Fund Star Rating			N/A	**	***	**	N/A	N/A	N/A	N/A	**	***	***	N/A	
TIAA-CREF INTERNATIONAL BOND FUND (TIBVX)^[4]	\$353.90	90	0.63%	N/A	N/A	N/A	-0.31%	-0.92%	-0.92%	-0.18%	N/A	N/A	N/A	0.52%	8/5/2016
Gross Expense Ratio 95															
BM: Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			2.40%				0.29%	0.13%	1.54%	1.98%				1.04%	
Fund vs. Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			-177				-60	-105	-246	-216				-52	
PG: World Bond M*star Category			-1.23%				N/A	N/A	N/A	N/A	-1.91%				
Fund vs. World Bond M*star Category			186				N/A	N/A	N/A	173					
PG: Fund % Rank in World Bond M*star Category			20%				N/A	N/A	N/A	26%					
PG: # of funds in World Bond M*star Category			310				N/A	N/A	N/A	310					
Fund Star Rating			N/A				N/A	N/A	N/A	N/A					
TIAA-CREF SHORT-TERM BOND FUND (TISRXX)	\$1,805.10	52	0.53%	1.24%	1.16%	2.34%	0.00%	0.26%	0.51%	0.49%	1.23%	1.06%	2.36%	2.56%	3/31/2006
Gross Expense Ratio 52															
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			0.20%	0.73%	0.83%	1.67%	0.11%	0.39%	0.52%	0.34%	0.77%	0.82%	1.66%	2.35%	
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			33	51	33	67	-11	-13	-1	15	46	24	70	21	
PG: Short-Term Bond M*star Category			0.43%	1.36%	1.24%	2.52%	N/A	N/A	N/A	0.32%	1.29%	1.14%	2.72%	N/A	
Fund vs. Short-Term Bond M*star Category			10	-12	-8	-18	N/A	N/A	N/A	17	-6	-8	-36	N/A	
PG: Fund % Rank in Short-Term Bond M*star Category			41%	50%	52%	56%	N/A	N/A	N/A	41%	49%	53%	58%	N/A	
PG: # of funds in Short-Term Bond M*star Category			533	474	400	260	N/A	N/A	N/A	536	472	399	260	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF SHORT-TERM BOND INDEX FUND (TESHX)	\$434.90	37	-0.08%	0.31%	N/A	N/A	0.06%	0.28%	0.28%	-0.02%	0.35%	N/A	N/A	0.39%	8/7/2015
Gross Expense Ratio 43															
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			0.20%	0.73%			0.11%	0.39%	0.52%	0.34%	0.77%			0.81%	
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-28	-42			-5	-11	-24	-36	-42			-42	
PG: Short-Term Bond M*star Category			0.43%	1.36%			N/A	N/A	N/A	0.32%	1.29%	1.14%	2.72%	N/A	
Fund vs. Short-Term Bond M*star Category			-51	-105			N/A	N/A	N/A	-34	-94			N/A	
PG: Fund % Rank in Short-Term Bond M*star Category			73%	92%			N/A	N/A	N/A	66%	90%			N/A	
PG: # of funds in Short-Term Bond M*star Category			533	474			N/A	N/A	N/A	536	472			N/A	
Fund Star Rating			N/A	*			N/A	N/A	N/A	N/A	**			N/A	
TIAA-CREF SOCIAL CHOICE BOND FUND (TSBBX)	\$2,626.80	64	-0.72%	1.71%	3.05%	N/A	-0.67%	-0.70%	-1.95%	-1.57%	1.45%	2.72%	N/A	2.30%	9/21/2012
Gross Expense Ratio 64															
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.41%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			50	40	89		12	9	43	48	41	89		89	
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%		N/A	N/A	N/A	-1.87%	1.30%	1.79%		N/A	
Fund vs. Intermediate-Term Bond M*star Category			34	6	91		N/A	N/A	N/A	30	15	93		N/A	
PG: Fund % Rank in Intermediate-Term Bond M*star Category			28%	43%	9%		N/A	N/A	N/A	29%	41%	7%		N/A	
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796		N/A	N/A	N/A	1027	887	785		N/A	
Fund Star Rating			N/A	***	*****		N/A	N/A	N/A	N/A	***	*****		N/A	
Multi-Asset															
TIAA-CREF LIFECYCLE 2010 FUND (TCLCX)^[10,9]	\$1,195.00	62	4.28%	7.29%	5.74%	6.67%	-3.75%	-3.26%	-2.12%	-0.63%	4.70%	4.42%	7.55%	5.33%	10/15/2004
Gross Expense Ratio 74															
BM: Lifecycle 2010 Fund Composite Index			4.84%	7.13%	5.74%	6.60%	-3.57%	-2.72%	-1.59%	0.16%	4.63%	4.50%	7.43%	5.47%	
Fund vs. Lifecycle 2010 Fund Composite Index			-56	16	0	7	-18	-54	-53	-79	7	-8	12	-14	
BM: S&P Target Date 2010 Index			4.36%	6.38%	5.09%	5.84%	-3.35%	-2.67%	-1.62%	0.01%	4.15%	3.97%	6.61%	5.00%	
Fund vs. S&P Target Date 2010 Index			-8	91	65	83	-40	-59	-50	-64	55	45	94	33	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.67%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			550	598	358	290	-296	-247	26	142	366	259	361	166	
PG: Target-Date 2000-2010 M*star Category			3.40%	6.33%	4.87%	5.92%	N/A	N/A	N/A	-0.63%	4.09%	3.78%	6.98%	N/A	
Fund vs. Target-Date 2000-2010 M*star Category			88	96	87	75	N/A	N/A	N/A	0	61	64	57	N/A	
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			16%	10%	8%	15%	N/A	N/A	N/A	59%	12%	16%	27%	N/A	
PG: # of funds in Target-Date 2000-2010 M*star Category			137	113	91	76	N/A	N/A	N/A	137	113	91	76	N/A	
Fund Star Rating			N/A	*****	*****	*****	N/A	N/A	N/A	N/A	*****	*****	*****	N/A	
TIAA-CREF LIFECYCLE 2015 FUND (TCLIX)^[10,9]	\$1,809.50	63	4.88%	7.94%	6.23%	7.04%	-4.22%	-3.68%	-2.35%	-0.73%	5.06%	4.73%	8.03%	5.54%	10/15/2004
Gross Expense Ratio 75															
BM: Lifecycle 2015 Fund Composite Index			5.47%	7.82%	6.24%	6.97%	-3.94%	-2.99%	-1.65%	0.28%	5.04%	4.87%	7.92%	5.69%	
Fund vs. Lifecycle 2015 Fund Composite Index			-59	12	-1	7	-28	-69	-70	-101	2	-14	11	-15	
BM: S&P Target Date 2015 Index			5.09%	7.42%	5.85%	6.53%	-3.79%	-3.03%	-1.70%	0.14%	4.78%	4.55%	7.44%	5.49%	
Fund vs. S&P Target Date 2015 Index			-21	52	38	51	-43	-65	-65	-87	28	18	59	5	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.67%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			610	663	407	327	-343	-289	3	132	402	290	409	187	
PG: Target-Date 2015 M*star Category			4.24%	7.04%	5.34%	6.40%	N/A	N/A	N/A	-0.46%	4.48%	4.08%	7.56%	N/A	
Fund vs. Target-Date 2015 M*star Category			64	90	89	64	N/A	N/A	N/A	-27	58	65	47	N/A	
PG: Fund % Rank in Target-Date 2015 M*star Category			26%	14%	14%	21%	N/A	N/A	N/A	70%	19%	20%	29%	N/A	
PG: # of funds in Target-Date 2015 M*star Category			139	111	77	49	N/A	N/A	N/A	136	110	77	49	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	***	N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETIREMENT SHARE CLASS

FOR PERIOD ENDING October 31, 2018
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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date	
10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	10/31/18 to 10/31/18	10/31/18 to 10/31/18	10/15/2004			
TIAA-CREF LIFECYCLE 2020 FUND (TCLTX) ^{[1],[9]}	\$3,635.80	64	5.71%	8.85%	6.83%	7.49%	-4.72%	-4.07%	-2.45%	-0.56%	5.57%	5.18%	8.60%	5.74%	10/15/2004	
Gross Expense Ratio		75														
BM: Lifecycle 2020 Fund Composite Index			6.30%	8.77%	6.88%	7.44%	-4.37%	-3.32%	-1.68%	0.49%	5.60%	5.35%	8.52%	5.91%		
Fund vs. Lifecycle 2020 Fund Composite Index			-59	8	-5	5	-35	-75	-77	-105	-3	-17	8	-17		
BM: S&P Target Date 2020 Index			5.78%	8.36%	6.49%	7.09%	-4.19%	-3.37%	-1.80%	0.25%	5.35%	5.04%	8.14%	5.88%		
Fund vs. S&P Target Date 2020 Index			-7	49	34	40	-53	-70	-65	-81	22	14	46	-14		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-1187	-822	-663	-452	264	-12	-488	-716	-570	-563	-475	-323		
PG: Target-Date 2020 M*star Category			4.70%	7.51%	5.59%	6.56%	N/A	N/A	N/A	-0.60%	4.69%	4.22%	7.78%	N/A		
Fund vs. Target-Date 2020 M*star Category			101	134	124	93	N/A	N/A	N/A	4	88	96	82	N/A		
PG: Fund % Rank in Target-Date 2020 M*star Category			20%	12%	9%	18%	N/A	N/A	N/A	51%	16%	14%	23%	N/A		
PG: # of funds in Target-Date 2020 M*star Category			253	205	171	107	N/A	N/A	N/A	252	204	171	108	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2025 FUND (TCLFX) ^{[1],[9]}	\$4,259.40	66	6.68%	9.87%	7.51%	7.95%	-5.41%	-4.65%	-2.67%	-0.56%	6.11%	5.63%	9.16%	5.94%	10/15/2004	
Gross Expense Ratio		77														
BM: Lifecycle 2025 Fund Composite Index			7.36%	9.87%	7.60%	7.95%	-4.94%	-3.74%	-1.73%	0.72%	6.26%	5.88%	9.12%	6.15%		
Fund vs. Lifecycle 2025 Fund Composite Index			-68	0	-9	0	-47	-91	-94	-128	-15	-25	4	-21		
BM: S&P Target Date 2025 Index			6.86%	9.45%	7.13%	7.59%	-4.86%	-3.92%	-1.99%	0.38%	5.98%	4.22%	8.72%	6.22%		
Fund vs. S&P Target Date 2025 Index			-18	42	38	36	-55	-73	-68	-94	13	15	44	-28		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-1090	-720	-595	-406	195	-70	-510	-716	-516	-518	-419	-303		
PG: Target-Date 2025 M*star Category			5.85%	8.80%	6.39%	7.33%	N/A	N/A	N/A	-0.49%	5.43%	4.79%	8.63%	N/A		
Fund vs. Target-Date 2025 M*star Category			83	107	112	62	N/A	N/A	N/A	-7	68	84	53	N/A		
PG: Fund % Rank in Target-Date 2025 M*star Category			27%	14%	9%	26%	N/A	N/A	N/A	60%	21%	14%	28%	N/A		
PG: # of funds in Target-Date 2025 M*star Category			223	180	141	72	N/A	N/A	N/A	223	179	141	72	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2030 FUND (TCLNX) ^{[1],[9]}	\$4,206.50	67	7.73%	10.92%	8.16%	8.34%	-6.08%	-5.22%	-2.82%	-0.47%	6.63%	6.05%	9.66%	6.09%	10/15/2004	
Gross Expense Ratio		78														
BM: Lifecycle 2030 Fund Composite Index			8.42%	10.98%	8.32%	8.42%	-5.51%	-4.16%	-1.79%	0.95%	6.91%	6.40%	9.70%	6.37%		
Fund vs. Lifecycle 2030 Fund Composite Index			-69	-6	-16	-8	-57	-106	-103	-142	-28	-35	-4	-28		
BM: S&P Target Date 2030 Index			7.99%	10.47%	7.78%	8.02%	-5.60%	-4.53%	-2.20%	0.48%	6.54%	5.91%	9.21%	6.48%		
Fund vs. S&P Target Date 2030 Index			-26	45	38	32	-48	-69	-62	-95	9	14	45	-39		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-985	-615	-530	-367	128	-127	-525	-707	-464	-476	-369	-288		
PG: Target-Date 2030 M*star Category			6.89%	9.88%	7.06%	7.56%	N/A	N/A	N/A	-0.44%	6.02%	5.25%	8.92%	N/A		
Fund vs. Target-Date 2030 M*star Category			84	104	110	78	N/A	N/A	N/A	-3	61	80	74	N/A		
PG: Fund % Rank in Target-Date 2030 M*star Category			24%	16%	13%	24%	N/A	N/A	N/A	51%	27%	19%	23%	N/A		
PG: # of funds in Target-Date 2030 M*star Category			242	195	161	97	N/A	N/A	N/A	241	194	161	98	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2035 FUND (TCLRX) ^{[1],[9]}	\$4,271.20	68	8.82%	11.92%	8.76%	8.79%	-6.78%	-5.83%	-3.07%	-0.37%	7.18%	6.44%	10.14%	6.39%	10/15/2004	
Gross Expense Ratio		79														
BM: Lifecycle 2035 Fund Composite Index			9.51%	12.08%	8.98%	8.95%	-6.07%	-4.58%	-1.82%	1.20%	7.54%	6.87%	10.27%	6.73%		
Fund vs. Lifecycle 2035 Fund Composite Index			-69	-16	-22	-16	-71	-125	-125	-157	-36	-43	-13	-34		
BM: S&P Target Date 2035 Index			8.99%	11.44%	8.39%	8.39%	-6.25%	-5.08%	-2.41%	0.54%	7.08%	6.31%	9.63%	6.68%		
Fund vs. S&P Target Date 2035 Index			-17	48	37	40	-53	-75	-66	-91	10	13	51	-29		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-876	-515	-470	-322	58	-188	-550	-697	-409	-437	-321	-258		
PG: Target-Date 2035 M*star Category			8.03%	11.01%	7.74%	8.20%	N/A	N/A	N/A	-0.23%	6.65%	5.71%	9.57%	N/A		
Fund vs. Target-Date 2035 M*star Category			79	91	102	59	N/A	N/A	N/A	-14	53	73	57	N/A		
PG: Fund % Rank in Target-Date 2035 M*star Category			24%	17%	14%	24%	N/A	N/A	N/A	56%	28%	19%	24%	N/A		
PG: # of funds in Target-Date 2035 M*star Category			218	175	136	67	N/A	N/A	N/A	215	174	136	67	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2040 FUND (TCLOX) ^{[1],[9]}	\$5,156.80	69	9.89%	12.90%	9.31%	9.18%	-7.49%	-6.41%	-3.24%	-0.37%	7.67%	6.78%	10.43%	6.74%	10/15/2004	
Gross Expense Ratio		80														
BM: Lifecycle 2040 Fund Composite Index			10.65%	13.19%	9.60%	9.37%	-6.62%	-4.98%	-1.80%	1.49%	8.19%	7.31%	10.63%	7.10%		
Fund vs. Lifecycle 2040 Fund Composite Index			-76	-29	-29	-19	-87	-143	-144	-186	-52	-53	-20	-36		
BM: S&P Target Date 2040 Index			9.68%	12.11%	8.79%	8.67%	-6.66%	-5.44%	-2.53%	0.62%	7.46%	6.59%	9.92%	6.85%		
Fund vs. S&P Target Date 2040 Index			21	79	52	51	-83	-97	-71	-99	21	19	51	-11		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.97%		
Fund vs. Russell 3000 Index			-769	-417	-415	-283	-13	-246	-567	-697	-360	-403	-292	-223		
PG: Target-Date 2040 M*star Category			8.60%	11.56%	8.07%	8.20%	N/A	N/A	N/A	-0.34%	6.92%	5.92%	9.60%	N/A		
Fund vs. Target-Date 2040 M*star Category			129	134	124	98	N/A	N/A	N/A	-3	75	86	83	N/A		
PG: Fund % Rank in Target-Date 2040 M*star Category			15%	11%	7%	17%	N/A	N/A	N/A	53%	23%	18%	19%	N/A		
PG: # of funds in Target-Date 2040 M*star Category			242	195	161	97	N/A	N/A	N/A	241	194	161	98	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2045 FUND (TTRFX) ^{[1],[9]}	\$2,787.90	70	10.52%	13.41%	9.58%	9.17%	-8.03%	-6.83%	-3.42%	-0.37%	7.93%	6.93%	10.45%	5.03%	11/30/2007	
Gross Expense Ratio		81														
BM: Lifecycle 2045 Fund Composite Index			11.34%	13.72%	9.90%	9.52%	-7.00%	-5.27%	-1.84%	1.60%	8.53%	7.52%	10.74%	5.76%		
Fund vs. Lifecycle 2045 Fund Composite Index			-82	-31	-32	-35	-103	-156	-158	-197	-60	-59	-29	-73		
BM: S&P Target Date 2045 Index			9.98%	12.54%	9.05%	8.79%	-6.88%	-5.65%	-2.65%	0.59%	7.70%	6.76%	10.08%	5.16%		
Fund vs. S&P Target Date 2045 Index			54	87	53	38	-115	-118	-77	-96	23	17	37	-13		
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.03%		
Fund vs. Russell 3000 Index			-706	-366	-388	-284	-67	-288	-585	-697	-334	-388	-290	-300		
PG: Target-Date 2045 M*star Category			9.22%	12.14%	8.42%	8.54%	N/A	N/A	N/A	-0.19%	7.23%	6.15%	9.95%	N/A		
Fund vs. Target-Date 2045 M*star Category			130	127	116	63	N/A	N/A	N/A	-18	70	78	50	N/A		
PG: Fund % Rank in Target-Date 2045 M*star Category			15%	4%	6%	24%	N/A	N/A	N/A	59%	19%	17%	25%	N/A		
PG: # of funds in Target-Date 2045 M*star Category			218	175	136	66	N/A	N/A	N/A	215	174	136	66	N/A		
Fund Star Rating			N/A	****	****	****										

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETIREMENT SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns															
			Avg. Annual Return				Avg. Annual Return															
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date							
TIAA-CREF LIFECYCLE 2050 FUND (TLFRX) ^[11,9]	\$1,831.70	70	10.74%	13.55%	9.68%	9.11%	10/01/17	10/01/15	10/01/13	10/01/08	10/01/18	08/01/18	01/01/18	11/01/17	11/01/15	11/01/13	11/01/08	10/31/18	10/31/18	10/31/18	11/30/2007	
Gross Expense Ratio		82																				
BM: Lifecycle 2050 Fund Composite Index			11.51%	13.90%	10.00%	9.57%					-7.09%	-5.33%	-1.84%	1.65%	8.67%	7.60%	10.78%	5.80%				
Fund vs. Lifecycle 2050 Fund Composite Index			-7.77	-32	-32	-46					-97	-154	-156	-201	-61	-61	-37	-75				
BM: S&P Target Date 2050 Index			10.26%	12.92%	9.29%	8.96%					-7.05%	-5.81%	-2.71%	0.62%	7.93%	6.94%	10.24%	5.30%				
Fund vs. S&P Target Date 2050 Index			48	66	39	15					-101	-106	-69	-98	13	5	17	-25				
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%					-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.03%				
Fund vs. Russell 3000 Index			-684	-349	-378	-290					-70	-292	-583	-696	-321	-382	-294	-298				
PG: Target-Date 2050 M*star Category			9.23%	12.16%	8.45%	8.38%					N/A	N/A	N/A	-0.40%	7.22%	6.16%	9.77%	N/A				
Fund vs. Target-Date 2050 M*star Category			151	142	123	73					N/A	N/A	N/A	4	84	83	64	N/A				
PG: Fund % Rank in Target-Date 2050 M*star Category			15%	4%	6%	22%					N/A	N/A	N/A	53%	10%	17%	24%	N/A				
PG: # of funds in Target-Date 2050 M*star Category			238	190	156	74					N/A	N/A	N/A	237	189	156	75	N/A				
Fund Star Rating			N/A	****	****	****					N/A	N/A	N/A	N/A	****	****	****	N/A				
TIAA-CREF LIFECYCLE 2055 FUND (TTRRX) ^[11,9]	\$592.20	70	10.83%	13.71%	9.74%	N/A					-8.13%	-6.90%	-3.41%	-0.31%	8.17%	7.07%	N/A	7.82%			4/29/2011	
Gross Expense Ratio		84																				
BM: Lifecycle 2055 Fund Composite Index			11.69%	14.09%	10.11%						-7.18%	-5.40%	-1.84%	1.69%	8.81%	7.69%		8.42%				
Fund vs. Lifecycle 2055 Fund Composite Index			-86	-38	-37						-95	-150	-157	-200	-64	-62		-60				
BM: S&P Target Date 2055 Index			10.32%	13.13%	9.42%						-7.08%	-5.84%	-2.72%	0.62%	8.06%	7.04%		7.77%				
Fund vs. S&P Target Date 2055 Index			51	58	32						-105	-106	-69	-93	11	3		5				
BM: Russell 3000 Index			17.58%	17.07%	13.46%						-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		11.53%				
Fund vs. Russell 3000 Index			-675	-336	-372						-77	-295	-584	-691	-310	-374		-371				
PG: Target-Date 2055 M*star Category			9.51%	12.41%	8.71%						N/A	N/A	N/A	-0.20%	7.38%	6.36%		N/A				
Fund vs. Target-Date 2055 M*star Category			132	130	103						N/A	N/A	N/A	-11	79	71		N/A				
PG: Fund % Rank in Target-Date 2055 M*star Category			15%	6%	9%						N/A	N/A	N/A	59%	8%	14%		N/A				
PG: # of funds in Target-Date 2055 M*star Category			218	173	112						N/A	N/A	N/A	218	172	112		N/A				
Fund Star Rating			N/A	****	****						N/A	N/A	N/A	N/A	****	****		N/A				
TIAA-CREF LIFECYCLE 2060 FUND (TLXRX) ^[11,9]	\$107.80	70	10.95%	13.86%	N/A	N/A					-8.23%	-7.03%	-3.48%	-0.35%	8.25%	N/A	N/A	6.87%			9/26/2014	
Gross Expense Ratio		104																				
BM: Lifecycle 2060 Fund Composite Index			11.87%	14.27%							-7.26%	-5.46%	-1.84%	1.73%	8.95%			7.20%				
Fund vs. Lifecycle 2060 Fund Composite Index			-92	-41							-97	-157	-164	-208	-70			-33				
BM: S&P Target Date 2060+ Index			10.60%	13.34%							-7.11%	-5.82%	-2.60%	0.80%	8.22%			6.67%				
Fund vs. S&P Target Date 2060+ Index			35	52							-112	-121	-88	-115	3			20				
BM: Russell 3000 Index			17.58%	17.07%							-7.36%	-3.95%	2.43%	6.60%	11.27%			9.86%				
Fund vs. Russell 3000 Index			-663	-321							-87	-308	-591	-695	-302			-299				
PG: Target-Date 2060+ M*star Category			9.74%	12.66%							N/A	N/A	N/A	-0.16%	7.60%			N/A				
Fund vs. Target-Date 2060+ M*star Category			121	120							N/A	N/A	N/A	-19	65			N/A				
PG: Fund % Rank in Target-Date 2060+ M*star Category			11%	7%							N/A	N/A	N/A	62%	11%			N/A				
PG: # of funds in Target-Date 2060+ M*star Category			190	76							N/A	N/A	N/A	189	75			N/A				
Fund Star Rating			N/A	****							N/A	N/A	N/A	N/A	****			N/A				
TIAA-CREF LIFECYCLE INDEX 2010 FUND (TLTRX) ^[10,9]	\$409.30	35	4.39%	6.68%	5.45%	N/A					-3.55%	-2.78%	-1.74%	-0.18%	4.27%	4.23%	N/A	6.21%			9/30/2009	
Gross Expense Ratio		50																				
BM: Lifecycle Index 2010 Composite Benchmark			4.84%	7.12%	5.83%						-3.55%	-2.69%	-1.54%	0.17%	4.62%	4.59%		6.61%				
Fund vs. Lifecycle Index 2010 Composite Benchmark			-45	-44	-38						0	-9	-20	-35	-35	-36		-40				
BM: S&P Target Date 2010 Index			4.36%	6.38%	5.09%						-3.35%	-2.67%	-1.62%	0.01%	4.15%	3.97%		5.78%				
Fund vs. S&P Target Date 2010 Index			3	30	36						-20	-11	-12	-19	12	26		43				
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%						-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		2.93%				
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			561	537	329						-276	-199	64	187	323	240		328				
PG: Target-Date 2000-2010 M*star Category			3.40%	6.33%	4.87%						N/A	N/A	N/A	-0.63%	4.09%	3.78%		N/A				
Fund vs. Target-Date 2000-2010 M*star Category			99	35	58						N/A	N/A	N/A	45	18	45		N/A				
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			9%	39%	21%						N/A	N/A	N/A	20%	44%	25%		N/A				
PG: # of funds in Target-Date 2000-2010 M*star Category			137	113	91						N/A	N/A	N/A	137	113	91		N/A				
Fund Star Rating			N/A	***	****						N/A	N/A	N/A	N/A	***	****		N/A				
TIAA-CREF LIFECYCLE INDEX 2015 FUND (TLGRX) ^[10,9]	\$796.00	35	5.09%	7.39%	5.95%	N/A					-3.88%	-3.03%	-1.73%	-0.02%	4.70%	4.62%	N/A	6.68%			9/30/2009	
Gross Expense Ratio		48																				
BM: Lifecycle Index 2015 Composite Benchmark			5.47%	7.80%	6.31%						-3.91%	-2.95%	-1.59%	0.29%	5.03%	4.94%		7.08%				
Fund vs. Lifecycle Index 2015 Composite Benchmark			-38	-41	-36						3	-8	-14	-31	-33	-32		-40				
BM: S&P Target Date 2015 Index			5.09%	7.42%	5.85%						-3.79%	-3.03%	-1.70%	0.14%	4.78%	4.55%		6.56%				
Fund vs. S&P Target Date 2015 Index			0	-3	10						-9	0	-3	-16	-8	7		12				
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%						-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		2.93%				
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			631	608	379						-309	-224	65	203	366	279		375				
PG: Target-Date 2015 M*star Category			4.24%	7.04%	5.34%						N/A	N/A	N/A	-0.46%	4.48%	4.08%		N/A				
Fund vs. Target-Date 2015 M*star Category			85	35	61						N/A	N/A	N/A	44	22	54		N/A				
PG: Fund % Rank in Target-Date 2015 M*star Category			16%	35%	31%						N/A	N/A	N/A	26%	44%	36%		N/A				
PG: # of funds in Target-Date 2015 M*star Category			139	111	77						N/A	N/A	N/A	136	110	77		N/A				
Fund Star Rating			N/A	***	****						N/A	N/A	N/A	N/A	***	****		N/A				
TIAA-CREF LIFECYCLE INDEX 2020 FUND (TLWRX) ^[11,9]	\$1,877.10	35	5.88%	8.34%	6.57%	N/A					-4.31%	-3.34%	-1.76%	0.14%	5.27%	5.07%	N/A	7.26%			9/30/2009	
Gross Expense Ratio		46																				
BM: Lifecycle Index 2020 Composite Benchmark			6.30%	8.75%	6.93%						-4.34%	-3.27%	-1.62%	0.49%	5.59%	5.40%		7.66%				
Fund vs. Lifecycle Index 2020 Composite Benchmark			-42	-41</																		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETIREMENT SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns					Since Inception 10/31/18	9/30/2009		
			Avg. Annual Return				Avg. Annual Return								
			1 Year 10/01/17 to 09/30/18	3 Year 10/01/15 to 09/30/18	5 Year 10/01/13 to 09/30/18	10 Year 10/01/08 to 09/30/18	1 Month 10/01/18 to 10/31/18	3 Month 08/01/18 to 10/31/18	YTD 01/01/18 to 10/31/18	1 Year 11/01/17 to 10/31/18	3 Year 11/01/15 to 10/31/18			5 Year 11/01/13 to 10/31/18	10 Year 11/01/08 to 10/31/18
TIAA-CREF LIFECYCLE INDEX 2025 FUND (TLORX)^[11,9]	\$2,277.90	35	6.95%	9.44%	7.27%	N/A	-4.92%	-3.79%	-1.85%	0.33%	5.92%	5.58%	N/A	7.87%	9/30/2009
Gross Expense Ratio		45													
BM: Lifecycle Index 2025 Composite Benchmark			7.36%	9.86%	7.63%		-4.90%	-3.69%	-1.66%	0.73%	6.24%	5.92%		8.26%	
Fund vs. Lifecycle Index 2025 Composite Benchmark			-41	-42	-36		-2	-10	-19	-40	-32	-34		-39	
BM: S&P Target Date 2025 Index			6.86%	9.45%	7.13%		-4.86%	-3.92%	-1.99%	0.38%	5.98%	5.48%		7.82%	
Fund vs. S&P Target Date 2025 Index			9	-1	14		-6	13	14	-5	-6	10		5	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-1063	-763	-619		244	16	-428	-627	-535	-523		-530	
PG: Target-Date 2025 M*star Category			5.85%	8.80%	6.39%		N/A	N/A	N/A	-0.49%	5.43%	4.79%		N/A	
Fund vs. Target-Date 2025 M*star Category			110	64	88		N/A	N/A	N/A	82	49	79		N/A	
PG: Fund % Rank in Target-Date 2025 M*star Category			14%	30%	15%		N/A	N/A	N/A	17%	29%	16%		N/A	
PG: # of funds in Target-Date 2025 M*star Category			223	180	141		N/A	N/A	N/A	223	179	141		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2030 FUND (TLHRX)^[11,9]	\$2,419.40	35	7.96%	10.52%	7.97%	N/A	-5.41%	-4.14%	-1.82%	0.60%	6.60%	6.10%	N/A	8.48%	9/30/2009
Gross Expense Ratio		45													
BM: Lifecycle Index 2030 Composite Benchmark			8.42%	10.96%	8.34%		-5.46%	-4.10%	-1.71%	0.96%	6.89%	6.43%		8.86%	
Fund vs. Lifecycle Index 2030 Composite Benchmark			-46	-44	-37		5	-4	-11	-36	-29	-33		-38	
BM: S&P Target Date 2030 Index			7.99%	10.47%	7.78%		-5.60%	-4.53%	-2.20%	0.48%	6.54%	5.91%		8.33%	
Fund vs. S&P Target Date 2030 Index			-3	5	19		19	39	38	12	6	19		15	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-962	-655	-549		195	-19	-425	-600	-467	-471		-469	
PG: Target-Date 2030 M*star Category			6.89%	9.88%	7.06%		N/A	N/A	N/A	-0.44%	6.02%	5.25%		N/A	
Fund vs. Target-Date 2030 M*star Category			107	64	91		N/A	N/A	N/A	104	58	85		N/A	
PG: Fund % Rank in Target-Date 2030 M*star Category			17%	30%	20%		N/A	N/A	N/A	16%	29%	17%		N/A	
PG: # of funds in Target-Date 2030 M*star Category			242	195	161		N/A	N/A	N/A	241	194	161		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2035 FUND (TLYRX)^[11,9]	\$2,216.50	35	9.06%	11.63%	8.64%	N/A	-5.99%	-4.60%	-1.84%	0.84%	7.24%	6.57%	N/A	9.05%	9/30/2009
Gross Expense Ratio		44													
BM: Lifecycle Index 2035 Composite Benchmark			9.51%	12.06%	9.00%		-6.02%	-4.51%	-1.73%	1.21%	7.52%	6.90%		9.44%	
Fund vs. Lifecycle Index 2035 Composite Benchmark			-45	-43	-36		3	-9	-11	-37	-28	-33		-39	
BM: S&P Target Date 2035 Index			8.99%	11.44%	8.39%		-6.25%	-5.08%	-2.41%	0.54%	7.08%	6.31%		8.78%	
Fund vs. S&P Target Date 2035 Index			7	19	25		26	48	57	30	16	26		27	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-852	-544	-482		137	-65	-427	-576	-423	-424		-412	
PG: Target-Date 2035 M*star Category			8.03%	11.01%	7.74%		N/A	N/A	N/A	-0.23%	6.65%	5.71%		N/A	
Fund vs. Target-Date 2035 M*star Category			103	62	90		N/A	N/A	N/A	107	59	86		N/A	
PG: Fund % Rank in Target-Date 2035 M*star Category			19%	28%	19%		N/A	N/A	N/A	12%	24%	16%		N/A	
PG: # of funds in Target-Date 2035 M*star Category			218	175	136		N/A	N/A	N/A	215	174	136		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2040 FUND (TLZR)^[11,9]	\$2,377.20	35	10.13%	12.72%	9.26%	N/A	-6.50%	-4.98%	-1.83%	1.17%	7.89%	7.02%	N/A	9.45%	9/30/2009
Gross Expense Ratio		44													
BM: Lifecycle Index 2040 Composite Benchmark			10.65%	13.17%	9.62%		-6.57%	-4.91%	-1.71%	1.50%	8.16%	7.35%		9.83%	
Fund vs. Lifecycle Index 2040 Composite Benchmark			-52	-45	-36		7	-7	-12	-33	-27	-33		-38	
BM: S&P Target Date 2040 Index			9.68%	12.11%	8.79%		-6.66%	-5.44%	-2.53%	0.62%	7.46%	6.59%		9.09%	
Fund vs. S&P Target Date 2040 Index			45	61	47		16	46	70	55	43	43		36	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-745	-435	-420		86	-103	-426	-543	-338	-379		-372	
PG: Target-Date 2040 M*star Category			8.60%	11.56%	8.07%		N/A	N/A	N/A	-0.34%	6.92%	5.92%		N/A	
Fund vs. Target-Date 2040 M*star Category			153	116	119		N/A	N/A	N/A	151	97	110		N/A	
PG: Fund % Rank in Target-Date 2040 M*star Category			13%	18%	11%		N/A	N/A	N/A	9%	14%	9%		N/A	
PG: # of funds in Target-Date 2040 M*star Category			242	195	161		N/A	N/A	N/A	241	194	161		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2045 FUND (TLMRX)^[11,9]	\$1,524.40	35	10.85%	13.24%	9.54%	N/A	-6.88%	-5.24%	-1.83%	1.26%	8.22%	7.21%	N/A	9.55%	9/30/2009
Gross Expense Ratio		45													
BM: Lifecycle Index 2045 Composite Benchmark			11.33%	13.69%	9.92%		-6.95%	-5.19%	-1.74%	1.62%	8.50%	7.55%		9.95%	
Fund vs. Lifecycle Index 2045 Composite Benchmark			-48	-45	-38		7	-5	-9	-36	-28	-34		-40	
BM: S&P Target Date 2045 Index			9.98%	12.54%	9.05%		-6.88%	-5.65%	-2.65%	0.59%	7.70%	6.76%		9.30%	
Fund vs. S&P Target Date 2045 Index			87	70	49		0	41	82	67	52	45		25	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-673	-383	-392		48	-129	-426	-534	-305	-360		-362	
PG: Target-Date 2045 M*star Category			9.22%	12.14%	8.42%		N/A	N/A	N/A	-0.19%	7.23%	6.15%		N/A	
Fund vs. Target-Date 2045 M*star Category			163	110	112		N/A	N/A	N/A	145	99	106		N/A	
PG: Fund % Rank in Target-Date 2045 M*star Category			12%	7%	7%		N/A	N/A	N/A	9%	4%	4%		N/A	
PG: # of funds in Target-Date 2045 M*star Category			218	175	136		N/A	N/A	N/A	215	174	136		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2050 FUND (TLRXX)^[11,9]	\$1,113.50	35	11.04%	13.44%	9.65%	N/A	-6.99%	-5.31%	-1.87%	1.32%	8.35%	7.31%	N/A	9.60%	9/30/2009
Gross Expense Ratio		45													
BM: Lifecycle Index 2050 Composite Benchmark			11.51%	13.87%	10.03%		-7.04%	-5.26%	-1.74%	1.66%	8.64%	7.64%		9.99%	
Fund vs. Lifecycle Index 2050 Composite Benchmark			-47	-43	-38		5	-5	-13	-34	-29	-33		-39	
BM: S&P Target Date 2050 Index			10.26%	12.92%	9.29%		-7.05%	-5.81%	-2.71%	0.62%	7.93%	6.94%		9.47%	
Fund vs. S&P Target Date 2050 Index			78	52	36		6	50	84	70	42	37		13	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.17%	
Fund vs. Russell 3000 Index			-654	-363	-381		37	-136	-430	-528	-292	-350		-357	
PG: Target-Date 2050 M*star Category			9.23%	12.16%	8.45%		N/A	N/A	N/A	-0.40%	7.22%	6.16%		N/A	
Fund vs. Target-Date 2050 M*star Category			181	128	120		N/A	N/A	N/A	172	113	115		N/A	
PG: Fund % Rank in Target-Date 2050 M*star Category			10%	6%	7%		N/A	N/A	N/A	9%	4%	4%		N/A	
PG: # of funds in Target-Date 2050 M*star Category			238	190	156		N/A	N/A	N/A	237	189	156		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETIREMENT SHARE CLASS

FOR PERIOD ENDING October 31, 2018
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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.
10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	11/01/08 to 10/31/18	10/31/18	Date		
TIAA-CREF LIFECYCLE INDEX 2055 FUND (TTIRX)^[11,9]	\$429.40	35	11.18%	13.62%	9.75%	N/A	-7.02%	-5.39%	-1.82%	1.40%	8.52%	7.38%	N/A	8.09%	4/29/2011
Gross Expense Ratio		48													
BM: Lifecycle Index 2055 Composite Benchmark			11.69%	14.06%	10.13%		-7.12%	-5.32%	-1.74%	1.71%	8.79%	7.72%		8.45%	
Fund vs. Lifecycle Index 2055 Composite Benchmark			-51	-44	-38		10	-7	-8	-31	-27	-34		-36	
BM: S&P Target Date 2055 Index			10.32%	13.13%	9.42%		-7.08%	-5.84%	-2.72%	0.62%	8.06%	7.04%		7.77%	
Fund vs. S&P Target Date 2055 Index			86	49	33		6	45	90	78	46	34		32	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		11.53%	
Fund vs. Russell 3000 Index			-640	-345	-371		34	-144	-425	-520	-275	-343		-344	
PG: Target-Date 2055 M*star Category			9.51%	12.41%	8.71%		N/A	N/A	N/A	-0.20%	7.38%	6.36%		N/A	
Fund vs. Target-Date 2055 M*star Category			167	121	104		N/A	N/A	N/A	160	114	102		N/A	
PG: Fund % Rank in Target-Date 2055 M*star Category			9%	7%	8%		N/A	N/A	N/A	9%	3%	5%		N/A	
PG: # of funds in Target-Date 2055 M*star Category			218	173	112		N/A	N/A	N/A	218	172	112		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2060 FUND (TVITX)^[11,9]	\$103.50	35	11.41%	13.80%	N/A	N/A	-7.16%	-5.49%	-1.79%	1.38%	8.64%	N/A	N/A	6.92%	9/26/2014
Gross Expense Ratio		71													
BM: Lifecycle Index 2060 Composite Benchmark			11.87%	14.24%			-7.21%	-5.38%	-1.74%	1.75%	8.93%			7.27%	
Fund vs. Lifecycle Index 2060 Composite Benchmark			-46	-44			5	-11	-5	-37	-29			-35	
BM: S&P Target Date 2060+ Index			10.60%	13.34%			-7.11%	-5.82%	-2.60%	0.80%	8.22%			6.67%	
Fund vs. S&P Target Date 2060+ Index			81	46			-5	33	81	58	42			25	
BM: Russell 3000 Index			17.58%	17.07%			-7.36%	-3.95%	2.43%	6.60%	11.27%			9.86%	
Fund vs. Russell 3000 Index			-617	-327			20	-154	-422	-522	-263			-294	
PG: Target-Date 2060+ M*star Category			9.74%	12.66%			N/A	N/A	N/A	-0.16%	7.60%			N/A	
Fund vs. Target-Date 2060+ M*star Category			167	114			N/A	N/A	N/A	154	104			N/A	
PG: Fund % Rank in Target-Date 2060+ M*star Category			8%	9%			N/A	N/A	N/A	8%	5%			N/A	
PG: # of funds in Target-Date 2060+ M*star Category			190	76			N/A	N/A	N/A	189	75			N/A	
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****			N/A	
TIAA-CREF LIFECYCLE INDEX RETIREMENT INCOME FUND (TRCIX)^[10,9]	\$304.50	35	4.32%	6.30%	5.13%	N/A	-3.41%	-2.67%	-1.60%	-0.09%	4.05%	3.99%	N/A	5.75%	9/30/2009
Gross Expense Ratio		55													
BM: Lifecycle Index Retirement Income Composite Benchmark			4.54%	6.67%	5.48%		-3.42%	-2.60%	-1.55%	0.07%	4.35%	4.31%		6.15%	
Fund vs. Lifecycle Index Retirement Income Composite Benchmark			-22	-37	-35		1	-7	-5	-16	-30	-32		-40	
BM: S&P Target Date Retirement Income Index			3.71%	5.35%	4.37%		-2.92%	-2.36%	-1.52%	-0.07%	3.53%	3.42%		4.96%	
Fund vs. S&P Target Date Retirement Income Index			61	95	76		-49	-31	-8	-2	52	57		79	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		2.93%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			554	499	297		-262	-188	78	196	301	216		282	
PG: Target-Date Retirement M*star Category			2.74%	5.19%	3.98%		N/A	N/A	N/A	-0.89%	3.34%	3.03%		N/A	
Fund vs. Target-Date Retirement M*star Category			158	111	115		N/A	N/A	N/A	80	71	96		N/A	
PG: Fund % Rank in Target-Date Retirement M*star Category			8%	18%	13%		N/A	N/A	N/A	12%	17%	9%		N/A	
PG: # of funds in Target-Date Retirement M*star Category			189	164	137		N/A	N/A	N/A	189	163	137		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE RETIREMENT INCOME FUND (TLIRX)^[10,9]	\$530.00	62	4.04%	6.89%	5.39%	6.34%	-3.67%	-3.22%	-2.13%	-0.71%	4.45%	4.12%	6.96%	4.36%	11/30/2007
Gross Expense Ratio		77													
BM: Lifecycle Retirement Income Fund Composite Index			4.54%	6.68%	5.37%	6.34%	-3.45%	-2.63%	-1.59%	0.06%	4.36%	4.21%	6.92%	4.59%	
Fund vs. Lifecycle Retirement Income Fund Composite Index			-50	21	2	0	-22	-59	-54	-77	9	-9	4	-23	
BM: S&P Target Date Retirement Income Index			3.71%	5.35%	4.37%	5.10%	-2.92%	-2.36%	-1.52%	-0.07%	3.53%	3.42%	5.73%	3.57%	
Fund vs. S&P Target Date Retirement Income Index			33	154	102	124	-75	-86	-61	-64	92	70	123	79	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.46%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			526	558	323	257	-288	-243	25	134	341	229	302	90	
PG: Target-Date Retirement M*star Category			2.74%	5.19%	3.98%	5.19%	N/A	N/A	N/A	-0.89%	3.34%	3.03%	5.89%	N/A	
Fund vs. Target-Date Retirement M*star Category			130	170	141	115	N/A	N/A	N/A	18	111	109	107	N/A	
PG: Fund % Rank in Target-Date Retirement M*star Category			11%	7%	5%	7%	N/A	N/A	N/A	39%	8%	5%	12%	N/A	
PG: # of funds in Target-Date Retirement M*star Category			189	164	137	93	N/A	N/A	N/A	189	163	137	94	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LIFESTYLE AGGRESSIVE GROWTH FUND (TSARX)^[13]	\$111.30	80	11.32%	14.22%	10.06%	N/A	-8.93%	-7.72%	-3.99%	-0.77%	8.13%	7.15%	N/A	10.99%	12/9/2011
Gross Expense Ratio		100													
BM: Lifestyle Aggressive Composite Benchmark			12.68%	14.99%	10.66%		-7.66%	-5.76%	-1.85%	1.92%	9.22%	8.04%		11.37%	
Fund vs. Lifestyle Aggressive Composite Benchmark			-136	-77	-60		-127	-196	-214	-269	-109	-89		-38	
BM: Morningstar Aggressive Target Risk TR USD			10.40%	13.86%	9.26%		-7.19%	-6.07%	-3.11%	0.53%	8.66%	6.88%		10.10%	
Fund vs. Morningstar Aggressive Target Risk TR USD			92	36	80		-174	-165	-88	-130	-53	27		89	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%	
Fund vs. Russell 3000 Index			-626	-285	-340		-157	-377	-642	-737	-314	-366		-298	
PG: Allocation-85%+ Equity M*star Category			10.08%	12.40%	8.72%		N/A	N/A	N/A	0.21%	7.18%	6.25%		N/A	
Fund vs. Allocation-85%+ Equity M*star Category			124	182	134		N/A	N/A	N/A	-98	95	90		N/A	
PG: Fund % Rank in Allocation-85%+ Equity M*star Category			30%	7%	16%		N/A	N/A	N/A	68%	20%	28%		N/A	
PG: # of funds in Allocation-85%+ Equity M*star Category			196	176	151		N/A	N/A	N/A	195	174	149		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFESTYLE CONSERVATIVE FUND (TSCTX)^[12]	\$225.00	71	4.05%	6.75%	5.38%	N/A	-4.03%	-3.61%	-2.47%	-1.09%	4.22%	4.03%	N/A	5.82%	12/9/2011
Gross Expense Ratio		81													
BM: Lifestyle Conservative Composite Benchmark			4.52%	6.58%	5.33%		-3.36%	-2.51%	-1.44%	0.16%	4.31%	4.20%		5.54%	
Fund vs. Lifestyle Conservative Composite Benchmark			-47	17	5		-67	-110	-103	-125	-9	-17		28	
BM: Morningstar Moderately Conservative Target Risk TR USD			3.91%	6.69%	4.96%		-3.34%	-2.78%	-2.11%	-0.42%	4.51%	3.85%		5.33%	
Fund vs. Morningstar Moderately Conservative Target Risk TR USD			14	6	42		-69	-83	-36	-67	-29	18		49	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.88%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			527	544	322		-324	-282	-9	96	318	220		394	
PG: Allocation-30% to 50% Equity M*star Category			3.30%	6.30%	4.74%		N/A	N/A	N/A	-1.08%	3.81%	3.37%		N/A	
Fund vs. Allocation-30% to 50% Equity M*star Category			75	45	64		N/A	N/A	N/A	-1	41	66		N/A	
PG: Fund % Rank in Allocation-30% to 50% Equity M*star Category			35%	33%	22%		N/A	N/A	N/A	55%	38%	28%		N/A	
PG: # of funds in Allocation-30% to 50% Equity M*star Category			508	439	355		N/A	N/A	N/A	532	460	368		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETIREMENT SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns					Since Inception to 10/31/18	Inc. Date		
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year			5 Year	10 Year
10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18					
TIAA-CREF LIFESTYLE GROWTH FUND (TSGRX)^[13]	\$159.30	77	8.67%	11.80%	8.63%	N/A	-7.39%	-6.52%	-3.74%	-1.11%	6.90%	6.22%	N/A	9.41%	12/9/2011
Gross Expense Ratio		91													
BM: Lifestyle Growth Composite Benchmark			9.83%	12.21%	8.99%		-6.29%	-4.74%	-1.86%	1.22%	7.62%	6.87%		9.51%	
Fund vs. Lifestyle Growth Composite Benchmark			-116	-41	-36		-110	-178	-188	-233	-72	-65		-10	
BM: Morningstar Moderately Aggressive Target Risk TR USD			8.32%	11.76%	8.03%		-6.13%	-5.19%	-3.08%	0.04%	7.46%	6.01%		8.77%	
Fund vs. Morningstar Moderately Aggressive Target Risk TR USD			35	4	60		-126	-133	-66	-15	-56	21		64	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%	
Fund vs. Russell 3000 Index			-891	-527	-483		-3	-257	-617	-771	-437	-459		-456	
PG: Allocation--70% to 85% Equity M*star Category			8.52%	10.41%	7.54%		N/A	N/A	N/A	0.04%	6.17%	5.48%		N/A	
Fund vs. Allocation--70% to 85% Equity M*star Category			15	139	109		N/A	N/A	N/A	-115	73	74		N/A	
PG: Fund % Rank in Allocation--70% to 85% Equity M*star Category			47%	24%	24%		N/A	N/A	N/A	75%	34%	34%		N/A	
PG: # of funds in Allocation--70% to 85% Equity M*star Category			359	323	279		N/A	N/A	N/A	351	315	270		N/A	
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A	
TIAA-CREF LIFESTYLE INCOME FUND (TLRSX)^[12]	\$72.00	67	1.87%	4.14%	3.53%	N/A	-2.26%	-1.98%	-1.70%	-0.97%	2.77%	2.74%	N/A	3.79%	12/9/2011
Gross Expense Ratio		93													
BM: Lifestyle Income Composite Benchmark			2.07%	3.76%	3.35%		-1.80%	-1.29%	-1.02%	-0.21%	2.60%	2.71%		3.44%	
Fund vs. Lifestyle Income Composite Benchmark			-20	38	18		-46	-69	-68	-76	17	3		35	
BM: Morningstar Conservative Target Risk TR USD			1.46%	3.96%	3.07%		-1.94%	-1.69%	-1.90%	-0.93%	2.81%	2.42%		3.28%	
Fund vs. Morningstar Conservative Target Risk TR USD			41	18	46		-32	-29	20	-4	-4	32		51	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.88%	
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			309	283	137		-147	-119	68	108	173	91		191	
PG: Allocation--15% to 30% Equity M*star Category			1.46%	4.21%	3.14%		N/A	N/A	N/A	-1.35%	2.70%	2.40%		N/A	
Fund vs. Allocation--15% to 30% Equity M*star Category			41	-7	39		N/A	N/A	N/A	38	7	34		N/A	
PG: Fund % Rank in Allocation--15% to 30% Equity M*star Category			49%	61%	42%		N/A	N/A	N/A	54%	55%	40%		N/A	
PG: # of funds in Allocation--15% to 30% Equity M*star Category			207	182	149		N/A	N/A	N/A	194	171	145		N/A	
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A	
TIAA-CREF LIFESTYLE MODERATE FUND (TSMTX)^[13]	\$339.70	74	6.30%	9.39%	7.21%	N/A	-5.84%	-5.21%	-3.31%	-1.32%	5.64%	5.28%	N/A	7.83%	12/9/2011
Gross Expense Ratio		82													
BM: Lifestyle Moderate Composite Benchmark			7.01%	9.45%	7.31%		-4.91%	-3.74%	-1.92%	0.47%	6.00%	5.66%		7.63%	
Fund vs. Lifestyle Moderate Composite Benchmark			-71	-6	-10		-93	-147	-139	-179	-36	-38		20	
BM: Morningstar Moderate Target Risk TR USD			6.02%	9.19%	6.51%		-4.71%	-3.98%	-2.61%	-0.22%	5.99%	4.96%		7.08%	
Fund vs. Morningstar Moderate Target Risk TR USD			28	20	70		-113	-123	-70	-110	-35	32		75	
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%	
Fund vs. Russell 3000 Index			-1128	-768	-625		152	-126	-574	-792	-563	-553		-614	
PG: Allocation--50% to 70% Equity M*star Category			6.75%	8.80%	6.67%		N/A	N/A	N/A	0.34%	5.42%	5.03%		N/A	
Fund vs. Allocation--50% to 70% Equity M*star Category			-45	59	54		N/A	N/A	N/A	-166	22	25		N/A	
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			56%	35%	38%		N/A	N/A	N/A	81%	46%	44%		N/A	
PG: # of funds in Allocation--50% to 70% Equity M*star Category			771	703	619		N/A	N/A	N/A	773	702	620		N/A	
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A	
TIAA-CREF MANAGED ALLOCATION FUND (TITRX)^[13]	\$827.40	64	6.35%	9.52%	7.32%	7.84%	-5.67%	-4.97%	-3.16%	-1.14%	5.81%	5.43%	8.72%	5.42%	3/31/2006
Gross Expense Ratio		67													
BM: Managed Allocation Composite Index ^[8]			7.01%	9.45%	7.31%	7.78%	-4.91%	-3.74%	-1.92%	0.47%	6.00%	5.66%	8.61%	5.78%	
Fund vs. Managed Allocation Composite Index			-66	7	1	6	-76	-123	-124	-161	-19	-23	11	-36	
BM: Morningstar Moderate Target Risk TR USD			6.02%	9.19%	6.51%	7.41%	-4.71%	-3.98%	-2.61%	-0.22%	5.99%	4.96%	8.28%	5.74%	
Fund vs. Morningstar Moderate Target Risk TR USD			33	33	81	43	-96	-99	-55	-92	-18	47	44	-32	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	8.21%	
Fund vs. Russell 3000 Index			-1123	-755	-614	-417	169	-102	-559	-774	-546	-538	-463	-279	
PG: Allocation--50% to 70% Equity M*star Category			6.75%	8.80%	6.67%	7.58%	N/A	N/A	N/A	0.34%	5.42%	5.03%	8.56%	N/A	
Fund vs. Allocation--50% to 70% Equity M*star Category			40	72	65	26	N/A	N/A	N/A	-148	39	40	16	N/A	
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			55%	33%	35%	41%	N/A	N/A	N/A	77%	39%	39%	42%	N/A	
PG: # of funds in Allocation--50% to 70% Equity M*star Category			771	703	619	450	N/A	N/A	N/A	773	702	620	450	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETIREMENT SHARE CLASS

FOR PERIOD ENDING October 31, 2018
 PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mil.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns					Since Inception	Date		
			Avg. Annual Return				Avg. Annual Return								
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year			5 Year	10 Year
	10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18				
Money Market															
TIAA-CREF MONEY MARKET FUND (TIEXX) ^[14,3,5,7]	\$1,057.00	40	1.23%	0.53%	0.32%	0.24%	0.16%	0.45%	1.21%	1.33%	0.58%	0.35%	0.23%	1.79%	7/1/1999
Gross Expense Ratio		40													3/31/2006
BM: iMoneynet Money Fund AveragesTM-All Government			1.13%	0.50%	0.30%	0.18%	0.15%	0.41%	1.10%	1.22%	0.55%	0.33%	0.19%	1.50%	
Fund vs.iMoneynet Money Fund AveragesTM-All Government			10	3	2	6	1	4	11	11	3	2	4	29	
7-Day Effective Yield as of 10/31/2018: 1.93%															
7-Day Current Yield as of 10/31/2018: 1.93%															
MUTUAL FUND TOTALS^[1]	\$125,762.20														

BM = Benchmark; PG = Peer Group; % Rank within Morningstar Category: 1 = Best 100 = Worst; Morningstar Category Returns are equal-weighted.

[1] Combined Mutual Funds' Net Assets exclude the Managed Allocation Fund, Lifecycle Funds, and Lifestyle Funds.

[2] The net expense ratio (top number) represents expenses after reimbursement and waivers, and is what participants actually pay. The number below represents the gross expense ratio, before consideration for reimbursements and/or waivers.

[3] The "Since Inception" benchmark performance shown is computed from August 1999.

[4] The "Since Inception" values presented are cumulative values and not average annualized total returns.

[5] The Retirement Class began operations on March 31, 2006. Where a product lists two inception dates, the top date reflects the inception date of the product's oldest share class, and the bottom date represents the date of inception for the Share Class being reported. Performance shown for periods prior to the inception of the Retirement Class reflects the performance of the Institutional Class, and has not been adjusted to reflect the higher expenses of the Retirement Class.

[6] The Retirement Class began operations on October 1, 2002. Where a product lists two inception dates, the top date reflects the inception date of the product's oldest share class, and the bottom date represents the date of inception for the Share Class being reported. Performance shown for periods prior to the inception of the Retirement Class reflects the performance of the Institutional Class, and has not been adjusted to reflect the higher expenses of the Retirement Class.

[7] Beginning August 27, 2013, part or all of the investment management fees of the Retirement Class are being voluntarily waived. In addition, the fund's investment adviser is reimbursing certain other fund expenses. Beginning August 18, 2009 part or all of the service fees are being voluntarily waived. Without these changes, the 7-day current and effective net annualized yields and total returns for the fund would have been lower. The suspension of reimbursements and the addition of waivers are voluntary and may be discontinued at any time without notice.

[8] 42% Russell 3000® Index, 40% Bloomberg Barclays U.S. Aggregate Bond Index, 18% Morgan Stanley All Country World Index ex-USA.

[9] TPIS has contractually agreed not to seek payment of the 12b-1 fee under the Retirement Plan through September 30, 2019. This agreement may not be continued after that date.

[10] The S&P Target Date Indexes represent a broadly derived consensus of asset class exposure for the respective target retirement date based on market observations acquired through an annual survey of target date fund managers. The S&P Target Date Index returns include the fees and expenses of the exchange-traded funds that comprise each respective index. Previously, the Lifecycle Active and Index 2010, 2015 and Retirement Income Funds compared their performance to the Bloomberg Barclays U.S. Aggregate Bond Index instead of the S&P Target Date Indexes shown in the chart above. The returns of the S&P Target Date Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

[11] The S&P Target Date Indexes represent a broadly derived consensus of asset class exposure for the respective target retirement date based on market observations acquired through an annual survey of target date fund managers. The S&P Target Date Index returns include the fees and expenses of the exchange-traded funds that comprise each respective index. Previously, the Lifecycle Active and Index 2020, 2025, 2030, 2035, 2040, 2045, 2050, 2055 and 2060 Funds compared their performance to the Russell 3000 Index instead of the S&P Target Date Indexes shown in the chart above. The returns of the S&P Target Date Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

[12] The Morningstar Target Risk Indexes are asset allocation indexes comprised of constituent Morningstar indexes and reflect global equity market exposure of 20%, 40%, 60%, 80% or 95% based on an asset allocation methodology from Ibbotson Associates, a Morningstar company. The returns of the Morningstar Target Risk Indexes do not reflect a deduction for fees or expenses. Previously, the Lifestyle Conservative and Lifestyle Income Funds compared their performance to the Bloomberg Barclays U.S. Aggregate Bond Index instead of the Morningstar Target Risk Indexes shown in the chart above. The returns of the Morningstar Target Risk Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure and similar risk profiles.

[13] The Morningstar Target Risk Indexes are asset allocation indexes comprised of constituent Morningstar indexes and reflect global equity market exposure of 20%, 40%, 60%, 80% or 95% based on an asset allocation methodology from Ibbotson Associates, a Morningstar company. The returns of the Morningstar Target Risk Indexes do not reflect a deduction for fees or expenses. Previously, the Lifestyle Moderate, Growth and Aggressive, and the TIAA-CREF Managed Allocation Fund compared their performance to the Russell 3000 Index instead of the Morningstar Target Risk Indexes shown in the chart above. The returns of the Morningstar Target Risk Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure and similar risk profiles.

[14] Effective October 1, 2016, the iMoneyNet Money Fund Averages-All Taxable peer group was changed to the iMoneyNet Money Fund Averages-All Government.

[15] Effective August 1, 2018, the TIAA-CREF Small Cap Equity Fund's name was changed to TIAA-CREF Quant Small Cap Equity Fund.

[16] Effective August 1, 2018, the TIAA-CREF Small/Mid-Cap Equity Fund's name was changed to TIAA-CREF Quant Small/Mid Cap Equity Fund.

[17] Effective August 1, 2018, the TIAA-CREF International Small-Cap Equity Fund's name was changed to TIAA-CREF Quant International Small-Cap Equity Fund.

Teachers Advisors, LLC. ("Advisors"), the Funds' investment adviser has contractually agreed to reimburse the Funds for any Total Annual Fund Operating Expenses (excluding Acquired Fund Fees and Expenses and extraordinary expenses) that exceed 0.25% of average daily net assets for the Lifecycle and 0.29% for the Lifecycle Index Retirement Class Funds. These expense reimbursement arrangements will continue through at least September 30, 2019 unless changed with approval of the Board of Trustees.

In addition to the expense reimbursement arrangement, Advisors has contractually agreed to waive a portion of the Fund's Management Fee equal to, on an annual basis of 0.10% for the all of the Lifecycle Funds. This waiver will remain in effect through September 30, 2019, unless changed with approval of the Board of Trustees.

The Morningstar category averages, percentile ranks and star ratings are sourced from the Morningstar Essentials files prepared for TIAA as well as from Morningstar Direct.

Under the Funds' expense reimbursement arrangements, the Funds' investment adviser, Teachers Advisors, LLC. ("Advisors"), has contractually agreed to reimburse the Funds for any Total Annual Fund Operating Expenses (excluding Acquired Fund Fees and Expenses and extraordinary expenses) that exceed the following annual rates of average daily net assets: a) 0.77% for the Growth & Income Fund; 0.85% for the International Equity Fund; 1.20% for the Emerging Markets Equity Fund; 0.77% for the Large-Cap Growth Fund; 0.77% for the Large-Cap Value Fund; 0.80% for the Mid-Cap Growth Fund; 0.80% for the Mid-Cap Value Fund; 0.78% for the Small-Cap Equity Fund; 0.34% for the Large-Cap Growth Index Fund; 0.34% for the Large-Cap Value Index Fund; 0.34% for the Equity Index Fund; 0.34% for the S&P 500 Index Fund; 0.34% for the Small-Cap Blend Index Fund; 0.40% for the International Equity Index Fund; 0.50% for the Emerging Markets Equity Index Fund; 0.47% for the Social Choice Equity Fund; 1.00% for the Global Natural Resources Fund; 0.95% for the International Opportunities Fund; 0.90% for the Emerging Markets Debt Fund; b) 0.82% for the Real Estate Securities Fund; 0.60% for the Bond Fund; 0.60% for the Bond Plus Fund; 0.55% for the Short-Term Bond Fund; 0.55% for the Inflation-Linked Bond Fund; 0.65% for the High-Yield Fund; 0.38% for the Bond Index Fund; 0.40% for the Money Market Fund; 0.65% for the Social Choice Bond Fund; 0.37% for the Short-Term Bond Index Fund; 0.57% for the Social Choice Low Carbon Equity Fund; 0.65% for the Social Choice International Equity Index; c) 0.25% for the Managed Allocation Fund.

a) These expense reimbursement arrangements will continue through at least February 28, 2019 unless changed with approval of the Board of Trustees.

b) These expense reimbursement arrangements will continue through at least July 31, 2019 unless changed with approval of the Board of Trustees.

c) These expense reimbursement arrangements will continue through at least September 30, 2019 unless changed with approval of the Board of Trustees.

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETAIL SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.	
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	11/01/08 to 10/31/18	Date	
U.S. Equities																
TIAA-CREF EQUITY INDEX FUND (TINRX)^[6]	\$17,528.40	33	17.16%	16.72%	13.11%	11.68%	-7.38%	-4.04%	2.15%	6.24%	10.94%	10.47%	13.00%	5.75%	7/1/1999	
Gross Expense Ratio		33													3/31/2006	
BM: Russell 3000 Index			17.58%	17.07%	13.46%	12.01%	-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%	13.35%	5.98%		
Fund vs. Russell 3000 Index			-42	-35	-35	-33	-2	-9	-28	-36	-33	-34	-35	-23		
PG: Large Blend M*star Category			15.35%	15.17%	11.93%	10.84%	N/A	N/A	N/A	5.28%	9.73%	9.44%	12.14%	N/A		
Fund vs. Large Blend M*star Category			181	155	118	84	N/A	N/A	N/A	96	121	103	86	N/A		
PG: Fund % Rank in Large Blend M*star Category			38%	29%	34%	30%	N/A	N/A	N/A	45%	33%	35%	30%	N/A		
PG: # of funds in Large Blend M*star Category			1383	1196	1058	794	N/A	N/A	N/A	1412	1218	1084	817	N/A		
Fund Star Rating			N/A	****	***	***	N/A	N/A	N/A	N/A	***	***	***	***	N/A	
TIAA-CREF GROWTH & INCOME FUND (TIIRX)^[6]	\$6,500.80	70	19.77%	17.02%	13.70%	12.11%	-9.39%	-5.42%	1.60%	5.32%	10.38%	10.50%	12.96%	6.05%	7/1/1999	
Gross Expense Ratio		70													3/31/2006	
BM: S&P 500 Index			17.91%	17.31%	13.95%	11.97%	-6.84%	-3.25%	3.01%	7.35%	11.52%	11.34%	13.24%	5.55%		
Fund vs. S&P 500 Index			186	-29	-25	14	-255	-217	-141	-203	-114	-84	-28	50		
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A		
Fund vs. Large Growth M*star Category			-341	-66	-32	-49	N/A	N/A	N/A	-338	-87	-55	-77	N/A		
PG: Fund % Rank in Large Growth M*star Category			71%	63%	59%	62%	N/A	N/A	N/A	83%	67%	63%	67%	N/A		
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	***	N/A	
TIAA-CREF LARGE-CAP GROWTH FUND (TIRTX)	\$5,111.30	75	27.87%	19.93%	16.55%	13.87%	-9.89%	-4.52%	7.73%	10.97%	12.66%	13.28%	14.94%	9.51%	3/31/2006	
Gross Expense Ratio		75													3/31/2006	
BM: Russell 1000 Growth Index			26.30%	20.55%	16.58%	14.31%	-8.94%	-3.43%	6.62%	10.71%	13.67%	13.43%	15.45%	9.87%		
Fund vs. Russell 1000 Growth Index			157	-62	-3	-44	-95	-109	111	26	-101	-15	-51	-36		
PG: Large Growth M*star Category			23.18%	17.68%	14.02%	12.60%	N/A	N/A	N/A	8.70%	11.25%	11.05%	13.73%	N/A		
Fund vs. Large Growth M*star Category			469	225	253	127	N/A	N/A	N/A	227	141	223	121	N/A		
PG: Fund % Rank in Large Growth M*star Category			21%	24%	15%	26%	N/A	N/A	N/A	26%	29%	17%	28%	N/A		
PG: # of funds in Large Growth M*star Category			1430	1258	1129	818	N/A	N/A	N/A	1427	1253	1120	811	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	***	N/A	
TIAA-CREF LARGE-CAP VALUE FUND (TCLCX)	\$6,168.60	72	6.34%	12.63%	9.05%	9.64%	-8.01%	-7.52%	-5.80%	-2.13%	6.69%	6.34%	10.89%	8.77%	10/1/2002	
Gross Expense Ratio		72													10/1/2002	
BM: Russell 1000 Value Index			9.45%	13.55%	10.72%	9.79%	-5.18%	-3.59%	-1.46%	3.03%	8.88%	8.61%	11.30%	9.14%		
Fund vs. Russell 1000 Value Index			-311	-92	-167	-15	-283	-393	-434	-516	-219	-227	-41	-37		
PG: Large Value M*star Category			10.84%	13.45%	10.19%	9.69%	N/A	N/A	N/A	3.34%	8.69%	8.03%	11.13%	N/A		
Fund vs. Large Value M*star Category			-450	-82	-114	-5	N/A	N/A	N/A	-547	-200	-169	-24	N/A		
PG: Fund % Rank in Large Value M*star Category			92%	69%	82%	52%	N/A	N/A	N/A	95%	86%	89%	57%	N/A		
PG: # of funds in Large Value M*star Category			1274	1109	948	696	N/A	N/A	N/A	1249	1089	932	678	N/A		
Fund Star Rating			N/A	**	**	***	N/A	N/A	N/A	N/A	**	**	**	**	N/A	
TIAA-CREF MID-CAP GROWTH FUND (TCMGX)	\$1,363.90	80	18.74%	14.33%	10.46%	12.01%	-12.34%	-7.97%	-1.32%	1.99%	7.45%	7.16%	13.34%	10.70%	10/1/2002	
Gross Expense Ratio		80													10/1/2002	
BM: Russell Mid Cap Growth Index			21.10%	16.65%	13.00%	13.46%	-9.90%	-5.11%	2.16%	6.14%	10.39%	10.10%	15.10%	11.71%		
Fund vs. Russell Mid Cap Growth Index			-236	-232	-254	-145	-244	-286	-348	-415	-294	-227	-176	-101		
PG: Mid-Cap Growth M*star Category			20.31%	15.81%	11.68%	11.97%	N/A	N/A	N/A	5.13%	9.74%	8.58%	13.28%	N/A		
Fund vs. Mid-Cap Growth M*star Category			-157	-148	-122	4	N/A	N/A	N/A	-314	-229	-142	6	N/A		
PG: Fund % Rank in Mid-Cap Growth M*star Category			60%	68%	76%	52%	N/A	N/A	N/A	75%	80%	79%	49%	N/A		
PG: # of funds in Mid-Cap Growth M*star Category			601	540	483	342	N/A	N/A	N/A	598	537	487	341	N/A		
Fund Star Rating			N/A	**	**	***	N/A	N/A	N/A	N/A	**	**	***	***	N/A	
TIAA-CREF MID-CAP VALUE FUND (TCMVX)	\$3,480.50	71	7.44%	11.14%	9.09%	9.97%	-8.36%	-8.09%	-5.16%	-2.40%	6.11%	6.47%	11.60%	10.77%	10/1/2002	
Gross Expense Ratio		71													10/1/2002	
BM: Russell Mid Cap Value Index			8.81%	13.09%	10.72%	11.29%	-7.20%	-6.68%	-4.30%	0.16%	8.15%	8.11%	13.35%	11.10%		
Fund vs. Russell Mid Cap Value Index			-137	-195	-163	-132	-116	-141	-86	-256	-204	-164	-175	-33		
PG: Mid-Cap Value M*star Category			8.93%	12.59%	9.33%	10.41%	N/A	N/A	N/A	-0.20%	7.44%	6.70%	12.13%	N/A		
Fund vs. Mid-Cap Value M*star Category			-149	-145	-24	-44	N/A	N/A	N/A	-220	-133	-23	-53	N/A		
PG: Fund % Rank in Mid-Cap Value M*star Category			64%	75%	60%	62%	N/A	N/A	N/A	69%	73%	58%	64%	N/A		
PG: # of funds in Mid-Cap Value M*star Category			422	373	315	228	N/A	N/A	N/A	412	363	306	220	N/A		
Fund Star Rating			N/A	**	***	***	N/A	N/A	N/A	N/A	**	***	***	***	N/A	
TIAA-CREF QUANT SMALL-CAP EQUITY FUND (TCSEX)^[12]	\$3,348.90	71	13.34%	15.96%	11.38%	11.32%	-10.05%	-7.94%	-1.95%	0.62%	9.67%	8.38%	12.58%	10.50%	10/1/2002	
Gross Expense Ratio		71													10/1/2002	
BM: Russell 2000 Index			15.24%	17.12%	11.07%	11.11%	-10.86%	-9.26%	-0.60%	1.85%	10.68%	8.01%	12.44%	10.64%		
Fund vs. Russell 2000 Index			-190	-116	31	21	81	132	-135	-123	-101	37	14	-14		
PG: Small Growth M*star Category			24.44%	18.39%	11.75%	12.57%	N/A	N/A	N/A	8.31%	11.98%	8.58%	13.81%	N/A		
Fund vs. Small Growth M*star Category			-1110	-243	-37	-125	N/A	N/A	N/A	-769	-231	-20	-123	N/A		
PG: Fund % Rank in Small Growth M*star Category			90%	77%	57%	75%	N/A	N/A	N/A	90%	78%	56%	74%	N/A		
PG: # of funds in Small Growth M*star Category			702	606	532	404	N/A	N/A	N/A	677	591	516	392	N/A		
Fund Star Rating			N/A	**	***	**	N/A	N/A	N/A	N/A	**	***	**	**	N/A	
TIAA-CREF QUANT SMALL/MID-CAP EQUITY (TSMEX)^[13,4]	\$643.00	88	21.02%	N/A	N/A	N/A	-9.97%	-6.36%	1.81%	5.77%	N/A	N/A	N/A	12.61%	8/5/2016	
Gross Expense Ratio		88													8/5/2016	
BM: Russell 2500 Index			16.19%				-10.15%	-7.72%	-0.80%	2.80%				10.12%		
Fund vs. Russell 2500 Index			483				18	136	261	297				249		
PG: Small Blend M*star Category			12.14%				N/A	N/A	N/A	-0.07%				N/A		
Fund vs. Small Blend M*star Category			888				N/A	N/A	N/A	584				N/A		
PG: Fund % Rank in Small Blend M*star Category			3%				N/A	N/A	N/A	6%				N/A		
PG: # of funds in Small Blend M*star Category			778				N/A	N/A	N/A	784				N/A		
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETAIL SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date	
	10/31/18		10/01/17	10/01/15	10/01/13	10/01/08	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18	
TIAA-CREF REAL ESTATE SECURITIES FUND (TCREX)	\$2,049.80	81	5.54%	8.23%	9.72%	7.53%	-2.71%	-1.89%	-1.04%	1.85%	5.26%	8.29%	11.04%	9.83%	10/1/2002	
Gross Expense Ratio 81																
BM: FTSE Nareit All Equity REITs Index 4.31% 8.97% 9.57% 7.77%																
Fund vs. FTSE Nareit All Equity REITs Index 123 -74 15 -24																
PG: Real Estate M*star Category 3.39% 7.24% 8.56% 7.13%																
Fund vs. Real Estate M*star Category 215 99 116 40																
PG: Fund % Rank in Real Estate M*star Category 11% 20% 12% 35%																
PG: # of funds in Real Estate M*star Category 253 222 191 138																
Fund Star Rating N/A **** **** **																
TIAA-CREF SOCIAL CHOICE EQUITY FUND (TICRX)^[6]	\$3,620.40	46	15.90%	16.34%	11.99%	11.03%	-7.59%	-4.61%	0.93%	4.93%	10.52%	9.36%	12.37%	5.50%	7/1/1999	
Gross Expense Ratio 46																
BM: Russell 3000 Index 17.58% 17.07% 13.46% 12.01%																
Fund vs. Russell 3000 Index -168 -73 -147 -98																
PG: Large Blend M*star Category 15.35% 15.17% 11.93% 10.84%																
Fund vs. Large Blend M*star Category 55 117 6 19																
PG: Fund % Rank in Large Blend M*star Category 52% 37% 59% 51%																
PG: # of funds in Large Blend M*star Category 1383 1196 1058 794																
Fund Star Rating N/A *** ** **																
TIAA-CREF SOCIAL CHOICE LOW CARBON EQUITY FUND (TLWCX)	\$113.10	67	15.22%	16.25%	N/A	N/A	-7.76%	-4.58%	0.63%	4.23%	10.55%	N/A	N/A	9.45%	8/7/2015	
Gross Expense Ratio 97																
BM: Russell 3000 Index 17.58% 17.07%																
Fund vs. Russell 3000 Index -236 -82 -180 -237																
PG: Large Blend M*star Category 15.35% 15.17%																
Fund vs. Large Blend M*star Category -13 108																
PG: Fund % Rank in Large Blend M*star Category 58% 40%																
PG: # of funds in Large Blend M*star Category 1383 1196																
Fund Star Rating N/A *** **																
International Equities																
TIAA-CREF EMERGING MARKETS EQUITY FUND (TEMRX)	\$1,411.20	130	-9.91%	9.99%	1.47%	N/A	-6.80%	-14.38%	-20.32%	-18.78%	5.29%	-0.83%	N/A	0.94%	8/31/2010	
Gross Expense Ratio 130																
BM: MS Emerging Market -0.81% 12.36% 3.61%																
Fund vs. MS Emerging Market -910 -237 -214																
PG: Diversified Emerging Mkts M*star Category -3.63% 10.09% 2.54%																
Fund vs. Diversified Emerging Mkts M*star Category -628 -10 -107																
PG: Fund % Rank in Diversified Emerging Mkts M*star Category 94% 57% 74%																
PG: # of funds in Diversified Emerging Mkts M*star Category 838 708 508																
Fund Star Rating N/A *** **																
TIAA-CREF EMERGING MARKETS EQUITY INDEX FUND (TEQKX)	\$2,403.30	58	-1.91%	11.54%	3.01%	N/A	-8.36%	-11.72%	-15.78%	-13.07%	6.14%	0.37%	N/A	1.52%	8/31/2010	
Gross Expense Ratio 58																
BM: MS Emerging Market -0.81% 12.36% 3.61%																
Fund vs. MS Emerging Market -110 -82 -60																
PG: Diversified Emerging Mkts M*star Category -3.63% 10.09% 2.54%																
Fund vs. Diversified Emerging Mkts M*star Category 172 145 47																
PG: Fund % Rank in Diversified Emerging Mkts M*star Category 35% 35% 45%																
PG: # of funds in Diversified Emerging Mkts M*star Category 838 708 508																
Fund Star Rating N/A *** **																
TIAA-CREF INTERNATIONAL EQUITY FUND (TIERX)^[6]	\$4,412.10	79	-3.50%	7.68%	3.68%	5.17%	-8.73%	-13.32%	-15.59%	-13.32%	2.25%	0.90%	7.08%	4.37%	7/1/1999	
Gross Expense Ratio 79																
BM: Morgan Stanley EAFE Index 2.74% 9.23% 4.42% 5.38%																
Fund vs. Morgan Stanley EAFE Index -624 -155 -74 -21																
PG: Foreign Large Blend M*star Category 1.55% 8.71% 4.05% 4.98%																
Fund vs. Foreign Large Blend M*star Category -505 -103 -37 19																
PG: Fund % Rank in Foreign Large Blend M*star Category 97% 78% 67% 42%																
PG: # of funds in Foreign Large Blend M*star Category 783 655 535 379																
Fund Star Rating N/A ** ** **																
TIAA-CREF INTERNATIONAL OPPORTUNITIES FUND (TIOSX)	\$1,512.50	108	5.75%	10.97%	5.73%	N/A	-11.36%	-12.27%	-10.70%	-7.41%	5.42%	2.59%	N/A	3.86%	4/12/2013	
Gross Expense Ratio 108																
BM: MSCI AC World Index ex USA 1.76% 9.97% 4.12%																
Fund vs. MSCI AC World Index ex USA 399 100 161																
PG: Foreign Large Growth M*star Category 4.08% 10.28% 5.74%																
Fund vs. Foreign Large Growth M*star Category 167 69 -1																
PG: Fund % Rank in Foreign Large Growth M*star Category 28% 33% 42%																
PG: # of funds in Foreign Large Growth M*star Category 426 347 313																
Fund Star Rating N/A **** **																
TIAA-CREF QUANT INTERNATIONAL SMALL-CAP EQUITY FUND (TLISX)^[14]	\$884.60	115	-4.53%	N/A	N/A	N/A	-10.15%	-13.07%	-18.69%	-15.95%	N/A	N/A	N/A	4.24%	12/9/2016	
Gross Expense Ratio 143																
BM: MSCI ACWI ex-US Small Cap Index 1.86%																
Fund vs. MSCI ACWI ex-US Small Cap Index -639																
PG: Foreign Small/Mid Value M*star Category -1.55%																
Fund vs. Foreign Small/Mid Value M*star Category -298																
PG: Fund % Rank in Foreign Small/Mid Value M*star Category 79%																
PG: # of funds in Foreign Small/Mid Value M*star Category 63																
Fund Star Rating N/A																
TIAA-CREF SOCIAL CHOICE INTERNATIONAL EQUITY FUND (TSORX)	\$61.20	76	1.98%	9.01%	N/A	N/A	-8.43%	-8.84%	-9.58%	-7.88%	3.55%	N/A	N/A	1.73%	8/7/2015	
Gross Expense Ratio 156																
BM: Morgan Stanley EAFE Index 2.74% 9.23%																
Fund vs. Morgan Stanley EAFE Index -76 -22																
PG: Foreign Large Blend M*star Category 1.55% 8.71%																
Fund vs. Foreign Large Blend M*star Category 43 30																
PG: Fund % Rank in Foreign Large Blend M*star Category 46% 46%																
PG: # of funds in Foreign Large Blend M*star Category 783 655																
Fund Star Rating N/A ***																

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETAIL SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc.	
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	10/31/18 to 10/31/18	Date	
Fixed Income																
TIAA-CREF 5-15 YEAR LADDERED TAX-EXEMPT BOND FUND (TIXRX)^[15]	\$266.50	58	-0.30%	1.49%	2.28%	3.79%	-0.68%	-1.09%	-1.11%	-1.05%	1.09%	2.01%	3.83%	3.42%	3/31/2006	
Gross Expense Ratio		60														
BM: Bloomberg Barclays 10-Year Municipal Bond Index			-0.14%	2.18%	3.42%	4.91%	-0.58%	-0.89%	-1.23%	-0.93%	1.85%	3.14%	4.94%	4.48%		
Fund vs. Bloomberg Barclays 10-Year Municipal Bond Index			-16	-69	-114	-112	-10	-20	12	-12	-76	-113	-111	-106		
PG: Muni National Interim M*star Category			-0.03%	1.81%	2.88%	3.98%	N/A	N/A	N/A	-0.74%	1.45%	2.58%	4.12%	N/A		
Fund vs. Muni National Interim M*star Category			-27	-32	-60	-19	N/A	N/A	N/A	-31	-36	-57	-29	N/A		
PG: Fund % Rank in Muni National Interim M*star Category			56%	64%	79%	62%	N/A	N/A	N/A	63%	70%	80%	63%	N/A		
PG: # of funds in Muni National Interim M*star Category			294	260	224	146	N/A	N/A	N/A	296	260	227	151	N/A		
Fund Star Rating			N/A	**	**	**	N/A	N/A	N/A	N/A	**	**	**	N/A		
TIAA-CREF BOND FUND (TIORX)	\$5,718.20	60	-1.34%	1.86%	2.56%	4.04%	-0.74%	-0.95%	-2.56%	-2.27%	1.51%	2.15%	4.21%	4.69%	7/1/1999	
Gross Expense Ratio		60													3/31/2006	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	4.66%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-12	55	40	27	5	-16	-18	-22	47	32	27	3		
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%	4.21%	N/A	N/A	N/A	-1.87%	1.30%	1.79%	4.55%	N/A		
Fund vs. Intermediate-Term Bond M*star Category			-28	21	42	-17	N/A	N/A	N/A	-40	21	36	-34	N/A		
PG: Fund % Rank in Intermediate-Term Bond M*star Category			56%	35%	27%	60%	N/A	N/A	N/A	67%	38%	28%	64%	N/A		
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796	577	N/A	N/A	N/A	1027	887	785	568	N/A		
Fund Star Rating			N/A	***	****	***	N/A	N/A	N/A	N/A	***	****	***	N/A		
TIAA-CREF BOND INDEX FUND (TBILX)	\$10,409.90	44	-1.73%	0.80%	1.68%	N/A	-0.75%	-0.83%	-2.75%	-2.46%	0.52%	1.36%	N/A	2.45%	9/14/2009	
Gross Expense Ratio		44														
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		2.98%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-51	-51	-48		4	-4	-37	-41	-52	-47		-53		
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%		N/A	N/A	N/A	-1.87%	1.30%	1.79%		N/A		
Fund vs. Intermediate-Term Bond M*star Category			-67	-85	-46		N/A	N/A	N/A	-59	-78	-43		N/A		
PG: Fund % Rank in Intermediate-Term Bond M*star Category			82%	85%	76%		N/A	N/A	N/A	76%	86%	76%		N/A		
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796		N/A	N/A	N/A	1027	887	785		N/A		
Fund Star Rating			N/A	**	**		N/A	N/A	N/A	N/A	**	**		N/A		
TIAA-CREF BOND PLUS FUND (TCBPX)	\$4,177.60	62	-1.07%	2.17%	2.73%	4.51%	-0.83%	-1.03%	-2.26%	-2.02%	1.71%	2.29%	4.77%	4.01%	3/31/2006	
Gross Expense Ratio		62														
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.93%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			15	86	57	74	-4	-24	12	3	67	46	83	8		
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%	4.21%	N/A	N/A	N/A	-1.87%	1.30%	1.79%	4.55%	N/A		
Fund vs. Intermediate-Term Bond M*star Category			-1	52	59	30	N/A	N/A	N/A	-15	41	50	22	N/A		
PG: Fund % Rank in Intermediate-Term Bond M*star Category			42%	23%	19%	40%	N/A	N/A	N/A	52%	27%	22%	41%	N/A		
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796	577	N/A	N/A	N/A	1027	887	785	568	N/A		
Fund Star Rating			N/A	****	****	***	N/A	N/A	N/A	N/A	****	****	***	N/A		
TIAA-CREF EMERGING MARKETS DEBT FUND (TEDLX)	\$452.70	100	-3.56%	7.24%	N/A	N/A	-2.03%	-3.51%	-6.83%	-5.79%	5.36%	N/A	N/A	3.08%	9/26/2014	
Gross Expense Ratio		117														
BM: J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified			-1.92%	6.04%			-2.16%	-2.40%	-5.13%	-4.39%	4.33%			3.51%		
Fund vs. J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified			-164	120			13	-111	-170	-140	103			-43		
PG: Emerging Markets Bond M*star Category			-3.56%	5.59%			N/A	N/A	N/A	-4.95%	3.93%			N/A		
Fund vs. Emerging Markets Bond M*star Category			0	165			N/A	N/A	N/A	-84	143			N/A		
PG: Fund % Rank in Emerging Markets Bond M*star Category			50%	14%			N/A	N/A	N/A	58%	14%			N/A		
PG: # of funds in Emerging Markets Bond M*star Category			287	222			N/A	N/A	N/A	293	230			N/A		
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****			N/A		
TIAA-CREF HIGH YIELD BOND FUND (TIYRX)	\$3,864.90	62	3.22%	7.19%	5.00%	8.33%	-1.81%	-0.52%	0.73%	0.96%	5.54%	4.00%	9.55%	6.54%	3/31/2006	
Gross Expense Ratio		62														
BM: ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)			2.30%	7.34%	5.38%	8.54%	-1.47%	-0.20%	0.41%	0.34%	5.78%	4.56%	10.18%	6.65%		
Fund vs. ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)			92	-15	-38	-21	-34	-32	32	62	-24	-56	-63	-11		
PG: High Yield Bond M*star Category			2.36%	6.41%	4.31%	7.62%	N/A	N/A	N/A	0.45%	5.12%	3.52%	9.19%	N/A		
Fund vs. High Yield Bond M*star Category			86	78	69	71	N/A	N/A	N/A	51	42	48	36	N/A		
PG: Fund % Rank in High Yield Bond M*star Category			25%	27%	25%	25%	N/A	N/A	N/A	37%	35%	29%	41%	N/A		
PG: # of funds in High Yield Bond M*star Category			692	592	502	331	N/A	N/A	N/A	697	603	505	332	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	***	****	***	N/A		
TIAA-CREF INFLATION-LINKED BOND FUND (TCILX)	\$2,985.90	59	-0.02%	1.08%	0.63%	2.63%	-0.83%	-0.95%	-1.43%	-1.03%	0.74%	0.36%	3.46%	3.53%	10/1/2002	
Gross Expense Ratio		59														
BM: Bloomberg Barclays US TIPS 1-10 Year Index			0.33%	1.65%	0.94%	2.52%	-0.78%	-0.80%	-0.98%	-0.61%	1.38%	0.69%	3.29%	3.53%		
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-35	-57	-31	11	-5	-15	-45	-42	-64	-33	17	0		
PG: Inflation-Protected Bond M*star Category			0.42%	1.95%	0.97%	2.89%	N/A	N/A	N/A	-1.23%	1.30%	0.58%	3.61%	N/A		
Fund vs. Inflation-Protected Bond M*star Category			-44	-87	-34	-26	N/A	N/A	N/A	20	-56	-22	-15	N/A		
PG: Fund % Rank in Inflation-Protected Bond M*star Category			81%	88%	68%	72%	N/A	N/A	N/A	36%	88%	69%	66%	N/A		
PG: # of funds in Inflation-Protected Bond M*star Category			236	207	174	107	N/A	N/A	N/A	235	206	173	107	N/A		
Fund Star Rating			N/A	**	**	**	N/A	N/A	N/A	N/A	**	**	***	N/A		
TIAA-CREF INTERNATIONAL BOND FUND (TIBEX)^[4]	\$353.90	90	0.46%	N/A	N/A	N/A	-0.41%	-1.09%	-1.09%	-0.36%	N/A	N/A	N/A	0.41%	8/5/2016	
Gross Expense Ratio		96														
BM: Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			2.40%				0.29%	0.13%	1.54%	1.98%				1.04%		
Fund vs. Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			-194				-70	-122	-263	-234				-63		
PG: World Bond M*star Category			-1.23%				N/A	N/A	N/A	-1.91%				N/A		
Fund vs. World Bond M*star Category			169				N/A	N/A	N/A	155				N/A		
PG: Fund % Rank in World Bond M*star Category			24%				N/A	N/A	N/A	29%				N/A		
PG: # of funds in World Bond M*star Category			310				N/A	N/A	N/A	310				N/A		
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETAIL SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return				Avg. Annual Return									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	Inc. Date	
TIAA-CREF SHORT-TERM BOND FUND (TCTRX)	\$1,805.10	57	0.37%	1.18%	1.08%	2.31%	0.10%	0.34%	0.47%	0.53%	1.18%	1.02%	2.34%	2.58%	3/31/2006	
Gross Expense Ratio		57														
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			0.20%	0.73%	0.83%	1.67%	0.11%	0.39%	0.52%	0.34%	0.77%	0.82%	1.66%	2.35%		
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			17	45	25	64	-1	-5	-5	19	41	20	68	23		
PG: Short-Term Bond M*star Category			0.43%	1.36%	1.24%	2.52%	N/A	N/A	N/A	0.32%	1.29%	1.14%	2.72%	N/A		
Fund vs. Short-Term Bond M*star Category			-6	-18	-16	-21	N/A	N/A	N/A	21	-11	-12	-38	N/A		
PG: Fund % Rank in Short-Term Bond M*star Category			49%	53%	58%	57%	N/A	N/A	N/A	38%	54%	57%	60%	N/A		
PG: # of funds in Short-Term Bond M*star Category			533	474	400	260	N/A	N/A	N/A	536	472	399	260	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF SHORT-TERM BOND INDEX FUND (TRSHX)	\$434.90	47	-0.18%	0.22%	N/A	N/A	0.06%	0.36%	0.20%	-0.02%	0.26%	N/A	N/A	0.31%	8/7/2015	
Gross Expense Ratio		64														
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			0.20%	0.73%			0.11%	0.39%	0.52%	0.34%	0.77%			0.81%		
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-38	-51			-5	-3	-32	-36	-51			-50		
PG: Short-Term Bond M*star Category			0.43%	1.36%			N/A	N/A	N/A	0.32%	1.29%			N/A		
Fund vs. Short-Term Bond M*star Category			-61	-114			N/A	N/A	N/A	-34	-103			N/A		
PG: Fund % Rank in Short-Term Bond M*star Category			78%	94%			N/A	N/A	N/A	66%	92%			N/A		
PG: # of funds in Short-Term Bond M*star Category			533	474			N/A	N/A	N/A	536	472			N/A		
Fund Star Rating			N/A	*			N/A	N/A	N/A	N/A	*			N/A		
TIAA-CREF SOCIAL CHOICE BOND FUND (TSBRX)	\$2,626.80	65	-0.84%	1.68%	3.00%	N/A	-0.67%	-0.72%	-2.07%	-1.69%	1.42%	2.67%	N/A	2.24%	9/21/2012	
Gross Expense Ratio		65														
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.41%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			38	37	84		12	7	31	36	38	84		83		
PG: Intermediate-Term Bond M*star Category			-1.06%	1.65%	2.14%		N/A	N/A	N/A	-1.87%	1.30%	1.79%		N/A		
Fund vs. Intermediate-Term Bond M*star Category			22	3	86		N/A	N/A	N/A	18	12	88		N/A		
PG: Fund % Rank in Intermediate-Term Bond M*star Category			33%	44%	11%		N/A	N/A	N/A	35%	42%	8%		N/A		
PG: # of funds in Intermediate-Term Bond M*star Category			1039	902	796		N/A	N/A	N/A	1027	887	785		N/A		
Fund Star Rating			N/A	***	****		N/A	N/A	N/A	N/A	***	****		N/A		
Multi-Asset																
TIAA-CREF LIFECYCLE RETIREMENT INCOME FUND (TLRRX)^[3]	\$530.00	62	4.04%	6.88%	5.38%	6.38%	-3.67%	-3.21%	-2.12%	-0.71%	4.44%	4.12%	7.01%	4.42%	11/30/2007	
Gross Expense Ratio		80														
BM: Lifecycle Retirement Income Fund Composite Index			4.54%	6.68%	5.37%	6.34%	-3.45%	-2.63%	-1.59%	0.06%	4.36%	4.21%	6.92%	4.59%		
Fund vs. Lifecycle Retirement Income Fund Composite Index			-50	20	1	4	-22	-58	-53	-77	8	-9	9	-17		
BM: S&P Target Date Retirement Income Index			3.71%	5.35%	4.37%	5.10%	-2.92%	-2.36%	-1.52%	-0.07%	3.53%	3.42%	5.73%	3.57%		
Fund vs. S&P Target Date Retirement Income Index			33	153	101	128	-75	-85	-60	-64	91	70	128	85		
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%	3.77%	-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%	3.94%	3.46%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			526	557	322	261	-288	-242	26	134	340	229	307	96		
PG: Target-Date Retirement M*star Category			2.74%	5.19%	3.98%	5.19%	N/A	N/A	N/A	-0.89%	3.34%	3.03%	5.89%	N/A		
Fund vs. Target-Date Retirement M*star Category			130	169	140	119	N/A	N/A	N/A	18	110	109	112	N/A		
PG: Fund % Rank in Target-Date Retirement M*star Category			11%	8%	6%	6%	N/A	N/A	N/A	39%	9%	6%	10%	N/A		
PG: # of funds in Target-Date Retirement M*star Category			189	164	137	93	N/A	N/A	N/A	189	163	137	94	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFESTYLE AGGRESSIVE GROWTH FUND (TSALX)^[10]	\$111.30	85	11.27%	14.14%	9.99%	N/A	-8.94%	-7.73%	-3.99%	-0.82%	8.07%	7.08%	N/A	10.92%	12/9/2011	
Gross Expense Ratio		105														
BM: Lifestyle Aggressive Composite Benchmark			12.68%	14.99%	10.66%		-7.66%	-5.76%	-1.85%	1.92%	9.22%	8.04%		11.37%		
Fund vs. Lifestyle Aggressive Composite Benchmark			-141	-85	-67		-128	-197	-214	-274	-115	-96		-45		
BM: Morningstar Aggressive Target Risk TR USD			10.40%	13.86%	9.26%		-7.19%	-6.07%	-3.11%	0.53%	8.66%	6.88%		10.10%		
Fund vs. Morningstar Aggressive Target Risk TR USD			87	28	73		-175	-166	-88	-135	-59	20		82		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%		
Fund vs. Russell 3000 Index			-631	-293	-347		-158	-293	-347	-742	-320	-373		-305		
PG: Allocation-85%+ Equity M*star Category			10.08%	12.40%	8.72%		N/A	N/A	N/A	0.21%	7.18%	6.25%		N/A		
Fund vs. Allocation-85%+ Equity M*star Category			119	174	127		N/A	N/A	N/A	-103	89	83		N/A		
PG: Fund % Rank in Allocation-85%+ Equity M*star Category			32%	9%	18%		N/A	N/A	N/A	71%	22%	31%		N/A		
PG: # of funds in Allocation-85%+ Equity M*star Category			196	176	151		N/A	N/A	N/A	195	174	149		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE CONSERVATIVE FUND (TSLCX)^[9]	\$225.00	73	4.03%	6.73%	5.36%	N/A	-4.03%	-3.54%	-2.48%	-1.12%	4.20%	4.01%	N/A	5.79%	12/9/2011	
Gross Expense Ratio		83														
BM: Lifestyle Conservative Composite Benchmark			4.52%	6.58%	5.33%		-3.36%	-2.51%	-1.44%	0.16%	4.31%	4.20%		5.54%		
Fund vs. Lifestyle Conservative Composite Benchmark			-49	15	3		-67	-103	-104	-128	-11	-19		25		
BM: Morningstar Moderately Conservative Target Risk TR USD			3.91%	6.69%	4.96%		-3.34%	-2.78%	-2.11%	-0.42%	4.51%	3.85%		5.33%		
Fund vs. Morningstar Moderately Conservative Target Risk TR USD			12	4	40		-69	-76	-37	-70	-31	16		46		
BM: Bloomberg Barclays U.S. Aggregate Bond Index			-1.22%	1.31%	2.16%		-0.79%	-0.79%	-2.38%	-2.05%	1.04%	1.83%		1.88%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			525	542	320		-324	-275	-10	93	316	218		391		
PG: Allocation-30% to 50% Equity M*star Category			3.30%	6.30%	4.74%		N/A	N/A	N/A	-1.08%	3.81%	3.37%		N/A		
Fund vs. Allocation-30% to 50% Equity M*star Category			73	43	62		N/A	N/A	N/A	-4	39	64		N/A		
PG: Fund % Rank in Allocation-30% to 50% Equity M*star Category			36%	34%	23%		N/A	N/A	N/A	55%	38%	28%		N/A		
PG: # of funds in Allocation-30% to 50% Equity M*star Category			508	439	355		N/A	N/A	N/A	532	460	368		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE GROWTH FUND (TSLGX)^[10]	\$159.30	80	8.71%	11.79%	8.60%	N/A	-7.40%	-6.47%	-3.75%	-1.09%	6.87%	6.20%	N/A	9.37%	12/9/2011	
Gross Expense Ratio		94														
BM: Lifestyle Growth Composite Benchmark			9.83%	12.21%	8.99%		-6.29%	-4.74%	-1.86%	1.22%	7.62%	6.87%		9.51%		
Fund vs. Lifestyle Growth Composite Benchmark			-112	-42	-39		-111	-173	-189	-231	-75	-67		-14		
BM: Morningstar Moderately Aggressive Target Risk TR USD			8.32%	11.76%	8.03%		-6.13%	-5.19%	-3.08%	0.04%	7.46%	6.01%		8.77%		
Fund vs. Morningstar Moderately Aggressive Target Risk TR USD			39	3	57		-127	-128	-67	-113	-59	19		60		
BM: Russell 3000 Index			17.58%	17.07%	13.46%		-7.36%	-3.95%	2.43%	6.60%	11.27%	10.81%		13.97%		
Fund vs. Russell 3000 Index			-887	-528	-486		-4	-252	-618	-769	-440	-461		-460		
PG: Allocation-70% to 85% Equity M*star Category			8.52%	10.41%	7.54%		N/A	N/A	N/A	0.04%	6.17%	5.48%		N/A		
Fund vs. Allocation-70% to 85% Equity M*star Category			19	138	106		N/A	N/A	N/A	-113	70	72		N/A		
PG: Fund % Rank in Allocation-70% to 85% Equity M*star Category			45%	25%	24%		N/A	N/A	N/A	74%	36%	34%		N/A		
PG: # of funds in Allocation-70% to 85% Equity M*star Category			359	323	279		N/A	N/A	N/A	351	315	270		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
RETAIL SHARE CLASS

FOR PERIOD ENDING October 31, 2018
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns									
			Avg. Annual Return ^[1]				Avg. Annual Return ^[1]									
			1 Year	3 Year	5 Year	10 Year	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception		
			10/01/17 to 09/30/18	10/01/15 to 09/30/18	10/01/13 to 09/30/18	10/01/08 to 09/30/18	10/01/18 to 10/31/18	08/01/18 to 10/31/18	01/01/18 to 10/31/18	11/01/17 to 10/31/18	11/01/15 to 10/31/18	11/01/13 to 10/31/18	11/01/08 to 10/31/18	Inception to 10/31/18	Inc. Date	
Money Market																
TIAA-CREF MONEY MARKET FUND (TIRXX) ^[11,13,6,7]	\$1,057.00	48	1.12%	0.45%	0.27%	0.23%	0.14%	0.40%	1.09%	1.20%	0.50%	0.30%	0.22%	1.81%	7/1/1999	
Gross Expense Ratio		48													3/31/2006	
BM: iMoneyNet Money Fund AveragesTM-All Government			1.13%	0.50%	0.30%	0.18%	0.15%	0.41%	1.10%	1.22%	0.55%	0.33%	0.19%	1.50%		
Fund vs. iMoneyNet Money Fund AveragesTM-All Government			-1	-5	-3	5	-1	-1	-1	-2	-5	-3	3	31		
7-Day Effective Yield as of 10/31/2018:	1.75%															
7-Day Current Yield as of 10/31/2018:	1.75%															
MUTUAL FUND TOTALS ^[1]	\$94,757.00															

BM = Benchmark; PG = Peer Group; % Rank within Morningstar Category: 1 = Best 100 = Worst; Morningstar Category Returns are equal-weighted.

[1] Combined Mutual Funds' Net Assets exclude the Managed Allocation Fund, Lifecycle Funds, and Lifestyle Funds.

[2] The net expense ratio (top number) represents expenses after reimbursement and waivers, and is what participants actually pay. The number below represents the gross expense ratio, before consideration for reimbursements and/or waivers.

[3] The "Since Inception" benchmark performance shown is computed from August 1999.

[4] The "Since Inception" values presented are cumulative values and not average annualized total returns.

[5] 42% Russell 3000® Index, 40% Bloomberg Barclays U.S. Aggregate Bond Index, 18% Morgan Stanley All Country World Index ex-USA.

[6] The Retail Class began operations on March 31, 2006. Where a product lists two inception dates, the top date reflects the inception date of the product's oldest share class, and the bottom date represents the date of inception for the Share Class being reported. Performance shown for periods prior to the inception of the Retail Class reflects the performance of the Institutional Class, and has not been adjusted to reflect the higher expenses of the Retail Class.

[7] Beginning August 18, 2009, part or all of the 12b-1 distribution expenses of the Retail Class of the TIAA-CREF Money Market Fund are not being reimbursed to the Fund's distributor. The Fund's advisor is also waiving part or all of the investment management fees and reimbursing certain other Fund expenses. Without these changes, current and effective annualized yields and total returns would have been lower. These voluntary fee and waivers and reimbursements may be discontinued at any time without notice.

[8] The S&P Target Date Indexes represent a broadly derived consensus of asset class exposure for the respective target retirement date based on market observations acquired through an annual survey of target date fund managers. The S&P Target Date Index returns include the fees and expenses of the exchange-traded funds that comprise each respective index. Previously, the Lifecycle Active and Index 2010, 2015 and Retirement Income Funds compared their performance to the Bloomberg Barclays U.S. Aggregate Bond Index instead of the S&P Target Date Indexes shown in the chart above. The returns of the S&P Target Date Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure for the same target date as the Fund.

[9] The Morningstar Target Risk Indexes are asset allocation indexes comprised of constituent Morningstar indexes and reflect global equity market exposure of 20%, 40%, 60%, 80% or 95% based on an asset allocation methodology from Ibbotson Associates, a Morningstar company. The returns of the Morningstar Target Risk Indexes do not reflect a deduction for fees or expenses. Previously, the Lifestyle Conservative and Lifestyle Income Funds compared their performance to the Bloomberg Barclays U.S. Aggregate Bond Index instead of the Morningstar Target Risk Indexes shown in the chart above. The returns of the Morningstar Target Risk Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure and similar risk profiles.

[10] The Morningstar Target Risk Indexes are asset allocation indexes comprised of constituent Morningstar indexes and reflect global equity market exposure of 20%, 40%, 60%, 80% or 95% based on an asset allocation methodology from Ibbotson Associates, a Morningstar company. The returns of the Morningstar Target Risk Indexes do not reflect a deduction for fees or expenses. Previously, the Lifestyle Moderate, Growth and Aggressive, and the TIAA-CREF Managed Allocation Fund compared their performance to the Russell 3000 Index instead of the Morningstar Target Risk Indexes shown in the chart above. The returns of the Morningstar Target Risk Indexes are more appropriate for comparison purposes because they reflect multi-asset class exposure and similar risk profiles.

[11] Effective October 1, 2016, the iMoneyNet Money Fund Averages-All Taxable peer group was changed to the iMoneyNet Money Fund Averages-All Government.

[12] Effective August 1, 2018, the TIAA-CREF Small Cap Equity Fund's name was changed to TIAA-CREF Quant Small Cap Equity Fund.

[13] Effective August 1, 2018, the TIAA-CREF Small/Mid-Cap Equity Fund's name was changed to TIAA-CREF Quant Small/Mid Cap Equity Fund.

[14] Effective August 1, 2018, the TIAA-CREF International Small-Cap Equity Fund's name was changed to TIAA-CREF Quant International Small-Cap Equity Fund.

[15] Effective August 1, 2018, the TIAA-CREF Tax-Exempt Bond Fund's name was changed to TIAA-CREF 5-15 Year Laddered Tax-Exempt Bond Fund.

Teachers Advisors, LLC. ("Advisors"), the Funds' investment adviser has contractually agreed to reimburse the Funds for any Total Annual Fund Operating Expenses (excluding Acquired Fund Fees and Expenses and extraordinary expenses) that exceed 0.25% of average daily net assets for the Lifecycle and 0.29% for the Lifecycle Index Retail Class Funds. These expense reimbursement arrangements will continue through at least September 30, 2019 unless changed with approval of the Board of Trustees.

In addition to the expense reimbursement arrangement, Advisors has contractually agreed to waive a portion of the Fund's Management Fee equal to, on an annual basis of 0.10% for the all of the Lifecycle Funds. This waiver will remain in effect through September 30, 2019, unless changed with approval of the Board of Trustees.

The Morningstar category averages, percentile ranks and star ratings are sourced from the Morningstar Essentials files prepared for TIAA as well as from Morningstar Direct.

Under the Funds' expense reimbursement arrangements, the Funds' investment adviser, Teachers Advisors, LLC. ("Advisors"), has contractually agreed to reimburse the Funds for any Total Annual Fund Operating Expenses (excluding Acquired Fund Fees and Expenses and extraordinary expenses) that exceed the following annual rates of average daily net assets: a) 0.91% for the Growth & Income Fund; 0.99% for the International Equity Fund; 1.34% for the Emerging Markets Equity Fund; 0.91% for the Large-Cap Growth Fund; 0.91% for the Large-Cap Value Fund; 0.94% for the Mid-Cap Growth Fund; 0.94% for the Mid-Cap Value Fund; 0.92% for the Small-Cap Equity Fund; 0.48% for the Equity Index Fund; 0.64% for the Emerging Markets Equity Index Fund; 0.61% for the Social Choice Equity Fund; 1.14% for the Global Natural Resources Fund; 1.09% for the International Opportunities Fund; 1.00% for the Emerging Markets Debt Fund; b) 0.96% for the Real Estate Securities Fund; 0.70% for the Bond Fund; 0.70% for the Bond Plus Fund; 0.65% for the Short-Term Bond Fund; 0.65% for the Inflation-Linked Bond Fund; 0.75% for the High-Yield Fund; 0.70% for the Tax-Exempt Bond Fund; 0.48% for the Bond Index Fund; 0.50% for the Money Market Fund; 0.75% for the Social Choice Bond Fund; 0.47% for the Short-Term Bond Index Fund; 0.71% for the Social Choice Low Carbon Equity Fund; 0.79% for the Social Choice International Equity Index; c) 0.25% for the Managed Allocation Fund.

a) These expense reimbursement arrangements will continue through at least February 28, 2019 unless changed with approval of the Board of Trustees.

b) These expense reimbursement arrangements will continue through at least July 31, 2019 unless changed with approval of the Board of Trustees.

c) These expense reimbursement arrangements will continue through at least September 30, 2019 unless changed with approval of the Board of Trustees.