

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.

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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 April 30, 2019
 PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

ACCOUNT	Total Portfolio Net Assets (in \$Mill.)	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	
			04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inception to 04/30/19	Inc. Date
U.S. Equities															
CREF EQUITY INDEX ACCOUNT	\$19,439.20	23	8.59%	13.24%	10.10%	15.63%	3.97%	9.15%	18.48%	12.49%	14.50%	10.94%	14.94%	9.56%	4/29/1994
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	9.90%	4/24/2015
Fund vs. Russell 3000 Index			-18	-24	-26	-37	-2	-7	-12	-19	-24	-26	-35	-34	
PG: Large Blend M*star OE Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A	
Fund vs. Large Blend M*star OE Category			169	140	119	109	N/A	N/A	N/A	161	141	123	105	N/A	
PG: Fund % Rank in Large Blend M*star Category			40%	27%	33%	26%	N/A	N/A	N/A	42%	29%	32%	26%	N/A	
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	N/A	
Fund Star Rating			N/A	****	***	****	N/A	N/A	N/A	N/A	****	***	****	N/A	
CREF GROWTH ACCOUNT	\$27,584.50	26	11.57%	16.32%	13.31%	17.09%	4.33%	11.69%	21.98%	15.51%	18.38%	14.35%	16.54%	9.10%	4/29/1994
BM: Russell 1000 Growth Index			12.75%	16.53%	13.50%	17.52%	4.52%	11.34%	21.35%	17.43%	18.62%	14.50%	16.96%	9.91%	4/24/2015
Fund vs. Russell 1000 Growth Index			-118	-21	-19	-43	-19	35	63	-192	-24	-15	-42	-81	
PG: Large Growth M*star OE Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A	
Fund vs. Large Growth M*star OE Category			86	97	205	115	N/A	N/A	N/A	74	129	189	131	N/A	
PG: Fund % Rank in Large Growth M*star Category			44%	36%	22%	27%	N/A	N/A	N/A	48%	34%	25%	24%	N/A	
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	N/A	
Fund Star Rating			N/A	***	****	****	N/A	N/A	N/A	N/A	***	****	****	N/A	
Global Equities															
CREF GLOBAL EQUITIES ACCOUNT⁽⁵⁾	\$20,891.70	34	0.21%	9.97%	6.12%	12.21%	3.29%	7.49%	17.25%	2.78%	10.77%	6.75%	11.44%	7.59%	5/1/1992
BM: MSCI AC World Index			2.60%	10.67%	6.45%	11.98%	3.38%	7.48%	15.96%	5.06%	11.36%	6.96%	11.11%	N/A	4/24/2015
Fund vs. MSCI AC World Index			-239	-70	-33	23	-9	1	129	-228	-59	-21	33	N/A	
BM: MSCI World Index			4.01%	10.68%	6.78%	12.38%	3.55%	8.06%	16.47%	6.48%	11.39%	7.31%	11.58%	7.53%	
Fund vs. MSCI World Index			-380	-71	-66	-17	-26	-57	78	-370	-62	-56	-14	6	
PG: World Large Stock M*star OE Category			1.85%	9.96%	5.89%	11.79%	N/A	N/A	N/A	4.59%	10.83%	6.60%	11.12%	N/A	
Fund vs. World Large Stock M*star OE Category			-164	1	23	42	N/A	N/A	N/A	-181	-6	15	32	N/A	
PG: Fund % Rank in World Large Stock M*star Category			66%	46%	45%	44%	N/A	N/A	N/A	66%	45%	46%	45%	N/A	
PG: # of funds in World Large Stock M*star Category			900	732	617	370	N/A	N/A	N/A	872	718	596	354	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
CREF STOCK ACCOUNT^(6,8)	\$118,135.70	31	2.73%	11.26%	7.52%	13.48%	3.63%	7.96%	17.33%	6.01%	12.24%	8.26%	12.72%	9.81%	7/31/1952
BM: CREF Composite Benchmark ⁽¹⁾			4.56%	11.87%	8.06%	13.89%	3.57%	8.00%	16.94%	7.51%	12.72%	8.73%	13.07%	N/A	4/24/2015
Fund vs. CREF Composite Benchmark			-183	-61	-54	-41	6	-4	39	-150	-48	-47	-35	N/A	
BM: Morningstar Aggressive Target Risk TR USD			3.76%	11.37%	7.03%	13.05%	3.03%	6.91%	15.64%	6.29%	11.88%	7.58%	12.22%	N/A	
Fund vs. Morningstar Aggressive Target Risk TR USD			-103	-11	49	43	60	105	169	-28	36	68	50	N/A	
PG: Allocation~85%+ Equity M*star OE Category			2.64%	9.60%	5.99%	12.56%	N/A	N/A	N/A	5.09%	10.28%	6.55%	11.62%	N/A	
Fund vs. Allocation~85%+ Equity M*star OE Category			9	166	153	92	N/A	N/A	N/A	92	196	171	110	N/A	
PG: Fund % Rank in Allocation~85%+ Equity M*star Category			43%	9%	9%	10%	N/A	N/A	N/A	33%	12%	11%	7%	N/A	
PG: # of funds in Allocation~85%+ Equity M*star Category			186	165	144	106	N/A	N/A	N/A	198	175	157	110	N/A	
Fund Star Rating			N/A	*****	*****	*****	N/A	N/A	N/A	N/A	*****	****	*****	N/A	
Fixed Income															
CREF BOND MARKET ACCOUNT	\$13,453.20	31	4.54%	2.52%	2.91%	3.98%	0.12%	2.11%	3.38%	5.38%	2.37%	2.78%	3.93%	5.72%	3/1/1990
BM: Bloomberg Barclays U.S. Aggregate Bond Index			4.48%	2.03%	2.74%	3.77%	0.03%	1.89%	2.97%	5.29%	1.90%	2.57%	3.72%	5.93%	4/24/2015
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			6	49	17	21	9	22	41	9	47	21	21	-21	
PG: Intermediate Core Bond M*star OE Category			3.98%	2.37%	2.51%	4.56%	N/A	N/A	N/A	4.82%	1.69%	2.18%	3.77%	N/A	
Fund vs. Intermediate Core Bond M*star OE Category			56	15	40	-58	N/A	N/A	N/A	56	68	60	16	N/A	
PG: Fund % Rank in Intermediate Core Bond M*star Category			20%	39%	25%	70%	N/A	N/A	N/A	16%	10%	12%	46%	N/A	
PG: # of funds in Intermediate Core Bond M*star Category			1024	901	769	564	N/A	N/A	N/A	384	339	298	219	N/A	
Fund Star Rating			N/A	***	****	**	N/A	N/A	N/A	N/A	*****	****	***	N/A	
CREF INFLATION-LINKED BOND ACCOUNT	\$6,475.80	24	2.60%	1.37%	1.55%	2.99%	0.37%	1.73%	2.93%	3.12%	1.45%	1.36%	3.22%	4.79%	5/1/1997
BM: Bloomberg Barclays US TIPS 1-10 Year Index			2.72%	1.53%	1.50%	2.73%	0.43%	1.87%	3.01%	3.30%	1.59%	1.39%	2.82%	N/A	4/24/2015
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-12	-16	5	26	-6	-14	-8	-18	-14	-3	40	N/A	
PG: Inflation-Protected Bond M*star OE Category			2.21%	1.65%	1.43%	3.01%	N/A	N/A	N/A	2.63%	1.65%	1.26%	3.19%	N/A	
Fund vs. Inflation-Protected Bond M*star OE Category			39	-28	12	-2	N/A	N/A	N/A	49	-20	10	3	N/A	
PG: Fund % Rank in Inflation-Protected Bond M*star Category			21%	66%	38%	53%	N/A	N/A	N/A	16%	65%	40%	53%	N/A	
PG: # of funds in Inflation-Protected Bond M*star Category			225	200	170	105	N/A	N/A	N/A	227	200	171	105	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
Multi-Asset															
CREF SOCIAL CHOICE ACCOUNT⁽³⁾	\$14,072.50	27	4.81%	7.91%	5.87%	10.07%	2.05%	5.52%	10.97%	6.83%	8.27%	6.14%	9.55%	8.23%	3/1/1990
BM: CREF Social Choice Account Composite Benchmark			5.16%	7.86%	6.11%	10.18%	2.20%	5.69%	11.31%	7.18%	8.29%	6.45%	9.69%	8.34%	4/24/2015
Fund vs. CREF Social Choice Account Composite Benchmark			-35	5	-24	-11	-15	-17	-34	-35	-2	-31	-14	-11	
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%	9.55%	1.93%	5.01%	10.78%	6.32%	8.29%	5.67%	9.04%	N/A	
Fund vs. Morningstar Moderate Target Risk TR USD			39	-14	47	52	12	51	19	51	-2	47	51	N/A	
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	10.16%	
Fund vs. Russell 3000 Index			-396	-557	-449	-593	-194	-370	-763	-585	-647	-506	-574	-193	
PG: Allocation~50% to 70% Equity M*star OE Category			3.90%	7.44%	5.12%	9.98%	N/A	N/A	N/A	6.02%	7.89%	5.53%	9.42%	N/A	
Fund vs. Allocation~50% to 70% Equity M*star OE Category			91	47	75	9	N/A	N/A	N/A	81	38	61	13	N/A	
PG: Fund % Rank in Allocation~50% to 70% Equity M*star Category			30%	35%	33%	45%	N/A	N/A	N/A	36%	38%	36%	43%	N/A	
PG: # of funds in Allocation~50% to 70% Equity M*star Category			758	690	601	439	N/A	N/A	N/A	756	688	605	444	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 April 30, 2019
 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
	04/30/19		04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19		
Money Market															
CREF MONEY MARKET ACCOUNT^[2,4,7]	\$9,766.00	24	1.78%	0.87%	0.52%	0.26%	0.18%	0.54%	0.72%	1.88%	0.93%	0.56%	0.28%	3.15%	4/1/1988
PG: iMoneynet Money Fund AveragesTM-All Government			1.67%	0.81%	0.49%	0.26%	0.17%	0.49%	0.66%	1.73%	0.87%	0.53%	0.27%	5.18%	4/24/2015
Fund vs.iMoneynet Money Fund AveragesTM-All Government			11	6	3	0	1	5	6	15	6	3	1	-203	
7-Day Effective Yield as of 04/30/2019: 2.25%															
7-Day Current Yield as of 04/30/2019: 2.25%															
CREF ACCOUNTS TOTALS	\$229,818.60														

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 April 30, 2019
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

ACCOUNT	Total Portfolio Net Assets (in \$Mil.) 04/30/19	Exp. Ratio (bps)	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Returns				Avg. Annual Returns								
			1 Year 04/01/18 to 03/31/19	3 Year 04/01/16 to 03/31/19	5 Year 04/01/14 to 03/31/19	10 Year 04/01/09 to 03/31/19	1 Month 04/01/19 to 04/30/19	3 Month 02/01/19 to 04/30/19	YTD 01/01/19 to 04/30/19	1 Year 05/01/18 to 04/30/19	3 Year 05/01/16 to 04/30/19	5 Year 05/01/14 to 04/30/19	10 Year 05/01/09 to 04/30/19	Since Inception 04/30/19	
U.S. Equities															
CREF EQUITY INDEX ACCOUNT	\$19,439.20	30	8.54%	13.17%	10.03%	15.60%	3.97%	9.13%	18.46%	12.45%	14.42%	10.87%	14.90%	9.55%	4/29/1994
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	9.90%	4/24/2015
Fund vs. Russell 3000 Index			-23	-31	-33	-40	-2	-9	-14	-23	-32	-33	-39	-35	
PG: Large Blend M*star OE Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A	
Fund vs. Large Blend M*star OE Category			164	133	112	106	N/A	N/A	N/A	157	133	116	101	N/A	
PG: Fund % Rank in Large Blend M*star Category			41%	30%	35%	28%	N/A	N/A	N/A	43%	31%	34%	28%	N/A	
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	N/A	
Fund Star Rating			N/A	****	***	****	N/A	N/A	N/A	N/A	****	***	****	N/A	
CREF GROWTH ACCOUNT	\$27,584.50	32	11.53%	16.24%	13.24%	17.06%	4.32%	11.68%	21.96%	15.46%	18.29%	14.28%	16.51%	9.09%	4/29/1994
BM: Russell 1000 Growth Index			12.75%	16.53%	13.50%	17.52%	4.52%	11.34%	21.35%	17.43%	18.62%	14.50%	16.96%	9.91%	4/24/2015
Fund vs. Russell 1000 Growth Index			-122	-29	-26	-46	-20	34	61	-197	-33	-22	-45	-82	
PG: Large Growth M*star OE Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A	
Fund vs. Large Growth M*star OE Category			82	89	198	112	N/A	N/A	N/A	69	120	182	128	N/A	
PG: Fund % Rank in Large Growth M*star Category			44%	36%	23%	27%	N/A	N/A	N/A	48%	35%	27%	25%	N/A	
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	N/A	
Fund Star Rating			N/A	***	****	****	N/A	N/A	N/A	N/A	***	****	****	N/A	
Global Equities															
CREF GLOBAL EQUITIES ACCOUNT ^[9]	\$20,891.70	40	0.17%	9.90%	6.06%	12.18%	3.29%	7.48%	17.23%	2.74%	10.69%	6.69%	11.41%	7.58%	5/1/1992
BM: MSCI AC World Index			2.60%	10.67%	6.45%	11.98%	3.38%	7.48%	15.96%	5.06%	11.36%	6.96%	11.11%	N/A	4/24/2015
Fund vs. MSCI AC World Index			-243	-77	-39	20	-9	0	127	-232	-67	-27	30	N/A	
BM: MSCI World Index			4.01%	10.68%	6.78%	12.38%	3.55%	8.06%	16.47%	6.48%	11.39%	7.31%	11.58%	7.53%	
Fund vs. MSCI World Index			-384	-78	-72	-20	-26	-58	76	-374	-70	-62	-17	5	
PG: World Large Stock M*star OE Category			1.85%	9.96%	5.89%	11.79%	N/A	N/A	N/A	4.59%	10.83%	6.60%	11.12%	N/A	
Fund vs. World Large Stock M*star OE Category			-168	-6	17	39	N/A	N/A	N/A	-185	-14	9	29	N/A	
PG: Fund % Rank in World Large Stock M*star Category			66%	48%	46%	45%	N/A	N/A	N/A	66%	46%	48%	46%	N/A	
PG: # of funds in World Large Stock M*star Category			900	732	617	370	N/A	N/A	N/A	872	718	596	354	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
CREF STOCK ACCOUNT ^[6,8]	\$118,135.70	37	2.69%	11.18%	7.45%	13.45%	3.63%	7.95%	17.31%	5.97%	12.16%	8.19%	12.68%	9.81%	7/31/1952
BM: CREF Composite Benchmark ^[1]			4.56%	11.87%	8.06%	13.89%	3.57%	8.00%	16.94%	7.51%	12.72%	8.73%	13.07%	N/A	4/24/2015
Fund vs. CREF Composite Benchmark			-187	-69	-61	-44	6	-5	37	-154	-56	-54	-39	N/A	
BM: Morningstar Aggressive Target Risk TR USD			3.76%	11.37%	7.03%	13.05%	3.03%	6.91%	15.64%	6.29%	11.88%	7.58%	12.22%	N/A	
Fund vs. Morningstar Aggressive Target Risk TR USD			-107	-19	42	40	60	104	167	-32	28	61	46	N/A	
PG: Allocation--85%+ Equity M*star OE Category			2.64%	9.60%	5.99%	12.56%	N/A	N/A	N/A	5.09%	10.28%	6.55%	11.62%	N/A	
Fund vs. Allocation--85%+ Equity M*star OE Category			5	158	146	89	N/A	N/A	N/A	88	188	164	106	N/A	
PG: Fund % Rank in Allocation--85%+ Equity M*star Category			43%	12%	11%	10%	N/A	N/A	N/A	33%	12%	12%	8%	N/A	
PG: # of funds in Allocation--85%+ Equity M*star Category			186	165	144	106	N/A	N/A	N/A	198	175	157	110	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
Fixed Income															
CREF BOND MARKET ACCOUNT	\$13,453.20	37	4.50%	2.46%	2.85%	3.95%	0.11%	2.09%	3.36%	5.34%	2.30%	2.71%	3.90%	5.71%	3/1/1990
BM: Bloomberg Barclays U.S. Aggregate Bond Index			4.48%	2.03%	2.74%	3.77%	0.03%	1.89%	2.97%	5.29%	1.90%	2.57%	3.72%	5.93%	4/24/2015
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			2	43	11	18	8	20	39	5	40	14	18	-22	
PG: Intermediate Core Bond M*star OE Category			3.98%	2.37%	2.51%	4.56%	N/A	N/A	N/A	4.82%	1.69%	2.18%	3.77%	N/A	
Fund vs. Intermediate Core Bond M*star OE Category			52	9	34	-61	N/A	N/A	N/A	52	61	53	13	N/A	
PG: Fund % Rank in Intermediate Core Bond M*star Category			22%	43%	29%	70%	N/A	N/A	N/A	16%	11%	13%	47%	N/A	
PG: # of funds in Intermediate Core Bond M*star Category			1024	901	769	564	N/A	N/A	N/A	384	339	298	219	N/A	
Fund Star Rating			N/A	***	****	**	N/A	N/A	N/A	N/A	****	****	***	N/A	
CREF INFLATION-LINKED BOND ACCOUNT	\$6,475.80	31	2.56%	1.30%	1.49%	2.96%	0.36%	1.72%	2.92%	3.08%	1.38%	1.29%	3.19%	4.78%	5/1/1997
BM: Bloomberg Barclays US TIPS 1-10 Year Index			2.72%	1.53%	1.50%	2.73%	0.43%	1.87%	3.01%	3.30%	1.59%	1.39%	2.82%	N/A	4/24/2015
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-16	-23	-1	23	-7	-15	-9	-22	-21	-10	37	N/A	
PG: Inflation-Protected Bond M*star OE Category			2.21%	1.65%	1.43%	3.01%	N/A	N/A	N/A	2.63%	1.65%	1.26%	3.19%	N/A	
Fund vs. Inflation-Protected Bond M*star OE Category			35	-35	6	-5	N/A	N/A	N/A	45	-27	3	0	N/A	
PG: Fund % Rank in Inflation-Protected Bond M*star Category			25%	73%	39%	53%	N/A	N/A	N/A	19%	73%	43%	54%	N/A	
PG: # of funds in Inflation-Protected Bond M*star Category			225	200	170	105	N/A	N/A	N/A	227	200	171	105	N/A	
Fund Star Rating			N/A	**	***	***	N/A	N/A	N/A	N/A	**	***	***	N/A	
Multi-Asset															
CREF SOCIAL CHOICE ACCOUNT ^[3]	\$14,072.50	33	4.77%	7.83%	5.80%	10.03%	2.05%	5.51%	10.95%	6.79%	8.19%	6.08%	9.52%	8.22%	3/1/1990
BM: CREF Social Choice Account Composite Benchmark			5.16%	7.86%	6.11%	10.18%	2.20%	5.69%	11.31%	7.18%	8.29%	6.45%	9.69%	8.34%	4/24/2015
Fund vs. CREF Social Choice Account Composite Benchmark			-39	-3	-31	-15	-15	-18	-36	-39	-10	-37	-17	-12	
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%	9.55%	1.93%	5.01%	10.78%	6.32%	8.29%	5.67%	9.04%	N/A	
Fund vs. Morningstar Moderate Target Risk TR USD			35	-22	40	48	12	50	17	47	-10	41	48	N/A	
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	10.16%	
Fund vs. Russell 3000 Index			-400	-565	-456	-597	-194	-371	-765	-589	-655	-512	-577	-194	
PG: Allocation--50% to 70% Equity M*star OE Category			3.90%	7.44%	5.12%	9.98%	N/A	N/A	N/A	6.02%	7.89%	5.53%	9.42%	N/A	
Fund vs. Allocation--50% to 70% Equity M*star OE Category			87	39	68	5	N/A	N/A	N/A	77	30	55	10	N/A	
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			30%	36%	33%	47%	N/A	N/A	N/A	36%	41%	36%	44%	N/A	
PG: # of funds in Allocation--50% to 70% Equity M*star Category			758	690	601	439	N/A	N/A	N/A	756	688	605	444	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 April 30, 2019
 PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

ACCOUNT	Total Portfolio Net Assets (in \$Mil.) 04/30/19	Exp. Ratio (bps)	Previous Quarter-End Returns				Current Month-End Returns								
			Avg. Annual Returns				Avg. Annual Returns								
			1 Year 04/01/18 to 03/31/19	3 Year 04/01/16 to 03/31/19	5 Year 04/01/14 to 03/31/19	10 Year 04/01/09 to 03/31/19	1 Month 04/01/19 to 04/30/19	3 Month 02/01/19 to 04/30/19	YTD 01/01/19 to 04/30/19	1 Year 05/01/18 to 04/30/19	3 Year 05/01/16 to 04/30/19	5 Year 05/01/14 to 04/30/19	10 Year 05/01/09 to 04/30/19	Since Inception to 04/30/19	Inc. Date
Money Market															
CREF MONEY MARKET ACCOUNT ^[2,4,7]	\$9,766.00	30	1.64%	0.78%	0.47%	0.23%	0.18%	0.53%	0.70%	1.74%	0.84%	0.50%	0.25%	3.15%	4/1/1988
PG: iMoneynet Money Fund AveragesTM-All Government Fund vs.iMoneynet Money Fund AveragesTM-All Government			1.67%	0.81%	0.49%	0.26%	0.17%	0.49%	0.66%	1.73%	0.87%	0.53%	0.27%	5.18%	4/24/2015
7-Day Effective Yield as of 04/30/2019: 2.18%			-3	-3	-2	-3	1	4	4	1	-3	-3	-2	-203	
7-Day Current Yield as of 04/30/2019: 2.18%															
CREF ACCOUNTS TOTALS	\$229,818.60														

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 April 30, 2019
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		
04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/30/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	to 04/30/19	Inc. Date				
U.S. Equities																
CREF EQUITY INDEX ACCOUNT	\$19,439.2	51	8.35%	12.91%	9.82%	15.49%	3.95%	9.08%	18.38%	12.25%	14.16%	10.65%	14.79%	9.50%	4/29/1994	
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	9.90%		
Fund vs. Russell 3000 Index			-42	-57	-54	-51	-4	-14	-22	-43	-58	-55	-50	-40		
PG: Large Blend M*star OE Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A		
Fund vs. Large Blend M*star OE Category			145	107	91	95	N/A	N/A	N/A	137	107	94	90	N/A		
PG: Fund % Rank in Large Blend M*star Category			44%	36%	39%	31%	N/A	N/A	N/A	46%	38%	39%	32%	N/A		
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	N/A		
Fund Star Rating			N/A	***	***	****	N/A	N/A	N/A	N/A	***	***	***	N/A		
CREF GROWTH ACCOUNT	\$27,584.5	53	11.33%	15.97%	13.02%	16.94%	4.30%	11.62%	21.87%	15.26%	18.02%	14.05%	16.39%	9.04%	4/29/1994	
BM: Russell 1000 Growth Index			12.75%	16.53%	13.50%	17.52%	4.52%	11.34%	21.35%	17.43%	18.62%	14.50%	16.96%	9.91%		
Fund vs. Russell 1000 Growth Index			-142	-56	-48	-58	-22	28	52	-217	-60	-45	-57	-87		
PG: Large Growth M*star OE Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A		
Fund vs. Large Growth M*star OE Category			62	62	176	100	N/A	N/A	N/A	49	93	159	116	N/A		
PG: Fund % Rank in Large Growth M*star OE Category			46%	39%	26%	30%	N/A	N/A	N/A	50%	38%	30%	28%	N/A		
PG: # of funds in Large Growth M*star OE Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	N/A		
Fund Star Rating			N/A	***	****	****	N/A	N/A	N/A	N/A	***	****	****	N/A		
Global Equities																
CREF GLOBAL EQUITIES ACCOUNT ^[9]	\$20,891.7	61	-0.01%	9.65%	5.85%	12.07%	3.27%	7.42%	17.15%	2.56%	10.44%	6.48%	11.30%	7.54%	5/1/1992	
BM: MSCI AC World Index			2.60%	10.67%	6.45%	11.98%	3.38%	7.48%	15.96%	5.06%	11.36%	6.96%	11.11%	N/A		
Fund vs. MSCI AC World Index			-261	-102	-60	9	-11	-6	119	-250	-92	-48	19	N/A		
BM: MSCI World Index			4.01%	10.68%	6.78%	12.38%	3.55%	8.06%	16.47%	6.48%	11.39%	7.31%	11.58%	7.53%		
Fund vs. MSCI World Index			402	-103	-93	-31	-28	-64	68	-392	-95	-83	-28	1		
PG: World Large Stock M*star OE Category			1.85%	9.96%	5.89%	11.79%	N/A	N/A	N/A	4.59%	10.83%	6.60%	11.12%	N/A		
Fund vs. World Large Stock M*star OE Category			-186	-31	-4	28	N/A	N/A	N/A	-203	-39	-12	18	N/A		
PG: Fund % Rank in World Large Stock M*star OE Category			67%	52%	50%	47%	N/A	N/A	N/A	67%	51%	51%	47%	N/A		
PG: # of funds in World Large Stock M*star OE Category			900	732	617	370	N/A	N/A	N/A	872	718	596	354	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
CREF STOCK ACCOUNT ^[6,8]	\$118,135.7	58	2.51%	10.93%	7.25%	13.34%	3.61%	7.90%	17.23%	5.78%	11.90%	7.98%	12.57%	9.79%	7/31/1952	
BM: CREF Composite Benchmark ^[1]			4.56%	11.87%	8.06%	13.89%	3.57%	8.00%	16.94%	7.51%	12.72%	8.73%	13.07%	N/A		
Fund vs. CREF Composite Benchmark			-205	-94	-81	-55	4	-10	29	-173	-82	-75	-50	N/A		
BM: Morningstar Aggressive Target Risk TR USD			3.76%	11.37%	7.03%	13.05%	3.03%	6.91%	15.64%	6.29%	11.88%	7.58%	12.22%	N/A		
Fund vs. Morningstar Aggressive Target Risk TR USD			-125	-44	22	29	58	99	159	-51	2	40	35	N/A		
PG: Allocation--85%+ Equity M*star OE Category			2.64%	9.60%	5.99%	12.56%	N/A	N/A	N/A	5.09%	10.28%	6.55%	11.62%	N/A		
Fund vs. Allocation--85%+ Equity M*star OE Category			-13	133	126	78	N/A	N/A	N/A	69	162	143	95	N/A		
PG: Fund % Rank in Allocation--85%+ Equity M*star OE Category			48%	16%	17%	10%	N/A	N/A	N/A	36%	14%	17%	8%	N/A		
PG: # of funds in Allocation--85%+ Equity M*star OE Category			186	165	144	106	N/A	N/A	N/A	198	175	157	110	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
Fixed Income																
CREF BOND MARKET ACCOUNT	\$13,453.2	58	4.31%	2.22%	2.65%	3.85%	0.10%	2.04%	3.29%	5.16%	2.06%	2.51%	3.80%	5.68%	3/1/1990	
BM: Bloomberg Barclays U.S. Aggregate Bond Index			4.48%	2.03%	2.74%	3.77%	0.03%	1.89%	2.97%	5.29%	1.90%	2.57%	3.72%	5.93%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-17	19	-9	8	7	15	32	-13	16	-6	8	-25		
PG: Intermediate Core Bond M*star OE Category			3.98%	2.37%	2.51%	4.56%	N/A	N/A	N/A	4.82%	1.69%	2.18%	3.77%	N/A		
Fund vs. Intermediate Core Bond M*star OE Category			33	-15	14	-71	N/A	N/A	N/A	34	37	33	3	N/A		
PG: Fund % Rank in Intermediate Core Bond M*star OE Category			36%	53%	44%	71%	N/A	N/A	N/A	34%	23%	28%	47%	N/A		
PG: # of funds in Intermediate Core Bond M*star OE Category			1024	901	769	564	N/A	N/A	N/A	384	339	298	219	N/A		
Fund Star Rating			N/A	***	***	**	N/A	N/A	N/A	N/A	****	****	****	N/A		
CREF INFLATION-LINKED BOND ACCOUNT	\$6,475.8	52	2.38%	1.07%	1.30%	2.86%	0.34%	1.67%	2.85%	2.90%	1.15%	1.10%	3.09%	4.73%	5/1/1997	
BM: Bloomberg Barclays US TIPS 1-10 Year Index			2.72%	1.53%	1.50%	2.73%	0.43%	1.87%	3.01%	3.30%	1.59%	1.39%	2.82%	N/A		
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-34	-46	-20	13	-9	-20	-16	-40	-44	-29	27	N/A		
PG: Inflation-Protected Bond M*star OE Category			2.21%	1.65%	1.43%	3.01%	N/A	N/A	N/A	2.63%	1.65%	1.26%	3.19%	N/A		
Fund vs. Inflation-Protected Bond M*star OE Category			17	-58	-13	-15	N/A	N/A	N/A	27	-50	-16	-10	N/A		
PG: Fund % Rank in Inflation-Protected Bond M*star OE Category			38%	87%	61%	63%	N/A	N/A	N/A	32%	87%	63%	63%	N/A		
PG: # of funds in Inflation-Protected Bond M*star OE Category			225	200	170	105	N/A	N/A	N/A	227	200	171	105	N/A		
Fund Star Rating			N/A	**	***	***	N/A	N/A	N/A	N/A	**	***	***	N/A		
Multi-Asset																
CREF SOCIAL CHOICE ACCOUNT ^[3]	\$14,072.5	54	4.58%	7.59%	5.60%	9.93%	2.03%	5.46%	10.87%	6.60%	7.94%	5.87%	9.41%	8.18%	3/1/1990	
BM: CREF Social Choice Account Composite Benchmark			5.16%	7.86%	6.11%	10.18%	2.20%	5.69%	11.31%	7.18%	8.29%	6.45%	9.69%	8.34%		
Fund vs. CREF Social Choice Account Composite Benchmark			-58	-27	-51	-25	-17	-23	-44	-58	-35	-58	-28	-16		
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%	9.55%	1.93%	5.01%	10.78%	6.32%	8.29%	5.67%	9.04%	N/A		
Fund vs. Morningstar Moderate Target Risk TR USD			16	-46	20	38	10	45	9	28	-35	20	37	N/A		
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	10.16%		
Fund vs. Russell 3000 Index			-419	-589	-476	-607	-196	-376	-773	-608	-680	-533	-588	-198		
PG: Allocation--50% to 70% Equity M*star OE Category			3.90%	7.44%	5.12%	9.98%	N/A	N/A	N/A	6.02%	7.89%	5.53%	9.42%	N/A		
Fund vs. Allocation--50% to 70% Equity M*star OE Category			68	15	48	-5	N/A	N/A	N/A	58	5	34	-1	N/A		
PG: Fund % Rank in Allocation--50% to 70% Equity M*star OE Category			31%	45%	40%	50%	N/A	N/A	N/A	38%	50%	43%	49%	N/A		
PG: # of funds in Allocation--50% to 70% Equity M*star OE Category			758	690	601	439	N/A	N/A	N/A	756	688	605	444	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 April 30, 2019
 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			
04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inception to 04/30/19						
Money Market																	
CREF MONEY MARKET ACCOUNT ^[2,4,7]	\$9,766.0	51	1.24%	0.55%	0.33%	0.17%	0.12%	0.36%	0.48%	1.30%	0.59%	0.35%	0.17%	3.12%	4/1/1988		
PG: iMoneyNet Money Fund Averages TM -All Government			1.67%	0.81%	0.49%	0.26%	0.17%	0.49%	0.66%	1.73%	0.87%	0.53%	0.27%	5.18%			
Fund vs. iMoneyNet Money Fund Averages TM -All Government			-43	-26	-16	-9	-5	-13	-18	-43	-28	-18	-10	-206			
7-Day Effective Yield as of 04/30/2019: 1.48%																	
7-Day Current Yield as of 04/30/2019: 1.48%																	
CREF ACCOUNTS TOTALS	\$229,818.6																

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 April 30, 2019
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. Date	
04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	04/30/19	04/30/19				
TIAA TRADITIONAL ANNUITY-GROUP RETIREMENT ANNUITY ^(1,2,3)	\$258,977.27		3.87%	3.91%	3.94%	4.01%	0.30%	0.91%	1.24%	3.86%	3.90%	3.93%	4.01%	N/A	1918	
TIAA TRADITIONAL ANNUITY-GROUP SUPPLEMENTAL RETIREMENT ANNUITY ^(1,2,3)			3.16%	3.22%	3.25%	3.30%	0.25%	0.75%	1.02%	3.16%	3.21%	3.25%	3.30%	N/A	10/1/1973	
TIAA TRADITIONAL ANNUITY-IRA (ISSUED ON OR AFTER 10/11/2010) ^(1,2,3)			1.66%	1.34%	1.20%	N/A	0.12%	0.38%	0.52%	1.64%	1.35%	1.21%	N/A	1.15%	10/11/2010	
TIAA TRADITIONAL ANNUITY-IRA (ISSUED PRIOR TO 10/11/2010) ^(1,2,3,4)			3.00%	3.00%	3.00%	3.07%	0.24%	0.72%	0.98%	3.00%	3.00%	3.00%	3.07%	N/A	5/1/1997	
TIAA TRADITIONAL ANNUITY-KEOGH ^(1,2,3)			3.00%	3.00%	3.00%	3.07%	0.24%	0.72%	0.98%	3.00%	3.00%	3.00%	3.07%	N/A	4/1/1988	
TIAA TRADITIONAL ANNUITY-RETIREMENT ANNUITY ^(1,2,3)			3.87%	3.91%	3.94%	4.01%	0.30%	0.91%	1.24%	3.86%	3.90%	3.93%	4.01%	N/A	1918	
TIAA TRADITIONAL ANNUITY-RETIREMENT CHOICE ^(1,2,3)			4.13%	4.17%	4.25%	4.26%	0.32%	0.97%	1.32%	4.12%	4.16%	4.24%	4.26%	4.46%	8/1/2005	
TIAA TRADITIONAL ANNUITY-RETIREMENT CHOICE PLUS ^(1,2,3)			3.38%	3.42%	3.47%	3.47%	0.26%	0.79%	1.08%	3.37%	3.41%	3.47%	3.47%	3.70%	6/1/2006	
TIAA TRADITIONAL ANNUITY-SUPPLEMENTAL RETIREMENT ANNUITY ^(1,2,3)			3.16%	3.22%	3.25%	3.30%	0.25%	0.75%	1.02%	3.16%	3.21%	3.25%	3.30%	N/A	10/1/1973	
TIAA REAL ESTATE ACCOUNT (QREARX)	\$26,451.20	79	5.58%	4.73%	6.78%	5.65%	0.41%	1.22%	2.14%	5.58%	4.78%	6.67%	6.10%	6.29%	10/2/1995	
TIAA ANNUITY TOTALS	\$285,428.47															

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 March 31, 2019. 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 April 01, 2019 are as follows: TIAA Traditional Annuity - RC (4.00%); TIAA Traditional Annuity - RA, GRA and GA (3.75%); TIAA Traditional Annuity - SRA, GSRA, GSA and SSRA (3.00%); TIAA Traditional Annuity - RCP (3.25%). Funds applied to the TIAA Traditional Annuity during April 2019 will be credited with the indicated rates through February 29, 2020. Funds transferred to TIAA Traditional Annuity during April 2019 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 29, 2020.

[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 April 30, 2019
 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									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.	
04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/18 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	04/30/19 to 04/30/19	7/1/1999 to 04/30/19	Date			
U.S. Equities																
TIAA-CREF EQUITY INDEX FUND (TIEIX)	\$20,736.20	5	8.78%	13.47%	10.34%	15.96%	3.95%	9.16%	18.52%	12.61%	14.72%	11.16%	15.25%	6.25%	7/1/1999	
Gross Expense Ratio		5														
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	6.32%		
Fund vs. Russell 3000 Index			1	-1	-2	-4	-4	-6	-8	-7	-2	-4	-4	-7		
PG: Large Blend M*star Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A		
Fund vs. Large Blend M*star Category			188	163	143	142	N/A	N/A	N/A	173	163	145	136	N/A		
PG: Fund % Rank in Large Blend M*star Category			37%	17%	27%	12%	N/A	N/A	N/A	40%	21%	25%	12%	N/A		
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF GROWTH & INCOME FUND (TIGRX)	\$6,871.30	40	5.88%	13.35%	10.27%	15.30%	4.11%	10.04%	19.48%	9.85%	14.61%	11.31%	14.81%	6.50%	7/1/1999	
Gross Expense Ratio		40														
BM: S&P 500 Index			9.50%	13.51%	10.91%	15.92%	4.05%	9.48%	18.25%	13.49%	14.87%	11.63%	15.32%	5.91%		
Fund vs. S&P 500 Index			-362	-16	-64	-62	6	56	123	-364	-26	-32	-51	59		
PG: Large Growth M*star Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A		
Fund vs. Large Growth M*star Category			-483	-200	-99	-64	N/A	N/A	N/A	-492	-248	-115	-42	N/A		
PG: Fund % Rank in Large Growth M*star Category			89%	72%	67%	66%	N/A	N/A	N/A	88%	78%	69%	63%	N/A		
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	N/A		
Fund Star Rating			N/A	**	***	***	N/A	N/A	N/A	N/A	**	***	***	N/A		
TIAA-CREF LARGE-CAP GROWTH FUND (TILGX)	\$5,731.90	41	13.38%	17.69%	14.22%	17.48%	3.75%	12.20%	22.03%	16.33%	19.41%	15.28%	16.89%	10.46%	3/31/2006	
Gross Expense Ratio		41														
BM: Russell 1000 Growth Index			12.75%	16.53%	13.50%	17.52%	4.52%	11.34%	21.35%	17.43%	18.62%	14.50%	16.96%	10.44%		
Fund vs. Russell 1000 Growth Index			63	116	72	-4	-77	86	68	-110	79	78	-7	2		
PG: Large Growth M*star Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A		
Fund vs. Large Growth M*star Category			267	234	296	154	N/A	N/A	N/A	156	232	282	166	N/A		
PG: Fund % Rank in Large Growth M*star Category			22%	22%	12%	19%	N/A	N/A	N/A	37%	24%	15%	17%	N/A		
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	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)	\$7,097.30	5	12.70%	16.46%	13.44%	17.44%	4.51%	11.31%	21.33%	17.37%	18.55%	14.44%	16.88%	10.92%	10/1/2002	
Gross Expense Ratio		5														
BM: Russell 1000 Growth Index			12.75%	16.53%	13.50%	17.52%	4.52%	11.34%	21.35%	17.43%	18.62%	14.50%	16.96%	11.02%		
Fund vs. Russell 1000 Growth Index			-5	-7	-6	-8	-1	-3	-2	-6	-7	-6	-8	-10		
PG: Large Growth M*star Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A		
Fund vs. Large Growth M*star Category			199	111	218	150	N/A	N/A	N/A	260	146	198	165	N/A		
PG: Fund % Rank in Large Growth M*star Category			29%	33%	20%	19%	N/A	N/A	N/A	25%	32%	24%	17%	N/A		
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LARGE-CAP VALUE FUND (TRLIX)	\$6,219.00	40	-1.26%	8.37%	5.64%	13.65%	4.16%	7.86%	16.59%	2.46%	8.97%	6.38%	12.60%	9.15%	10/1/2002	
Gross Expense Ratio		40														
BM: Russell 1000 Value Index			5.67%	10.45%	7.72%	14.52%	3.55%	7.54%	15.90%	9.06%	10.97%	8.27%	13.76%	9.35%		
Fund vs. Russell 1000 Value Index			-693	-208	-208	-87	61	32	69	-660	-200	-189	-116	-20		
PG: Large Value M*star Category			4.48%	10.01%	7.20%	13.68%	N/A	N/A	N/A	7.41%	10.78%	7.75%	12.88%	N/A		
Fund vs. Large Value M*star Category			-574	-164	-156	-3	N/A	N/A	N/A	-495	-181	-137	-28	N/A		
PG: Fund % Rank in Large Value M*star Category			93%	84%	86%	50%	N/A	N/A	N/A	90%	86%	85%	61%	N/A		
PG: # of funds in Large Value M*star Category			1229	1096	939	691	N/A	N/A	N/A	1259	1114	958	699	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)	\$6,442.10	5	5.62%	10.38%	7.67%	14.43%	3.53%	7.49%	15.86%	9.01%	10.89%	8.21%	13.68%	9.27%	10/1/2002	
Gross Expense Ratio		5														
BM: Russell 1000 Value Index			5.67%	10.45%	7.72%	14.52%	3.55%	7.54%	15.90%	9.06%	10.97%	8.27%	13.76%	9.35%		
Fund vs. Russell 1000 Value Index			-5	-7	-5	-9	-2	-5	-4	-5	-8	-6	-8	-8		
PG: Large Value M*star Category			4.48%	10.01%	7.20%	13.68%	N/A	N/A	N/A	7.41%	10.78%	7.75%	12.88%	N/A		
Fund vs. Large Value M*star Category			114	37	47	75	N/A	N/A	N/A	160	11	46	80	N/A		
PG: Fund % Rank in Large Value M*star Category			38%	45%	39%	30%	N/A	N/A	N/A	35%	49%	41%	31%	N/A		
PG: # of funds in Large Value M*star Category			1229	1096	939	691	N/A	N/A	N/A	1259	1114	958	699	N/A		
Fund Star Rating			N/A	***	***	****	N/A	N/A	N/A	N/A	***	***	****	N/A		
TIAA-CREF MID-CAP GROWTH FUND (TRPWX)	\$1,551.10	47	9.96%	14.42%	8.75%	16.46%	4.38%	12.81%	27.26%	15.07%	15.96%	10.50%	15.48%	11.78%	10/1/2002	
Gross Expense Ratio		47														
BM: Russell Mid Cap Growth Index			11.51%	15.06%	10.89%	17.60%	4.50%	12.12%	25.00%	17.64%	16.78%	12.20%	16.56%	12.37%		
Fund vs. Russell Mid Cap Growth Index			-155	-64	-214	-114	-12	69	226	-257	-82	-170	-108	-59		
PG: Mid-Cap Growth M*star Category			8.04%	14.18%	8.99%	15.70%	N/A	N/A	N/A	13.49%	15.65%	10.59%	14.80%	N/A		
Fund vs. Mid-Cap Growth M*star Category			192	24	-24	76	N/A	N/A	N/A	158	31	-9	68	N/A		
PG: Fund % Rank in Mid-Cap Growth M*star Category			37%	47%	60%	34%	N/A	N/A	N/A	40%	44%	55%	40%	N/A		
PG: # of funds in Mid-Cap Growth M*star Category			615	555	495	352	N/A	N/A	N/A	611	549	488	351	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF MID-CAP VALUE FUND (TIMVX)	\$3,299.90	42	-0.40%	7.89%	5.67%	14.28%	3.71%	6.36%	18.94%	2.42%	8.79%	6.47%	13.18%	11.18%	10/1/2002	
Gross Expense Ratio		42														
BM: Russell Mid Cap Value Index			2.89%	9.50%	7.22%	16.39%	3.30%	7.12%	18.14%	5.76%	9.91%	7.83%	14.98%	11.29%		
Fund vs. Russell Mid Cap Value Index			-329	-161	-155	-211	41	-76	80	-334	-112	-136	-180	-11		
PG: Mid-Cap Value M*star Category			0.66%	8.55%	5.87%	14.46%	N/A	N/A	N/A	3.65%	9.33%	6.75%	13.25%	N/A		
Fund vs. Mid-Cap Value M*star Category			-106	-66	-20	-18	N/A	N/A	N/A	-123	-54	-28	-7	N/A		
PG: Fund % Rank in Mid-Cap Value M*star Category			58%	70%	58%	60%	N/A	N/A	N/A	63%	69%	59%	60%	N/A		
PG: # of funds in Mid-Cap Value M*star Category			417	368	318	225	N/A	N/A	N/A	405	357	313	216	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
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FOR PERIOD ENDING April 30, 2019
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.			
					04/01/18	04/01/16	04/01/14	04/01/09	04/01/19	02/01/19	01/01/19	05/01/18	05/01/16	05/01/14	05/01/09	04/30/19	04/30/19	Date
TIAA-CREF QUANT LARGE-CAP GROWTH FUND (TLIX) ^[3]	\$2,837.10	32	9.56%	15.43%	13.03%	16.73%	4.73%	10.53%	20.33%	14.50%	17.63%	14.14%	16.29%	9.89%	11/30/2007			
Gross Expense Ratio 32																		
BM: Russell 1000 Growth Index																		
Fund vs. Russell 1000 Growth Index																		
PG: Large Growth M*star Category																		
Fund vs. Large Growth M*star Category																		
PG: Fund % Rank in Large Growth M*star Category																		
PG: # of funds in Large Growth M*star Category																		
Fund Star Rating																		
TIAA-CREF QUANT LARGE-CAP VALUE FUND (TEVIX) ^[4]	\$2,652.10	32	2.92%	9.19%	6.54%	13.47%	3.35%	6.16%	14.53%	6.16%	9.84%	7.25%	12.70%	5.91%	11/30/2007			
Gross Expense Ratio 32																		
BM: Russell 1000 Value Index																		
Fund vs. Russell 1000 Value Index																		
PG: Large Value M*star Category																		
Fund vs. Large Value M*star Category																		
PG: Fund % Rank in Large Value M*star Category																		
PG: # of funds in Large Value M*star Category																		
Fund Star Rating																		
TIAA-CREF QUANT SMALL-CAP EQUITY FUND (TISEX) ^[5]	\$3,168.20	41	2.15%	12.82%	8.08%	15.91%	3.26%	6.54%	19.01%	5.93%	13.91%	9.48%	14.67%	10.86%	10/1/2002			
Gross Expense Ratio 41																		
BM: Russell 2000 Index																		
Fund vs. Russell 2000 Index																		
PG: Small Growth M*star Category																		
Fund vs. Small Growth M*star Category																		
PG: Fund % Rank in Small Growth M*star Category																		
PG: # of funds in Small Growth M*star Category																		
Fund Star Rating																		
TIAA-CREF QUANT SMALL/MID-CAP EQUITY (TSMWX) ^[6,4]	\$705.40	50	7.86%	N/A	N/A	N/A	3.68%	8.31%	21.08%	10.91%	N/A	N/A	N/A	14.33%	8/5/2016			
Gross Expense Ratio 50																		
BM: Russell 2500 Index																		
Fund vs. Russell 2500 Index																		
PG: Small Blend M*star Category																		
Fund vs. Small Blend M*star Category																		
PG: Fund % Rank in Small Blend M*star Category																		
PG: # of funds in Small Blend M*star Category																		
Fund Star Rating																		
TIAA-CREF REAL ESTATE SECURITIES FUND (TIREX)	\$2,383.00	51	18.91%	8.15%	10.37%	18.76%	0.59%	6.21%	17.98%	18.80%	9.19%	9.91%	15.74%	10.65%	10/1/2002			
Gross Expense Ratio 51																		
BM: FTSE Nareit All Equity REITs Index																		
Fund vs. FTSE Nareit All Equity REITs Index																		
PG: Real Estate M*star Category																		
Fund vs. Real Estate M*star Category																		
PG: Fund % Rank in Real Estate M*star Category																		
PG: # of funds in Real Estate M*star Category																		
Fund Star Rating																		
TIAA-CREF S&P 500 INDEX FUND (TISPX)	\$5,187.90	5	9.45%	13.44%	10.84%	15.83%	4.06%	9.45%	18.24%	13.43%	14.80%	11.57%	15.24%	9.94%	10/1/2002			
Gross Expense Ratio 5																		
BM: S&P 500 Index																		
Fund vs. S&P 500 Index																		
PG: Large Blend M*star Category																		
Fund vs. Large Blend M*star Category																		
PG: Fund % Rank in Large Blend M*star Category																		
PG: # of funds in Large Blend M*star Category																		
Fund Star Rating																		
TIAA-CREF SMALL-CAP BLEND INDEX FUND (TISBX)	\$2,991.30	6	2.18%	13.09%	7.27%	15.50%	3.40%	6.49%	18.44%	4.72%	13.75%	8.84%	14.23%	10.76%	10/1/2002			
Gross Expense Ratio 6																		
BM: Russell 2000 Index																		
Fund vs. Russell 2000 Index																		
PG: Small Blend M*star Category																		
Fund vs. Small Blend M*star Category																		
PG: Fund % Rank in Small Blend M*star Category																		
PG: # of funds in Small Blend M*star Category																		
Fund Star Rating																		
TIAA-CREF SOCIAL CHOICE EQUITY FUND (TISCX)	\$4,405.90	17	7.87%	13.27%	9.52%	15.43%	3.39%	8.51%	17.81%	11.30%	14.17%	10.19%	14.59%	6.01%	7/1/1999			
Gross Expense Ratio 17																		
BM: Russell 3000 Index																		
Fund vs. Russell 3000 Index																		
PG: Large Blend M*star Category																		
Fund vs. Large Blend M*star Category																		
PG: Fund % Rank in Large Blend M*star Category																		
PG: # of funds in Large Blend M*star Category																		
Fund Star Rating																		
TIAA-CREF SOCIAL CHOICE LOW CARBON EQUITY FUND (TNWCX)	\$185.00	32	7.33%	12.93%	N/A	N/A	3.21%	8.03%	17.24%	10.60%	13.74%	N/A	N/A	11.07%	8/7/2015			
Gross Expense Ratio 53																		
BM: Russell 3000 Index																		
Fund vs. Russell 3000 Index																		
PG: Large Blend M*star Category																		
Fund vs. Large Blend M*star Category																		
PG: Fund % Rank in Large Blend M*star Category																		
PG: # of funds in Large Blend M*star Category																		
Fund Star Rating																		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
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FOR PERIOD ENDING April 30, 2019
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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	
			04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19			
International Equities																
TIAA-CREF EMERGING MARKETS EQUITY FUND (TEMLX)	\$1,708.40	91	-8.56%	12.55%	3.41%	N/A	2.04%	3.23%	16.75%	-5.00%	13.05%	3.87%	N/A	3.37%	8/31/2010	
Gross Expense Ratio 91																
BM: MS Emerging Market																
Fund vs. MS Emerging Market -7.41% 10.68% 3.68% 2.11% 3.19% 12.23% -5.04% 11.25% 4.04% 3.65%																
PG: Diversified Emerging Mkts M*star Category																
Fund vs. Diversified Emerging Mkts M*star Category -115 187 -27 -7 4 452 4 180 -17 -28																
PG: Fund % Rank in Diversified Emerging Mkts M*star Category -9.31% 9.11% 2.61% N/A N/A N/A -5.91% 9.36% 2.88% N/A																
Fund Star Rating 75 344 80 N/A N/A N/A 91 369 99 N/A																
PG: # of funds in Diversified Emerging Mkts M*star Category 47% 10% 40% N/A N/A N/A 42% 9% 35% N/A																
Fund Star Rating 833 707 553 N/A N/A N/A 834 712 553 N/A																
Fund Star Rating N/A **** ** N/A N/A N/A N/A **** ** N/A																
TIAA-CREF EMERGING MARKETS EQUITY INDEX FUND (TEQLX)	\$2,385.80	20	-8.17%	10.64%	3.61%	N/A	2.18%	2.83%	12.49%	-4.62%	11.22%	3.97%	N/A	3.33%	8/31/2010	
Gross Expense Ratio 20																
BM: MS Emerging Market																
Fund vs. MS Emerging Market -7.41% 10.68% 3.68% 2.11% 3.19% 12.23% -5.04% 11.25% 4.04% 3.65%																
PG: Diversified Emerging Mkts M*star Category																
Fund vs. Diversified Emerging Mkts M*star Category -76 -4 -7 7 -36 26 4 -3 -7 -32																
PG: Fund % Rank in Diversified Emerging Mkts M*star Category -9.31% 9.11% 2.61% N/A N/A N/A -5.91% 9.36% 2.88% N/A																
Fund Star Rating 114 153 100 N/A N/A N/A 129 186 109 N/A																
PG: # of funds in Diversified Emerging Mkts M*star Category 40% 30% 32% N/A N/A N/A 38% 27% 32% N/A																
Fund Star Rating 833 707 553 N/A N/A N/A 834 712 553 N/A																
Fund Star Rating N/A **** ** N/A N/A N/A N/A **** ** N/A																
TIAA-CREF INTERNATIONAL EQUITY FUND (TIEIX)	\$4,860.80	48	-14.89%	4.23%	-0.17%	9.06%	4.52%	5.95%	14.78%	-12.31%	4.86%	1.04%	8.13%	4.52%	7/1/1999	
Gross Expense Ratio 48																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index -3.71% 7.27% 2.33% 8.96% 2.81% 6.10% 13.07% -3.22% 7.24% 2.60% 7.95% 4.00%																
PG: Foreign Large Blend M*star Category																
Fund vs. Foreign Large Blend M*star Category -1118 -304 -250 10 171 -15 171 -909 -238 -156 18 52																
PG: Fund % Rank in Foreign Large Blend M*star Category -5.01% 6.62% 2.10% 8.43% N/A N/A N/A -3.71% 7.00% 2.52% 7.56% N/A																
Fund Star Rating -988 -239 -227 63 N/A N/A N/A -860 -214 -148 57 N/A																
PG: # of funds in Foreign Large Blend M*star Category 99% 91% 94% 29% N/A N/A N/A 100% 90% 88% 30% N/A																
Fund Star Rating 753 644 514 384 N/A N/A N/A 730 618 496 365 N/A																
Fund Star Rating N/A * * * ** N/A N/A N/A N/A * * * ** N/A																
TIAA-CREF INTERNATIONAL EQUITY INDEX FUND (TCIEIX)	\$11,725.70	6	-3.82%	7.58%	2.49%	9.08%	3.01%	6.37%	13.35%	-2.44%	7.82%	2.77%	8.17%	7.61%	10/1/2002	
Gross Expense Ratio 6																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index -3.71% 7.27% 2.33% 8.96% 2.81% 6.10% 13.07% -3.22% 7.24% 2.60% 7.95% 7.54%																
PG: Foreign Large Blend M*star Category																
Fund vs. Foreign Large Blend M*star Category -11 31 16 12 20 27 28 78 58 17 22 7																
PG: Fund % Rank in Foreign Large Blend M*star Category -5.01% 6.62% 2.10% 8.43% N/A N/A N/A -3.71% 7.00% 2.52% 7.56% N/A																
Fund Star Rating 119 96 39 65 N/A N/A N/A 127 82 25 61 N/A																
PG: # of funds in Foreign Large Blend M*star Category 28% 23% 35% 28% N/A N/A N/A 26% 27% 38% 29% N/A																
Fund Star Rating 753 644 514 384 N/A N/A N/A 730 618 496 365 N/A																
Fund Star Rating N/A **** **** N/A N/A N/A N/A **** ** **** N/A																
TIAA-CREF INTERNATIONAL OPPORTUNITIES FUND (TIOIX)	\$1,769.70	62	-5.55%	9.65%	3.80%	N/A	4.21%	8.15%	20.35%	-0.99%	10.47%	5.04%	N/A	5.74%	4/12/2013	
Gross Expense Ratio 62																
BM: MSCI AC World Index ex USA																
Fund vs. MSCI AC World Index ex USA -4.22% 8.09% 2.57% 2.64% 5.27% 13.22% -3.23% 8.09% 2.83% 4.33%																
PG: Foreign Large Growth M*star Category																
Fund vs. Foreign Large Growth M*star Category -133 156 123 157 288 713 224 238 221 141																
PG: Fund % Rank in Foreign Large Growth M*star Category -3.20% 8.05% 3.86% N/A N/A N/A -0.11% 8.75% 4.44% N/A																
Fund Star Rating -235 160 -6 N/A N/A N/A -88 172 60 N/A																
PG: # of funds in Foreign Large Growth M*star Category 75% 25% 47% N/A N/A N/A 58% 24% 32% N/A																
Fund Star Rating 442 373 314 N/A N/A N/A 470 401 341 N/A																
Fund Star Rating N/A ** ** ** N/A N/A N/A N/A ** ** ** N/A																
TIAA-CREF QUANT INTERNATIONAL EQUITY FUND (TFIX) ^[17]	\$1,886.00	40	-5.82%	6.53%	2.03%	9.20%	2.54%	5.52%	13.79%	-4.60%	6.75%	2.27%	8.23%	1.21%	11/30/2007	
Gross Expense Ratio 40																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index -3.71% 7.27% 2.33% 8.96% 2.81% 6.10% 13.07% -3.22% 7.24% 2.60% 7.95% 1.27%																
PG: Foreign Large Blend M*star Category																
Fund vs. Foreign Large Blend M*star Category -211 -74 -30 24 -27 -58 72 -138 -49 -33 28 -6																
PG: Fund % Rank in Foreign Large Blend M*star Category -5.01% 6.62% 2.10% 8.43% N/A N/A N/A -3.71% 7.00% 2.52% 7.56% N/A																
Fund Star Rating -81 -9 -7 77 N/A N/A N/A -89 -25 -25 67 N/A																
PG: # of funds in Foreign Large Blend M*star Category 63% 59% 54% 25% N/A N/A N/A 67% 60% 60% 28% N/A																
Fund Star Rating 753 644 514 384 N/A N/A N/A 730 618 496 365 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 (TISX) ^[84]	\$952.50	71	-14.42%	N/A	N/A	N/A	1.31%	1.10%	11.37%	-13.37%	N/A	N/A	N/A	5.74%	12/9/2016	
Gross Expense Ratio 71																
BM: MSCI ACWI ex-US Small Cap Index																
Fund vs. MSCI ACWI ex-US Small Cap Index -9.49% 2.21% 4.51% 12.70% -8.54% 8.72%																
PG: Foreign Small/Mid Value M*star Category																
Fund vs. Foreign Small/Mid Value M*star Category -493 -341 -133 -483 -298																
PG: Fund % Rank in Foreign Small/Mid Value M*star Category -10.92% N/A N/A N/A -10.13% N/A																
Fund Star Rating -350 N/A N/A N/A -324 N/A																
PG: # of funds in Foreign Small/Mid Value M*star Category 77% N/A N/A N/A 74% N/A																
Fund Star Rating 56 N/A N/A N/A 45 N/A																
Fund Star Rating N/A N/A N/A N/A N/A																
TIAA-CREF SOCIAL CHOICE INTERNATIONAL EQUITY FUND (TSONX)	\$149.20	40	-4.56%	6.92%	N/A	N/A	3.58%	6.57%	13.47%	-2.63%	7.40%	N/A	N/A	3.96%	8/7/2015	
Gross Expense Ratio 98																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index -3.71% 7.27% 2.81% 6.10% 13.07% -3.22% 7.24% 3.57%																
PG: Foreign Large Blend M*star Category																
Fund vs. Foreign Large Blend M*star Category -85 -35 40 59 16 39																
PG: Fund % Rank in Foreign Large Blend M*star Category -5.01% 6.62% N/A N/A N/A -3.71% 7.00% N/A																
Fund Star Rating 45 30 N/A N/A N/A 108 40 N/A																
PG: # of funds in Foreign Large Blend M*star Category 44% 46% N/A N/A N/A 29% 42% N/A																
Fund Star Rating 753 644 N/A N/A N/A 730 618 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					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.
	04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	04/30/19 to 04/30/19			
Fixed Income															
TIAA-CREF 5-15 YEAR LADDERED TAX-EXEMPT BOND FUND (TITIX)^[9]	\$270.20	30	5.64%	2.47%	3.24%	4.17%	0.22%	2.31%	3.33%	6.27%	2.29%	3.02%	3.98%	3.95%	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)	\$6,233.70	30	4.38%	2.83%	3.22%	4.42%	0.17%	2.21%	3.61%	5.32%	2.60%	3.07%	4.38%	5.01%	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 Core-Plus Bond M*star Category															
Fund vs. Intermediate Core-Plus Bond M*star Category															
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category															
PG: # of funds in Intermediate Core-Plus Bond M*star Category															
Fund Star Rating															
TIAA-CREF BOND INDEX FUND (TBIIX)	\$14,248.50	12	4.55%	1.84%	2.64%	N/A	-0.05%	1.84%	2.86%	5.26%	1.70%	2.46%	N/A	3.21%	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 Core Bond M*star Category															
Fund vs. Intermediate Core Bond M*star Category															
PG: Fund % Rank in Intermediate Core Bond M*star Category															
PG: # of funds in Intermediate Core Bond M*star Category															
Fund Star Rating															
TIAA-CREF BOND PLUS FUND (TIBFX)	\$4,310.50	30	4.56%	3.21%	3.36%	5.20%	0.18%	2.13%	3.74%	5.39%	2.95%	3.24%	5.10%	4.54%	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 Core-Plus Bond M*star Category															
Fund vs. Intermediate Core-Plus Bond M*star Category															
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category															
PG: # of funds in Intermediate Core-Plus Bond M*star Category															
Fund Star Rating															
TIAA-CREF EMERGING MARKETS DEBT FUND (TEDNX)	\$504.70	65	1.49%	7.48%	N/A	N/A	0.72%	3.01%	8.00%	3.57%	6.84%	N/A	N/A	4.93%	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 GREEN BOND (TGRNX)	\$27.10	45	N/A	N/A	N/A	N/A	0.38%	2.64%	3.63%	N/A	N/A	N/A	N/A	5.11%	11/16/2018
Gross Expense Ratio 105															
BM: Bloomberg Barclays MSCI US Green Bond Index															
Fund vs. Bloomberg Barclays MSCI US Green Bond Index															
PG: Intermediate Core-Plus Bond M*star Category															
Fund vs. Intermediate Core-Plus Bond M*star Category															
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category															
PG: # of funds in Intermediate Core-Plus Bond M*star Category															
Fund Star Rating															
TIAA-CREF HIGH YIELD BOND FUND (TIHYX)	\$3,985.40	36	6.58%	8.06%	4.42%	9.85%	1.73%	4.60%	10.13%	7.82%	7.39%	4.67%	9.09%	6.98%	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)	\$3,070.00	26	2.67%	1.34%	1.46%	3.03%	0.35%	1.71%	3.00%	3.13%	1.40%	1.27%	3.25%	3.87%	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															

INVESTMENT PERFORMANCE SUMMARY
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	
			04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inc. Date	
TIAA-CREF INTERNATIONAL BOND FUND (TIBWX)^[4]	\$388.70	65	3.44%	N/A	N/A	N/A	0.30%	2.26%	4.18%	4.27%	N/A	N/A	N/A	2.57%	8/5/2016
Gross Expense Ratio															
BM: Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			5.23%				0.04%								
Fund vs. Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			-179				26								
PG: World Bond-USD Hedged M*star Category			0.22%				N/A								
Fund vs. World Bond-USD Hedged M*star Category			322				N/A								
PG: Fund % Rank in World Bond-USD Hedged M*star Category			31%				N/A								
PG: # of funds in World Bond-USD Hedged M*star Category			308				N/A								
Fund Star Rating			N/A				N/A								
TIAA-CREF SHORT DURATION IMPACT BOND (TSDJX)	\$27.10	35	N/A	N/A	N/A	N/A	0.45%	1.60%	2.17%	N/A	N/A	N/A	N/A	2.45%	11/16/2018
Gross Expense Ratio															
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			5.23%				0.23%								
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-179				22								
PG: Short-Term Bond M*star Category			0.22%				N/A								
Fund vs. Short-Term Bond M*star Category			322				N/A								
PG: Fund % Rank in Short-Term Bond M*star Category			31%				N/A								
PG: # of funds in Short-Term Bond M*star Category			308				N/A								
Fund Star Rating			N/A				N/A								
TIAA-CREF SHORT-TERM BOND FUND (TISIX)	\$1,964.50	27	2.99%	1.99%	1.66%	2.58%	0.33%	1.20%	1.81%	3.43%	1.98%	1.69%	2.54%	2.90%	3/31/2006
Gross Expense Ratio															
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			3.03%				0.23%								
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-4				10								
PG: Short-Term Bond M*star Category			2.97%				N/A								
Fund vs. Short-Term Bond M*star Category			2				N/A								
PG: Fund % Rank in Short-Term Bond M*star Category			54%				N/A								
PG: # of funds in Short-Term Bond M*star Category			531				N/A								
Fund Star Rating			N/A				N/A								
TIAA-CREF SHORT-TERM BOND INDEX FUND (TNSHX)	\$508.70	12	2.92%	1.15%	N/A	N/A	0.20%	1.00%	1.40%	3.28%	1.19%	N/A	N/A	1.20%	8/7/2015
Gross Expense Ratio															
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			3.03%				0.23%								
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-11				-3								
PG: Short-Term Bond M*star Category			2.97%				N/A								
Fund vs. Short-Term Bond M*star Category			-5				N/A								
PG: Fund % Rank in Short-Term Bond M*star Category			61%				N/A								
PG: # of funds in Short-Term Bond M*star Category			531				N/A								
Fund Star Rating			N/A				N/A								
TIAA-CREF SOCIAL CHOICE BOND FUND (TSBIX)	\$3,390.60	39	4.47%	2.77%	3.60%	N/A	0.15%	2.27%	3.15%	5.31%	2.65%	3.42%	N/A	3.16%	9/21/2012
Gross Expense Ratio															
BM: Bloomberg Barclays U.S. Aggregate Bond Index			4.48%				0.03%								
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-1				12								
PG: Intermediate Core-Plus Bond M*star Category			3.98%				N/A								
Fund vs. Intermediate Core-Plus Bond M*star Category			49				N/A								
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category			24%				N/A								
PG: # of funds in Intermediate Core-Plus Bond M*star Category			1024				N/A								
Fund Star Rating			N/A				N/A								
Multi-Asset															
TIAA-CREF LIFECYCLE 2010 FUND (TCTIX)^[7,8]	\$1,210.20	37	3.15%	6.68%	4.97%	8.87%	1.61%	4.23%	8.62%	4.91%	6.89%	5.27%	8.40%	5.81%	10/15/2004
Gross Expense Ratio															
BM: Lifecycle 2010 Fund Composite Index			4.50%				1.55%								
Fund vs. Lifecycle 2010 Fund Composite Index			-135				6								
BM: S&P Target Date 2010 Index			3.81%				1.40%								
Fund vs. S&P Target Date 2010 Index			-66				21								
PG: Target-Date 2000-2010 M*star Category			3.36%				N/A								
Fund vs. Target-Date 2000-2010 M*star Category			-21				N/A								
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			58%				N/A								
PG: # of funds in Target-Date 2000-2010 M*star Category			138				N/A								
Fund Star Rating			N/A				N/A								
TIAA-CREF LIFECYCLE 2015 FUND (TCNIX)^[7,8]	\$1,869.00	38	3.04%	7.18%	5.26%	9.56%	1.69%	4.44%	9.29%	4.88%	7.40%	5.59%	8.98%	6.03%	10/15/2004
Gross Expense Ratio															
BM: Lifecycle 2015 Fund Composite Index			4.57%				1.71%								
Fund vs. Lifecycle 2015 Fund Composite Index			-153				-2								
BM: S&P Target Date 2015 Index			3.90%				1.59%								
Fund vs. S&P Target Date 2015 Index			-86				10								
PG: Target-Date 2015 M*star Category			3.48%				N/A								
Fund vs. Target-Date 2015 M*star Category			-44				N/A								
PG: Fund % Rank in Target-Date 2015 M*star Category			64%				N/A								
PG: # of funds in Target-Date 2015 M*star Category			139				N/A								
Fund Star Rating			N/A				N/A								
TIAA-CREF LIFECYCLE 2020 FUND (TCWIX)^[7,9]	\$3,848.00	39	3.07%	7.87%	5.64%	10.35%	1.84%	4.83%	10.28%	4.96%	8.15%	6.02%	9.69%	6.24%	10/15/2004
Gross Expense Ratio															
BM: Lifecycle 2020 Fund Composite Index			4.65%				1.90%								
Fund vs. Lifecycle 2020 Fund Composite Index			-158				-6								
BM: S&P Target Date 2020 Index			3.94%				1.77%								
Fund vs. S&P Target Date 2020 Index			-87				7								
PG: Target-Date 2020 M*star Category			3.38%				N/A								
Fund vs. Target-Date 2020 M*star Category			-31				N/A								
PG: Fund % Rank in Target-Date 2020 M*star Category			58%				N/A								
PG: # of funds in Target-Date 2020 M*star Category			251				N/A								
Fund Star Rating			N/A				N/A								

INVESTMENT PERFORMANCE SUMMARY

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				Inception to Date	Inc.
			Avg. Annual 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		
TIAA-CREF LIFECYCLE 2025 FUND (TCYIX)^[7,9]	\$4,619.10	41	2.75%	8.59%	6.00%	11.12%	2.20%	5.37%	11.46%	4.92%	8.96%	6.48%	10.40%	6.47%	10/15/2004	
Gross Expense Ratio		52														1/17/2007
BM: Lifecycle 2025 Fund Composite Index			4.71%	8.28%	6.15%	10.95%	2.17%	5.51%	11.22%	6.77%	8.73%	6.48%	10.28%	6.49%		
Fund vs. Lifecycle 2025 Fund Composite Index			-196	31	-15	17	3	-14	24	-185	23	0	12	-2		
BM: S&P Target Date 2025 Index			3.90%	7.74%	5.66%	10.32%	2.08%	5.06%	10.62%	5.69%	8.22%	5.98%	9.76%	6.51%		
Fund vs. S&P Target Date 2025 Index			-115	85	34	80	12	31	84	-77	74	50	64	-4		
PG: Target-Date 2025 Mstar Category			3.38%	7.51%	5.09%	10.25%	N/A	N/A	N/A	5.35%	7.84%	5.43%	9.53%	N/A		
Fund vs. Target-Date 2025 Mstar Category			-63	108	91	87	N/A	N/A	N/A	-43	112	105	87	N/A		
PG: Fund % Rank in Target-Date 2025 Mstar Category			77%	8%	8%	13%	N/A	N/A	N/A	70%	9%	3%	11%	N/A		
PG: # of funds in Target-Date 2025 Mstar Category			227	187	147	74	N/A	N/A	N/A	229	188	151	74	N/A		
Fund Star Rating			N/A	*****	*****	****	N/A	N/A	N/A	N/A	*****	*****	****	N/A		
TIAA-CREF LIFECYCLE 2030 FUND (TCRIX)^[7,9]	\$4,601.90	42	2.50%	9.32%	6.37%	11.84%	2.50%	5.99%	12.86%	4.96%	9.79%	6.94%	11.08%	6.64%	10/15/2004	
Gross Expense Ratio		53														1/17/2007
BM: Lifecycle 2030 Fund Composite Index			4.76%	9.09%	6.61%	11.78%	2.45%	6.02%	12.38%	7.00%	9.61%	7.00%	11.04%	6.73%		
Fund vs. Lifecycle 2030 Fund Composite Index			-226	23	-24	6	5	-3	48	-204	18	-6	4	-9		
BM: S&P Target Date 2030 Index			3.82%	8.44%	6.05%	11.04%	2.41%	5.65%	12.03%	5.85%	9.02%	6.44%	10.41%	6.79%		
Fund vs. S&P Target Date 2030 Index			-132	88	32	80	9	34	83	-89	77	50	67	-15		
PG: Target-Date 2030 Mstar Category			3.31%	8.34%	5.56%	10.79%	N/A	N/A	N/A	5.43%	8.73%	5.97%	10.02%	N/A		
Fund vs. Target-Date 2030 Mstar Category			-81	98	81	105	N/A	N/A	N/A	-47	106	97	106	N/A		
PG: Fund % Rank in Target-Date 2030 Mstar Category			77%	17%	17%	14%	N/A	N/A	N/A	69%	16%	12%	13%	N/A		
PG: # of funds in Target-Date 2030 Mstar Category			240	194	156	96	N/A	N/A	N/A	240	201	159	96	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]	\$4,659.40	43	2.30%	10.00%	6.69%	12.48%	2.85%	6.52%	14.21%	5.02%	10.61%	7.37%	11.68%	6.95%	10/15/2004	
Gross Expense Ratio		54														1/17/2007
BM: Lifecycle 2035 Fund Composite Index			4.77%	9.89%	7.01%	12.51%	2.72%	6.53%	13.54%	7.19%	10.49%	7.48%	11.74%	7.10%		
Fund vs. Lifecycle 2035 Fund Composite Index			-247	11	-32	-3	13	-1	67	-217	12	-11	-6	-15		
BM: S&P Target Date 2035 Index			3.66%	9.09%	6.41%	11.65%	2.71%	6.16%	13.26%	5.87%	9.77%	6.86%	10.97%	7.02%		
Fund vs. S&P Target Date 2035 Index			-136	91	28	83	14	36	95	-85	84	51	71	-7		
PG: Target-Date 2035 Mstar Category			3.17%	9.13%	5.95%	11.53%	N/A	N/A	N/A	5.64%	9.68%	6.45%	10.74%	N/A		
Fund vs. Target-Date 2035 Mstar Category			-87	87	74	95	N/A	N/A	N/A	-62	93	92	94	N/A		
PG: Fund % Rank in Target-Date 2035 Mstar Category			82%	15%	19%	11%	N/A	N/A	N/A	74%	16%	13%	9%	N/A		
PG: # of funds in Target-Date 2035 Mstar Category			222	182	142	69	N/A	N/A	N/A	224	183	146	69	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]	\$5,584.80	44	1.83%	10.65%	6.98%	12.76%	3.16%	6.95%	15.33%	4.85%	11.37%	7.72%	12.01%	7.31%	10/15/2004	
Gross Expense Ratio		55														1/17/2007
BM: Lifecycle 2040 Fund Composite Index			4.72%	10.67%	7.40%	12.87%	3.00%	7.02%	14.68%	7.31%	11.35%	7.92%	12.13%	7.48%		
Fund vs. Lifecycle 2040 Fund Composite Index			-289	-2	-42	-11	16	-7	65	-246	2	-20	-12	-17		
BM: S&P Target Date 2040 Index			3.59%	9.56%	6.86%	12.05%	2.89%	6.47%	14.03%	5.91%	10.29%	7.15%	11.35%	7.20%		
Fund vs. S&P Target Date 2040 Index			-176	109	32	71	27	48	130	-106	108	57	66	11		
PG: Target-Date 2040 Mstar Category			3.04%	9.54%	6.18%	11.71%	N/A	N/A	N/A	5.56%	10.12%	6.72%	10.89%	N/A		
Fund vs. Target-Date 2040 Mstar Category			-121	111	80	105	N/A	N/A	N/A	-71	125	100	112	N/A		
PG: Fund % Rank in Target-Date 2040 Mstar Category			86%	11%	18%	11%	N/A	N/A	N/A	74%	10%	12%	9%	N/A		
PG: # of funds in Target-Date 2040 Mstar Category			240	194	156	96	N/A	N/A	N/A	240	201	159	96	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2045 FUND (TTFIX)^[9]	\$3,156.00	45	1.73%	10.95%	7.14%	12.81%	3.36%	7.40%	16.30%	4.81%	11.74%	7.93%	12.10%	5.83%	11/30/2007	
Gross Expense Ratio		56														
BM: Lifecycle 2045 Fund Composite Index			4.65%	11.00%	7.60%	12.97%	3.23%	7.40%	15.55%	7.40%	11.76%	8.17%	12.26%	6.32%		
Fund vs. Lifecycle 2045 Fund Composite Index			-292	-5	-46	-16	13	0	75	-259	-2	-24	-16	-49		
BM: S&P Target Date 2045 Index			3.46%	9.85%	6.81%	12.34%	2.99%	6.62%	14.41%	5.83%	10.61%	7.32%	11.59%	5.68%		
Fund vs. S&P Target Date 2045 Index			-173	110	33	47	37	78	189	-102	113	61	51	15		
PG: Target-Date 2045 Mstar Category			2.94%	9.92%	6.35%	12.09%	N/A	N/A	N/A	5.74%	10.61%	6.94%	11.28%	N/A		
Fund vs. Target-Date 2045 Mstar Category			-121	103	79	72	N/A	N/A	N/A	-93	113	99	82	N/A		
PG: Fund % Rank in Target-Date 2045 Mstar Category			85%	7%	13%	10%	N/A	N/A	N/A	81%	5%	5%	9%	N/A		
PG: # of funds in Target-Date 2045 Mstar Category			222	182	142	68	N/A	N/A	N/A	224	183	146	68	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2050 FUND (TFTIX)^[9]	\$2,113.00	45	1.59%	11.04%	7.20%	12.85%	3.42%	7.45%	16.51%	4.74%	11.85%	8.00%	12.13%	5.84%	11/30/2007	
Gross Expense Ratio		57														
BM: Lifecycle 2050 Fund Composite Index			4.64%	11.13%	7.68%	13.02%	3.27%	7.48%	15.73%	7.42%	11.89%	8.27%	12.30%	6.36%		
Fund vs. Lifecycle 2050 Fund Composite Index			-305	-9	-48	-17	15	-3	78	-268	-4	-27	-17	-52		
BM: S&P Target Date 2050 Index			3.41%	10.12%	6.96%	12.50%	3.05%	6.72%	14.68%	5.82%	10.90%	7.48%	11.76%	5.82%		
Fund vs. S&P Target Date 2050 Index			-182	92	24	35	37	73	183	-108	95	52	37	2		
PG: Target-Date 2050 Mstar Category			2.87%	9.94%	6.41%	12.02%	N/A	N/A	N/A	5.59%	10.60%	7.00%	11.19%	N/A		
Fund vs. Target-Date 2050 Mstar Category			-128	110	79	83	N/A	N/A	N/A	-85	125	100	94	N/A		
PG: Fund % Rank in Target-Date 2050 Mstar Category			82%	7%	10%	10%	N/A	N/A	N/A	76%	3%	5%	9%	N/A		
PG: # of funds in Target-Date 2050 Mstar Category			240	194	156	78	N/A	N/A	N/A	240	201	159	78	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2055 FUND (TTRIX)^[9]	\$731.50	45	1.53%	11.10%	7.25%	N/A	3.43%	7.50%	16.59%	4.72%	11.93%	8.07%	N/A	8.68%	4/29/2011	
Gross Expense Ratio		59														
BM: Lifecycle 2055 Fund Composite Index			4.63%	11.25%	7.77%		3.32%	7.55%	15.91%	7.43%	12.03%	8.36%		9.08%		
Fund vs. Lifecycle 2055 Fund Composite Index			-310	-15	-52		11	-5	68	-271	-10	-29		-40		
BM: S&P Target Date 2055 Index			3.37%	10.29%	7.02%		3.06%	6.73%	14.71%	5.77%	11.07%	7.55%		8.37%		
Fund vs. S&P Target Date 2055 Index			-184	81	23		37	77	188	-105	86	52		31		
PG: Target-Date 2055 Mstar Category			2.84%	10.10%	6.49%		N/A	N/A	N/A	5.72%	10.82%	7.10%		N/A		
Fund vs. Target-Date 2055 Mstar Category			-131	100	76		N/A	N/A	N/A	-100	111	97		N/A		
PG: Fund % Rank in Target-Date 2055 Mstar Category			85%	5%	10%		N/A	N/A	N/A	79%	5%	7%		N/A		
PG: # of funds in Target-Date 2055 Mstar Category			222	180	134		N/A	N/A	N/A	224						

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	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				
FUND	04/30/19		04/01/18	04/01/16	04/01/14	04/01/09	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	
TIAA-CREF LIFECYCLE 2060 FUND (TLXNX)^[9]	\$129.50	45	1.47%	11.17%	N/A	N/A	3.49%	7.53%	16.86%	4.66%	12.01%	N/A	N/A	N/A	8.26%	9/26/2014		
Gross Expense Ratio		79																
BM: Lifecycle 2060 Fund Composite Index			4.62%	11.37%			3.36%	7.63%	16.09%	7.44%	12.16%				8.47%			
Fund vs. Lifecycle 2060 Fund Composite Index			-315	-20			13	-10	77	-278	-15				-21			
BM: S&P Target Date 2060+ Index			3.50%	10.48%			3.10%	6.82%	14.87%	5.94%	11.27%				7.84%			
Fund vs. S&P Target Date 2060+ Index			-203	69			39	71	199	-128	74				42			
PG: Target-Date 2060+ Mstar Category			2.99%	10.21%			N/A	N/A	N/A	5.78%	10.94%				N/A			
Fund vs. Target-Date 2060+ Mstar Category			-152	96			N/A	N/A	N/A	-112	107				N/A			
PG: Fund % Rank in Target-Date 2060+ Mstar Category			87%	7%			N/A	N/A	N/A	81%	5%				N/A			
PG: # of funds in Target-Date 2060+ Mstar Category			206	125			N/A	N/A	N/A	212	125				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]	\$445.00	10	4.47%	6.16%	4.94%	N/A	1.52%	4.27%	8.39%	6.20%	6.47%	5.12%	N/A	6.87%	9/30/2009			
Gross Expense Ratio		25																
BM: Lifecycle Index 2010 Composite Benchmark			4.53%	6.25%	5.02%		1.55%	4.32%	8.45%	6.16%	6.55%	5.20%			7.00%			
Fund vs. Lifecycle Index 2010 Composite Benchmark			-6	-9	-8		-3	-5	-6	4	-8	-8			-13			
BM: S&P Target Date 2010 Index			3.81%	5.48%	4.35%		1.40%	3.85%	7.69%	5.19%	5.76%	4.52%			6.12%			
Fund vs. S&P Target Date 2010 Index			66	68	59		12	42	70	101	71	60			75			
PG: Target-Date 2000-2010 Mstar Category			3.36%	5.56%	4.16%		N/A	N/A	N/A	4.73%	5.68%	4.32%			N/A			
Fund vs. Target-Date 2000-2010 Mstar Category			111	60	78		N/A	N/A	N/A	147	79	80			N/A			
PG: Fund % Rank in Target-Date 2000-2010 Mstar Category			9%	25%	2%		N/A	N/A	N/A	3%	15%	2%			N/A			
PG: # of funds in Target-Date 2000-2010 Mstar Category			138	113	92		N/A	N/A	N/A	138	113	92			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]	\$892.20	10	4.59%	6.69%	5.27%	N/A	1.71%	4.62%	9.16%	6.44%	7.09%	5.48%	N/A	7.35%	9/30/2009			
Gross Expense Ratio		23																
BM: Lifecycle Index 2015 Composite Benchmark			4.61%	6.77%	5.33%		1.71%	4.65%	9.17%	6.36%	7.11%	5.55%			7.48%			
Fund vs. Lifecycle Index 2015 Composite Benchmark			-2	-8	-6		0	-3	-1	8	-2	-7			-13			
BM: S&P Target Date 2015 Index			3.90%	6.25%	4.85%		1.59%	4.19%	8.59%	5.38%	6.58%	5.05%			6.91%			
Fund vs. S&P Target Date 2015 Index			69	44	42		12	43	57	106	51	43			44			
PG: Target-Date 2015 Mstar Category			3.48%	6.16%	4.42%		N/A	N/A	N/A	5.08%	6.33%	4.61%			N/A			
Fund vs. Target-Date 2015 Mstar Category			111	53	85		N/A	N/A	N/A	136	76	87			N/A			
PG: Fund % Rank in Target-Date 2015 Mstar Category			10%	28%	6%		N/A	N/A	N/A	6%	21%	6%			N/A			
PG: # of funds in Target-Date 2015 Mstar Category			139	112	83		N/A	N/A	N/A	136	110	80			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]	\$2,234.00	10	4.63%	7.41%	5.67%	N/A	1.91%	5.04%	9.98%	6.63%	7.84%	5.93%	N/A	7.94%	9/30/2009			
Gross Expense Ratio		21																
BM: Lifecycle Index 2020 Composite Benchmark			4.70%	7.49%	5.74%		1.91%	5.02%	10.01%	6.58%	7.88%	6.01%			8.07%			
Fund vs. Lifecycle Index 2020 Composite Benchmark			-7	-8	-7		0	2	-3	5	-4	-8			-13			
BM: S&P Target Date 2020 Index			3.94%	6.97%	5.27%		1.77%	4.52%	9.35%	5.54%	7.35%	5.52%			7.58%			
Fund vs. S&P Target Date 2020 Index			69	44	40		14	52	63	109	49	41			36			
PG: Target-Date 2020 Mstar Category			3.38%	6.57%	4.58%		N/A	N/A	N/A	5.03%	6.78%	4.83%			N/A			
Fund vs. Target-Date 2020 Mstar Category			125	84	109		N/A	N/A	N/A	160	106	110			N/A			
PG: Fund % Rank in Target-Date 2020 Mstar Category			12%	23%	2%		N/A	N/A	N/A	7%	16%	6%			N/A			
PG: # of funds in Target-Date 2020 Mstar Category			251	204	166		N/A	N/A	N/A	251	211	169			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]	\$2,878.30	10	4.65%	8.25%	6.12%	N/A	2.21%	5.56%	11.15%	6.90%	8.75%	6.46%	N/A	8.57%	9/30/2009			
Gross Expense Ratio		20																
BM: Lifecycle Index 2025 Composite Benchmark			4.76%	8.31%	6.20%		2.18%	5.53%	11.16%	6.83%	8.77%	6.53%			8.68%			
Fund vs. Lifecycle Index 2025 Composite Benchmark			-11	-6	-8		3	3	-1	7	-2	-7			-11			
BM: S&P Target Date 2025 Index			3.90%	7.74%	5.66%		2.08%	5.06%	10.62%	5.69%	8.22%	5.98%			8.18%			
Fund vs. S&P Target Date 2025 Index			75	51	46		13	50	53	121	53	48			39			
PG: Target-Date 2025 Mstar Category			3.38%	7.51%	5.09%		N/A	N/A	N/A	5.35%	7.84%	5.43%			N/A			
Fund vs. Target-Date 2025 Mstar Category			127	74	103		N/A	N/A	N/A	155	91	103			N/A			
PG: Fund % Rank in Target-Date 2025 Mstar Category			9%	25%	3%		N/A	N/A	N/A	4%	18%	4%			N/A			
PG: # of funds in Target-Date 2025 Mstar Category			227	187	147		N/A	N/A	N/A	229	188	151			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]	\$3,061.20	10	4.78%	9.07%	6.59%	N/A	2.42%	6.02%	12.27%	7.14%	9.66%	6.97%	N/A	9.19%	9/30/2009			
Gross Expense Ratio		20																
BM: Lifecycle Index 2030 Composite Benchmark			4.82%	9.12%	6.65%		2.45%	6.04%	12.31%	7.07%	9.67%	7.05%			9.30%			
Fund vs. Lifecycle Index 2030 Composite Benchmark			-4	-5	-6		-3	-2	-4	7	-1	-8			-11			
BM: S&P Target Date 2030 Index			3.82%	8.44%	6.05%		2.41%	5.65%	12.03%	5.85%	9.02%	6.44%			8.72%			
Fund vs. S&P Target Date 2030 Index			96	63	54		1	37	24	129	64	53			47			
PG: Target-Date 2030 Mstar Category			3.31%	8.34%	5.56%		N/A	N/A	N/A	5.43%	8.73%	5.97%			N/A			
Fund vs. Target-Date 2030 Mstar Category			147	73	103		N/A	N/A	N/A	171	93	100			N/A			
PG: Fund % Rank in Target-Date 2030 Mstar Category			6%	24%	9%		N/A	N/A	N/A	7%	19%	10%			N/A			
PG: # of funds in Target-Date 2030 Mstar Category			240	194	156		N/A	N/A	N/A	240	201	159			N/A			
Fund Star Rating			N/A	****	*****		N/A	N/A	N/A	N/A	****	*****			N/A			
TIAA-CREF LIFECYCLE INDEX 2035 FUND (TLYIX)^[9]	\$2,794.00	10	4.78%	9.90%	7.00%	N/A	2.72%	6.56%	13.46%	7.41%	10.55%	7.47%	N/A	9.78%	9/30/2009			
Gross Expense Ratio		19																
BM: Lifecycle Index 2035 Composite Benchmark			4.84%	9.93%	7.06%		2.73%	6.55%	13.46%	7.27%	10.55%	7.53%			9.89%			
Fund vs. Lifecycle Index 2035 Composite Benchmark			-6	-3	-6		-1	1	0	14	1	-6			-11			
BM: S&P Target Date 2035 Index			3.66%	9.09%	6.41%		2.71%	6.16%	13.26%	5.87%	9.77%	6.86%			9.18%			
Fund vs. S&P Target Date 2035 Index			112	81	59		1	40	20	154	79	61			60			
PG: Target-Date 2035 Mstar Category			3.17%	9.13%	5.95%		N/A	N/A	N/A	5.64%	9.68%	6.45%			N/A			
Fund vs. Target-Date 2035 Mstar Category			161	77	105		N/A	N/A	N/A	177	88	102			N/A			
PG: Fund % Rank in Target-Date 2035 Mstar Category			6%	20%	10%		N/A	N/A	N/A	8%	17%	10%			N/A			
PG: # of funds in Target-Date																		

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
INSTITUTIONAL SHARE CLASS

FOR PERIOD ENDING April 30, 2019
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	
	04/01/18	04/01/16	04/01/14	04/01/09	04/01/19	02/01/19	01/01/19	05/01/18	05/01/16	05/01/14	05/01/09					
	03/31/19	03/31/19	03/31/19	03/31/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19	04/30/19			
TIAA-CREF LIFECYCLE INDEX 2040 FUND (TLZIX)^[9]	\$2,962.30	10	4.71%	10.69%	7.39%	N/A	3.04%	7.04%	14.58%	7.51%	11.45%	7.92%	N/A	10.19%	9/30/2009	
Gross Expense Ratio		19														
BM: Lifecycle Index 2040 Composite Benchmark			4.80%	10.71%	7.45%		3.01%	7.05%	14.60%	7.40%	11.42%	7.98%		10.29%		
Fund vs. Lifecycle Index 2040 Composite Benchmark			-9	-2	-6		3	-1	-2	11	3	-6		-10		
BM: S&P Target Date 2040 Index			3.59%	9.56%	6.66%		2.89%	6.47%	14.03%	5.91%	10.29%	7.15%		9.51%		
Fund vs. S&P Target Date 2040 Index			112	113	73		15	57	55	160	116	77		68		
PG: Target-Date 2040 Mstar Category			3.04%	9.54%	6.18%		N/A	N/A	N/A	5.56%	10.12%	6.72%		N/A		
Fund vs. Target-Date 2040 Mstar Category			167	115	121		N/A	N/A	N/A	195	133	120		N/A		
PG: Fund % Rank in Target-Date 2040 Mstar Category			8%	9%	3%		N/A	N/A	N/A	6%	8%	3%		N/A		
PG: # of funds in Target-Date 2040 Mstar Category			240	194	156		N/A	N/A	N/A	240	201	159		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]	\$1,945.70	10	4.60%	11.01%	7.58%	N/A	3.27%	7.43%	15.47%	7.64%	11.86%	8.17%	N/A	10.31%	9/30/2009	
Gross Expense Ratio		20														
BM: Lifecycle Index 2045 Composite Benchmark			4.74%	11.04%	7.65%		3.23%	7.43%	15.46%	7.49%	11.83%	8.23%		10.42%		
Fund vs. Lifecycle Index 2045 Composite Benchmark			-14	-3	-7		4	0	1	15	3	-6		-11		
BM: S&P Target Date 2045 Index			3.46%	9.85%	6.81%		2.99%	6.62%	14.41%	5.83%	10.61%	7.32%		9.72%		
Fund vs. S&P Target Date 2045 Index			114	116	77		28	81	106	181	125	85		59		
PG: Target-Date 2045 Mstar Category			2.94%	9.92%	6.35%		N/A	N/A	N/A	5.74%	10.61%	6.94%		N/A		
Fund vs. Target-Date 2045 Mstar Category			166	109	123		N/A	N/A	N/A	190	125	123		N/A		
PG: Fund % Rank in Target-Date 2045 Mstar Category			7%	6%	3%		N/A	N/A	N/A	7%	1%	3%		N/A		
PG: # of funds in Target-Date 2045 Mstar Category			222	182	142		N/A	N/A	N/A	224	183	146		N/A		
Fund Star Rating			N/A	*****	*****		N/A	N/A	N/A	N/A	*****	*****		N/A		
TIAA-CREF LIFECYCLE INDEX 2050 FUND (TLIIX)^[9]	\$1,472.40	10	4.57%	11.14%	7.67%	N/A	3.31%	7.51%	15.59%	7.65%	12.00%	8.27%	N/A	10.37%	9/30/2009	
Gross Expense Ratio		20														
BM: Lifecycle Index 2050 Composite Benchmark			4.73%	11.17%	7.73%		3.28%	7.51%	15.64%	7.51%	11.97%	8.33%		10.47%		
Fund vs. Lifecycle Index 2050 Composite Benchmark			-16	-3	-6		3	0	-5	14	3	-6		-10		
BM: S&P Target Date 2050 Index			3.41%	10.12%	6.96%		3.05%	6.72%	14.68%	5.82%	10.90%	7.48%		9.89%		
Fund vs. S&P Target Date 2050 Index			116	102	71		26	79	91	183	110	79		48		
PG: Target-Date 2050 Mstar Category			2.87%	9.94%	6.41%		N/A	N/A	N/A	5.59%	10.60%	7.00%		N/A		
Fund vs. Target-Date 2050 Mstar Category			170	120	126		N/A	N/A	N/A	206	140	127		N/A		
PG: Fund % Rank in Target-Date 2050 Mstar Category			9%	3%	3%		N/A	N/A	N/A	7%	2%	3%		N/A		
PG: # of funds in Target-Date 2050 Mstar Category			240	194	156		N/A	N/A	N/A	240	201	159		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]	\$606.20	10	4.63%	11.29%	7.75%	N/A	3.33%	7.58%	15.84%	7.64%	12.16%	8.36%	N/A	9.03%	4/29/2011	
Gross Expense Ratio		24														
BM: Lifecycle Index 2055 Composite Benchmark			4.72%	11.29%	7.82%		3.32%	7.58%	15.82%	7.53%	12.10%	8.42%		9.12%		
Fund vs. Lifecycle Index 2055 Composite Benchmark			-9	0	-7		1	0	2	11	6	-6		-9		
BM: S&P Target Date 2055 Index			3.37%	10.29%	7.02%		3.06%	6.73%	14.71%	5.77%	11.07%	7.55%		8.37%		
Fund vs. S&P Target Date 2055 Index			126	100	73		27	85	113	187	109	81		66		
PG: Target-Date 2055 Mstar Category			2.84%	10.10%	6.49%		N/A	N/A	N/A	5.72%	10.82%	7.10%		N/A		
Fund vs. Target-Date 2055 Mstar Category			179	119	126		N/A	N/A	N/A	192	134	126		N/A		
PG: Fund % Rank in Target-Date 2055 Mstar Category			5%	2%	3%		N/A	N/A	N/A	7%	1%	3%		N/A		
PG: # of funds in Target-Date 2055 Mstar Category			222	180	134		N/A	N/A	N/A	224	181	138		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]	\$145.80	10	4.58%	11.37%	N/A	N/A	3.45%	7.69%	16.02%	7.75%	12.29%	N/A	N/A	8.51%	9/26/2014	
Gross Expense Ratio		48														
BM: Lifecycle Index 2060 Composite Benchmark			4.71%	11.41%			3.37%	7.66%	16.00%	7.54%	12.24%			8.56%		
Fund vs. Lifecycle Index 2060 Composite Benchmark			-13	-4			8	3	2	21	5			-5		
BM: S&P Target Date 2060+ Index			3.50%	10.48%			3.10%	6.82%	14.87%	5.94%	11.27%			7.84%		
Fund vs. S&P Target Date 2060+ Index			108	89			35	87	115	181	102			67		
PG: Target-Date 2060+ Mstar Category			2.99%	10.21%			N/A	N/A	N/A	5.78%	10.94%			N/A		
Fund vs. Target-Date 2060+ Mstar Category			159	116			N/A	N/A	N/A	197	135			N/A		
PG: Fund % Rank in Target-Date 2060+ Mstar Category			10%	3%			N/A	N/A	N/A	7%	1%			N/A		
PG: # of funds in Target-Date 2060+ Mstar Category			206	125			N/A	N/A	N/A	212	125			N/A		
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****			N/A		
TIAA-CREF LIFECYCLE INDEX RETIREMENT INCOME FUND (TRILX)^[9]	\$369.50	10	4.46%	5.87%	4.78%	N/A	1.47%	4.18%	8.20%	6.14%	6.20%	4.92%	N/A	6.43%	9/30/2009	
Gross Expense Ratio		31														
BM: Lifecycle Index Retirement Income Composite Benchmark			4.50%	5.91%	4.82%		1.51%	4.24%	8.24%	6.10%	6.21%	4.98%		6.55%		
Fund vs. Lifecycle Index Retirement Income Composite Benchmark			-4	-4	-4		-4	-6	-4	4	-1	-6		-12		
BM: S&P Target Date Retirement Income Index			3.72%	4.70%	3.89%		1.20%	3.46%	6.84%	4.95%	4.94%	4.01%		5.31%		
Fund vs. S&P Target Date Retirement Income Index			74	117	89		27	72	136	119	126	91		112		
PG: Target-Date Retirement Mstar Category			3.44%	4.79%	3.45%		N/A	N/A	N/A	4.63%	4.87%	3.58%		N/A		
Fund vs. Target-Date Retirement Mstar Category			102	108	133		N/A	N/A	N/A	151	133	134		N/A		
PG: Fund % Rank in Target-Date Retirement Mstar Category			11%	13%	2%		N/A	N/A	N/A	3%	11%	2%		N/A		
PG: # of funds in Target-Date Retirement Mstar Category			185	161	126		N/A	N/A	N/A	185	161	129		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]	\$534.30	37	3.19%	6.35%	4.75%	8.00%	1.50%	4.03%	8.44%	4.83%	6.55%	5.01%	7.64%	4.99%	11/30/2007	
Gross Expense Ratio		52														
BM: Lifecycle Retirement Income Fund Composite Index			4.46%	5.89%	4.72%	7.73%	1.50%	4.23%	8.28%	6.07%	6.18%	4.89%	7.39%	4.99%		
Fund vs. Lifecycle Retirement Income Fund Composite Index			-127	46	3	27	0	-20	16	-124	37	12	25	0		
BM: S&P Target Date Retirement Income Index			3.72%	4.70%	3.89%	6.38%	1.20%	3.46%	6.84%	4.95%	4.94%	4.01%	6.14%	3.92%		
Fund vs. S&P Target Date Retirement Income Index			-53	165	86	162	30	57	160	-12	161	100	150	107		
PG: Target-Date Retirement Mstar Category			3.44%	4.79%	3.45%	6.62%	N/A	N/A	N/A	4.63%	4.87%	3.58%	6.24%	N/A		
Fund vs. Target-Date Retirement Mstar Category			-25	156	130	138	N/A	N/A	N/A	20	168	143	140	N/A		
PG: Fund % Rank in Target-Date Retirement Mstar Category			59%	6%	2%	9%	N/A	N/A	N/A	42%	4%	1%	8%	N/A		
PG: # of funds in Target-Date Retirement Mstar Category			185	161	126	91	N/A	N/A	N/A	185	161	129	91	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 April 30, 2019
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 LIFESTYLE AGGRESSIVE GROWTH FUND (TSAIX)^[1]	\$123.60	55	0.91%	11.34%	7.30%	N/A	3.71%	8.14%	17.97%	4.28%	12.27%	8.20%	N/A	11.76%	12/9/2011	
Gross Expense Ratio		75														
BM: Lifestyle Aggressive Composite Benchmark			4.56%	11.89%	8.01%		3.57%	8.00%	16.94%	7.51%	12.75%	8.67%		11.93%		
Fund vs. Lifestyle Aggressive Composite Benchmark			-365	-55	-71		14	14	103	-323	-48	-47		-17		
BM: Morningstar Aggressive Target Risk TR USD			3.76%	11.37%	7.03%		3.03%	6.91%	15.64%	6.29%	11.88%	7.58%		10.76%		
Fund vs. Morningstar Aggressive Target Risk TR USD			-285	-3	27		68	123	233	-201	39	62		100		
PG: Allocation--85%+ Equity M*star Category			2.64%	9.60%	5.99%		N/A	N/A	N/A	5.09%	10.28%	6.55%		N/A		
Fund vs. Allocation--85%+ Equity M*star Category			-173	174	131		N/A	N/A	N/A	-81	199	165		N/A		
PG: Fund % Rank in Allocation--85%+ Equity M*star Category			77%	9%	16%		N/A	N/A	N/A	61%	11%	11%		N/A		
PG: # of funds in Allocation--85%+ Equity M*star Category			186	165	144		N/A	N/A	N/A	198	175	157		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE CONSERVATIVE FUND (TCSIX)^[10]	\$234.20	46	2.83%	6.23%	4.65%	N/A	1.62%	4.30%	8.91%	4.58%	6.46%	4.97%	N/A	6.57%	12/9/2011	
Gross Expense Ratio		61														
BM: Lifestyle Conservative Composite Benchmark			4.50%	5.87%	4.67%		1.48%	4.14%	8.12%	6.08%	6.15%	4.87%		6.08%		
Fund vs. Lifestyle Conservative Composite Benchmark			-167	36	-2		14	16	79	-150	31	10		49		
BM: Morningstar Moderately Conservative Target Risk TR USD			4.62%	6.16%	4.43%		1.33%	3.96%	8.14%	6.18%	6.27%	4.57%		5.97%		
Fund vs. Morningstar Moderately Conservative Target Risk TR USD			-179	7	22		29	34	77	-160	19	40		60		
PG: Allocation--30% to 50% Equity M*star Category			3.03%	5.53%	3.69%		N/A	N/A	N/A	4.46%	5.59%	3.86%		N/A		
Fund vs. Allocation--30% to 50% Equity M*star Category			-20	70	96		N/A	N/A	N/A	12	87	111		N/A		
PG: Fund % Rank in Allocation--30% to 50% Equity M*star Category			60%	24%	16%		N/A	N/A	N/A	52%	22%	16%		N/A		
PG: # of funds in Allocation--30% to 50% Equity M*star Category			558	488	386		N/A	N/A	N/A	555	484	391		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE GROWTH FUND (TSGGX)^[11]	\$168.90	52	1.69%	9.80%	6.57%	N/A	3.00%	6.93%	15.15%	4.47%	10.46%	7.27%	N/A	10.21%	12/9/2011	
Gross Expense Ratio		66														
BM: Lifestyle Growth Composite Benchmark			4.73%	9.95%	7.05%		2.86%	6.76%	14.07%	7.26%	10.60%	7.54%		10.10%		
Fund vs. Lifestyle Growth Composite Benchmark			-304	-15	-48		14	17	108	-279	-14	-27		11		
BM: Morningstar Moderately Aggressive Target Risk TR USD			4.06%	10.02%	6.33%		2.53%	6.08%	13.51%	6.31%	10.36%	6.75%		9.46%		
Fund vs. Morningstar Moderately Aggressive Target Risk TR USD			-237	-22	24		47	85	164	-184	10	52		75		
PG: Allocation--70% to 85% Equity M*star Category			2.86%	8.38%	5.32%		N/A	N/A	N/A	5.21%	9.02%	5.90%		N/A		
Fund vs. Allocation--70% to 85% Equity M*star Category			-117	142	125		N/A	N/A	N/A	-74	144	137		N/A		
PG: Fund % Rank in Allocation--70% to 85% Equity M*star Category			69%	17%	19%		N/A	N/A	N/A	67%	20%	18%		N/A		
PG: # of funds in Allocation--70% to 85% Equity M*star Category			361	326	285		N/A	N/A	N/A	357	322	284		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE INCOME FUND (TSITX)^[10]	\$73.50	42	3.16%	4.27%	3.45%	N/A	0.91%	2.91%	5.74%	4.29%	4.32%	3.58%	N/A	4.48%	12/9/2011	
Gross Expense Ratio		68														
BM: Lifestyle Income Composite Benchmark			4.10%	3.74%	3.27%		0.82%	2.76%	5.06%	5.16%	3.87%	3.34%		3.92%		
Fund vs. Lifestyle Income Composite Benchmark			-94	53	18		9	15	68	-87	45	24		56		
BM: Morningstar Conservative Target Risk TR USD			4.30%	4.05%	3.12%		0.67%	2.72%	5.37%	5.44%	4.00%	3.11%		3.89%		
Fund vs. Morningstar Conservative Target Risk TR USD			-114	22	33		24	19	37	-115	32	47		59		
PG: Allocation--15% to 30% Equity M*star Category			2.87%	4.01%	2.81%		N/A	N/A	N/A	3.69%	3.99%	2.88%		N/A		
Fund vs. Allocation--15% to 30% Equity M*star Category			29	26	64		N/A	N/A	N/A	60	33	70		N/A		
PG: Fund % Rank in Allocation--15% to 30% Equity M*star Category			48%	45%	27%		N/A	N/A	N/A	46%	39%	27%		N/A		
PG: # of funds in Allocation--15% to 30% Equity M*star Category			204	183	150		N/A	N/A	N/A	207	185	158		N/A		
Fund Star Rating			N/A	***	****		N/A	N/A	N/A	N/A	***	****		N/A		
TIAA-CREF LIFESTYLE MODERATE FUND (TSMIX)^[11]	\$360.90	49	2.48%	8.14%	5.81%	N/A	2.33%	5.76%	12.26%	4.87%	8.57%	6.30%	N/A	8.63%	12/9/2011	
Gross Expense Ratio		57														
BM: Lifestyle Moderate Composite Benchmark			4.81%	7.99%	6.04%		2.15%	5.54%	11.23%	6.92%	8.44%	6.36%		8.23%		
Fund vs. Lifestyle Moderate Composite Benchmark			-233	15	-23		18	22	103	-205	13	-6		40		
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%		1.93%	5.01%	10.78%	6.32%	8.29%	5.67%		7.75%		
Fund vs. Morningstar Moderate Target Risk TR USD			-194	9	41		40	75	148	-145	28	63		88		
PG: Allocation--50% to 70% Equity M*star Category			3.90%	7.44%	5.12%		N/A	N/A	N/A	6.02%	7.89%	5.53%		N/A		
Fund vs. Allocation--50% to 70% Equity M*star Category			-142	70	69		N/A	N/A	N/A	-115	68	77		N/A		
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			70%	30%	33%		N/A	N/A	N/A	64%	33%	31%		N/A		
PG: # of funds in Allocation--50% to 70% Equity M*star Category			758	690	601		N/A	N/A	N/A	756	688	605		N/A		
Fund Star Rating			N/A	****	***		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF MANAGED ALLOCATION FUND (TIMIX)^[11]	\$866.60	39	2.67%	8.23%	5.95%	10.43%	2.35%	5.64%	12.20%	5.09%	8.69%	6.42%	9.93%	6.07%	3/31/2006	
Gross Expense Ratio		42														
BM: Managed Allocation Composite Index ^[5]			4.81%	7.99%	6.04%	9.99%	2.15%	5.54%	11.23%	6.92%	8.44%	6.36%	9.50%	6.19%		
Fund vs. Managed Allocation Composite Index			-214	24	-9	44	20	10	97	-183	25	6	43	-12		
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%	9.55%	1.93%	5.01%	10.78%	6.32%	8.29%	5.67%	9.04%	6.16%		
Fund vs. Morningstar Moderate Target Risk TR USD			-175	18	55	88	42	63	142	-123	40	75	89	-9		
PG: Allocation--50% to 70% Equity M*star Category			3.90%	7.44%	5.12%	9.98%	N/A	N/A	N/A	6.02%	7.89%	5.53%	9.42%	N/A		
Fund vs. Allocation--50% to 70% Equity M*star Category			-123	79	83	45	N/A	N/A	N/A	-93	80	89	51	N/A		
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			67%	28%	30%	35%	N/A	N/A	N/A	60%	30%	30%	36%	N/A		
PG: # of funds in Allocation--50% to 70% Equity M*star Category			758	690	601	439	N/A	N/A	N/A	756	688	605	444	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 April 30, 2019
 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	
	04/30/19		04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inc. Date	
Money Market															
TIAA-CREF MONEY MARKET FUND (TCIXX) ^[12,3,6]	\$1,248.10	15	1.98%	1.09%	0.67%	0.38%	0.19%	0.56%	0.76%	2.04%	1.14%	0.71%	0.39%	1.89%	7/1/1999
Gross Expense Ratio		15													
BM: iMoneynet Money Fund AveragesTM-All Government			1.67%	0.81%	0.49%	0.26%	0.17%	0.49%	0.66%	1.73%	0.87%	0.53%	0.27%	1.93%	
Fund vs.iMoneynet Money Fund AveragesTM-All Government			31	28	18	12	2	7	10	31	27	18	12	-4	
7-Day Effective Yield as of 04/30/2019: 2.33%															
7-Day Current Yield as of 04/30/2019: 2.33%															
MUTUAL FUND TOTALS ^[1]	\$148,080.60														

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.

[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] Beginning December 13, 2011, part or all of the investment management fees of the Institutional 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.
 [7] The Institutional Class began operations on January 17, 2007. 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 Institutional Class reflects the performance of the Retirement Class, and has not been adjusted to reflect the higher expenses of the Retirement Class.
 [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 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.
 [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 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.
 [11] 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.
 [12] Effective October 1, 2016, the iMoneynet Money Fund Averages-All Taxable peer group was changed to the iMoneynet Money Fund Averages-All Government.
 [13] 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.
 [14] 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.
 [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 Enhanced International Equity Index Fund's name was changed to TIAA-CREF Quant International Equity Fund.
 [18] 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.
 [19] 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 0.00% of average daily net assets for the Lifecycle and 0.04% for the Lifecycle Index Institutional 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.

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) 0.52% for the Growth & Income Fund; 0.60% for the International Equity Fund; 0.95% for the Emerging Markets Equity Fund; 0.52% for the Large-Cap Growth Fund; 0.52% for the Large-Cap Value Fund; 0.55% for the Mid-Cap Growth Fund; 0.55% for the Mid-Cap Value Fund; 0.53% for the Small-Cap Equity Fund; 0.09% for the Large-Cap Growth Index Fund; 0.09% for the Large-Cap Value Index Fund; 0.09% for the Equity Index Fund; 0.09% for the S&P 500 Index Fund; 0.09% for the Small-Cap Blend Index Fund; 0.15% for the International Equity Index Fund; 0.50% for the Enhanced International Equity Index Fund; 0.40% for the Enhanced Large-Cap Growth Index Fund; 0.40% for the Enhanced Large-Cap Value Index Fund; 0.25% for the Emerging Markets Equity Index Fund; 0.22% for the Social Choice Equity Fund; 0.75% for the Global Natural Resources Fund; 0.70% for the International Opportunities Fund; 0.65% for the Emerging Markets Debt Fund; b) 0.57% for the Real Estate Securities Fund; 0.35% for the Bond Fund; 0.35% for the Bond Plus Fund; 0.30% for the Short-Term Bond Fund; 0.30% for the Inflation-Linked Bond Fund; 0.40% for the High-Yield Fund; 0.35% for the Tax-Exempt Bond Fund; 0.13% for the Bond Index Fund; 0.15% for the Money Market Fund; 0.40% for the Social Choice Bond Fund; 0.12% for the Short-Term Bond Index Fund; 0.32% for the Social Choice Low Carbon Equity Fund; 0.40% for the Social Choice International Equity Index; c) 0.00% for the Managed Allocation Fund.

a) These expense reimbursement arrangements will continue through at least February 29, 2020 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
ADVISOR SHARE CLASS

FOR PERIOD ENDING April 30, 2019
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 QUANT LARGE-CAP GROWTH FUND (TECGX)^[11]	\$2,837.10	43	9.37%	15.40%	13.00%	16.72%	4.73%	10.51%	20.20%	14.29%	17.62%	14.11%	16.27%	9.88%	11/30/2007
Gross Expense Ratio		43													12/4/2015
BM: Russell 1000 Growth Index			12.75%	16.53%	13.50%	17.52%	4.52%	11.34%	21.35%	17.43%	18.62%	14.50%	16.96%	10.38%	
Fund vs. Russell 1000 Growth Index			-338	-113	-50	-80	21	-83	-115	-314	-100	-39	-69	-50	
PG: Large Growth M*star Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A	
Fund vs. Large Growth M*star Category			-134	5	174	78	N/A	N/A	N/A	-48	53	165	104	N/A	
PG: Fund % Rank in Large Growth M*star Category			61%	50%	27%	34%	N/A	N/A	N/A	58%	44%	29%	30%	N/A	
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	N/A	
Fund Star Rating			N/A	***	****	****	N/A	N/A	N/A	N/A	***	****	****	N/A	
TIAA-CREF QUANT LARGE-CAP VALUE FUND (TELCX)^[12]	\$2,652.10	41	2.79%	9.04%	6.45%	13.43%	3.36%	6.18%	14.58%	6.15%	9.73%	7.16%	12.65%	5.87%	11/30/2007
Gross Expense Ratio		41													12/4/2015
BM: Russell 1000 Value Index			5.67%	10.45%	7.72%	14.52%	3.55%	7.54%	15.90%	9.06%	10.97%	8.27%	13.76%	6.68%	
Fund vs. Russell 1000 Value Index			-288	-141	-127	-109	-19	-136	-132	-291	-124	-111	-111	-81	
PG: Large Value M*star Category			4.48%	10.01%	7.20%	13.68%	N/A	N/A	N/A	7.41%	10.78%	7.75%	12.88%	N/A	
Fund vs. Large Value M*star Category			-169	-97	-75	-25	N/A	N/A	N/A	-126	-105	-59	-23	N/A	
PG: Fund % Rank in Large Value M*star Category			66%	74%	70%	57%	N/A	N/A	N/A	64%	75%	68%	59%	N/A	
PG: # of funds in Large Value M*star Category			1229	1096	939	691	N/A	N/A	N/A	1259	1114	958	699	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]	\$3,168.20	48	2.07%	12.77%	8.03%	15.89%	3.26%	6.54%	18.94%	5.90%	13.86%	9.43%	14.65%	10.85%	10/1/2002
Gross Expense Ratio		48													12/4/2015
BM: Russell 2000 Index			2.05%	12.92%	7.05%	15.36%	3.40%	6.50%	18.48%	4.61%	13.60%	8.63%	14.10%	10.70%	
Fund vs. Russell 2000 Index			2	-15	98	53	-14	4	46	129	26	80	55	15	
PG: Small Growth M*star Category			7.70%	15.88%	8.45%	16.24%	N/A	N/A	N/A	11.32%	16.82%	10.34%	15.15%	N/A	
Fund vs. Small Growth M*star Category			-563	-311	-42	-35	N/A	N/A	N/A	-542	-296	-91	-50	N/A	
PG: Fund % Rank in Small Growth M*star Category			81%	75%	61%	59%	N/A	N/A	N/A	79%	74%	67%	63%	N/A	
PG: # of funds in Small Growth M*star Category			679	588	522	392	N/A	N/A	N/A	679	587	524	393	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)^[14,4]	\$705.40	59	7.84%	N/A	N/A	N/A	3.68%	8.21%	20.94%	10.80%	N/A	N/A	N/A	14.31%	8/5/2016
Gross Expense Ratio		59													12/4/2015
BM: Russell 2500 Index			4.48%				3.50%	7.50%	19.88%	7.89%				11.59%	
Fund vs. Russell 2500 Index			336				18	71	106	291				272	
PG: Small Blend M*star Category			-0.03%				N/A	N/A	N/A	3.23%				N/A	
Fund vs. Small Blend M*star Category			787				N/A	N/A	N/A	757				N/A	
PG: Fund % Rank in Small Blend M*star Category			4%				N/A	N/A	N/A	5%				N/A	
PG: # of funds in Small Blend M*star Category			738				N/A	N/A	N/A	742				N/A	
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A	
TIAA-CREF REAL ESTATE SECURITIES FUND (TIRHX)	\$2,383.00	65	18.76%	8.05%	10.30%	18.72%	0.59%	6.18%	17.94%	18.73%	9.09%	9.84%	15.71%	10.63%	10/1/2002
Gross Expense Ratio		65													12/4/2015
BM: FTSE Nareit All Equity REITs Index			20.46%	7.84%	10.00%	18.80%	-0.23%	4.77%	16.90%	19.56%	8.42%	9.30%	15.61%	10.82%	
Fund vs. FTSE Nareit All Equity REITs Index			-170	21	30	-8	82	141	104	-83	67	54	10	-19	
PG: Real Estate M*star Category			17.08%	6.00%	8.29%	17.24%	N/A	N/A	N/A	16.22%	6.82%	7.72%	14.32%	N/A	
Fund vs. Real Estate M*star Category			168	205	201	148	N/A	N/A	N/A	251	227	212	139	N/A	
PG: Fund % Rank in Real Estate M*star Category			40%	6%	4%	18%	N/A	N/A	N/A	17%	7%	5%	12%	N/A	
PG: # of funds in Real Estate M*star Category			251	225	198	139	N/A	N/A	N/A	253	225	198	139	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)	\$5,187.90	20	9.29%	13.33%	10.77%	15.79%	4.03%	9.43%	18.18%	13.28%	14.69%	11.49%	15.20%	9.92%	10/1/2002
Gross Expense Ratio		20													12/4/2015
BM: S&P 500 Index			9.50%	13.51%	10.91%	15.92%	4.05%	9.48%	18.25%	13.49%	14.87%	11.63%	15.32%	10.02%	
Fund vs. S&P 500 Index			-21	-18	-14	-13	-2	-5	-7	-21	-18	-14	-12	-10	
PG: Large Blend M*star Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A	
Fund vs. Large Blend M*star Category			239	149	186	125	N/A	N/A	N/A	240	160	178	131	N/A	
PG: Fund % Rank in Large Blend M*star Category			26%	23%	14%	19%	N/A	N/A	N/A	28%	22%	15%	15%	N/A	
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	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)	\$2,991.30	21	2.04%	12.99%	7.21%	15.46%	3.35%	6.44%	18.40%	4.58%	13.64%	8.77%	14.19%	10.73%	10/1/2002
Gross Expense Ratio		21													12/4/2015
BM: Russell 2000 Index			2.05%	12.92%	7.05%	15.36%	3.40%	6.50%	18.48%	4.61%	13.60%	8.63%	14.10%	10.70%	
Fund vs. Russell 2000 Index			-1	7	16	10	-5	-6	-8	-3	4	14	9	3	
PG: Small Blend M*star Category			-0.03%	10.17%	5.62%	14.67%	N/A	N/A	N/A	3.23%	11.06%	7.00%	13.39%	N/A	
Fund vs. Small Blend M*star Category			207	282	159	79	N/A	N/A	N/A	135	258	177	80	N/A	
PG: Fund % Rank in Small Blend M*star Category			30%	12%	23%	35%	N/A	N/A	N/A	36%	13%	21%	33%	N/A	
PG: # of funds in Small Blend M*star Category			738	634	519	382	N/A	N/A	N/A	742	629	525	378	N/A	
Fund Star Rating			N/A	****	****	***	N/A	N/A	N/A	N/A	****	****	***	N/A	
TIAA-CREF SOCIAL CHOICE EQUITY FUND (TICHX)	\$4,405.90	22	7.78%	13.25%	9.50%	15.41%	3.34%	8.46%	17.76%	11.20%	14.13%	10.15%	14.57%	6.00%	7/1/1999
Gross Expense Ratio		22													12/4/2015
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	6.32%	
Fund vs. Russell 3000 Index			-99	-23	-86	-59	-65	-76	-84	-148	-61	-105	-72	-32	
PG: Large Blend M*star Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A	
Fund vs. Large Blend M*star Category			88	141	59	87	N/A	N/A	N/A	32	104	44	68	N/A	
PG: Fund % Rank in Large Blend M*star Category			50%	27%	47%	32%	N/A	N/A	N/A	56%	39%	48%	40%	N/A	
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	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)	\$185.00	41	7.23%	12.86%	N/A	N/A	3.21%	8.03%	17.24%	10.50%	13.67%	N/A	N/A	11.01%	8/7/2015
Gross Expense Ratio		41													12/4/2015
BM: Russell 3000 Index			8.77%	13.48%			3.99%	9.22%	18.60%	12.68%	14.74%			11.63%	
Fund vs. Russell 3000 Index			-154	-62			-78	-119	-136	-218	-107			-62	
PG: Large Blend M*star Category			6.90%	11.84%			N/A	N/A	N/A	10.88%	13.09%			N/A	
Fund vs. Large Blend M*star Category			33	102			N/A	N/A	N/A	-38	58			N/A	
PG: Fund % Rank in Large Blend M*star Category			56%	38%			N/A	N/A	N/A	62%	48%			N/A	
PG: # of funds in Large Blend M*star Category			1412	1218			N/A	N/A	N/A	1407	1203			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 April 30, 2019
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		
			04/01/18 to 03/31/19	04/01/16 to 03/31/16	04/01/14 to 03/31/14	04/01/09 to 03/31/09	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inception to 04/30/19	Inc. Date	
International Equities																
TIAA-CREF EMERGING MARKETS EQUITY FUND (TEMHX)	\$1,708.40	100	-8.57%	12.56%	3.39%	N/A	2.04%	3.23%	16.75%	-4.93%	13.06%	3.84%	N/A	3.36%	8/31/2010	
Gross Expense Ratio 100																
BM: MS Emerging Market																
Fund vs. MS Emerging Market -7.41% 10.68% 3.68% 2.11% 3.19% 12.23% -5.04% 11.25% 4.04% 3.65%																
PG: Diversified Emerging Mkts M*star Category -116 188 -29 -7 4 452 11 181 -20 -29																
Fund vs. Diversified Emerging Mkts M*star Category -9.31% 9.11% 2.61% N/A N/A N/A -5.91% 9.36% 2.88% N/A																
PG: Fund % Rank in Diversified Emerging Mkts M*star Category 74 345 78 N/A N/A N/A 98 370 96 N/A																
PG: # of funds in Diversified Emerging Mkts M*star Category 47% 10% 40% N/A N/A N/A 41% 9% 36% N/A																
Fund Star Rating 833 707 553 N/A N/A N/A 834 712 553 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)	\$2,385.80	34	-8.17%	10.56%	3.56%	N/A	2.08%	2.73%	12.36%	-4.78%	11.15%	3.90%	N/A	3.29%	8/31/2010	
Gross Expense Ratio 34																
BM: MS Emerging Market																
Fund vs. MS Emerging Market -7.41% 10.68% 3.68% 2.11% 3.19% 12.23% -5.04% 11.25% 4.04% 3.65%																
PG: Diversified Emerging Mkts M*star Category -76 -12 -12 -3 -46 13 26 -10 -14 -36																
Fund vs. Diversified Emerging Mkts M*star Category -9.31% 9.11% 2.61% N/A N/A N/A -5.91% 9.36% 2.88% N/A																
PG: Fund % Rank in Diversified Emerging Mkts M*star Category 114 145 95 N/A N/A N/A 113 179 102 N/A																
PG: # of funds in Diversified Emerging Mkts M*star Category 40% 30% 33% N/A N/A N/A 40% 28% 33% N/A																
Fund Star Rating 833 707 553 N/A N/A N/A 834 712 553 N/A																
Fund Star Rating N/A **** ** N/A N/A N/A N/A **** ** N/A																
TIAA-CREF INTERNATIONAL EQUITY FUND (TIEHX)	\$4,860.80	61	-15.01%	4.13%	-0.23%	9.03%	4.52%	5.91%	14.77%	-12.44%	4.76%	0.98%	8.10%	4.50%	7/1/1999	
Gross Expense Ratio 61																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index -3.71% 7.27% 2.33% 8.96% 2.81% 6.10% 13.07% -3.22% 7.24% 2.60% 7.95% 4.00%																
PG: Foreign Large Blend M*star Category -1130 -314 -256 7 171 -19 170 -922 -248 -162 15 50																
Fund vs. Foreign Large Blend M*star Category -5.01% 6.62% 2.10% 8.43% N/A N/A N/A -3.71% 7.00% 2.52% 7.56% N/A																
PG: Fund % Rank in Foreign Large Blend M*star Category -1000 -249 -233 60 N/A N/A N/A -873 -224 -154 54 N/A																
PG: # of funds in Foreign Large Blend M*star Category 100% 91% 94% 30% N/A N/A N/A 100% 91% 90% 31% N/A																
Fund Star Rating 753 644 514 384 N/A N/A N/A 730 618 496 365 N/A																
Fund Star Rating N/A * * * ** N/A N/A N/A N/A * * * ** N/A																
TIAA-CREF INTERNATIONAL EQUITY INDEX FUND (TCHX)	\$11,725.70	20	-4.01%	7.46%	2.41%	9.04%	3.01%	6.32%	13.30%	-2.58%	7.70%	2.69%	8.13%	7.58%	10/1/2002	
Gross Expense Ratio 20																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index -3.71% 7.27% 2.33% 8.96% 2.81% 6.10% 13.07% -3.22% 7.24% 2.60% 7.95% 7.54%																
PG: Foreign Large Blend M*star Category -20 32 23 64 46 9 18 4																
Fund vs. Foreign Large Blend M*star Category -5.01% 6.62% 2.10% 8.43% N/A N/A N/A -3.71% 7.00% 2.52% 7.56% N/A																
PG: Fund % Rank in Foreign Large Blend M*star Category 100 84 31 61 N/A N/A N/A 113 70 17 57 N/A																
PG: # of funds in Foreign Large Blend M*star Category 32% 28% 39% 29% N/A N/A N/A 28% 31% 42% 30% N/A																
Fund Star Rating 753 644 514 384 N/A N/A N/A 730 618 496 365 N/A																
Fund Star Rating N/A **** ** **** N/A N/A N/A N/A **** ** **** N/A																
TIAA-CREF INTERNATIONAL OPPORTUNITIES FUND (TIOHX)	\$1,769.70	71	-5.63%	9.62%	3.75%	N/A	4.21%	8.07%	20.37%	-1.15%	10.44%	4.99%	N/A	5.70%	4/12/2013	
Gross Expense Ratio 71																
BM: MSCI AC World Index ex USA																
Fund vs. MSCI AC World Index ex USA -4.22% 8.09% 2.57% 2.64% 5.27% 13.22% -3.23% 8.09% 2.83% 4.33%																
PG: Foreign Large Growth M*star Category -141 153 118 157 280 715 208 235 216 137																
Fund vs. Foreign Large Growth M*star Category -3.20% 8.05% 3.86% N/A N/A N/A -0.11% 8.75% 4.44% N/A																
PG: Fund % Rank in Foreign Large Growth M*star Category -243 157 -11 N/A N/A N/A -104 169 55 N/A																
PG: # of funds in Foreign Large Growth M*star Category 76% 26% 48% N/A N/A N/A 61% 24% 35% N/A																
Fund Star Rating 442 373 314 N/A N/A N/A 470 401 341 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]	\$1,886.00	49	-6.01%	6.42%	1.96%	9.16%	2.69%	5.52%	13.79%	-4.65%	6.68%	2.23%	8.21%	1.20%	11/30/2007	
Gross Expense Ratio 49																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index -3.71% 7.27% 2.33% 8.96% 2.81% 6.10% 13.07% -3.22% 7.24% 2.60% 7.95% 1.27%																
PG: Foreign Large Blend M*star Category -230 -85 -37 20 -12 -58 72 -143 -56 -37 26 -7																
Fund vs. Foreign Large Blend M*star Category -5.01% 6.62% 2.10% 8.43% N/A N/A N/A -3.71% 7.00% 2.52% 7.56% N/A																
PG: Fund % Rank in Foreign Large Blend M*star Category -100 -20 -14 73 N/A N/A N/A -94 -32 -29 65 N/A																
PG: # of funds in Foreign Large Blend M*star Category 64% 62% 57% 26% N/A N/A N/A 67% 62% 64% 29% N/A																
Fund Star Rating 753 644 514 384 N/A N/A N/A 730 618 496 365 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]	\$952.50	80	-14.39%	N/A	N/A	N/A	1.20%	1.10%	11.38%	-13.43%	N/A	N/A	N/A	5.65%	12/9/2016	
Gross Expense Ratio 80																
BM: MSCI ACWI ex-US Small Cap Index																
Fund vs. MSCI ACWI ex-US Small Cap Index -9.49% 2.21% 4.51% 12.70% -8.54% 8.72%																
PG: Foreign Small/Mid Value M*star Category -490 -341 -132 -489 -307																
Fund vs. Foreign Small/Mid Value M*star Category -10.92% N/A N/A N/A -10.13% N/A																
PG: Fund % Rank in Foreign Small/Mid Value M*star Category -347 N/A N/A N/A -330 N/A																
PG: # of funds in Foreign Small/Mid Value M*star Category 76% N/A N/A N/A 75% N/A																
Fund Star Rating 56 N/A N/A N/A 45 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)	\$149.20	49	-4.52%	6.91%	N/A	N/A	3.48%	6.57%	13.47%	-2.77%	7.36%	N/A	N/A	3.93%	8/7/2015	
Gross Expense Ratio 107																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index -3.71% 7.27% 2.33% 8.96% 2.81% 6.10% 13.07% -3.22% 7.24% 3.57%																
PG: Foreign Large Blend M*star Category -81 -36 45 12 36																
Fund vs. Foreign Large Blend M*star Category -5.01% 6.62% N/A N/A N/A -3.71% 7.00% N/A																
PG: Fund % Rank in Foreign Large Blend M*star Category 49 29 N/A N/A N/A 94 36 N/A																
PG: # of funds in Foreign Large Blend M*star Category 42% 47% N/A N/A N/A 33% 42% N/A																
Fund Star Rating 753 644 N/A N/A N/A 730 618 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 April 30, 2019
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		
Fixed Income	04/30/19		04/01/18 to 03/31/19	04/01/16 to 03/31/16	04/01/14 to 03/31/14	04/01/09 to 03/31/09	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inception to 04/30/19		
TIAA-CREF 5-15 Year LADDERED TAX-EXEMPT BOND FUND (TIXHX) ^[17]	\$270.20	38	5.58%	2.45%	3.22%	4.16%	0.21%	2.39%	3.30%	6.20%	2.24%	3.00%	3.97%	3.94%	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)	\$6,233.70	38	4.37%	2.79%	3.18%	4.40%	0.16%	2.17%	3.56%	5.30%	2.57%	3.04%	4.36%	5.00%	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 Core-Plus Bond M*star Category																
Fund vs. Intermediate Core-Plus Bond M*star Category																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category																
PG: # of funds in Intermediate Core-Plus Bond M*star Category																
Fund Star Rating																
TIAA-CREF BOND INDEX FUND (TBIAX)	\$14,248.50	20	4.33%	1.76%	2.58%	N/A	-0.05%	1.82%	2.83%	5.15%	1.62%	2.40%	N/A	3.18%	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 Core Bond M*star Category																
Fund vs. Intermediate Core Bond M*star Category																
PG: Fund % Rank in Intermediate Core Bond M*star Category																
PG: # of funds in Intermediate Core Bond M*star Category																
Fund Star Rating																
TIAA-CREF BOND PLUS FUND (TCBHX)	\$4,310.50	37	4.51%	3.15%	3.34%	5.19%	0.18%	2.11%	3.72%	5.33%	2.93%	3.21%	5.09%	4.53%	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 Core-Plus Bond M*star Category																
Fund vs. Intermediate Core-Plus Bond M*star Category																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category																
PG: # of funds in Intermediate Core-Plus Bond M*star Category																
Fund Star Rating																
TIAA-CREF EMERGING MARKETS DEBT FUND (TEDHX)	\$504.70	71	1.52%	7.44%	N/A	N/A	0.72%	2.98%	7.96%	3.59%	6.83%	N/A	N/A	4.92%	9/26/2014	
Gross Expense Ratio 71																
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 GREEN BOND (TGRKX)	\$27.10	53	N/A	N/A	N/A	N/A	0.38%	2.61%	3.59%	N/A	N/A	N/A	N/A	5.05%	11/16/2018	
Gross Expense Ratio 112																
BM: Bloomberg Barclays MSCI US Green Bond Index																
Fund vs. Bloomberg Barclays MSCI US Green Bond Index																
PG: Intermediate Core-Plus Bond M*star Category																
Fund vs. Intermediate Core-Plus Bond M*star Category																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category																
PG: # of funds in Intermediate Core-Plus Bond M*star Category																
Fund Star Rating																
TIAA-CREF HIGH YIELD BOND (TIHHX)	\$3,985.40	46	6.34%	7.92%	4.34%	9.81%	1.72%	4.57%	10.09%	7.70%	7.26%	4.58%	9.04%	6.95%	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)	\$3,070.00	41	2.52%	1.24%	1.40%	3.00%	0.35%	1.71%	2.91%	3.07%	1.33%	1.21%	3.22%	3.85%	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																

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
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FOR PERIOD ENDING April 30, 2019
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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		
			04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inc. Date		
TIAA-CREF INTERNATIONAL BOND FUND (TIBNX)^[4]	\$388.70	75	3.39%	N/A	N/A	N/A	0.20%	2.26%	4.08%	4.12%	N/A	N/A	N/A	2.50%	8/5/2016	
Gross Expense Ratio 80																
BM: Bloomberg Barclays Global Aggregate ex-USD Index (Hedged) 5.23%																
Fund vs. Bloomberg Barclays Global Aggregate ex-USD Index (Hedged) -184																
PG: World Bond-USD Hedged M*star Category 0.22%																
Fund vs. World Bond-USD Hedged M*star Category 317																
PG: Fund % Rank in World Bond-USD Hedged M*star Category 32%																
PG: # of funds in World Bond-USD Hedged M*star Category 308																
Fund Star Rating N/A																
TIAA-CREF SHORT DURATION IMPACT BOND (TSDHX)	\$27.10	43	N/A	N/A	N/A	N/A	0.45%	1.58%	2.13%	N/A	N/A	N/A	N/A	2.39%	11/16/2018	
Gross Expense Ratio 95																
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index 0.23%																
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index 22																
PG: Short-Term Bond M*star Category N/A																
Fund vs. Short-Term Bond M*star Category N/A																
PG: Fund % Rank in Short-Term Bond M*star Category N/A																
PG: # of funds in Short-Term Bond M*star Category N/A																
Fund Star Rating N/A																
TIAA-CREF SHORT-TERM BOND FUND (TCTHX)	\$1,964.50	35	3.00%	1.98%	1.63%	2.56%	0.32%	1.16%	1.77%	3.33%	1.98%	1.65%	2.52%	2.89%	3/31/2006	
Gross Expense Ratio 35																
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index 3.03%																
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index -3																
PG: Short-Term Bond M*star Category 2.97%																
Fund vs. Short-Term Bond M*star Category 3																
PG: Fund % Rank in Short-Term Bond M*star Category 53%																
PG: # of funds in Short-Term Bond M*star Category 531																
Fund Star Rating N/A																
TIAA-CREF SHORT-TERM BOND INDEX FUND (TTBHX)	\$508.70	27	2.78%	1.05%	N/A	N/A	0.19%	0.97%	1.36%	3.14%	1.09%	N/A	N/A	1.11%	8/7/2015	
Gross Expense Ratio 38																
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index 3.03%																
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index -25																
PG: Short-Term Bond M*star Category 2.97%																
Fund vs. Short-Term Bond M*star Category -19																
PG: Fund % Rank in Short-Term Bond M*star Category 69%																
PG: # of funds in Short-Term Bond M*star Category 531																
Fund Star Rating N/A																
TIAA-CREF SOCIAL CHOICE BOND FUND (TSBHX)	\$3,390.60	44	4.39%	2.71%	3.56%	N/A	0.04%	2.15%	3.02%	5.23%	2.56%	3.35%	N/A	3.11%	9/21/2012	
Gross Expense Ratio 44																
BM: Bloomberg Barclays U.S. Aggregate Bond Index 4.48%																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index -9																
PG: Intermediate Core-Plus Bond M*star Category 3.98%																
Fund vs. Intermediate Core-Plus Bond M*star Category 41																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category 28%																
PG: # of funds in Intermediate Core-Plus Bond M*star Category 1024																
Fund Star Rating N/A																
Multi-Asset																
TIAA-CREF LIFECYCLE 2010 FUND (TCLHX)^[6]	\$1,210.20	45	3.13%	6.69%	4.88%	8.69%	1.52%	4.23%	8.62%	4.88%	6.90%	5.15%	8.20%	5.64%	10/15/2004	
Gross Expense Ratio 57																
BM: Lifecycle 2010 Fund Composite Index 4.50%																
Fund vs. Lifecycle 2010 Fund Composite Index -137																
BM: S&P Target Date 2010 Index 3.81%																
Fund vs. S&P Target Date 2010 Index -68																
PG: Target-Date 2000-2010 M*star Category 3.36%																
Fund vs. Target-Date 2000-2010 M*star Category -23																
PG: Fund % Rank in Target-Date 2000-2010 M*star Category 61%																
PG: # of funds in Target-Date 2000-2010 M*star Category 138																
Fund Star Rating N/A																
TIAA-CREF LIFECYCLE 2015 FUND (TCNHX)^[6]	\$1,869.00	46	3.03%	7.16%	5.16%	9.37%	1.69%	4.44%	9.29%	4.87%	7.42%	5.49%	8.79%	5.87%	10/15/2004	
Gross Expense Ratio 58																
BM: Lifecycle 2015 Fund Composite Index 4.57%																
Fund vs. Lifecycle 2015 Fund Composite Index -154																
BM: S&P Target Date 2015 Index 3.90%																
Fund vs. S&P Target Date 2015 Index -87																
PG: Target-Date 2015 M*star Category 3.48%																
Fund vs. Target-Date 2015 M*star Category -45																
PG: Fund % Rank in Target-Date 2015 M*star Category 65%																
PG: # of funds in Target-Date 2015 M*star Category 139																
Fund Star Rating N/A																
TIAA-CREF LIFECYCLE 2020 FUND (TCWHX)^[7]	\$3,848.00	47	2.90%	7.80%	5.51%	10.14%	1.94%	4.94%	10.28%	5.00%	8.12%	5.92%	9.50%	6.08%	10/15/2004	
Gross Expense Ratio 58																
BM: Lifecycle 2020 Fund Composite Index 4.65%																
Fund vs. Lifecycle 2020 Fund Composite Index -175																
BM: S&P Target Date 2020 Index 3.94%																
Fund vs. S&P Target Date 2020 Index -104																
PG: Target-Date 2020 M*star Category 3.38%																
Fund vs. Target-Date 2020 M*star Category -48																
PG: Fund % Rank in Target-Date 2020 M*star Category 70%																
PG: # of funds in Target-Date 2020 M*star Category 251																
Fund Star Rating N/A																

INVESTMENT PERFORMANCE SUMMARY

TIAA-CREF FUNDS

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FOR PERIOD ENDING April 30, 2019
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FUND	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) ^[2]	Previous Quarter-End Returns				Current Month-End Returns							10/15/2004 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		Since Inception
TIAA-CREF LIFECYCLE 2025 FUND (TCQHX)^[7]	\$4,619.10	49	2.71%	8.54%	5.88%	10.92%	2.20%	5.37%	11.58%	4.97%	8.96%	6.38%	10.21%	6.30%	10/15/2004
Gross Expense Ratio		60													12/4/2015
BM: Lifecycle 2025 Fund Composite Index			4.71%	8.28%	6.15%	10.95%	2.17%	5.51%	11.22%	6.77%	8.73%	6.48%	10.28%	6.49%	
Fund vs. Lifecycle 2025 Fund Composite Index			-200	26	-27	-3	3	-14	36	-180	23	-10	-7	-19	
BM: S&P Target Date 2025 Index			3.90%	7.74%	5.66%	10.32%	2.08%	5.06%	10.62%	5.69%	8.22%	5.98%	9.76%	6.51%	
Fund vs. S&P Target Date 2025 Index			-119	80	22	60	12	31	96	-72	74	40	45	-21	
PG: Target-Date 2025 Mstar Category			3.38%	7.51%	5.09%	10.25%	N/A	N/A	N/A	5.35%	7.84%	5.43%	9.53%	N/A	
Fund vs. Target-Date 2025 Mstar Category			-67	103	79	67	N/A	N/A	N/A	-38	112	95	68	N/A	
PG: Fund % Rank in Target-Date 2025 Mstar Category			79%	10%	14%	28%	N/A	N/A	N/A	66%	9%	10%	21%	N/A	
PG: # of funds in Target-Date 2025 Mstar Category			227	187	147	74	N/A	N/A	N/A	229	188	151	74	N/A	
Fund Star Rating			N/A	*****	****	****	N/A	N/A	N/A	N/A	*****	*****	****	N/A	
TIAA-CREF LIFECYCLE 2030 FUND (TCHHX)^[7]	\$4,601.90	50	2.43%	9.28%	6.25%	11.65%	2.50%	5.88%	12.86%	4.89%	9.79%	6.82%	10.88%	6.46%	10/15/2004
Gross Expense Ratio		61													12/4/2015
BM: Lifecycle 2030 Fund Composite Index			4.76%	9.09%	6.61%	11.78%	2.45%	6.02%	12.38%	7.00%	9.61%	7.00%	11.04%	6.73%	
Fund vs. Lifecycle 2030 Fund Composite Index			-233	19	-36	-13	5	-14	48	-211	18	-18	-16	-27	
BM: S&P Target Date 2030 Index			3.82%	8.44%	6.05%	11.04%	2.41%	5.65%	12.03%	5.85%	9.02%	6.44%	10.41%	6.79%	
Fund vs. S&P Target Date 2030 Index			-139	84	20	61	9	23	83	-96	77	38	47	-33	
PG: Target-Date 2030 Mstar Category			3.31%	8.34%	5.56%	10.79%	N/A	N/A	N/A	5.43%	8.73%	5.97%	10.02%	N/A	
Fund vs. Target-Date 2030 Mstar Category			-88	94	69	86	N/A	N/A	N/A	-54	106	85	86	N/A	
PG: Fund % Rank in Target-Date 2030 Mstar Category			81%	18%	21%	20%	N/A	N/A	N/A	70%	16%	17%	20%	N/A	
PG: # of funds in Target-Date 2030 Mstar Category			240	194	156	96	N/A	N/A	N/A	240	201	159	96	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LIFECYCLE 2035 FUND (TCYHX)^[7]	\$4,659.40	51	2.17%	9.98%	6.58%	12.27%	2.86%	6.53%	14.10%	4.89%	10.59%	7.24%	11.49%	6.78%	10/15/2004
Gross Expense Ratio		62													12/4/2015
BM: Lifecycle 2035 Fund Composite Index			4.77%	9.89%	7.01%	12.51%	2.72%	6.53%	13.54%	7.19%	10.49%	7.48%	11.74%	7.10%	
Fund vs. Lifecycle 2035 Fund Composite Index			-260	9	-43	-24	14	0	56	-230	10	-24	-25	-32	
BM: S&P Target Date 2035 Index			3.66%	9.09%	6.41%	11.65%	2.71%	6.16%	13.26%	5.87%	9.77%	6.86%	10.97%	7.02%	
Fund vs. S&P Target Date 2035 Index			-149	89	17	62	15	37	84	-98	82	38	52	-24	
PG: Target-Date 2035 Mstar Category			3.17%	9.13%	5.95%	11.53%	N/A	N/A	N/A	5.64%	9.68%	6.45%	10.74%	N/A	
Fund vs. Target-Date 2035 Mstar Category			-100	85	63	74	N/A	N/A	N/A	-75	91	79	75	N/A	
PG: Fund % Rank in Target-Date 2035 Mstar Category			86%	16%	23%	22%	N/A	N/A	N/A	78%	16%	17%	19%	N/A	
PG: # of funds in Target-Date 2035 Mstar Category			222	182	142	69	N/A	N/A	N/A	224	183	146	69	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LIFECYCLE 2040 FUND (TCZHX)^[7]	\$5,584.80	52	1.89%	10.66%	6.87%	12.57%	3.16%	7.06%	15.45%	4.81%	11.38%	7.62%	11.81%	7.14%	10/15/2004
Gross Expense Ratio		63													12/4/2015
BM: Lifecycle 2040 Fund Composite Index			4.72%	10.67%	7.40%	12.87%	3.00%	7.02%	14.68%	7.31%	11.35%	7.92%	12.13%	7.48%	
Fund vs. Lifecycle 2040 Fund Composite Index			-283	-1	-53	-30	16	4	77	-250	3	-30	-32	-34	
BM: S&P Target Date 2040 Index			3.59%	9.56%	6.66%	12.05%	2.89%	6.47%	14.03%	5.91%	10.29%	7.15%	11.35%	7.20%	
Fund vs. S&P Target Date 2040 Index			-170	110	21	52	27	59	142	-110	109	47	46	-6	
PG: Target-Date 2040 Mstar Category			3.04%	9.54%	6.18%	11.71%	N/A	N/A	N/A	5.56%	10.12%	6.72%	10.89%	N/A	
Fund vs. Target-Date 2040 Mstar Category			-115	112	69	86	N/A	N/A	N/A	-75	126	90	92	N/A	
PG: Fund % Rank in Target-Date 2040 Mstar Category			83%	10%	22%	17%	N/A	N/A	N/A	75%	9%	17%	21%	N/A	
PG: # of funds in Target-Date 2040 Mstar Category			240	194	156	96	N/A	N/A	N/A	240	201	159	96	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LIFECYCLE 2045 FUND (TTFHX)^[7]	\$3,156.00	53	1.64%	10.93%	7.02%	12.60%	3.36%	7.40%	16.30%	4.72%	11.72%	7.81%	11.89%	5.63%	11/30/2007
Gross Expense Ratio		64													12/4/2015
BM: Lifecycle 2045 Fund Composite Index			4.65%	11.00%	7.60%	12.97%	3.23%	7.40%	15.55%	7.40%	11.76%	8.17%	12.26%	6.32%	
Fund vs. Lifecycle 2045 Fund Composite Index			-301	-7	-58	-37	13	0	75	-268	-4	-36	-37	-69	
BM: S&P Target Date 2045 Index			3.46%	9.85%	6.81%	12.34%	2.99%	6.62%	14.41%	5.83%	10.61%	7.32%	11.59%	5.68%	
Fund vs. S&P Target Date 2045 Index			-182	108	21	26	37	78	189	-111	111	49	30	-5	
PG: Target-Date 2045 Mstar Category			2.94%	9.92%	6.35%	12.09%	N/A	N/A	N/A	5.74%	10.61%	6.94%	11.28%	N/A	
Fund vs. Target-Date 2045 Mstar Category			-130	101	67	51	N/A	N/A	N/A	-102	111	87	61	N/A	
PG: Fund % Rank in Target-Date 2045 Mstar Category			88%	8%	14%	11%	N/A	N/A	N/A	83%	6%	6%	10%	N/A	
PG: # of funds in Target-Date 2045 Mstar Category			222	182	142	68	N/A	N/A	N/A	224	183	146	68	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LIFECYCLE 2050 FUND (TFTHX)^[7]	\$2,113.00	53	1.59%	11.02%	7.08%	12.65%	3.42%	7.45%	16.51%	4.73%	11.84%	7.89%	11.95%	5.64%	11/30/2007
Gross Expense Ratio		65													12/4/2015
BM: Lifecycle 2050 Fund Composite Index			4.64%	11.13%	7.68%	13.02%	3.27%	7.48%	15.73%	7.42%	11.89%	8.27%	12.30%	6.36%	
Fund vs. Lifecycle 2050 Fund Composite Index			-305	-11	-60	-37	15	-3	78	-269	-5	-38	-35	-72	
BM: S&P Target Date 2050 Index			3.41%	10.12%	6.96%	12.50%	3.05%	6.72%	14.68%	5.82%	10.90%	7.48%	11.76%	5.82%	
Fund vs. S&P Target Date 2050 Index			-182	90	12	15	37	73	183	-109	94	41	19	-18	
PG: Target-Date 2050 Mstar Category			2.87%	9.94%	6.41%	12.02%	N/A	N/A	N/A	5.59%	10.60%	7.00%	11.19%	N/A	
Fund vs. Target-Date 2050 Mstar Category			-128	108	67	63	N/A	N/A	N/A	-86	124	89	76	N/A	
PG: Fund % Rank in Target-Date 2050 Mstar Category			83%	7%	12%	11%	N/A	N/A	N/A	76%	3%	6%	10%	N/A	
PG: # of funds in Target-Date 2050 Mstar Category			240	194	156	78	N/A	N/A	N/A	240	201	159	78	N/A	
Fund Star Rating			N/A	*****	****	****	N/A	N/A	N/A	N/A	*****	****	****	N/A	
TIAA-CREF LIFECYCLE 2055 FUND (TTRHX)^[7]	\$731.50	53	1.53%	11.12%	7.15%	N/A	3.50%	7.57%	16.67%	4.72%	11.95%	7.98%	N/A	8.53%	4/29/2011
Gross Expense Ratio		67													12/4/2015
BM: Lifecycle 2055 Fund Composite Index			4.63%	11.25%	7.77%		3.32%	7.55%	15.91%	7.43%	12.03%	8.36%		9.08%	
Fund vs. Lifecycle 2055 Fund Composite Index			-310	-13	-62		18	2	76	-271	-8	-38		-55	
BM: S&P Target Date 2055 Index			3.37%	10.29%	7.02%		3.06%	6.73%	14.71%	5.77%	11.07%	7.55%		8.37%	
Fund vs. S&P Target Date 2055 Index			-184	83	13		44	84	196	-105	88	43		16	
PG: Target-Date 2055 Mstar Category			2.84%	10.10%	6.49%		N/A	N/A	N/A	5.72%	10.82%	7.10%		N/A	
Fund vs. Target-Date 2055 Mstar Category			-131	102	66		N/A	N/A	N/A	-100	113	88		N/A	
PG: Fund % Rank in Target-Date 2055 Mstar Category			85%	5%	11%		N/A	N/A	N/A	80%	4%	7%		N/A	
PG: # of funds in Target-Date 2055 Mstar Category			222	180	134		N/A	N/A	N/A	224	181	138		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 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 INDEX 2040 FUND (TLZH)^[7]	\$2,962.30	18	4.65%	10.63%	7.27%	N/A	3.04%	7.05%	14.59%	7.50%	11.41%	7.81%	N/A	9.99%	9/30/2009	
Gross Expense Ratio		27													12/4/2015	
BM: Lifecycle Index 2040 Composite Benchmark			4.80%	10.71%	7.45%		3.01%	7.05%	14.60%	7.40%	11.42%	7.98%			10.29%	
Fund vs. Lifecycle Index 2040 Composite Benchmark			-15	-8	-18		3	0	-1	10	-1	-17			-30	
BM: S&P Target Date 2040 Index			3.59%	9.56%	6.66%		2.89%	6.47%	14.03%	5.91%	10.29%	7.15%			9.51%	
Fund vs. S&P Target Date 2040 Index			106	107	61		15	58	56	159	112	66			48	
PG: Target-Date 2040 Mstar Category			3.04%	9.54%	6.18%		N/A	N/A	N/A	5.56%	10.12%	6.72%			N/A	
Fund vs. Target-Date 2040 Mstar Category			161	109	109		N/A	N/A	N/A	194	129	109			N/A	
PG: Fund % Rank in Target-Date 2040 Mstar Category			9%	12%	4%		N/A	N/A	N/A	7%	9%	4%			N/A	
PG: # of funds in Target-Date 2040 Mstar Category			240	194	156		N/A	N/A	N/A	240	201	159			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]	\$1,945.70	18	4.52%	10.96%	7.46%	N/A	3.23%	7.38%	15.43%	7.52%	11.79%	8.03%	N/A	10.11%	9/30/2009	
Gross Expense Ratio		28													12/4/2015	
BM: Lifecycle Index 2045 Composite Benchmark			4.74%	11.04%	7.65%		3.23%	7.43%	15.46%	7.49%	11.83%	8.23%			10.42%	
Fund vs. Lifecycle Index 2045 Composite Benchmark			-22	-8	-19		0	-5	-3	3	-4	-20			-31	
BM: S&P Target Date 2045 Index			3.46%	9.85%	6.81%		2.99%	6.62%	14.41%	5.83%	10.61%	7.32%			9.72%	
Fund vs. S&P Target Date 2045 Index			106	111	65		24	76	102	169	118	71			39	
PG: Target-Date 2045 Mstar Category			2.94%	9.92%	6.35%		N/A	N/A	N/A	5.74%	10.61%	6.94%			N/A	
Fund vs. Target-Date 2045 Mstar Category			158	104	111		N/A	N/A	N/A	178	118	109			N/A	
PG: Fund % Rank in Target-Date 2045 Mstar Category			10%	6%	3%		N/A	N/A	N/A	9%	4%	4%			N/A	
PG: # of funds in Target-Date 2045 Mstar Category			222	182	142		N/A	N/A	N/A	224	183	146			N/A	
Fund Star Rating			N/A	*****	*****		N/A	N/A	N/A	N/A	*****	*****			N/A	
TIAA-CREF LIFECYCLE INDEX 2050 FUND (TLHXX)^[7]	\$1,472.40	18	4.53%	11.08%	7.54%	N/A	3.31%	7.51%	15.60%	7.55%	11.96%	8.13%	N/A	10.16%	9/30/2009	
Gross Expense Ratio		28													12/4/2015	
BM: Lifecycle Index 2050 Composite Benchmark			4.73%	11.17%	7.73%		3.28%	7.51%	15.64%	7.51%	11.97%	8.33%			10.47%	
Fund vs. Lifecycle Index 2050 Composite Benchmark			-20	-9	-19		3	0	-4	4	-1	-20			-31	
BM: S&P Target Date 2050 Index			3.41%	10.12%	6.96%		3.05%	6.72%	14.68%	5.82%	10.90%	7.48%			9.89%	
Fund vs. S&P Target Date 2050 Index			112	96	58		26	79	92	173	106	65			27	
PG: Target-Date 2050 Mstar Category			2.87%	9.94%	6.41%		N/A	N/A	N/A	5.59%	10.60%	7.00%			N/A	
Fund vs. Target-Date 2050 Mstar Category			166	114	113		N/A	N/A	N/A	196	136	113			N/A	
PG: Fund % Rank in Target-Date 2050 Mstar Category			11%	4%	3%		N/A	N/A	N/A	7%	2%	3%			N/A	
PG: # of funds in Target-Date 2050 Mstar Category			240	194	156		N/A	N/A	N/A	240	201	159			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]	\$606.20	18	4.59%	11.24%	7.64%	N/A	3.33%	7.58%	15.77%	7.60%	12.14%	8.25%	N/A	8.86%	4/29/2011	
Gross Expense Ratio		31													12/4/2015	
BM: Lifecycle Index 2055 Composite Benchmark			4.72%	11.29%	7.82%		3.32%	7.58%	15.82%	7.53%	12.10%	8.42%			9.12%	
Fund vs. Lifecycle Index 2055 Composite Benchmark			-13	-5	-18		1	0	-5	7	4	-17			-26	
BM: S&P Target Date 2055 Index			3.37%	10.29%	7.02%		3.06%	6.73%	14.71%	5.77%	11.07%	7.55%			8.37%	
Fund vs. S&P Target Date 2055 Index			122	95	62		27	85	106	183	107	70			49	
PG: Target-Date 2055 Mstar Category			2.84%	10.10%	6.49%		N/A	N/A	N/A	5.72%	10.82%	7.10%			N/A	
Fund vs. Target-Date 2055 Mstar Category			175	114	115		N/A	N/A	N/A	188	132	115			N/A	
PG: Fund % Rank in Target-Date 2055 Mstar Category			7%	2%	4%		N/A	N/A	N/A	8%	2%	4%			N/A	
PG: # of funds in Target-Date 2055 Mstar Category			222	180	134		N/A	N/A	N/A	224	181	138			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]	\$145.80	18	4.62%	11.37%	N/A	N/A	3.37%	7.69%	15.92%	7.62%	12.27%	N/A	N/A	8.40%	9/26/2014	
Gross Expense Ratio		54													12/4/2015	
BM: Lifecycle Index 2060 Composite Benchmark			4.71%	11.41%			3.37%	7.66%	16.00%	7.54%	12.24%				8.56%	
Fund vs. Lifecycle Index 2060 Composite Benchmark			-9	-4			0	3	-8	8	3				-16	
BM: S&P Target Date 2060+ Index			3.50%	10.48%			3.10%	6.82%	14.87%	5.94%	11.27%				7.84%	
Fund vs. S&P Target Date 2060+ Index			112	89			27	87	105	168	100				56	
PG: Target-Date 2060+ Mstar Category			2.99%	10.21%			N/A	N/A	N/A	5.78%	10.94%				N/A	
Fund vs. Target-Date 2060+ Mstar Category			163	116			N/A	N/A	N/A	184	133				N/A	
PG: Fund % Rank in Target-Date 2060+ Mstar Category			9%	2%			N/A	N/A	N/A	8%	1%				N/A	
PG: # of funds in Target-Date 2060+ Mstar Category			206	125			N/A	N/A	N/A	212	125				N/A	
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****				N/A	
TIAA-CREF LIFECYCLE INDEX RETIREMENT INCOME FUND (TLHX)^[5]	\$369.50	18	4.44%	5.85%	4.66%	N/A	1.47%	4.18%	8.20%	6.12%	6.18%	4.81%	N/A	6.24%	9/30/2009	
Gross Expense Ratio		38													12/4/2015	
BM: Lifecycle Index Retirement Income Composite Benchmark			4.50%	5.91%	4.82%		1.51%	4.24%	8.24%	6.10%	6.21%	4.98%			6.55%	
Fund vs. Lifecycle Index Retirement Income Composite Benchmark			-6	-6	-16		-4	-6	-4	2	-3	-17			-31	
BM: S&P Target Date Retirement Income Index			3.72%	4.70%	3.89%		1.20%	3.46%	6.84%	4.95%	4.94%	4.01%			5.31%	
Fund vs. S&P Target Date Retirement Income Index			72	115	77		27	72	136	117	124	80			93	
PG: Target-Date Retirement Mstar Category			3.44%	4.79%	3.45%		N/A	N/A	N/A	4.63%	4.87%	3.58%			N/A	
Fund vs. Target-Date Retirement Mstar Category			100	106	121		N/A	N/A	N/A	149	131	123			N/A	
PG: Fund % Rank in Target-Date Retirement Mstar Category			13%	14%	2%		N/A	N/A	N/A	4%	11%	3%			N/A	
PG: # of funds in Target-Date Retirement Mstar Category			185	161	126		N/A	N/A	N/A	185	161	129			N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****			N/A	
TIAA-CREF LIFECYCLE RETIREMENT INCOME FUND (TLRHX)^[6]	\$534.30	45	3.23%	6.36%	4.67%	7.81%	1.50%	4.13%	8.44%	4.88%	6.56%	4.92%	7.47%	4.80%	11/30/2007	
Gross Expense Ratio		60													12/4/2015	
BM: Lifecycle Retirement Income Fund Composite Index			4.46%	5.89%	4.72%	7.73%	1.50%	4.23%	8.28%	6.07%	6.18%	4.89%	7.39%	4.99%		
Fund vs. Lifecycle Retirement Income Fund Composite Index			-123	47	-5	8	0	-10	16	-19	38	3	8	-19		
BM: S&P Target Date Retirement Income Index			3.72%	4.70%	3.89%	6.38%	1.20%	3.46%	6.84%	4.95%	4.94%	4.01%	6.14%	3.92%		
Fund vs. S&P Target Date Retirement Income Index			-49	166	78	143	30	67	160	-7	162	91	133	88		
PG: Target-Date Retirement Mstar Category			3.44%	4.79%	3.45%	6.62%	N/A	N/A	N/A	4.63%	4.87%	3.58%	6.24%	N/A		
Fund vs. Target-Date Retirement Mstar Category			-21	157	122	119	N/A	N/A	N/A	25	169	134	123	N/A		
PG: Fund % Rank in Target-Date Retirement Mstar Category			56%	6%	4%	10%	N/A	N/A	N/A	41%	3%	1%	9%	N/A		
PG: # of funds in Target-Date Retirement Mstar Category			185	161	126	91	N/A	N/A	N/A	185	161	129	91	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 April 30, 2019
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		
	04/01/18 to 04/30/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inception to 04/30/19	Inc. Date			
TIAA-CREF LIFESTYLE AGGRESSIVE GROWTH FUND (TSAHX)^[9]	\$123.60	63	0.99%	11.36%	7.29%	N/A	3.65%	8.14%	17.97%	4.23%	12.27%	8.18%	N/A	11.75%	12/9/2011	
Gross Expense Ratio		83													12/4/2015	
BM: Lifestyle Aggressive Composite Benchmark			4.56%	11.89%	8.01%		3.57%	8.00%	16.94%	7.51%	12.75%	8.67%		11.93%		
Fund vs. Lifestyle Aggressive Composite Benchmark			-357	-53	-72		8	14	103	-328	-48	-49		-18		
BM: Morningstar Aggressive Target Risk TR USD			3.76%	11.37%	7.03%		3.03%	6.91%	15.64%	6.29%	11.88%	7.58%		10.76%		
Fund vs. Morningstar Aggressive Target Risk TR USD			-277	-1	26		62	123	233	-206	39	60		99		
PG: Allocation--85%+ Equity M*star Category			2.64%	9.60%	5.99%		N/A	N/A	N/A	5.09%	10.28%	6.55%		N/A		
Fund vs. Allocation--85%+ Equity M*star Category			-165	176	130		N/A	N/A	N/A	-86	199	163		N/A		
PG: Fund % Rank in Allocation--85%+ Equity M*star Category			76%	8%	16%		N/A	N/A	N/A	61%	11%	12%		N/A		
PG: # of funds in Allocation--85%+ Equity M*star Category			186	165	144		N/A	N/A	N/A	198	175	157		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE CONSERVATIVE FUND (TLSHX)^[8]	\$234.20	54	2.77%	6.19%	4.62%	N/A	1.62%	4.36%	8.98%	4.52%	6.43%	4.94%	N/A	6.55%	12/9/2011	
Gross Expense Ratio		64													12/4/2015	
BM: Lifestyle Conservative Composite Benchmark			4.50%	5.87%	4.67%		1.48%	4.14%	8.12%	6.08%	6.15%	4.87%		6.08%		
Fund vs. Lifestyle Conservative Composite Benchmark			-173	32	-5		14	22	86	-156	28	7		47		
BM: Morningstar Moderately Conservative Target Risk TR USD			4.62%	6.16%	4.43%		1.33%	3.96%	8.14%	6.18%	6.27%	4.57%		5.97%		
Fund vs. Morningstar Moderately Conservative Target Risk TR USD			-185	3	19		29	40	84	-166	16	37		58		
PG: Allocation--30% to 50% Equity M*star Category			3.03%	5.53%	3.69%		N/A	N/A	N/A	4.46%	5.59%	3.86%		N/A		
Fund vs. Allocation--30% to 50% Equity M*star Category			-26	66	93		N/A	N/A	N/A	6	84	108		N/A		
PG: Fund % Rank in Allocation--30% to 50% Equity M*star Category			62%	25%	17%		N/A	N/A	N/A	55%	22%	16%		N/A		
PG: # of funds in Allocation--30% to 50% Equity M*star Category			558	488	386		N/A	N/A	N/A	555	484	391		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE GROWTH FUND (TSGHX)^[9]	\$168.90	59	1.63%	9.73%	6.52%	N/A	3.01%	6.93%	15.07%	4.41%	10.39%	7.22%	N/A	10.18%	12/9/2011	
Gross Expense Ratio		74													12/4/2015	
BM: Lifestyle Growth Composite Benchmark			4.73%	9.95%	7.05%		2.86%	6.76%	14.07%	7.26%	10.60%	7.54%		10.10%		
Fund vs. Lifestyle Growth Composite Benchmark			-310	-22	-53		15	17	100	-285	-21	-32		8		
BM: Morningstar Moderately Aggressive Target Risk TR USD			4.06%	10.02%	6.33%		2.53%	6.08%	13.51%	6.31%	10.36%	6.75%		9.46%		
Fund vs. Morningstar Moderately Aggressive Target Risk TR USD			-243	-29	19		48	85	156	-190	3	47		72		
PG: Allocation--70% to 85% Equity M*star Category			2.86%	8.38%	5.32%		N/A	N/A	N/A	5.21%	9.02%	5.90%		N/A		
Fund vs. Allocation--70% to 85% Equity M*star Category			-123	135	120		N/A	N/A	N/A	-80	137	132		N/A		
PG: Fund % Rank in Allocation--70% to 85% Equity M*star Category			73%	18%	20%		N/A	N/A	N/A	69%	22%	20%		N/A		
PG: # of funds in Allocation--70% to 85% Equity M*star Category			361	326	285		N/A	N/A	N/A	357	322	284		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE INCOME FUND (TSIHX)^[9]	\$73.50	50	3.15%	4.26%	3.43%	N/A	0.91%	2.90%	5.73%	4.28%	4.31%	3.57%	N/A	4.47%	12/9/2011	
Gross Expense Ratio		76													12/4/2015	
BM: Lifestyle Income Composite Benchmark			4.10%	3.74%	3.27%		0.82%	2.76%	5.06%	5.16%	3.87%	3.34%		3.92%		
Fund vs. Lifestyle Income Composite Benchmark			-95	52	16		9	14	67	-88	44	23		55		
BM: Morningstar Conservative Target Risk TR USD			4.30%	4.05%	3.12%		0.67%	2.72%	5.37%	5.44%	4.00%	3.11%		3.89%		
Fund vs. Morningstar Conservative Target Risk TR USD			-115	21	31		24	18	36	-116	31	46		58		
PG: Allocation--15% to 30% Equity M*star Category			2.87%	4.01%	2.81%		N/A	N/A	N/A	3.69%	3.99%	2.88%		N/A		
Fund vs. Allocation--15% to 30% Equity M*star Category			28	25	62		N/A	N/A	N/A	59	32	69		N/A		
PG: Fund % Rank in Allocation--15% to 30% Equity M*star Category			49%	45%	27%		N/A	N/A	N/A	48%	40%	27%		N/A		
PG: # of funds in Allocation--15% to 30% Equity M*star Category			204	183	150		N/A	N/A	N/A	207	185	158		N/A		
Fund Star Rating			N/A	***	****		N/A	N/A	N/A	N/A	***	****		N/A		
TIAA-CREF LIFESTYLE MODERATE FUND (TSMHX)^[9]	\$360.90	57	2.43%	8.09%	5.77%	N/A	2.26%	5.68%	12.16%	4.67%	8.51%	6.24%	N/A	8.59%	12/9/2011	
Gross Expense Ratio		65													12/4/2015	
BM: Lifestyle Moderate Composite Benchmark			4.81%	7.99%	6.04%		2.15%	5.54%	11.23%	6.92%	8.44%	6.36%		8.23%		
Fund vs. Lifestyle Moderate Composite Benchmark			-238	10	-27		11	14	93	-225	7	-12		36		
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%		1.93%	5.01%	10.78%	6.32%	8.29%	5.67%		7.75%		
Fund vs. Morningstar Moderate Target Risk TR USD			-199	4	37		33	67	138	-165	22	57		84		
PG: Allocation--50% to 70% Equity M*star Category			3.90%	7.44%	5.12%		N/A	N/A	N/A	6.02%	7.89%	5.53%		N/A		
Fund vs. Allocation--50% to 70% Equity M*star Category			-147	65	65		N/A	N/A	N/A	-135	62	71		N/A		
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			71%	30%	33%		N/A	N/A	N/A	67%	33%	32%		N/A		
PG: # of funds in Allocation--50% to 70% Equity M*star Category			758	690	601		N/A	N/A	N/A	756	688	605		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 April 30, 2019
 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		
	04/01/18 to 04/30/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Since Inception	Inc. Date			
Money Market																
TIAA-CREF MONEY MARKET FUND (TMHXX)^[10,3,5]	\$1,248.10	23	1.94%	1.09%	0.66%	0.37%	0.18%	0.54%	0.73%	1.99%	1.14%	0.69%	0.39%	1.89%	7/1/1999	
Gross Expense Ratio		23													12/4/2015	
BM: iMoneyNet Money Fund AveragesTM-All Government			1.67%	0.81%	0.49%	0.26%	0.17%	0.49%	0.66%	1.73%	0.87%	0.53%	0.27%	1.93%		
Fund vs. iMoneyNet Money Fund AveragesTM-All Government			27	28	17	11	1	5	7	26	27	16	12	-4		
7-Day Effective Yield as of 04/30/2019: 2.18%																
7-Day Current Yield as of 04/30/2019: 2.18%																
MUTUAL FUND TOTALS^[1]	\$148,080.60															

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 April 30, 2019
 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	
			04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/18 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	to Inception	
														Inc. Date	
U.S. Equities															
TIAA-CREF EQUITY INDEX FUND (TCEPX)^[5]	\$20,736.20	20	8.58%	13.29%	10.17%	15.79%	4.01%	9.18%	18.56%	12.53%	14.55%	11.01%	15.09%	6.17%	7/1/1999
Gross Expense Ratio 20 9/30/2009															
BM: Russell 3000 Index 8.77% 13.48% 10.36% 16.00% 3.99% 9.22% 18.60% 12.68% 14.74% 11.20% 15.29% 6.32%															
Fund vs. Russell 3000 Index -19 -19 -19 -21 2 -4 -4 -15 -19 -20 -15															
PG: Large Blend M*star Category 6.90% 11.84% 8.91% 14.54% N/A N/A N/A 10.88% 13.09% 9.71% 13.89% N/A															
Fund vs. Large Blend M*star Category 168 145 126 125 N/A N/A N/A 165 146 130 120 N/A															
PG: Fund % Rank in Large Blend M*star Category 41% 25% 32% 20% N/A N/A N/A 42% 27% 29% 21% N/A															
PG: # of funds in Large Blend M*star Category 1412 1218 1081 810 N/A N/A N/A 1407 1203 1073 802 N/A															
Fund Star Rating N/A **** **** **** N/A N/A N/A N/A **** **** **** N/A															
TIAA-CREF GROWTH & INCOME FUND (TRGPX)^[5]	\$6,871.30	55	5.71%	13.16%	10.09%	15.14%	4.10%	9.99%	19.32%	9.59%	14.42%	11.15%	14.65%	6.43%	7/1/1999
Gross Expense Ratio 55 9/30/2009															
BM: S&P 500 Index 9.50% 13.51% 10.91% 15.92% 4.05% 9.48% 18.25% 13.49% 14.87% 11.63% 15.32% 5.91%															
Fund vs. S&P 500 Index -379 -35 -82 -78 5 51 107 -390 -45 -48 -67 52															
PG: Large Growth M*star Category 10.71% 15.35% 11.26% 15.94% N/A N/A N/A 14.77% 17.09% 12.46% 15.23% N/A															
Fund vs. Large Growth M*star Category -500 -219 -117 -80 N/A N/A N/A -518 -267 -131 -58 N/A															
PG: Fund % Rank in Large Growth M*star Category 90% 75% 70% 68% N/A N/A N/A 89% 79% 71% 67% N/A															
PG: # of funds in Large Growth M*star Category 1397 1256 1114 805 N/A N/A N/A 1405 1254 1123 817 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]	\$5,731.90	57	13.24%	17.50%	14.04%	17.32%	3.75%	12.15%	22.04%	16.18%	19.24%	15.11%	16.73%	10.34%	3/31/2006
Gross Expense Ratio 57 9/30/2009															
BM: Russell 1000 Growth Index 12.75% 16.53% 13.50% 17.52% 4.52% 11.34% 21.35% 17.43% 18.62% 14.50% 16.96% 10.44%															
Fund vs. Russell 1000 Growth Index 49 97 54 -20 -77 81 69 -125 62 61 -23 -10															
PG: Large Growth M*star Category 10.71% 15.35% 11.26% 15.94% N/A N/A N/A 14.77% 17.09% 12.46% 15.23% N/A															
Fund vs. Large Growth M*star Category 253 215 278 138 N/A N/A N/A 141 215 265 150 N/A															
PG: Fund % Rank in Large Growth M*star Category 22% 24% 13% 21% N/A N/A N/A 39% 26% 17% 20% N/A															
PG: # of funds in Large Growth M*star Category 1397 1256 1114 805 N/A N/A N/A 1405 1254 1123 817 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]	\$6,219.00	55	-1.40%	8.23%	5.48%	13.49%	4.11%	7.81%	16.55%	2.27%	8.81%	6.22%	12.43%	9.06%	10/1/2002
Gross Expense Ratio 55 9/30/2009															
BM: Russell 1000 Value Index 5.67% 10.45% 7.72% 14.52% 3.55% 7.54% 15.90% 9.06% 10.97% 8.27% 13.76% 9.35%															
Fund vs. Russell 1000 Value Index -707 -222 -224 -103 56 27 65 -274 -216 -205 -133 -29															
PG: Large Value M*star Category 4.48% 10.01% 7.20% 13.68% N/A N/A N/A 7.41% 10.78% 7.75% 12.88% N/A															
Fund vs. Large Value M*star Category -588 -178 -172 -19 N/A N/A N/A -514 -197 -153 -45 N/A															
PG: Fund % Rank in Large Value M*star Category 93% 85% 88% 56% N/A N/A N/A 91% 88% 87% 66% N/A															
PG: # of funds in Large Value M*star Category 1229 1096 939 691 N/A N/A N/A 1259 1114 958 699 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]	\$1,551.10	62	9.81%	14.24%	8.59%	16.29%	4.36%	12.79%	27.21%	14.90%	15.79%	10.34%	15.31%	11.68%	10/1/2002
Gross Expense Ratio 62 9/30/2009															
BM: Russell Mid Cap Growth Index 11.51% 15.06% 10.89% 17.60% 4.50% 12.12% 25.00% 17.64% 16.78% 12.20% 16.56% 12.37%															
Fund vs. Russell Mid Cap Growth Index -170 -82 -220 -131 -14 67 221 -274 -99 -186 -125 -69															
PG: Mid-Cap Growth M*star Category 8.04% 14.18% 8.99% 15.70% N/A N/A N/A 13.49% 15.65% 10.59% 14.80% N/A															
Fund vs. Mid-Cap Growth M*star Category 177 6 -40 59 N/A N/A N/A 141 14 -25 51 N/A															
PG: Fund % Rank in Mid-Cap Growth M*star Category 38% 50% 63% 38% N/A N/A N/A 43% 47% 59% 43% N/A															
PG: # of funds in Mid-Cap Growth M*star Category 615 555 495 352 N/A N/A N/A 611 549 488 351 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]	\$3,299.90	57	-0.55%	7.72%	5.52%	14.12%	3.72%	6.32%	18.91%	2.26%	8.64%	6.31%	13.01%	11.08%	10/1/2002
Gross Expense Ratio 57 9/30/2009															
BM: Russell Mid Cap Value Index 2.89% 9.50% 7.22% 16.39% 3.30% 7.12% 18.14% 5.76% 9.91% 7.83% 14.98% 11.29%															
Fund vs. Russell Mid Cap Value Index -344 -178 -170 -227 42 -80 77 -350 -127 -152 -197 -21															
PG: Mid-Cap Value M*star Category 0.66% 8.55% 5.87% 14.46% N/A N/A N/A 3.65% 9.33% 6.75% 13.25% N/A															
Fund vs. Mid-Cap Value M*star Category -121 -83 -35 -34 N/A N/A N/A -139 -69 -44 -24 N/A															
PG: Fund % Rank in Mid-Cap Value M*star Category 62% 72% 60% 61% N/A N/A N/A 65% 72% 63% 64% N/A															
PG: # of funds in Mid-Cap Value M*star Category 417 368 318 225 N/A N/A N/A 405 357 313 216 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]	\$3,168.20	56	1.98%	12.67%	7.92%	15.74%	3.22%	6.45%	18.90%	5.76%	13.74%	9.31%	14.50%	10.76%	10/1/2002
Gross Expense Ratio 56 9/30/2009															
BM: Russell 2000 Index 2.05% 12.92% 7.05% 15.36% 3.40% 6.50% 18.48% 4.61% 13.60% 8.63% 14.10% 10.70%															
Fund vs. Russell 2000 Index -7 -25 87 38 -18 -5 42 115 14 68 40 6															
PG: Small Growth M*star Category 7.70% 15.88% 8.45% 16.24% N/A N/A N/A 11.32% 16.82% 10.34% 15.15% N/A															
Fund vs. Small Growth M*star Category -572 -321 -53 -50 N/A N/A N/A -556 -308 -103 -65 N/A															
PG: Fund % Rank in Small Growth M*star Category 82% 76% 62% 63% N/A N/A N/A 80% 75% 69% 67% N/A															
PG: # of funds in Small Growth M*star Category 679 588 522 392 N/A N/A N/A 679 587 524 393 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]	\$705.40	66	7.69%	N/A	N/A	N/A	3.60%	8.23%	20.88%	10.66%	N/A	N/A	N/A	14.13%	8/5/2016
Gross Expense Ratio 66															
BM: Russell 2500 Index 4.48% 7.50% 19.88% 7.89%															
Fund vs. Russell 2500 Index 10 73 100 277															
PG: Small Blend M*star Category -0.03% N/A N/A N/A 3.23%															
Fund vs. Small Blend M*star Category 772 N/A N/A N/A 743															
PG: Fund % Rank in Small Blend M*star Category 4% N/A N/A N/A 5%															
PG: # of funds in Small Blend M*star Category 738 N/A N/A N/A 742															
Fund Star Rating N/A N/A N/A N/A N/A															

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
PREMIER SHARE CLASS

FOR PERIOD ENDING April 30, 2019
PLEASE REFER TO RISK DISCLOSURES ON PAGE ONE

	Total Portfolio Net Assets (in \$Mill.)	Exp. Ratio (bps) [2]	Previous Quarter-End Returns				Current Month-End Returns					Since Inception to 04/30/19	Inc. Date		
			Avg. Annual Return				Avg. Annual Return								
FUND	04/30/19		1 Year 04/01/18 to 03/31/19	3 Year 04/01/16 to 03/31/19	5 Year 04/01/14 to 03/31/19	10 Year 04/01/09 to 03/31/19	1 Month 04/01/19 to 04/30/19	3 Month 02/01/19 to 04/30/19	YTD 01/01/19 to 04/30/19	1 Year 05/01/18 to 04/30/19	3 Year 05/01/16 to 04/30/19	5 Year 05/01/14 to 04/30/19	10 Year 05/01/09 to 04/30/19		
TIAA-CREF REAL ESTATE SECURITIES FUND (TRRPX)^[5]	\$2,383.00	66	18.72%	8.00%	10.20%	18.60%	0.65%	6.23%	18.00%	18.69%	9.07%	9.77%	15.59%	10.56%	10/1/2002
Gross Expense Ratio		66													9/30/2009
BM: FTSE Nareit All Equity REITs Index			20.46%	7.84%	10.00%	18.80%	-0.23%	4.77%	16.90%	19.56%	8.42%	9.30%	15.61%	10.82%	
Fund vs. FTSE Nareit All Equity REITs Index			-174	16	20	-20	88	146	110	-87	65	47	-2	-26	
PG: Real Estate M*star Category			17.08%	6.00%	8.29%	17.24%	N/A	N/A	N/A	16.22%	6.82%	7.72%	14.32%	N/A	
Fund vs. Real Estate M*star Category			164	200	191	136	N/A	N/A	N/A	247	225	205	127	N/A	
PG: Fund % Rank in Real Estate M*star Category			41%	7%	5%	18%	N/A	N/A	N/A	19%	7%	5%	14%	N/A	
PG: # of funds in Real Estate M*star Category			251	225	198	139	N/A	N/A	N/A	253	225	198	139	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF SOCIAL CHOICE EQUITY FUND (TRPSX)^[5]	\$4,405.90	33	7.70%	13.11%	9.36%	15.25%	3.35%	8.49%	17.76%	11.13%	14.00%	10.01%	14.41%	5.93%	7/1/1999
Gross Expense Ratio		33													9/30/2009
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	6.32%	
Fund vs. Russell 3000 Index			-107	-37	-100	-75	-64	-73	-84	-155	-74	-119	-88	-39	
PG: Large Blend M*star Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A	
Fund vs. Large Blend M*star Category			80	127	45	71	N/A	N/A	N/A	25	91	30	52	N/A	
PG: Fund % Rank in Large Blend M*star Category			51%	32%	49%	38%	N/A	N/A	N/A	56%	41%	51%	45%	N/A	
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	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)	\$185.00	47	7.25%	12.77%	N/A	N/A	3.28%	8.09%	17.29%	10.50%	13.61%	N/A	N/A	10.95%	8/7/2015
Gross Expense Ratio		69													
BM: Russell 3000 Index			8.77%	13.48%			3.99%	9.22%	18.60%	12.68%	14.74%			11.63%	
Fund vs. Russell 3000 Index			-152	-71			-71	-113	-131	-218	-113			-68	
PG: Large Blend M*star Category			6.90%	11.84%			N/A	N/A	N/A	10.88%	13.09%			N/A	
Fund vs. Large Blend M*star Category			35	93			N/A	N/A	N/A	-38	52			N/A	
PG: Fund % Rank in Large Blend M*star Category			55%	41%			N/A	N/A	N/A	62%	48%			N/A	
PG: # of funds in Large Blend M*star Category			1412	1218			N/A	N/A	N/A	1407	1203			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)	\$1,708.40	106	-8.72%	12.37%	3.25%	N/A	2.04%	3.23%	16.73%	-5.09%	12.92%	3.71%	N/A	3.22%	8/31/2010
Gross Expense Ratio		106													
BM: MS Emerging Market			-7.41%	10.68%	3.68%		2.11%	3.19%	12.23%	-5.04%	11.25%	4.04%		3.65%	
Fund vs. MS Emerging Market			-131	169	-43		-7	4	450	-5	167	-33		-43	
PG: Diversified Emerging Mkts M*star Category			-9.31%	9.11%	2.61%		N/A	N/A	N/A	-5.91%	9.36%	2.88%		N/A	
Fund vs. Diversified Emerging Mkts M*star Category			59	326	64		N/A	N/A	N/A	82	356	83		N/A	
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			48%	13%	44%		N/A	N/A	N/A	42%	10%	40%		N/A	
PG: # of funds in Diversified Emerging Mkts M*star Category			833	707	553		N/A	N/A	N/A	834	712	553		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)	\$2,385.80	35	-8.22%	10.48%	3.45%	N/A	2.09%	2.74%	12.41%	-4.82%	11.05%	3.80%	N/A	3.17%	8/31/2010
Gross Expense Ratio		35													
BM: MS Emerging Market			-7.41%	10.68%	3.68%		2.11%	3.19%	12.23%	-5.04%	11.25%	4.04%		3.65%	
Fund vs. MS Emerging Market			-81	-22	-23		-2	-45	18	22	-20	-24		-48	
PG: Diversified Emerging Mkts M*star Category			-9.31%	9.11%	2.61%		N/A	N/A	N/A	-5.91%	9.36%	2.88%		N/A	
Fund vs. Diversified Emerging Mkts M*star Category			109	135	84		N/A	N/A	N/A	109	169	92		N/A	
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			41%	33%	37%		N/A	N/A	N/A	40%	30%	37%		N/A	
PG: # of funds in Diversified Emerging Mkts M*star Category			833	707	553		N/A	N/A	N/A	834	712	553		N/A	
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A	
TIAA-CREF INTERNATIONAL EQUITY FUND (TREPX)^[5]	\$4,860.80	63	-15.02%	4.06%	-0.33%	8.90%	4.53%	5.85%	14.69%	-12.45%	4.70%	0.90%	7.97%	4.44%	7/1/1999
Gross Expense Ratio		63													9/30/2009
BM: Morgan Stanley EAFE Index			-3.71%	7.27%	2.33%	8.96%	2.81%	6.10%	13.07%	-3.22%	7.24%	2.60%	7.95%	4.00%	
Fund vs. Morgan Stanley EAFE Index			-1131	-321	-266	-6	172	-25	162	-923	-254	-170	2	44	
PG: Foreign Large Blend M*star Category			-5.01%	6.62%	2.10%	8.43%	N/A	N/A	N/A	-3.71%	7.00%	2.52%	7.56%	N/A	
Fund vs. Foreign Large Blend M*star Category			-1001	-256	-243	47	N/A	N/A	N/A	-874	-230	-162	41	N/A	
PG: Fund % Rank in Foreign Large Blend M*star Category			100%	92%	95%	32%	N/A	N/A	N/A	100%	91%	91%	37%	N/A	
PG: # of funds in Foreign Large Blend M*star Category			753	644	514	384	N/A	N/A	N/A	730	618	496	365	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]	\$11,725.70	21	-3.96%	7.41%	2.34%	8.93%	3.01%	6.39%	13.31%	-2.58%	7.65%	2.61%	8.02%	7.52%	10/1/2002
Gross Expense Ratio		21													9/30/2009
BM: Morgan Stanley EAFE Index			-3.71%	7.27%	2.33%	8.96%	2.81%	6.10%	13.07%	-3.22%	7.24%	2.60%	7.95%	7.54%	
Fund vs. Morgan Stanley EAFE Index			-29	14	1	-3	20	29	24	64	41	1	7	-2	
PG: Foreign Large Blend M*star Category			-5.01%	6.62%	2.10%	8.43%	N/A	N/A	N/A	-3.71%	7.00%	2.52%	7.56%	N/A	
Fund vs. Foreign Large Blend M*star Category			105	79	24	50	N/A	N/A	N/A	113	65	9	46	N/A	
PG: Fund % Rank in Foreign Large Blend M*star Category			31%	29%	41%	32%	N/A	N/A	N/A	28%	33%	45%	35%	N/A	
PG: # of funds in Foreign Large Blend M*star Category			753	644	514	384	N/A	N/A	N/A	730	618	496	365	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF INTERNATIONAL OPPORTUNITIES FUND (TIOPX)	\$1,769.70	78	-5.69%	9.50%	3.63%	N/A	4.20%	8.05%	20.31%	-1.15%	10.31%	4.87%	N/A	5.57%	4/12/2013
Gross Expense Ratio		78													
BM: MSCI AC World Index ex USA			-4.22%	8.09%	2.57%		2.64%	5.27%	13.22%	-3.23%	8.09%	2.83%		4.33%	
Fund vs. MSCI AC World Index ex USA			-147	141	106		156	278	709	208	222	204		124	
PG: Foreign Large Growth M*star Category			-3.20%	8.05%	3.86%		N/A	N/A	N/A	-0.11%	8.75%	4.44%		N/A	
Fund vs. Foreign Large Growth M*star Category			-249	145	-23		N/A	N/A	N/A	-104	156	43		N/A	
PG: Fund % Rank in Foreign Large Growth M*star Category			76%	26%	50%		N/A	N/A	N/A	61%	26%	36%		N/A	
PG: # of funds in Foreign Large Growth M*star Category			442	373	314		N/A	N/A	N/A	470	401	341		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

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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.	
	04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	04/30/19 to 04/30/19	Date			
TIAA-CREF QUANT INTERNATIONAL SMALL-CAP EQUITY FUND (TPISX)^[4,4]	\$952.50	87	-14.36%	N/A	N/A	N/A	1.19%	0.99%	11.22%	-13.34%	N/A	N/A	N/A	5.64%	12/9/2016	
Gross Expense Ratio																
BM: MSCI ACWI ex-US Small Cap Index																
Fund vs. MSCI ACWI ex-US Small Cap Index																
PG: Foreign Small/Mid Value M*star Category																
Fund vs. Foreign Small/Mid Value M*star Category																
PG: Fund % Rank in Foreign Small/Mid Value M*star Category																
PG: # of funds in Foreign Small/Mid Value M*star Category																
Fund Star Rating																
TIAA-CREF SOCIAL CHOICE INTERNATIONAL EQUITY FUND (TSOPX)	\$149.20	55	-4.65%	6.80%	N/A	N/A	3.48%	6.46%	13.33%	-2.83%	7.24%	N/A	N/A	3.79%	8/7/2015	
Gross Expense Ratio																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index																
PG: Foreign Large Blend M*star Category																
Fund vs. Foreign Large Blend M*star Category																
PG: Fund % Rank in Foreign Large Blend M*star Category																
PG: # of funds in Foreign Large Blend M*star Category																
Fund Star Rating																
Fixed Income																
TIAA-CREF BOND FUND (TIDPX)^[5]	\$6,233.70	45	4.32%	2.67%	3.06%	4.28%	0.06%	2.07%	3.46%	5.06%	2.45%	2.92%	4.23%	4.94%	7/1/1999	
Gross Expense Ratio																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate Core-Plus Bond M*star Category																
Fund vs. Intermediate Core-Plus Bond M*star Category																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category																
PG: # of funds in Intermediate Core-Plus Bond M*star Category																
Fund Star Rating																
TIAA-CREF BOND INDEX FUND (TBIPX)^[5]	\$14,248.50	27	4.39%	1.69%	2.49%	N/A	-0.06%	1.80%	2.91%	5.11%	1.58%	2.31%	N/A	3.05%	9/14/2009	
Gross Expense Ratio																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate Core Bond M*star Category																
Fund vs. Intermediate Core Bond M*star Category																
PG: Fund % Rank in Intermediate Core Bond M*star Category																
PG: # of funds in Intermediate Core Bond M*star Category																
Fund Star Rating																
TIAA-CREF BOND PLUS FUND (TBPPIX)^[5]	\$4,310.50	46	4.41%	3.06%	3.23%	5.05%	0.17%	2.09%	3.69%	5.33%	2.83%	3.08%	4.95%	4.42%	3/31/2006	
Gross Expense Ratio																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate Core-Plus Bond M*star Category																
Fund vs. Intermediate Core-Plus Bond M*star Category																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category																
PG: # of funds in Intermediate Core-Plus Bond M*star Category																
Fund Star Rating																
TIAA-CREF EMERGING MARKETS DEBT FUND (TEDFX)	\$504.70	80	1.36%	7.30%	N/A	N/A	0.62%	2.98%	7.85%	3.33%	6.62%	N/A	N/A	4.73%	9/26/2014	
Gross Expense Ratio																
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 GREEN BOND (TGRLX)	\$27.10	60	N/A	N/A	N/A	N/A	0.37%	2.60%	3.58%	N/A	N/A	N/A	N/A	5.04%	11/16/2018	
Gross Expense Ratio																
BM: Bloomberg Barclays MSCI US Green Bond Index																
Fund vs. Bloomberg Barclays MSCI US Green Bond Index																
PG: Intermediate Core-Plus Bond M*star Category																
Fund vs. Intermediate Core-Plus Bond M*star Category																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category																
PG: # of funds in Intermediate Core-Plus Bond M*star Category																
Fund Star Rating																
TIAA-CREF HIGH YIELD FUND (TIHPX)^[5]	\$3,985.40	51	6.41%	7.89%	4.27%	9.71%	1.72%	4.56%	10.06%	7.66%	7.23%	4.54%	8.94%	6.87%	3/31/2006	
Gross Expense Ratio																
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																

INVESTMENT PERFORMANCE SUMMARY
TIAA-CREF FUNDS
PREMIER SHARE CLASS

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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	
TIAA-CREF INFLATION-LINKED BOND FUND (TIKFX)^[5]	\$3,070.00	41	2.44%	1.16%	1.30%	2.87%	0.36%	1.71%	2.91%	2.98%	1.25%	1.11%	3.09%	3.77%	10/1/2002	
Gross Expense Ratio		41													9/30/2009	
BM: Bloomberg Barclays US TIPS 1-10 Year Index			2.72%	1.53%	1.50%	2.73%	0.43%	1.87%	3.01%	3.30%	1.59%	1.39%	2.82%	3.65%		
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-28	-37	-20	14	-7	-16	-10	-32	-34	-28	27	12		
PG: Inflation-Protected Bond M*star Category			2.21%	1.65%	1.43%	3.01%	N/A	N/A	N/A	2.63%	1.65%	1.26%	3.19%	N/A		
Fund vs. Inflation-Protected Bond M*star Category			23	-49	-13	-14	N/A	N/A	N/A	35	-40	-15	-10	N/A		
PG: Fund % Rank in Inflation-Protected Bond M*star Category			33%	83%	60%	63%	N/A	N/A	N/A	25%	82%	63%	63%	N/A		
PG: # of funds in Inflation-Protected Bond M*star Category			225	200	170	105	N/A	N/A	N/A	227	200	171	105	N/A		
Fund Star Rating			N/A	**	***	***	N/A	N/A	N/A	N/A	**	***	***	N/A		
TIAA-CREF INTERNATIONAL BOND FUND (TIBLX)^[4]	\$388.70	80	3.34%	N/A	N/A	N/A	0.30%	2.35%	4.16%	4.17%	N/A	N/A	N/A	2.46%	8/5/2016	
Gross Expense Ratio		86														
BM: Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			5.23%				0.04%	1.97%	3.00%	5.38%				2.54%		
Fund vs. Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			-189				26	38	116	-121				-8		
PG: World Bond-USD Hedged M*star Category			0.22%				N/A	N/A	N/A	4.52%				N/A		
Fund vs. World Bond-USD Hedged M*star Category			312				N/A	N/A	N/A	-35				N/A		
PG: Fund % Rank in World Bond-USD Hedged M*star Category			32%				N/A	N/A	N/A	64%				N/A		
PG: # of funds in World Bond-USD Hedged M*star Category			308				N/A	N/A	N/A	94				N/A		
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A		
TIAA-CREF SHORT DURATION IMPACT BOND (TSDFX)	\$27.10	50	N/A	N/A	N/A	N/A	0.44%	1.57%	2.12%	N/A	N/A	N/A	N/A	2.38%	11/16/2018	
Gross Expense Ratio		102														
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index							0.23%	1.04%	1.44%					2.32%		
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index							21	53	68					6		
PG: Short-Term Bond M*star Category							N/A	N/A	N/A					N/A		
Fund vs. Short-Term Bond M*star Category							N/A	N/A	N/A					N/A		
PG: Fund % Rank in Short-Term Bond M*star Category							N/A	N/A	N/A					N/A		
PG: # of funds in Short-Term Bond M*star Category							N/A	N/A	N/A					N/A		
Fund Star Rating							N/A	N/A	N/A					N/A		
TIAA-CREF SHORT-TERM BOND FUND (TSSTPX)^[5]	\$1,964.50	42	2.83%	1.83%	1.51%	2.44%	0.32%	1.16%	1.76%	3.27%	1.83%	1.54%	2.40%	2.80%	3/31/2006	
Gross Expense Ratio		42													9/30/2009	
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			3.03%	1.32%	1.22%	1.59%	0.23%	1.04%	1.44%	3.37%	1.35%	1.24%	1.55%	2.46%		
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-20	51	29	85	9	12	32	-10	48	30	85	34		
PG: Short-Term Bond M*star Category			2.97%	1.87%	1.45%	2.70%	N/A	N/A	N/A	3.30%	1.81%	1.45%	2.62%	N/A		
Fund vs. Short-Term Bond M*star Category			-14	-4	6	-26	N/A	N/A	N/A	-3	2	9	-22	N/A		
PG: Fund % Rank in Short-Term Bond M*star Category			66%	46%	48%	58%	N/A	N/A	N/A	57%	44%	44%	57%	N/A		
PG: # of funds in Short-Term Bond M*star Category			531	476	415	266	N/A	N/A	N/A	538	481	419	269	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF SHORT-TERM BOND INDEX FUND (TPSHX)	\$508.70	27	2.77%	0.96%	N/A	N/A	0.19%	0.96%	1.25%	3.02%	1.00%	N/A	N/A	1.02%	8/7/2015	
Gross Expense Ratio		34														
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			3.03%	1.32%			0.23%	1.04%	1.44%	3.37%	1.35%			1.38%		
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-26	-36			-4	-8	-19	-35	-35			-36		
PG: Short-Term Bond M*star Category			2.97%	1.87%			N/A	N/A	N/A	3.30%	1.81%			N/A		
Fund vs. Short-Term Bond M*star Category			-20	-91			N/A	N/A	N/A	-28	-81			N/A		
PG: Fund % Rank in Short-Term Bond M*star Category			69%	89%			N/A	N/A	N/A	72%	89%			N/A		
PG: # of funds in Short-Term Bond M*star Category			531	476			N/A	N/A	N/A	538	481			N/A		
Fund Star Rating			N/A	**			N/A	N/A	N/A	N/A	**			N/A		
TIAA-CREF SOCIAL CHOICE BOND FUND (TSBPX)	\$3,390.60	54	4.28%	2.68%	3.46%	N/A	0.04%	2.13%	2.99%	5.13%	2.49%	3.26%	N/A	3.01%	9/21/2012	
Gross Expense Ratio		54														
BM: Bloomberg Barclays U.S. Aggregate Bond Index			4.48%	2.03%	2.74%		0.03%	1.89%	2.97%	5.29%	1.90%	2.57%		2.13%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-20	65	72		1	24	2	-16	59	69		88		
PG: Intermediate Core-Plus Bond M*star Category			3.98%	2.37%	2.51%		N/A	N/A	N/A	4.87%	2.55%	2.54%		N/A		
Fund vs. Intermediate Core-Plus Bond M*star Category			30	31	95		N/A	N/A	N/A	26	-6	72		N/A		
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category			38%	32%	6%		N/A	N/A	N/A	37%	51%	9%		N/A		
PG: # of funds in Intermediate Core-Plus Bond M*star Category			1024	901	769		N/A	N/A	N/A	628	555	472		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]	\$1,210.20	52	3.08%	6.53%	4.82%	8.71%	1.53%	4.14%	8.65%	4.75%	6.74%	5.10%	8.22%	5.66%	10/15/2004	
Gross Expense Ratio		64													9/30/2009	
BM: Lifecycle 2010 Fund Composite Index			4.50%	6.23%	4.94%	8.57%	1.55%	4.31%	8.49%	6.12%	6.52%	5.13%	8.11%	5.76%		
Fund vs. Lifecycle 2010 Fund Composite Index			-142	30	-12	14	-2	-17	16	-137	22	-3	11	-10		
BM: S&P Target Date 2010 Index			3.81%	5.48%	4.35%	7.50%	1.40%	3.85%	7.69%	5.19%	5.76%	4.52%	7.18%	5.25%		
Fund vs. S&P Target Date 2010 Index			-73	105	47	121	13	29	96	-44	98	58	104	41		
PG: Target-Date 2000-2010 M*star Category			3.36%	5.56%	4.16%	8.16%	N/A	N/A	N/A	4.73%	5.68%	4.32%	7.59%	N/A		
Fund vs. Target-Date 2000-2010 M*star Category			-28	97	66	55	N/A	N/A	N/A	2	106	78	63	N/A		
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			63%	11%	5%	35%	N/A	N/A	N/A	48%	7%	3%	27%	N/A		
PG: # of funds in Target-Date 2000-2010 M*star Category			138	113	92	72	N/A	N/A	N/A	138	113	92	72	N/A		
Fund Star Rating			N/A	****	*****	****	N/A	N/A	N/A	N/A	*****	*****	****	N/A		
TIAA-CREF LIFECYCLE 2015 FUND (TCFPX)^[5,7]	\$1,869.00	53	2.98%	7.01%	5.12%	9.39%	1.69%	4.46%	9.33%	4.83%	7.27%	5.43%	8.82%	5.88%	10/15/2004	
Gross Expense Ratio		65													9/30/2009	
BM: Lifecycle 2015 Fund Composite Index			4.57%	6.75%	5.27%	9.29%	1.71%	4.63%	9.21%	6.32%	7.08%	5.49%	8.75%	6.00%		
Fund vs. Lifecycle 2015 Fund Composite Index			-159	26	-15	10	-2	-17	12	-149	19	-6	7	-12		
BM: S&P Target Date 2015 Index			3.90%	6.25%	4.85%	8.57%	1.59%	4.19%	8.59%	5.38%	6.58%	5.05%	8.16%	5.75%		
Fund vs. S&P Target Date 2015 Index			-92	76	27	82	10	27	74	-55	69	38	66	13		
PG: Target-Date 2015 M*star Category			3.48%	6.16%	4.42%	8.81%	N/A	N/A	N/A	5.08%	6.33%	4.61%	8.21%	N/A		
Fund vs. Target-Date 2015 M*star Category			-50	85	70	58	N/A	N/A	N/A	-25	94	82	61	N/A		
PG: Fund % Rank in Target-Date 2015 M*star Category			72%	17%	11%	29%	N/A	N/A	N/A	63%	16%	7%	24%	N/A		
PG: # of funds in Target-Date 2015 M*star Category			139	112	83	50	N/A	N/A	N/A	136	110	80	50	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 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 2020 FUND (TCWPX)^[5,8]	\$3,848.00	54	2.80%	7.69%	5.47%	10.18%	1.84%	4.85%	10.19%	4.79%	7.97%	5.85%	9.53%	6.09%	10/15/2004	
Gross Expense Ratio		65													9/30/2009	
BM: Lifecycle 2020 Fund Composite Index			4.65%	7.47%	5.68%	10.11%	1.90%	5.01%	10.06%	6.53%	7.84%	5.95%	9.50%	6.23%		
Fund vs. Lifecycle 2020 Fund Composite Index			-185	22	-21	7	-6	-16	13	-174	13	-10	3	-14		
BM: S&P Target Date 2020 Index			3.94%	6.97%	5.27%	9.50%	1.77%	4.52%	9.35%	5.54%	7.35%	5.52%	9.01%	6.15%		
Fund vs. S&P Target Date 2020 Index			-114	72	20	68	7	33	84	-75	62	33	52	-6		
PG: Target-Date 2020 Mstar Category			3.38%	6.57%	4.58%	9.23%	N/A	N/A	N/A	5.03%	6.78%	4.83%	8.57%	N/A		
Fund vs. Target-Date 2020 Mstar Category			-58	112	89	95	N/A	N/A	N/A	-24	119	102	96	N/A		
PG: Fund % Rank in Target-Date 2020 Mstar Category			75%	12%	15%	25%	N/A	N/A	N/A	62%	13%	10%	17%	N/A		
PG: # of funds in Target-Date 2020 Mstar Category			251	204	166	106	N/A	N/A	N/A	251	211	169	106	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]	\$4,619.10	56	2.60%	8.42%	5.87%	10.94%	2.21%	5.39%	11.51%	4.86%	8.84%	6.35%	10.24%	6.31%	10/15/2004	
Gross Expense Ratio		67													9/30/2009	
BM: Lifecycle 2025 Fund Composite Index			4.71%	8.28%	6.15%	10.95%	2.17%	5.51%	11.22%	6.77%	8.73%	6.48%	10.28%	6.49%		
Fund vs. Lifecycle 2025 Fund Composite Index			-211	14	-28	-1	4	-12	29	-191	11	-13	-4	-18		
BM: S&P Target Date 2025 Index			3.90%	7.74%	5.66%	10.32%	2.08%	5.06%	10.62%	5.69%	8.22%	5.98%	9.76%	6.51%		
Fund vs. S&P Target Date 2025 Index			-130	68	21	62	13	33	89	-83	62	37	48	-20		
PG: Target-Date 2025 Mstar Category			3.38%	7.51%	5.09%	10.25%	N/A	N/A	N/A	5.35%	7.84%	5.43%	9.53%	N/A		
Fund vs. Target-Date 2025 Mstar Category			-78	91	78	69	N/A	N/A	N/A	-49	100	92	71	N/A		
PG: Fund % Rank in Target-Date 2025 Mstar Category			84%	17%	18%	28%	N/A	N/A	N/A	71%	14%	11%	20%	N/A		
PG: # of funds in Target-Date 2025 Mstar Category			227	187	147	74	N/A	N/A	N/A	229	188	151	74	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF LIFECYCLE 2030 FUND (TCHPX)^[5,8]	\$4,601.90	57	2.43%	9.16%	6.22%	11.68%	2.51%	5.91%	12.80%	4.90%	9.68%	6.79%	10.91%	6.48%	10/15/2004	
Gross Expense Ratio		68													9/30/2009	
BM: Lifecycle 2030 Fund Composite Index			4.76%	9.09%	6.61%	11.78%	2.45%	6.02%	12.38%	7.00%	9.61%	7.00%	11.04%	6.73%		
Fund vs. Lifecycle 2030 Fund Composite Index			-233	7	-39	-10	6	-11	42	-210	7	-21	-13	-25		
BM: S&P Target Date 2030 Index			3.82%	8.44%	6.05%	11.04%	2.41%	5.65%	12.03%	5.85%	9.02%	6.44%	10.41%	6.79%		
Fund vs. S&P Target Date 2030 Index			-139	72	17	64	10	26	77	-95	66	35	50	-31		
PG: Target-Date 2030 Mstar Category			3.31%	8.34%	5.56%	10.79%	N/A	N/A	N/A	5.43%	8.73%	5.97%	10.02%	N/A		
Fund vs. Target-Date 2030 Mstar Category			-88	82	66	89	N/A	N/A	N/A	-53	95	82	89	N/A		
PG: Fund % Rank in Target-Date 2030 Mstar Category			81%	22%	22%	20%	N/A	N/A	N/A	70%	19%	18%	20%	N/A		
PG: # of funds in Target-Date 2030 Mstar Category			240	194	156	96	N/A	N/A	N/A	240	201	159	96	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]	\$4,659.40	58	2.13%	9.87%	6.55%	12.31%	2.76%	6.44%	14.02%	4.76%	10.45%	7.19%	11.52%	6.80%	10/15/2004	
Gross Expense Ratio		69													9/30/2009	
BM: Lifecycle 2035 Fund Composite Index			4.77%	9.89%	7.01%	12.51%	2.72%	6.53%	13.54%	7.19%	10.49%	7.48%	11.74%	7.10%		
Fund vs. Lifecycle 2035 Fund Composite Index			-264	-2	-46	-20	4	-9	48	-243	-4	-29	-22	-30		
BM: S&P Target Date 2035 Index			3.66%	9.09%	6.41%	11.65%	2.71%	6.16%	13.26%	5.87%	9.77%	6.86%	10.97%	7.02%		
Fund vs. S&P Target Date 2035 Index			-153	78	14	66	5	28	76	-111	68	33	55	-22		
PG: Target-Date 2035 Mstar Category			3.17%	9.13%	5.95%	11.53%	N/A	N/A	N/A	5.84%	9.68%	6.45%	10.74%	N/A		
Fund vs. Target-Date 2035 Mstar Category			-104	74	60	78	N/A	N/A	N/A	-68	77	74	78	N/A		
PG: Fund % Rank in Target-Date 2035 Mstar Category			87%	20%	25%	14%	N/A	N/A	N/A	82%	20%	17%	17%	N/A		
PG: # of funds in Target-Date 2035 Mstar Category			222	182	142	69	N/A	N/A	N/A	224	183	146	69	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]	\$5,584.80	59	1.74%	10.51%	6.81%	12.60%	3.17%	6.97%	15.38%	4.68%	11.23%	7.58%	11.84%	7.16%	10/15/2004	
Gross Expense Ratio		70													9/30/2009	
BM: Lifecycle 2040 Fund Composite Index			4.72%	10.67%	7.40%	12.87%	3.00%	7.02%	14.68%	7.31%	11.35%	7.92%	12.13%	7.48%		
Fund vs. Lifecycle 2040 Fund Composite Index			-298	-16	-59	-27	17	-5	70	-263	-12	-34	-29	-32		
BM: S&P Target Date 2040 Index			3.59%	9.56%	6.66%	12.05%	2.89%	6.47%	14.03%	5.91%	10.29%	7.15%	11.35%	7.20%		
Fund vs. S&P Target Date 2040 Index			-185	95	15	55	28	50	135	-123	94	43	49	-4		
PG: Target-Date 2040 Mstar Category			3.04%	9.54%	6.18%	11.71%	N/A	N/A	N/A	5.56%	10.12%	6.72%	10.89%	N/A		
Fund vs. Target-Date 2040 Mstar Category			-130	97	63	89	N/A	N/A	N/A	-88	111	86	95	N/A		
PG: Fund % Rank in Target-Date 2040 Mstar Category			88%	17%	24%	17%	N/A	N/A	N/A	80%	16%	17%	16%	N/A		
PG: # of funds in Target-Date 2040 Mstar Category			240	194	156	96	N/A	N/A	N/A	240	201	159	96	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]	\$3,156.00	60	1.49%	10.77%	6.96%	12.63%	3.37%	7.34%	16.28%	4.58%	11.57%	7.77%	11.92%	5.66%	11/30/2007	
Gross Expense Ratio		71													9/30/2009	
BM: Lifecycle 2045 Fund Composite Index			4.65%	11.00%	7.60%	12.97%	3.23%	7.40%	15.55%	7.40%	11.76%	8.17%	12.26%	6.32%		
Fund vs. Lifecycle 2045 Fund Composite Index			-316	-23	-64	-34	14	-6	73	-282	-19	-40	-34	-66		
BM: S&P Target Date 2045 Index			3.46%	9.85%	6.81%	12.34%	2.99%	6.62%	14.41%	5.83%	10.61%	7.32%	11.59%	5.68%		
Fund vs. S&P Target Date 2045 Index			-197	92	15	29	38	72	187	-125	96	45	33	-2		
PG: Target-Date 2045 Mstar Category			2.94%	9.92%	6.35%	12.09%	N/A	N/A	N/A	5.74%	10.61%	6.94%	11.28%	N/A		
Fund vs. Target-Date 2045 Mstar Category			-145	85	61	54	N/A	N/A	N/A	-116	96	83	64	N/A		
PG: Fund % Rank in Target-Date 2045 Mstar Category			92%	11%	24%	19%	N/A	N/A	N/A	85%	10%	9%	15%	N/A		
PG: # of funds in Target-Date 2045 Mstar Category			222	182	142	68	N/A	N/A	N/A	224	183	146	68	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]	\$2,113.00	60	1.43%	10.86%	7.04%	12.67%	3.35%	7.39%	16.39%	4.50%	11.64%	7.83%	11.96%	5.65%	11/30/2007	
Gross Expense Ratio		72													9/30/2009	
BM: Lifecycle 2050 Fund Composite Index			4.64%	11.13%	7.68%	13.02%	3.27%	7.48%	15.73%	7.42%	11.89%	8.27%	12.30%	6.36%		
Fund vs. Lifecycle 2050 Fund Composite Index			-321	-27	-64	-35	8	-9	66	-292	-25	-44	-34	-71		
BM: S&P Target Date 2050 Index			3.41%	10.12%	6.96%	12.50%	3.05%	6.72%	14.68%	5.82%	10.90%	7.48%	11.76%	5.82%		
Fund vs. S&P Target Date 2050 Index			-198	74	8	17	30	67	171	-132	74	35	20	-17		
PG: Target-Date 2050 Mstar Category			2.87%	9.94%	6.41%	12.02%	N/A	N/A	N/A	5.59%	10.60%	7.00%	11.19%	N/A		
Fund vs. Target-Date 2050 Mstar Category			-144	92	63	65	N/A	N/A	N/A	-109	104	83	77	N/A		
PG: Fund % Rank in Target-Date 2050 Mstar Category			85%	10%	26%	14%	N/A	N/A	N/A	81%	9%	11%	14%	N/A		
PG: # of funds in Target-Date 2050 Mstar Category			240	194	156	78	N/A	N/A	N/A	240	201	159	78	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 April 30, 2019
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 04/30/19	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
04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19					
TIAA-CREF LIFECYCLE 2055 FUND (TTRPX)^[8]	\$731.50	60	1.45%	10.97%	7.09%	N/A	3.44%	7.53%	16.65%	4.58%	11.77%	7.91%	N/A	8.52%	4/29/2011
Gross Expense Ratio		74													
BM: Lifecycle 2055 Fund Composite Index			4.63%	11.25%	7.77%		3.32%	7.55%	15.91%	7.43%	12.03%	8.36%		9.08%	
Fund vs. Lifecycle 2055 Fund Composite Index			-318	-28	-68		12	-2	74	-285	-26	-45		-56	
BM: S&P Target Date 2055 Index			3.37%	10.29%	7.02%		3.06%	6.73%	14.71%	5.77%	11.07%	7.55%		8.37%	
Fund vs. S&P Target Date 2055 Index			-192	68	7		38	80	194	-119	70	36		15	
PG: Target-Date 2055 M*star Category			2.84%	10.10%	6.49%		N/A	N/A	N/A	5.72%	10.82%	7.10%		N/A	
Fund vs. Target-Date 2055 M*star Category			-139	87	60		N/A	N/A	N/A	-114	95	81		N/A	
PG: Fund % Rank in Target-Date 2055 M*star Category			87%	10%	21%		N/A	N/A	N/A	83%	9%	9%		N/A	
PG: # of funds in Target-Date 2055 M*star Category			222	180	134		N/A	N/A	N/A	224	181	138		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE 2060 FUND (TLXPX)^[8]	\$129.50	60	1.34%	11.05%	N/A	N/A	3.41%	7.55%	16.78%	4.53%	11.88%	N/A	N/A	8.09%	9/26/2014
Gross Expense Ratio		94													
BM: Lifecycle 2060 Fund Composite Index			4.62%	11.37%			3.36%	7.63%	16.09%	7.44%	12.16%			8.47%	
Fund vs. Lifecycle 2060 Fund Composite Index			-328	-32			5	-8	69	-291	-30			-38	
BM: S&P Target Date 2060+ Index			3.50%	10.48%			3.10%	6.82%	14.87%	5.94%	11.27%			7.84%	
Fund vs. S&P Target Date 2060+ Index			-216	57			31	73	191	-141	59			25	
PG: Target-Date 2060+ M*star Category			2.99%	10.21%			N/A	N/A	N/A	5.78%	10.94%			N/A	
Fund vs. Target-Date 2060+ M*star Category			-165	84			N/A	N/A	N/A	-125	92			N/A	
PG: Fund % Rank in Target-Date 2060+ M*star Category			88%	11%			N/A	N/A	N/A	85%	9%			N/A	
PG: # of funds in Target-Date 2060+ M*star Category			206	125			N/A	N/A	N/A	212	125			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]	\$445.00	25	4.32%	5.98%	4.78%	N/A	1.52%	4.22%	8.35%	6.05%	6.31%	4.95%	N/A	6.71%	9/30/2009
Gross Expense Ratio		40													
BM: Lifecycle Index 2010 Composite Benchmark			4.53%	6.25%	5.02%		1.55%	4.32%	8.45%	6.16%	6.55%	5.20%		7.00%	
Fund vs. Lifecycle Index 2010 Composite Benchmark			-21	-27	-24		-3	-10	-10	-11	-24	-25		-29	
BM: S&P Target Date 2010 Index			3.81%	5.48%	4.35%		1.40%	3.85%	7.69%	5.19%	5.76%	4.52%		6.12%	
Fund vs. S&P Target Date 2010 Index			51	50	43		12	37	66	86	55	43		59	
PG: Target-Date 2000-2010 M*star Category			3.36%	5.56%	4.16%		N/A	N/A	N/A	4.73%	5.68%	4.32%		N/A	
Fund vs. Target-Date 2000-2010 M*star Category			96	42	62		N/A	N/A	N/A	132	63	63		N/A	
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			13%	36%	13%		N/A	N/A	N/A	7%	26%	15%		N/A	
PG: # of funds in Target-Date 2000-2010 M*star Category			138	113	92		N/A	N/A	N/A	138	113	92		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]	\$892.20	25	4.45%	6.54%	5.11%	N/A	1.71%	4.63%	9.12%	6.30%	6.92%	5.33%	N/A	7.19%	9/30/2009
Gross Expense Ratio		38													
BM: Lifecycle Index 2015 Composite Benchmark			4.61%	6.77%	5.33%		1.71%	4.65%	9.17%	6.36%	7.11%	5.55%		7.48%	
Fund vs. Lifecycle Index 2015 Composite Benchmark			-16	-23	-22		0	-2	-5	-6	-19	-22		-29	
BM: S&P Target Date 2015 Index			3.90%	6.25%	4.85%		1.59%	4.19%	8.59%	5.38%	6.58%	5.05%		6.91%	
Fund vs. S&P Target Date 2015 Index			55	29	26		12	44	53	92	34	28		28	
PG: Target-Date 2015 M*star Category			3.48%	6.16%	4.42%		N/A	N/A	N/A	5.08%	6.33%	4.61%		N/A	
Fund vs. Target-Date 2015 M*star Category			97	38	69		N/A	N/A	N/A	122	59	72		N/A	
PG: Fund % Rank in Target-Date 2015 M*star Category			17%	35%	13%		N/A	N/A	N/A	8%	29%	12%		N/A	
PG: # of funds in Target-Date 2015 M*star Category			139	112	83		N/A	N/A	N/A	136	110	80		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]	\$2,234.00	25	4.49%	7.25%	5.50%	N/A	1.92%	5.00%	9.96%	6.49%	7.69%	5.77%	N/A	7.77%	9/30/2009
Gross Expense Ratio		36													
BM: Lifecycle Index 2020 Composite Benchmark			4.70%	7.49%	5.74%		1.91%	5.02%	10.01%	6.58%	7.88%	6.01%		8.07%	
Fund vs. Lifecycle Index 2020 Composite Benchmark			-21	-24	-24		1	-2	-5	-9	-19	-24		-30	
BM: S&P Target Date 2020 Index			3.94%	6.97%	5.27%		1.77%	4.52%	9.35%	5.54%	7.35%	5.52%		7.58%	
Fund vs. S&P Target Date 2020 Index			55	28	23		15	48	61	95	34	25		19	
PG: Target-Date 2020 M*star Category			3.38%	6.57%	4.58%		N/A	N/A	N/A	5.03%	6.78%	4.83%		N/A	
Fund vs. Target-Date 2020 M*star Category			111	68	92		N/A	N/A	N/A	146	91	94		N/A	
PG: Fund % Rank in Target-Date 2020 M*star Category			15%	31%	10%		N/A	N/A	N/A	11%	23%	13%		N/A	
PG: # of funds in Target-Date 2020 M*star Category			251	204	166		N/A	N/A	N/A	251	211	169		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]	\$2,878.30	25	4.51%	8.07%	5.97%	N/A	2.16%	5.46%	11.06%	6.71%	8.57%	6.30%	N/A	8.40%	9/30/2009
Gross Expense Ratio		35													
BM: Lifecycle Index 2025 Composite Benchmark			4.76%	8.31%	6.20%		2.18%	5.53%	11.16%	6.83%	8.77%	6.53%		8.68%	
Fund vs. Lifecycle Index 2025 Composite Benchmark			-25	-24	-23		-2	-7	-10	-12	-20	-23		-28	
BM: S&P Target Date 2025 Index			3.90%	7.74%	5.66%		2.08%	5.06%	10.62%	5.69%	8.22%	5.98%		8.18%	
Fund vs. S&P Target Date 2025 Index			61	33	31		8	40	44	102	35	32		22	
PG: Target-Date 2025 M*star Category			3.38%	7.51%	5.09%		N/A	N/A	N/A	5.35%	7.84%	5.43%		N/A	
Fund vs. Target-Date 2025 M*star Category			113	56	88		N/A	N/A	N/A	136	73	87		N/A	
PG: Fund % Rank in Target-Date 2025 M*star Category			11%	32%	10%		N/A	N/A	N/A	8%	28%	14%		N/A	
PG: # of funds in Target-Date 2025 M*star Category			227	187	147		N/A	N/A	N/A	229	188	151		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]	\$3,061.20	25	4.64%	8.92%	6.43%	N/A	2.43%	5.98%	12.26%	7.01%	9.49%	6.82%	N/A	9.03%	9/30/2009
Gross Expense Ratio		35													
BM: Lifecycle Index 2030 Composite Benchmark			4.82%	9.12%	6.65%		2.45%	6.04%	12.31%	7.07%	9.67%	7.05%		9.30%	
Fund vs. Lifecycle Index 2030 Composite Benchmark			-18	-20	-22		-2	-6	-5	-6	-18	-23		-27	
BM: S&P Target Date 2030 Index			3.82%	8.44%	6.05%		2.41%	5.65%	12.03%	5.85%	9.02%	6.44%		8.72%	
Fund vs. S&P Target Date 2030 Index			82	48	38		2	33	23	116	47	38		31	
PG: Target-Date 2030 M*star Category			3.31%	8.34%	5.56%		N/A	N/A	N/A	5.43%	8.73%	5.97%		N/A	
Fund vs. Target-Date 2030 M*star Category			133	58	87		N/A	N/A	N/A	158	76	85		N/A	
PG: Fund % Rank in Target-Date 2030 M*star Category			11%	27%	14%		N/A	N/A	N/A	9%	25%	17%		N/A	
PG: # of funds in Target-Date 2030 M*star Category			240	194	156		N/A	N/A	N/A	240	201	159		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 April 30, 2019
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 04/30/19	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]	\$2,794.00	25	4.53%	9.71%	6.84%	N/A	2.74%	6.48%	13.41%	7.22%	10.40%	7.29%	N/A	9.61%	9/30/2009
Gross Expense Ratio		34													
BM: Lifecycle Index 2035 Composite Benchmark			4.84%	9.93%	7.06%		2.73%	6.55%	13.46%	7.27%	10.55%	7.53%		9.89%	
Fund vs. Lifecycle Index 2035 Composite Benchmark			-31	-22	-22		1	-7	-5	-5	-15	-24		-28	
BM: S&P Target Date 2035 Index			3.66%	9.09%	6.41%		2.71%	6.16%	13.26%	5.87%	9.77%	6.86%		9.18%	
Fund vs. S&P Target Date 2035 Index			87	62	43		3	32	15	135	63	43		43	
PG: Target-Date 2035 M*star Category			3.17%	9.13%	5.95%		N/A	N/A	N/A	5.64%	9.68%	6.45%		N/A	
Fund vs. Target-Date 2035 M*star Category			136	58	89		N/A	N/A	N/A	158	72	84		N/A	
PG: Fund % Rank in Target-Date 2035 M*star Category			13%	26%	13%		N/A	N/A	N/A	10%	21%	16%		N/A	
PG: # of funds in Target-Date 2035 M*star Category			222	182	142		N/A	N/A	N/A	224	183	146		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]	\$2,962.30	25	4.52%	10.50%	7.23%	N/A	3.06%	7.02%	14.53%	7.38%	11.29%	7.76%	N/A	10.02%	9/30/2009
Gross Expense Ratio		34													
BM: Lifecycle Index 2040 Composite Benchmark			4.80%	10.71%	7.45%		3.01%	7.05%	14.60%	7.40%	11.42%	7.98%		10.29%	
Fund vs. Lifecycle Index 2040 Composite Benchmark			-28	-21	-22		5	-3	-7	-2	-13	-22		-27	
BM: S&P Target Date 2040 Index			3.59%	9.56%	6.66%		2.89%	6.47%	14.03%	5.91%	10.29%	7.15%		9.51%	
Fund vs. S&P Target Date 2040 Index			93	94	57		17	55	50	147	100	61		51	
PG: Target-Date 2040 M*star Category			3.04%	9.54%	6.18%		N/A	N/A	N/A	5.56%	10.12%	6.72%		N/A	
Fund vs. Target-Date 2040 M*star Category			148	96	105		N/A	N/A	N/A	182	117	104		N/A	
PG: Fund % Rank in Target-Date 2040 M*star Category			13%	17%	5%		N/A	N/A	N/A	9%	11%	5%		N/A	
PG: # of funds in Target-Date 2040 M*star Category			240	194	156		N/A	N/A	N/A	240	201	159		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]	\$1,945.70	25	4.46%	10.87%	7.43%	N/A	3.24%	7.35%	15.42%	7.46%	11.70%	8.01%	N/A	10.15%	9/30/2009
Gross Expense Ratio		35													
BM: Lifecycle Index 2045 Composite Benchmark			4.74%	11.04%	7.65%		3.23%	7.43%	15.46%	7.49%	11.83%	8.23%		10.42%	
Fund vs. Lifecycle Index 2045 Composite Benchmark			-28	-17	-22		1	-8	-4	-3	-13	-22		-27	
BM: S&P Target Date 2045 Index			3.46%	9.85%	6.81%		2.99%	6.62%	14.41%	5.83%	10.61%	7.32%		9.72%	
Fund vs. S&P Target Date 2045 Index			100	102	62		25	73	101	163	109	69		43	
PG: Target-Date 2045 M*star Category			2.94%	9.92%	6.35%		N/A	N/A	N/A	5.74%	10.61%	6.94%		N/A	
Fund vs. Target-Date 2045 M*star Category			152	95	108		N/A	N/A	N/A	172	109	107		N/A	
PG: Fund % Rank in Target-Date 2045 M*star Category			11%	9%	4%		N/A	N/A	N/A	10%	7%	4%		N/A	
PG: # of funds in Target-Date 2045 M*star Category			222	182	142		N/A	N/A	N/A	224	183	146		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]	\$1,472.40	25	4.48%	10.98%	7.51%	N/A	3.28%	7.43%	15.55%	7.47%	11.83%	8.10%	N/A	10.20%	9/30/2009
Gross Expense Ratio		35													
BM: Lifecycle Index 2050 Composite Benchmark			4.73%	11.17%	7.73%		3.28%	7.51%	15.64%	7.51%	11.97%	8.33%		10.47%	
Fund vs. Lifecycle Index 2050 Composite Benchmark			-25	-19	-22		0	-8	-9	-4	-14	-23		-27	
BM: S&P Target Date 2050 Index			3.41%	10.12%	6.96%		3.05%	6.72%	14.68%	5.82%	10.90%	7.48%		9.89%	
Fund vs. S&P Target Date 2050 Index			107	86	55		23	71	87	165	93	62		31	
PG: Target-Date 2050 M*star Category			2.87%	9.94%	6.41%		N/A	N/A	N/A	5.59%	10.60%	7.00%		N/A	
Fund vs. Target-Date 2050 M*star Category			161	104	110		N/A	N/A	N/A	188	123	110		N/A	
PG: Fund % Rank in Target-Date 2050 M*star Category			12%	8%	3%		N/A	N/A	N/A	10%	6%	4%		N/A	
PG: # of funds in Target-Date 2050 M*star Category			240	194	156		N/A	N/A	N/A	240	201	159		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]	\$606.20	25	4.49%	11.10%	7.59%	N/A	3.34%	7.53%	15.72%	7.51%	12.00%	8.19%	N/A	8.87%	4/29/2011
Gross Expense Ratio		38													
BM: Lifecycle Index 2055 Composite Benchmark			4.72%	11.29%	7.82%		3.32%	7.58%	15.82%	7.53%	12.10%	8.42%		9.12%	
Fund vs. Lifecycle Index 2055 Composite Benchmark			-23	-19	-23		2	-5	-10	-2	-10	-23		-25	
BM: S&P Target Date 2055 Index			3.37%	10.29%	7.02%		3.06%	6.73%	14.71%	5.77%	11.07%	7.55%		8.37%	
Fund vs. S&P Target Date 2055 Index			112	81	57		28	80	101	174	93	64		50	
PG: Target-Date 2055 M*star Category			2.84%	10.10%	6.49%		N/A	N/A	N/A	5.72%	10.82%	7.10%		N/A	
Fund vs. Target-Date 2055 M*star Category			165	100	110		N/A	N/A	N/A	179	118	109		N/A	
PG: Fund % Rank in Target-Date 2055 M*star Category			9%	6%	4%		N/A	N/A	N/A	9%	4%	4%		N/A	
PG: # of funds in Target-Date 2055 M*star Category			222	180	134		N/A	N/A	N/A	224	181	138		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]	\$145.80	25	4.44%	11.19%	N/A	N/A	3.37%	7.52%	15.84%	7.52%	12.09%	N/A	N/A	8.33%	9/26/2014
Gross Expense Ratio		61													
BM: Lifecycle Index 2060 Composite Benchmark			4.71%	11.41%			3.37%	7.66%	16.00%	7.54%	12.24%			8.56%	
Fund vs. Lifecycle Index 2060 Composite Benchmark			-27	-22			0	-14	-16	-2	-15			-23	
BM: S&P Target Date 2060+ Index			3.50%	10.48%			3.10%	6.82%	14.87%	5.94%	11.27%			7.84%	
Fund vs. S&P Target Date 2060+ Index			94	71			27	70	97	158	82			49	
PG: Target-Date 2060+ M*star Category			2.99%	10.21%			N/A	N/A	N/A	5.78%	10.94%			N/A	
Fund vs. Target-Date 2060+ M*star Category			145	98			N/A	N/A	N/A	174	115			N/A	
PG: Fund % Rank in Target-Date 2060+ M*star Category			12%	5%			N/A	N/A	N/A	10%	2%			N/A	
PG: # of funds in Target-Date 2060+ M*star Category			206	125			N/A	N/A	N/A	212	125			N/A	
Fund Star Rating			N/A	****			N/A	N/A	N/A	N/A	****			N/A	
TIAA-CREF LIFECYCLE INDEX RETIREMENT INCOME FUND (TLIPX)^[7]	\$369.50	25	4.32%	5.72%	4.61%	N/A	1.47%	4.15%	8.17%	6.00%	6.02%	4.77%	N/A	6.27%	9/30/2009
Gross Expense Ratio		45													
BM: Lifecycle Index Retirement Income Composite Benchmark			4.50%	5.91%	4.82%		1.51%	4.24%	8.24%	6.10%	6.21%	4.98%		6.55%	
Fund vs. Lifecycle Index Retirement Income Composite Benchmark			-18	-19	-21		-4	-9	-7	-10	-19	-21		-28	
BM: S&P Target Date Retirement Income Index			3.72%	4.70%	3.89%		1.20%	3.46%	6.84%	4.95%	4.94%	4.01%		5.31%	
Fund vs. S&P Target Date Retirement Income Index			60	102	72		27	69	133	105	108	76		96	
PG: Target-Date Retirement M*star Category			3.44%	4.79%	3.45%		N/A	N/A	N/A	4.63%	4.87%	3.58%		N/A	
Fund vs. Target-Date Retirement M*star Category			88	93	116		N/A	N/A	N/A	137	115	119		N/A	
PG: Fund % Rank in Target-Date Retirement M*star Category			16%	16%	5%		N/A	N/A	N/A	7%	14%	6%		N/A	
PG: # of funds in Target-Date Retirement M*star Category			185	161	126		N/A	N/A	N/A	185	161	129		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 April 30, 2019
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.	
	04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/18 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	04/30/19 to 04/30/19	Date			
TIAA-CREF LIFECYCLE RETIREMENT INCOME FUND (TPIIX)^[5,7]	\$534.30	52	3.04%	6.23%	4.60%	7.83%	1.50%	4.09%	8.40%	4.77%	6.43%	4.87%	7.49%	4.82%	11/30/2007	
Gross Expense Ratio		67													9/30/2009	
BM: Lifecycle Retirement Income Fund Composite Index			4.46%	5.89%	4.72%	7.73%	1.50%	4.23%	8.28%	6.07%	6.18%	4.89%	7.39%	4.99%		
Fund vs. Lifecycle Retirement Income Fund Composite Index			-142	34	-12	10	0	-14	12	-130	25	-2	10	-17		
BM: S&P Target Date Retirement Income Index			3.72%	4.70%	3.89%	6.38%	1.20%	3.46%	6.84%	4.95%	4.94%	4.01%	6.14%	3.92%		
Fund vs. S&P Target Date Retirement Income Index			-68	153	71	145	30	63	156	-18	149	86	135	90		
PG: Target-Date Retirement M*star Category			3.44%	4.79%	3.45%	6.62%	N/A	N/A	N/A	4.63%	4.87%	3.58%	6.24%	N/A		
Fund vs. Target-Date Retirement M*star Category			-40	144	115	121	N/A	N/A	N/A	14	156	129	125	N/A		
PG: Fund % Rank in Target-Date Retirement M*star Category			70%	8%	6%	12%	N/A	N/A	N/A	44%	7%	4%	10%	N/A		
PG: # of funds in Target-Date Retirement M*star Category			185	161	126	91	N/A	N/A	N/A	185	161	129	91	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]	\$123.60	70	0.81%	11.22%	7.15%	N/A	3.70%	8.11%	17.99%	4.16%	12.15%	8.07%	N/A	11.61%	12/9/2011	
Gross Expense Ratio		91														
BM: Lifestyle Aggressive Composite Benchmark			4.56%	11.89%	8.01%		3.57%	8.00%	16.94%	7.51%	12.75%	8.67%		11.93%		
Fund vs. Lifestyle Aggressive Composite Benchmark			-375	-67	-86		13	11	105	-355	-60	-60		-32		
BM: Morningstar Aggressive Target Risk TR USD			3.76%	11.37%	7.03%		3.03%	6.91%	15.64%	6.29%	11.88%	7.58%		10.76%		
Fund vs. Morningstar Aggressive Target Risk TR USD			-295	-15	12		67	120	235	-213	27	49		85		
PG: Allocation--85%+ Equity M*star Category			2.64%	9.60%	5.99%		N/A	N/A	N/A	5.09%	10.28%	6.55%		N/A		
Fund vs. Allocation--85%+ Equity M*star Category			-183	162	116		N/A	N/A	N/A	-93	187	152		N/A		
PG: Fund % Rank in Allocation--85%+ Equity M*star Category			78%	10%	20%		N/A	N/A	N/A	62%	12%	13%		N/A		
PG: # of funds in Allocation--85%+ Equity M*star Category			186	165	144		N/A	N/A	N/A	198	175	157		N/A		
Fund Star Rating			N/A	*****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE CONSERVATIVE FUND (TLSPX)^[10]	\$234.20	61	2.69%	6.06%	4.49%	N/A	1.62%	4.34%	8.96%	4.52%	6.29%	4.81%	N/A	6.40%	12/9/2011	
Gross Expense Ratio		74														
BM: Lifestyle Conservative Composite Benchmark			4.50%	5.87%	4.67%		1.48%	4.14%	8.12%	6.08%	6.15%	4.87%		6.08%		
Fund vs. Lifestyle Conservative Composite Benchmark			-181	19	-18		14	20	84	-156	14	-6		32		
BM: Morningstar Moderately Conservative Target Risk TR USD			4.62%	6.16%	4.43%		1.33%	3.96%	8.14%	6.18%	6.27%	4.57%		5.97%		
Fund vs. Morningstar Moderately Conservative Target Risk TR USD			-193	-10	6		29	38	82	-166	2	24		43		
PG: Allocation--30% to 50% Equity M*star Category			3.03%	5.53%	3.69%		N/A	N/A	N/A	4.46%	5.59%	3.86%		N/A		
Fund vs. Allocation--30% to 50% Equity M*star Category			-34	53	80		N/A	N/A	N/A	6	70	95		N/A		
PG: Fund % Rank in Allocation--30% to 50% Equity M*star Category			64%	29%	19%		N/A	N/A	N/A	55%	24%	19%		N/A		
PG: # of funds in Allocation--30% to 50% Equity M*star Category			558	488	386		N/A	N/A	N/A	555	484	391		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE GROWTH FUND (TSOPX)^[10]	\$168.90	67	1.51%	9.59%	6.40%	N/A	3.00%	6.93%	15.06%	4.36%	10.24%	7.09%	N/A	10.03%	12/9/2011	
Gross Expense Ratio		84														
BM: Lifestyle Growth Composite Benchmark			4.73%	9.95%	7.05%		2.86%	6.76%	14.07%	7.26%	10.60%	7.54%		10.10%		
Fund vs. Lifestyle Growth Composite Benchmark			-322	-36	-65		14	17	99	-290	-36	-45		-7		
BM: Morningstar Moderately Aggressive Target Risk TR USD			4.06%	10.02%	6.33%		2.53%	6.08%	13.51%	6.31%	10.36%	6.75%		9.46%		
Fund vs. Morningstar Moderately Aggressive Target Risk TR USD			-255	-43	7		47	85	155	-195	-12	34		57		
PG: Allocation--70% to 85% Equity M*star Category			2.86%	8.38%	5.32%		N/A	N/A	N/A	5.21%	9.02%	5.90%		N/A		
Fund vs. Allocation--70% to 85% Equity M*star Category			-135	121	108		N/A	N/A	N/A	-85	122	119		N/A		
PG: Fund % Rank in Allocation--70% to 85% Equity M*star Category			74%	21%	23%		N/A	N/A	N/A	70%	23%	21%		N/A		
PG: # of funds in Allocation--70% to 85% Equity M*star Category			361	326	285		N/A	N/A	N/A	357	322	284		N/A		
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A		
TIAA-CREF LIFESTYLE INCOME FUND (TSIPX)^[9]	\$73.50	57	2.92%	4.12%	3.28%	N/A	0.91%	2.87%	5.70%	4.14%	4.17%	3.41%	N/A	4.32%	12/9/2011	
Gross Expense Ratio		84														
BM: Lifestyle Income Composite Benchmark			4.10%	3.74%	3.27%		0.82%	2.76%	5.06%	5.16%	3.87%	3.34%		3.92%		
Fund vs. Lifestyle Income Composite Benchmark			-118	38	1		9	11	64	-102	30	7		40		
BM: Morningstar Conservative Target Risk TR USD			4.30%	4.05%	3.12%		0.67%	2.72%	5.37%	5.44%	4.00%	3.11%		3.89%		
Fund vs. Morningstar Conservative Target Risk TR USD			-138	7	16		24	15	33	-130	17	30		43		
PG: Allocation--15% to 30% Equity M*star Category			2.87%	4.01%	2.81%		N/A	N/A	N/A	3.69%	3.99%	2.88%		N/A		
Fund vs. Allocation--15% to 30% Equity M*star Category			5	11	47		N/A	N/A	N/A	45	18	53		N/A		
PG: Fund % Rank in Allocation--15% to 30% Equity M*star Category			57%	53%	37%		N/A	N/A	N/A	52%	49%	35%		N/A		
PG: # of funds in Allocation--15% to 30% Equity M*star Category			204	183	150		N/A	N/A	N/A	207	185	158		N/A		
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A		
TIAA-CREF LIFESTYLE MODERATE FUND (TSMPX)^[10]	\$360.90	64	2.27%	7.99%	5.65%	N/A	2.26%	5.64%	12.11%	4.58%	8.41%	6.14%	N/A	8.46%	12/9/2011	
Gross Expense Ratio		73														
BM: Lifestyle Moderate Composite Benchmark			4.81%	7.99%	6.04%		2.15%	5.54%	11.23%	6.92%	8.44%	6.36%		8.23%		
Fund vs. Lifestyle Moderate Composite Benchmark			-254	0	-39		11	10	88	-234	-3	-22		23		
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%		1.93%	5.01%	10.78%	6.32%	8.29%	5.67%		7.75%		
Fund vs. Morningstar Moderate Target Risk TR USD			-215	-6	25		33	63	133	-174	12	47		71		
PG: Allocation--50% to 70% Equity M*star Category			3.90%	7.44%	5.12%		N/A	N/A	N/A	6.02%	7.89%	5.53%		N/A		
Fund vs. Allocation--50% to 70% Equity M*star Category			-163	55	53		N/A	N/A	N/A	-144	52	61		N/A		
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			73%	33%	36%		N/A	N/A	N/A	68%	36%	35%		N/A		
PG: # of funds in Allocation--50% to 70% Equity M*star Category			758	690	601		N/A	N/A	N/A	756	688	605		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 April 30, 2019
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.	
			04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	04/30/19 to 04/30/19	Date	
Money Market																
TIAA-CREF MONEY MARKET FUND (TPPXX) ^[11,3,5,6]	\$1,248.10	29	1.83%	0.94%	0.56%	0.30%	0.18%	0.53%	0.71%	1.90%	1.00%	0.60%	0.31%	1.85%	7/1/1999	
Gross Expense Ratio		29													9/30/2009	
BM: iMoneyNet Money Fund AveragesTM-All Government			1.67%	0.81%	0.49%	0.26%	0.17%	0.49%	0.66%	1.73%	0.87%	0.53%	0.27%	1.93%		
Fund vs. iMoneyNet Money Fund AveragesTM-All Government			16	13	7	4	1	4	5	17	13	7	4	-8		
7-Day Effective Yield as of 04/30/2019: 2.21%																
7-Day Current Yield as of 04/30/2019: 2.21%																
MUTUAL FUND TOTALS ^[1]	\$118,716.60															

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 29, 2020 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 April 30, 2019
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	
			04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/18 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inception to 04/30/19	
U.S. Equities															
TIAA-CREF EQUITY INDEX FUND (TIQRX)^[5]	\$20,736.20	30	8.46%	13.18%	10.05%	15.65%	3.99%	9.12%	18.51%	12.39%	14.44%	10.90%	14.96%	6.08%	7/1/1999
Gross Expense Ratio		30													3/31/2006
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	6.32%	
Fund vs. Russell 3000 Index			-31	-30	-31	-35	0	-10	-9	-29	-30	-30	-33	-24	
PG: Large Blend M*star Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A	
Fund vs. Large Blend M*star Category			156	134	114	111	N/A	N/A	N/A	151	135	119	107	N/A	
PG: Fund % Rank in Large Blend M*star Category			42%	29%	34%	25%	N/A	N/A	N/A	44%	31%	33%	25%	N/A	
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	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]	\$6,871.30	65	5.65%	13.09%	9.99%	14.99%	4.10%	10.02%	19.36%	9.53%	14.31%	11.04%	14.52%	6.26%	7/1/1999
Gross Expense Ratio		65													10/1/2002
BM: S&P 500 Index			9.50%	13.51%	10.91%	15.92%	4.05%	9.48%	18.25%	13.49%	14.87%	11.63%	15.32%	5.91%	
Fund vs. S&P 500 Index			-385	-42	-92	-93	5	54	111	-396	-56	-59	-80	31	
PG: Large Growth M*star Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A	
Fund vs. Large Growth M*star Category			-506	-226	-127	-95	N/A	N/A	N/A	-524	-278	-142	-71	N/A	
PG: Fund % Rank in Large Growth M*star Category			91%	76%	71%	72%	N/A	N/A	N/A	90%	80%	72%	70%	N/A	
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	N/A	
Fund Star Rating			N/A	**	**	***	N/A	N/A	N/A	N/A	**	**	***	N/A	
TIAA-CREF LARGE-CAP GROWTH FUND (TILRX)	\$5,731.90	67	13.13%	17.35%	13.91%	17.17%	3.72%	12.12%	21.92%	16.03%	19.08%	14.96%	16.58%	10.17%	3/31/2006
Gross Expense Ratio		67													
BM: Russell 1000 Growth Index			12.75%	16.53%	13.50%	17.52%	4.52%	11.34%	21.35%	17.43%	18.62%	14.50%	16.96%	10.44%	
Fund vs. Russell 1000 Growth Index			38	82	41	-35	-80	78	57	-140	46	46	-37	-27	
PG: Large Growth M*star Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A	
Fund vs. Large Growth M*star Category			242	200	265	123	N/A	N/A	N/A	126	199	250	135	N/A	
PG: Fund % Rank in Large Growth M*star Category			24%	25%	15%	25%	N/A	N/A	N/A	41%	27%	18%	23%	N/A	
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	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)	\$7,097.30	30	12.40%	16.18%	13.14%	17.14%	4.51%	11.26%	21.23%	17.07%	18.26%	14.15%	16.59%	10.62%	10/1/2002
Gross Expense Ratio		30													
BM: Russell 1000 Growth Index			12.75%	16.53%	13.50%	17.52%	4.52%	11.34%	21.35%	17.43%	18.62%	14.50%	16.96%	11.02%	
Fund vs. Russell 1000 Growth Index			-35	-35	-36	-38	-1	-8	-12	-36	-36	-35	-37	-40	
PG: Large Growth M*star Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A	
Fund vs. Large Growth M*star Category			169	83	188	120	N/A	N/A	N/A	230	117	169	136	N/A	
PG: Fund % Rank in Large Growth M*star Category			33%	37%	25%	26%	N/A	N/A	N/A	29%	35%	28%	22%	N/A	
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	N/A	
Fund Star Rating			N/A	***	****	****	N/A	N/A	N/A	N/A	***	****	****	N/A	
TIAA-CREF LARGE-CAP VALUE FUND (TRLCX)	\$6,219.00	65	-1.47%	8.11%	5.38%	13.37%	4.12%	7.82%	16.57%	2.20%	8.71%	6.12%	12.31%	8.89%	10/1/2002
Gross Expense Ratio		65													
BM: Russell 1000 Value Index			5.67%	10.45%	7.72%	14.52%	3.55%	7.54%	15.90%	9.06%	10.97%	8.27%	13.76%	9.35%	
Fund vs. Russell 1000 Value Index			-714	-234	-234	-115	57	28	67	-686	-226	-215	-145	-46	
PG: Large Value M*star Category			4.48%	10.01%	7.20%	13.68%	N/A	N/A	N/A	7.41%	10.78%	7.75%	12.88%	N/A	
Fund vs. Large Value M*star Category			-595	-190	-182	-31	N/A	N/A	N/A	-521	-207	-163	-57	N/A	
PG: Fund % Rank in Large Value M*star Category			94%	86%	89%	59%	N/A	N/A	N/A	91%	90%	87%	69%	N/A	
PG: # of funds in Large Value M*star Category			1229	1096	939	691	N/A	N/A	N/A	1259	1114	958	699	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)	\$6,442.10	30	5.39%	10.10%	7.40%	14.16%	3.52%	7.47%	15.81%	8.77%	10.62%	7.95%	13.39%	8.98%	10/1/2002
Gross Expense Ratio		30													
BM: Russell 1000 Value Index			5.67%	10.45%	7.72%	14.52%	3.55%	7.54%	15.90%	9.06%	10.97%	8.27%	13.76%	9.35%	
Fund vs. Russell 1000 Value Index			-28	-35	-32	-36	-3	-7	-9	-29	-35	-32	-37	-37	
PG: Large Value M*star Category			4.48%	10.01%	7.20%	13.68%	N/A	N/A	N/A	7.41%	10.78%	7.75%	12.88%	N/A	
Fund vs. Large Value M*star Category			91	9	20	48	N/A	N/A	N/A	136	-16	20	51	N/A	
PG: Fund % Rank in Large Value M*star Category			40%	52%	46%	37%	N/A	N/A	N/A	37%	55%	47%	38%	N/A	
PG: # of funds in Large Value M*star Category			1229	1096	939	691	N/A	N/A	N/A	1259	1114	958	699	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF MID-CAP GROWTH FUND (TRGMX)	\$1,551.10	72	9.68%	14.13%	8.48%	16.16%	4.38%	12.76%	27.24%	14.79%	15.67%	10.23%	15.19%	11.49%	10/1/2002
Gross Expense Ratio		72													
BM: Russell Mid Cap Growth Index			11.51%	15.06%	10.89%	17.60%	4.50%	12.12%	25.00%	17.64%	16.78%	12.20%	16.56%	12.37%	
Fund vs. Russell Mid Cap Growth Index			-183	-93	-241	-144	-12	64	224	-285	-111	-197	-137	-88	
PG: Mid-Cap Growth M*star Category			8.04%	14.18%	8.99%	15.70%	N/A	N/A	N/A	13.49%	15.65%	10.59%	14.80%	N/A	
Fund vs. Mid-Cap Growth M*star Category			164	-5	-51	46	N/A	N/A	N/A	130	2	-36	39	N/A	
PG: Fund % Rank in Mid-Cap Growth M*star Category			39%	51%	65%	42%	N/A	N/A	N/A	45%	50%	61%	45%	N/A	
PG: # of funds in Mid-Cap Growth M*star Category			615	555	495	352	N/A	N/A	N/A	611	549	488	351	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF MID-CAP VALUE FUND (TRVRX)	\$3,299.90	67	-0.68%	7.60%	5.40%	14.00%	3.73%	6.29%	18.87%	2.15%	8.52%	6.21%	12.90%	10.88%	10/1/2002
Gross Expense Ratio		67													
BM: Russell Mid Cap Value Index			2.89%	9.50%	7.22%	16.39%	3.30%	7.12%	18.14%	5.76%	9.91%	7.83%	14.98%	11.29%	
Fund vs. Russell Mid Cap Value Index			-357	-190	-182	-239	43	-83	73	-361	-139	-162	-208	-41	
PG: Mid-Cap Value M*star Category			0.66%	8.55%	5.87%	14.46%	N/A	N/A	N/A	3.65%	9.33%	6.75%	13.25%	N/A	
Fund vs. Mid-Cap Value M*star Category			-134	-95	-47	-46	N/A	N/A	N/A	-150	-81	-54	-35	N/A	
PG: Fund % Rank in Mid-Cap Value M*star Category			64%	75%	63%	62%	N/A	N/A	N/A	67%	74%	65%	66%	N/A	
PG: # of funds in Mid-Cap Value M*star Category			417	368	318	225	N/A	N/A	N/A	405	357	313	216	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 April 30, 2019
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.	
04/01/18	04/01/16	04/01/14	04/01/09	04/01/19	02/01/19	01/01/19	05/01/18	05/01/16	05/01/14	05/01/09	04/30/19	04/30/19	04/30/19	Date		
TIAA-CREF QUANT SMALL-CAP EQUITY FUND (TRSEX)	\$3,168.20	66	1.89%	12.54%	7.82%	15.62%	3.23%	6.47%	18.91%	5.70%	13.64%	9.20%	14.39%	10.57%	10/1/2002	
Gross Expense Ratio		66														
BM: Russell 2000 Index			2.05%	12.92%	7.05%	15.36%	3.40%	6.50%	18.48%	4.61%	13.60%	8.63%	14.10%	10.70%		
Fund vs. Russell 2000 Index			-16	-38	77	26	-17	-3	43	109	4	57	29	-13		
PG: Small Growth M*star Category			7.70%	15.88%	8.45%	16.24%	N/A	N/A	N/A	11.32%	16.82%	10.34%	15.15%	N/A		
Fund vs. Small Growth M*star Category			-581	-334	-63	-62	N/A	N/A	N/A	-562	-318	-114	-76	N/A		
PG: Fund % Rank in Small Growth M*star Category			82%	77%	64%	66%	N/A	N/A	N/A	80%	76%	70%	69%	N/A		
PG: # of funds in Small Growth M*star Category			679	588	522	392	N/A	N/A	N/A	679	587	524	393	N/A		
Fund Star Rating			N/A	**	***	***	N/A	N/A	N/A	N/A	**	***	***	N/A		
TIAA-CREF QUANT SMALL/MID-CAP EQUITY (TSMOX)^[15,16,4]	\$705.40	76	7.63%	N/A	N/A	N/A	3.60%	8.15%	20.92%	10.60%	N/A	N/A	N/A	14.02%	8/5/2016	
Gross Expense Ratio		76														
BM: Russell 2500 Index			4.48%				3.50%	7.50%	19.88%	7.89%				11.59%		
Fund vs. Russell 2500 Index			315				10	65	104	271				243		
PG: Small Blend M*star Category			-0.03%				N/A	N/A	N/A	3.23%				N/A		
Fund vs. Small Blend M*star Category			766				N/A	N/A	N/A	737				N/A		
PG: Fund % Rank in Small Blend M*star Category			5%				N/A	N/A	N/A	6%				N/A		
PG: # of funds in Small Blend M*star Category			738				N/A	N/A	N/A	742				N/A		
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A		
TIAA-CREF REAL ESTATE SECURITIES FUND (TRRSX)	\$2,383.00	76	18.67%	7.90%	10.10%	18.46%	0.57%	6.14%	17.91%	18.56%	8.93%	9.65%	15.45%	10.42%	10/1/2002	
Gross Expense Ratio		76														
BM: FTSE Nareit All Equity REITs Index			20.46%	7.84%	10.00%	18.80%	-0.23%	4.77%	16.90%	19.56%	8.42%	9.30%	15.61%	10.82%		
Fund vs. FTSE Nareit All Equity REITs Index			-179	6	10	-34	80	137	101	-100	51	35	-16	-40		
PG: Real Estate M*star Category			17.08%	6.00%	8.29%	17.24%	N/A	N/A	N/A	16.22%	6.82%	7.72%	14.32%	N/A		
Fund vs. Real Estate M*star Category			159	190	181	122	N/A	N/A	N/A	234	211	193	113	N/A		
PG: Fund % Rank in Real Estate M*star Category			41%	8%	6%	20%	N/A	N/A	N/A	22%	8%	6%	16%	N/A		
PG: # of funds in Real Estate M*star Category			251	225	198	139	N/A	N/A	N/A	253	225	198	139	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)	\$5,187.90	30	9.19%	13.16%	10.57%	15.54%	4.02%	9.41%	18.12%	13.15%	14.52%	11.28%	14.95%	9.65%	10/1/2002	
Gross Expense Ratio		30														
BM: S&P 500 Index			9.50%	13.51%	10.91%	15.92%	4.05%	9.48%	18.25%	13.49%	14.87%	11.63%	15.32%	10.02%		
Fund vs. S&P 500 Index			-31	-35	-34	-38	-3	-7	-13	-34	-35	-35	-37	-37		
PG: Large Blend M*star Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A		
Fund vs. Large Blend M*star Category			229	132	166	100	N/A	N/A	N/A	227	143	157	106	N/A		
PG: Fund % Rank in Large Blend M*star Category			30%	30%	20%	29%	N/A	N/A	N/A	31%	29%	21%	25%	N/A		
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	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)	\$2,991.30	31	1.90%	12.81%	7.01%	15.21%	3.38%	6.46%	18.42%	4.47%	13.48%	8.58%	13.95%	10.48%	10/1/2002	
Gross Expense Ratio		31														
BM: Russell 2000 Index			2.05%	12.92%	7.05%	15.36%	3.40%	6.50%	18.48%	4.61%	13.60%	8.63%	14.10%	10.70%		
Fund vs. Russell 2000 Index			-15	-11	-4	-15	-2	-4	-6	-14	-12	-5	-15	-22		
PG: Small Blend M*star Category			-0.03%	10.17%	5.62%	14.67%	N/A	N/A	N/A	3.23%	11.06%	7.00%	13.39%	N/A		
Fund vs. Small Blend M*star Category			193	264	139	54	N/A	N/A	N/A	124	242	158	56	N/A		
PG: Fund % Rank in Small Blend M*star Category			32%	15%	27%	42%	N/A	N/A	N/A	38%	18%	26%	41%	N/A		
PG: # of funds in Small Blend M*star Category			738	634	519	382	N/A	N/A	N/A	742	629	525	378	N/A		
Fund Star Rating			N/A	****	****	***	N/A	N/A	N/A	N/A	****	****	***	N/A		
TIAA-CREF SOCIAL CHOICE EQUITY FUND (TRSCX)^[9]	\$4,405.90	42	7.59%	13.01%	9.26%	15.13%	3.34%	8.42%	17.70%	11.01%	13.87%	9.91%	14.30%	5.76%	7/1/1999	
Gross Expense Ratio		42													10/1/2002	
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	6.32%		
Fund vs. Russell 3000 Index			-118	-47	-110	-87	-65	-80	-90	-167	-87	-129	-99	-56		
PG: Large Blend M*star Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A		
Fund vs. Large Blend M*star Category			69	117	35	59	N/A	N/A	N/A	13	78	20	41	N/A		
PG: Fund % Rank in Large Blend M*star Category			52%	34%	50%	42%	N/A	N/A	N/A	57%	44%	53%	47%	N/A		
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	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)	\$185.00	57	7.00%	12.63%	N/A	N/A	3.30%	8.05%	17.19%	10.35%	13.48%	N/A	N/A	10.81%	8/7/2015	
Gross Expense Ratio		57														
BM: Russell 3000 Index			8.77%	13.48%			3.99%	9.22%	18.60%	12.68%	14.74%			11.63%		
Fund vs. Russell 3000 Index			-177	-85			-69	-117	-141	-233	-126			-82		
PG: Large Blend M*star Category			6.90%	11.84%			N/A	N/A	N/A	10.88%	13.09%			N/A		
Fund vs. Large Blend M*star Category			10	79			N/A	N/A	N/A	-53	39			N/A		
PG: Fund % Rank in Large Blend M*star Category			58%	43%			N/A	N/A	N/A	63%	51%			N/A		
PG: # of funds in Large Blend M*star Category			1412	1218			N/A	N/A	N/A	1407	1203			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)	\$1,708.40	116	-8.77%	12.28%	3.15%	N/A	2.05%	3.24%	16.70%	-5.13%	12.82%	3.62%	N/A	3.12%	8/31/2010	
Gross Expense Ratio		116														
BM: MS Emerging Market			-7.41%	10.68%	3.68%		2.11%	3.19%	12.23%	-5.04%	11.25%	4.04%		3.65%		
Fund vs. MS Emerging Market			-136	160	-53		-6	5	447	-9	157	-42		-53		
PG: Diversified Emerging Mkts M*star Category			-9.31%	9.11%	2.61%		N/A	N/A	N/A	-5.91%	9.36%	2.88%		N/A		
Fund vs. Diversified Emerging Mkts M*star Category			54	317	54		N/A	N/A	N/A	78	346	74		N/A		
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			49%	14%	47%		N/A	N/A	N/A	43%	11%	43%		N/A		
PG: # of funds in Diversified Emerging Mkts M*star Category			833	707	553		N/A	N/A	N/A	834	712	553		N/A		
Fund Star Rating			N/A	****	***		N/A	N/A	N/A	N/A	****	***		N/A		

INVESTMENT PERFORMANCE SUMMARY
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 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 EMERGING MARKETS EQUITY INDEX FUND (TEQSX)	\$2,385.80	45	-8.40%	10.34%	3.34%	N/A	2.19%	2.75%	12.42%	-4.84%	10.97%	3.71%	N/A	3.07%	8/31/2010	
Gross Expense Ratio 45																
BM: MS Emerging Market																
Fund vs. MS Emerging Market																
PG: Diversified Emerging Mkts M*star Category																
Fund vs. Diversified Emerging Mkts M*star Category																
PG: Fund % Rank in Diversified Emerging Mkts M*star Category																
PG: # of funds in Diversified Emerging Mkts M*star Category																
Fund Star Rating																
TIAA-CREF INTERNATIONAL EQUITY FUND (TRERX)^[5]	\$4,860.80	73	-15.09%	3.98%	-0.42%	8.79%	4.44%	5.81%	14.62%	-12.54%	4.56%	0.77%	7.86%	4.20%	7/1/1999	
Gross Expense Ratio 73																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index																
PG: Foreign Large Blend M*star Category																
Fund vs. Foreign Large Blend M*star Category																
PG: Fund % Rank in Foreign Large Blend M*star Category																
PG: # of funds in Foreign Large Blend M*star Category																
Fund Star Rating																
TIAA-CREF INTERNATIONAL EQUITY INDEX FUND (TRIEIX)	\$11,725.70	31	-4.11%	7.29%	2.23%	8.81%	2.99%	6.28%	13.28%	-2.72%	7.52%	2.50%	7.90%	7.32%	10/1/2002	
Gross Expense Ratio 31																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index																
PG: Foreign Large Blend M*star Category																
Fund vs. Foreign Large Blend M*star Category																
PG: Fund % Rank in Foreign Large Blend M*star Category																
PG: # of funds in Foreign Large Blend M*star Category																
Fund Star Rating																
TIAA-CREF INTERNATIONAL OPPORTUNITIES FUND (TIOTX)	\$1,769.70	87	-5.83%	9.39%	3.53%	N/A	4.22%	8.01%	20.22%	-1.26%	10.20%	4.77%	N/A	5.47%	4/12/2013	
Gross Expense Ratio 87																
BM: MSCI AC World Index ex USA																
Fund vs. MSCI AC World Index ex USA																
PG: Foreign Large Growth M*star Category																
Fund vs. Foreign Large Growth M*star Category																
PG: Fund % Rank in Foreign Large Growth M*star Category																
PG: # of funds in Foreign Large Growth M*star Category																
Fund Star Rating																
TIAA-CREF QUANT INTERNATIONAL SMALL-CAP EQUITY FUND (TTISX)^[7,4]	\$952.50	97	-14.59%	N/A	N/A	N/A	1.20%	1.00%	11.26%	-13.63%	N/A	N/A	N/A	5.46%	12/9/2016	
Gross Expense Ratio 97																
BM: MSCI ACWI ex-US Small Cap Index																
Fund vs. MSCI ACWI ex-US Small Cap Index																
PG: Foreign Small/Mid Value M*star Category																
Fund vs. Foreign Small/Mid Value M*star Category																
PG: Fund % Rank in Foreign Small/Mid Value M*star Category																
PG: # of funds in Foreign Small/Mid Value M*star Category																
Fund Star Rating																
TIAA-CREF SOCIAL CHOICE INTERNATIONAL EQUITY FUND (TSOEX)	\$149.20	65	-4.83%	6.67%	N/A	N/A	3.49%	6.38%	13.27%	-3.00%	7.11%	N/A	N/A	3.69%	8/7/2015	
Gross Expense Ratio 123																
BM: Morgan Stanley EAFE Index																
Fund vs. Morgan Stanley EAFE Index																
PG: Foreign Large Blend M*star Category																
Fund vs. Foreign Large Blend M*star Category																
PG: Fund % Rank in Foreign Large Blend M*star Category																
PG: # of funds in Foreign Large Blend M*star Category																
Fund Star Rating																
Fixed Income																
TIAA-CREF BOND FUND (TIDRX)^[5]	\$6,233.70	55	4.20%	2.57%	2.95%	4.16%	0.15%	2.12%	3.58%	5.12%	2.35%	2.81%	4.11%	4.84%	7/1/1999	
Gross Expense Ratio 55																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate Core-Plus Bond M*star Category																
Fund vs. Intermediate Core-Plus Bond M*star Category																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category																
PG: # of funds in Intermediate Core-Plus Bond M*star Category																
Fund Star Rating																
TIAA-CREF BOND INDEX FUND (TBIRX)	\$14,248.50	37	4.29%	1.62%	2.38%	N/A	-0.16%	1.78%	2.77%	5.00%	1.45%	2.18%	N/A	2.95%	9/14/2009	
Gross Expense Ratio 37																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate Core Bond M*star Category																
Fund vs. Intermediate Core Bond M*star Category																
PG: Fund % Rank in Intermediate Core Bond M*star Category																
PG: # of funds in Intermediate Core Bond M*star Category																
Fund Star Rating																

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TIAA-CREF FUNDS
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FUND	Total Portfolio Net Assets (in \$Mill.) 04/30/19	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.	
TIAA-CREF BOND PLUS FUND (TCBRX)	\$4,310.50	55	4.30%	2.96%	3.13%	4.95%	0.06%	1.96%	3.55%	5.12%	2.69%	2.98%	4.84%	4.28%	3/31/2006	
Gross Expense Ratio 55																
BM: Bloomberg Barclays U.S. Aggregate Bond Index																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index																
PG: Intermediate Core-Plus Bond M*star Category																
Fund vs. Intermediate Core-Plus Bond M*star Category																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category																
PG: # of funds in Intermediate Core-Plus Bond M*star Category																
Fund Star Rating																
TIAA-CREF EMERGING MARKETS DEBT FUND (TEDTX)	\$504.70	90	1.23%	7.23%	N/A	N/A	0.62%	2.95%	7.94%	3.31%	6.58%	N/A	N/A	4.66%	9/26/2014	
Gross Expense Ratio 90																
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 GREEN BOND (TGRMX)	\$27.10	70	N/A	N/A	N/A	N/A	0.37%	2.59%	3.58%	N/A	N/A	N/A	N/A	5.03%	11/16/2018	
Gross Expense Ratio 130																
BM: Bloomberg Barclays MSCI US Green Bond Index																
Fund vs. Bloomberg Barclays MSCI US Green Bond Index																
PG: Intermediate Core-Plus Bond M*star Category																
Fund vs. Intermediate Core-Plus Bond M*star Category																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category																
PG: # of funds in Intermediate Core-Plus Bond M*star Category																
Fund Star Rating																
TIAA-CREF HIGH YIELD FUND (TIHRX)^[6]	\$3,985.40	61	6.20%	7.75%	4.16%	9.58%	1.82%	4.64%	10.15%	7.55%	7.16%	4.43%	8.83%	6.72%	3/31/2006	
Gross Expense Ratio 61																
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 (TIKRX)^[5]	\$3,070.00	51	2.31%	1.03%	1.20%	2.77%	0.35%	1.60%	2.80%	2.85%	1.12%	1.00%	2.99%	3.67%	10/1/2002	
Gross Expense Ratio 51																
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 (TIBVX)^[4]	\$388.70	90	3.15%	N/A	N/A	N/A	0.30%	2.26%	4.08%	3.99%	N/A	N/A	N/A	2.33%	8/5/2016	
Gross Expense Ratio 95																
BM: Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)																
Fund vs. Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)																
PG: World Bond-USD Hedged M*star Category																
Fund vs. World Bond-USD Hedged M*star Category																
PG: Fund % Rank in World Bond-USD Hedged M*star Category																
PG: # of funds in World Bond-USD Hedged M*star Category																
Fund Star Rating																
TIAA-CREF SHORT DURATION IMPACT BOND (TSSDX)	\$27.10	60	N/A	N/A	N/A	N/A	0.43%	1.54%	2.09%	N/A	N/A	N/A	N/A	2.33%	11/16/2018	
Gross Expense Ratio 112																
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																
TIAA-CREF SHORT-TERM BOND FUND (TISRXX)	\$1,964.50	52	2.73%	1.73%	1.41%	2.32%	0.31%	1.14%	1.73%	3.17%	1.73%	1.44%	2.28%	2.65%	3/31/2006	
Gross Expense Ratio 52																
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																
TIAA-CREF SHORT-TERM BOND INDEX FUND (TESHX)	\$508.70	37	2.66%	0.89%	N/A	N/A	0.18%	0.94%	1.32%	3.03%	0.93%	N/A	N/A	0.95%	8/7/2015	
Gross Expense Ratio 43																
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
RETIREMENT SHARE CLASS

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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	
	04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/18 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	04/30/19				
TIAA-CREF SOCIAL CHOICE BOND FUND (TSBBX)	\$3,390.60	64	4.31%	2.55%	3.37%	N/A	0.03%	2.21%	3.06%	5.05%	2.40%	3.16%	N/A	2.91%	9/21/2012	
Gross Expense Ratio 64																
BM: Bloomberg Barclays U.S. Aggregate Bond Index 4.48% 2.03% 2.74% 0.03% 1.89% 2.97% 5.29% 1.90% 2.57% 2.13%																
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index -17 52 63 0 32 9 -24 50 59 78																
PG: Intermediate Core-Plus Bond M*star Category 3.98% 2.37% 2.51% N/A N/A N/A 4.87% 2.55% 2.54% N/A																
Fund vs. Intermediate Core-Plus Bond M*star Category 33 18 86 N/A N/A N/A 18 -15 62 N/A																
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category 36% 37% 7% N/A N/A N/A 42% 55% 12% N/A																
PG: # of funds in Intermediate Core-Plus Bond M*star Category 1024 901 769 N/A N/A N/A 628 555 472 N/A																
Fund Star Rating N/A *** ***** N/A N/A N/A N/A *** ***** N/A																
Multi-Asset																
TIAA-CREF LIFECYCLE 2010 FUND (TCLX)^[10,9]	\$1,210.20	62	2.92%	6.41%	4.71%	8.60%	1.58%	4.18%	8.55%	4.63%	6.63%	5.00%	8.12%	5.59%	10/15/2004	
Gross Expense Ratio 74																
BM: Lifecycle 2010 Fund Composite Index 4.50% 6.23% 4.94% 8.57% 1.55% 4.31% 8.49% 6.12% 6.52% 5.13% 8.11% 5.76%																
Fund vs. Lifecycle 2010 Fund Composite Index -158 18 -23 3 3 -13 6 -149 11 -13 1 -17																
BM: S&P Target Date 2010 Index 3.81% 5.48% 4.35% 7.50% 1.40% 3.85% 7.69% 5.19% 5.76% 4.52% 7.18% 5.25%																
Fund vs. S&P Target Date 2010 Index -89 93 36 110 18 33 86 -56 87 48 94 34																
PG: Target-Date 2000-2010 M*star Category 3.36% 5.56% 4.16% 8.16% N/A N/A N/A 4.73% 5.68% 4.32% 7.59% N/A																
Fund vs. Target-Date 2000-2010 M*star Category -44 85 55 44 N/A N/A N/A -10 95 68 53 N/A																
PG: Fund % Rank in Target-Date 2000-2010 M*star Category 80% 15% 16% 44% N/A N/A N/A 55% 12% 11% 32% N/A																
PG: # of funds in Target-Date 2000-2010 M*star Category 138 113 92 72 N/A N/A N/A 138 113 92 72 N/A																
Fund Star Rating N/A **** **** *** N/A N/A N/A N/A **** **** **** N/A																
TIAA-CREF LIFECYCLE 2015 FUND (TCLX)^[10,9]	\$1,869.00	63	2.84%	6.92%	5.01%	9.29%	1.68%	4.41%	9.33%	4.66%	7.17%	5.35%	8.72%	5.81%	10/15/2004	
Gross Expense Ratio 75																
BM: Lifecycle 2015 Fund Composite Index 4.57% 6.75% 5.27% 9.29% 1.71% 4.63% 9.21% 6.32% 7.08% 5.49% 8.75% 6.00%																
Fund vs. Lifecycle 2015 Fund Composite Index -173 17 -26 0 -3 -22 12 -166 9 -14 -3 -19																
BM: S&P Target Date 2015 Index 3.90% 6.25% 4.85% 8.57% 1.59% 4.19% 8.59% 5.38% 6.58% 5.05% 8.16% 5.75%																
Fund vs. S&P Target Date 2015 Index -106 67 16 72 9 22 74 -72 59 30 56 6																
PG: Target-Date 2015 M*star Category 3.48% 6.16% 4.42% 8.81% N/A N/A N/A 5.08% 6.33% 4.61% 8.21% N/A																
Fund vs. Target-Date 2015 M*star Category -64 76 59 48 N/A N/A N/A -42 84 74 51 N/A																
PG: Fund % Rank in Target-Date 2015 M*star Category 81% 20% 21% 33% N/A N/A N/A 70% 18% 11% 28% N/A																
PG: # of funds in Target-Date 2015 M*star Category 139 112 83 50 N/A N/A N/A 136 110 80 50 N/A																
Fund Star Rating N/A **** **** *** N/A N/A N/A N/A **** **** *** N/A																
TIAA-CREF LIFECYCLE 2020 FUND (TCLTX)^[11,9]	\$3,848.00	64	2.77%	7.60%	5.37%	10.07%	1.83%	4.76%	10.18%	4.74%	7.86%	5.75%	9.42%	6.02%	10/15/2004	
Gross Expense Ratio 75																
BM: Lifecycle 2020 Fund Composite Index 4.65% 7.47% 5.68% 10.11% 1.90% 5.01% 10.06% 6.53% 7.84% 5.95% 9.50% 6.23%																
Fund vs. Lifecycle 2020 Fund Composite Index -188 13 -31 -4 -7 -25 12 -179 2 -20 -8 -21																
BM: S&P Target Date 2020 Index 3.94% 6.97% 5.27% 9.50% 1.77% 4.52% 9.35% 5.54% 7.35% 5.52% 9.01% 6.15%																
Fund vs. S&P Target Date 2020 Index -117 63 10 57 6 24 83 -80 51 23 41 -13																
PG: Target-Date 2020 M*star Category 3.38% 6.57% 4.58% 9.23% N/A N/A N/A 5.03% 6.78% 4.83% 8.57% N/A																
Fund vs. Target-Date 2020 M*star Category -61 103 79 84 N/A N/A N/A -29 108 92 85 N/A																
PG: Fund % Rank in Target-Date 2020 M*star Category 76% 15% 20% 27% N/A N/A N/A 67% 16% 15% 24% N/A																
PG: # of funds in Target-Date 2020 M*star Category 251 204 166 106 N/A N/A N/A 251 211 169 106 N/A																
Fund Star Rating N/A **** **** **** N/A N/A N/A N/A **** **** **** N/A																
TIAA-CREF LIFECYCLE 2025 FUND (TCLFX)^[11,9]	\$4,619.10	66	2.49%	8.33%	5.74%	10.85%	2.16%	5.34%	11.47%	4.70%	8.71%	6.23%	10.14%	6.25%	10/15/2004	
Gross Expense Ratio 77																
BM: Lifecycle 2025 Fund Composite Index 4.71% 8.28% 6.15% 10.95% 2.17% 5.51% 11.22% 6.77% 8.73% 6.48% 10.28% 6.49%																
Fund vs. Lifecycle 2025 Fund Composite Index -222 5 -41 -10 -1 -17 25 -207 -2 -25 -14 -24																
BM: S&P Target Date 2025 Index 3.90% 7.74% 5.66% 10.32% 2.08% 5.06% 10.62% 5.69% 8.22% 5.98% 9.76% 6.51%																
Fund vs. S&P Target Date 2025 Index -141 59 8 53 8 28 85 -99 49 25 38 -26																
PG: Target-Date 2025 M*star Category 3.38% 7.51% 5.09% 10.25% N/A N/A N/A 5.35% 7.84% 5.43% 9.53% N/A																
Fund vs. Target-Date 2025 M*star Category -89 82 65 60 N/A N/A N/A -65 87 80 61 N/A																
PG: Fund % Rank in Target-Date 2025 M*star Category 89% 18% 21% 30% N/A N/A N/A 80% 21% 16% 23% N/A																
PG: # of funds in Target-Date 2025 M*star Category 227 187 147 74 N/A N/A N/A 229 188 151 74 N/A																
Fund Star Rating N/A **** **** **** N/A N/A N/A N/A **** **** **** N/A																
TIAA-CREF LIFECYCLE 2030 FUND (TCLNX)^[11,9]	\$4,601.90	67	2.30%	9.05%	6.11%	11.58%	2.49%	5.93%	12.79%	4.78%	9.55%	6.68%	10.81%	6.42%	10/15/2004	
Gross Expense Ratio 78																
BM: Lifecycle 2030 Fund Composite Index 4.76% 9.09% 6.61% 11.78% 2.45% 6.02% 12.38% 7.00% 9.61% 7.00% 11.04% 6.73%																
Fund vs. Lifecycle 2030 Fund Composite Index -246 -4 -50 -20 4 -9 41 -222 -6 -32 -23 -31																
BM: S&P Target Date 2030 Index 3.82% 8.44% 6.05% 11.04% 2.41% 5.65% 12.03% 5.85% 9.02% 6.44% 10.41% 6.79%																
Fund vs. S&P Target Date 2030 Index -152 61 6 54 8 28 76 -107 53 24 40 -37																
PG: Target-Date 2030 M*star Category 3.31% 8.34% 5.56% 10.79% N/A N/A N/A 5.43% 8.73% 5.97% 10.02% N/A																
Fund vs. Target-Date 2030 M*star Category -101 71 55 79 N/A N/A N/A -65 82 71 79 N/A																
PG: Fund % Rank in Target-Date 2030 M*star Category 85% 25% 26% 24% N/A N/A N/A 76% 23% 24% 22% N/A																
PG: # of funds in Target-Date 2030 M*star Category 240 194 156 96 N/A N/A N/A 240 201 159 96 N/A																
Fund Star Rating N/A **** **** **** N/A N/A N/A N/A **** **** **** N/A																
TIAA-CREF LIFECYCLE 2035 FUND (TCLRX)^[11,9]	\$4,659.40	68	2.02%	9.75%	6.43%	12.19%	2.77%	6.42%	14.00%	4.70%	10.33%	7.08%	11.40%	6.73%	10/15/2004	
Gross Expense Ratio 79																
BM: Lifecycle 2035 Fund Composite Index 4.77% 9.89% 7.01% 12.51% 2.72% 6.53% 13.54% 7.19% 10.49% 7.48% 11.74% 7.10%																
Fund vs. Lifecycle 2035 Fund Composite Index -275 -14 -58 -32 5 -11 46 -249 -16 -40 -34 -37																
BM: S&P Target Date 2035 Index 3.66% 9.09% 6.41% 11.65% 2.71% 6.16% 13.26% 5.87% 9.77% 6.86% 10.97% 7.02%																
Fund vs. S&P Target Date 2035 Index -164 66 2 54 6 26 74 -117 56 22 43 -29																
PG: Target-Date 2035 M*star Category 3.17% 9.13% 5.95% 11.53% N/A N/A N/A 5.64% 9.68% 6.45% 10.74% N/A																
Fund vs. Target-Date 2035 M*star Category -115 62 48 66 N/A N/A N/A -94 65 63 66 N/A																
PG: Fund % Rank in Target-Date 2035 M*star Category 89% 22% 29% 22% N/A N/A N/A 83% 22% 24% 21% N/A																
PG: # of funds in Target-Date 2035 M*star Category 222 182 142 69 N/A N/A N/A 224 183 146 69 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 April 30, 2019
 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 2040 FUND (TCLOX)^[11,9]	\$5,584.80	69	1.68%	10.42%	6.72%	12.50%	3.06%	6.94%	15.29%	4.58%	11.09%	7.45%	11.72%	7.09%	10/15/2004
Gross Expense Ratio		80													
BM: Lifecycle 2040 Fund Composite Index			4.72%	10.67%	7.40%	12.87%	3.00%	7.02%	14.68%	7.31%	11.35%	7.92%	12.13%	7.48%	
Fund vs. Lifecycle 2040 Fund Composite Index			-304	-25	-68	-37	6	-8	61	-273	-26	-47	-41	-39	
BM: S&P Target Date 2040 Index			3.59%	9.56%	6.66%	12.05%	2.89%	6.47%	14.03%	5.91%	10.29%	7.15%	11.35%	7.20%	
Fund vs. S&P Target Date 2040 Index			-191	86	6	45	17	47	126	-133	80	30	37	-11	
PG: Target-Date 2040 M*star Category			3.04%	9.54%	6.18%	11.71%	N/A	N/A	N/A	5.56%	10.12%	6.72%	10.89%	N/A	
Fund vs. Target-Date 2040 M*star Category			-136	88	54	79	N/A	N/A	N/A	-98	97	73	83	N/A	
PG: Fund % Rank in Target-Date 2040 M*star Category			89%	18%	30%	20%	N/A	N/A	N/A	82%	20%	23%	24%	N/A	
PG: # of funds in Target-Date 2040 M*star Category			240	194	156	96	N/A	N/A	N/A	240	201	159	96	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF LIFECYCLE 2045 FUND (TTRFX)^[11,9]	\$3,156.00	70	1.46%	10.66%	6.87%	12.52%	3.30%	7.28%	16.23%	4.47%	11.42%	7.64%	11.80%	5.56%	11/30/2007
Gross Expense Ratio		81													
BM: Lifecycle 2045 Fund Composite Index			4.65%	11.00%	7.60%	12.97%	3.23%	7.40%	15.55%	7.40%	11.76%	8.17%	12.26%	6.32%	
Fund vs. Lifecycle 2045 Fund Composite Index			-319	-34	-73	-45	7	-12	68	-293	-34	-53	-46	-76	
BM: S&P Target Date 2045 Index			3.46%	9.85%	6.81%	12.34%	2.99%	6.62%	14.41%	5.83%	10.61%	7.32%	11.59%	5.68%	
Fund vs. S&P Target Date 2045 Index			-200	81	6	18	31	66	182	-136	81	32	21	-12	
PG: Target-Date 2045 M*star Category			2.94%	9.92%	6.35%	12.09%	N/A	N/A	N/A	5.74%	10.61%	6.94%	11.28%	N/A	
Fund vs. Target-Date 2045 M*star Category			-148	74	52	43	N/A	N/A	N/A	-127	81	70	52	N/A	
PG: Fund % Rank in Target-Date 2045 M*star Category			92%	15%	28%	24%	N/A	N/A	N/A	88%	16%	18%	21%	N/A	
PG: # of funds in Target-Date 2045 M*star Category			222	182	142	68	N/A	N/A	N/A	224	183	146	68	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF LIFECYCLE 2050 FUND (TLFRX)^[11,9]	\$2,113.00	70	1.41%	10.75%	6.93%	12.57%	3.36%	7.42%	16.34%	4.49%	11.54%	7.72%	11.86%	5.57%	11/30/2007
Gross Expense Ratio		82													
BM: Lifecycle 2050 Fund Composite Index			4.64%	11.13%	7.68%	13.02%	3.27%	7.48%	15.73%	7.42%	11.89%	8.27%	12.30%	6.36%	
Fund vs. Lifecycle 2050 Fund Composite Index			-323	-38	-75	-45	9	-6	61	-293	-35	-55	-44	-79	
BM: S&P Target Date 2050 Index			3.41%	10.12%	6.96%	12.50%	3.05%	6.72%	14.68%	5.82%	10.90%	7.48%	11.76%	5.82%	
Fund vs. S&P Target Date 2050 Index			-200	63	-3	7	31	70	166	-133	64	24	10	-25	
PG: Target-Date 2050 M*star Category			2.87%	9.94%	6.41%	12.02%	N/A	N/A	N/A	5.59%	10.60%	7.00%	11.19%	N/A	
Fund vs. Target-Date 2050 M*star Category			-146	81	52	55	N/A	N/A	N/A	-110	94	72	67	N/A	
PG: Fund % Rank in Target-Date 2050 M*star Category			86%	12%	30%	25%	N/A	N/A	N/A	82%	10%	20%	18%	N/A	
PG: # of funds in Target-Date 2050 M*star Category			240	194	156	78	N/A	N/A	N/A	240	201	159	78	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF LIFECYCLE 2055 FUND (TTR LX)^[11,9]	\$731.50	70	1.27%	10.83%	6.98%	N/A	3.44%	7.45%	16.56%	4.47%	11.66%	7.79%	N/A	8.41%	4/29/2011
Gross Expense Ratio		84													
BM: Lifecycle 2055 Fund Composite Index			4.63%	11.25%	7.77%		3.32%	7.55%	15.91%	7.43%	12.03%	8.36%		9.08%	
Fund vs. Lifecycle 2055 Fund Composite Index			-336	-42	-79		12	-10	65	-296	-37	-57		-67	
BM: S&P Target Date 2055 Index			3.37%	10.29%	7.02%		3.06%	6.73%	14.71%	5.77%	11.07%	7.55%		8.37%	
Fund vs. S&P Target Date 2055 Index			-210	54	-4		38	72	185	-130	59	24		4	
PG: Target-Date 2055 M*star Category			2.84%	10.10%	6.49%		N/A	N/A	N/A	5.72%	10.82%	7.10%		N/A	
Fund vs. Target-Date 2055 M*star Category			-157	73	49		N/A	N/A	N/A	-125	84	69		N/A	
PG: Fund % Rank in Target-Date 2055 M*star Category			89%	13%	29%		N/A	N/A	N/A	87%	11%	13%		N/A	
PG: # of funds in Target-Date 2055 M*star Category			222	180	134		N/A	N/A	N/A	224	181	138		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]	\$129.50	70	1.23%	10.90%	N/A	N/A	3.50%	7.55%	16.68%	4.42%	11.74%	N/A	N/A	8.00%	9/26/2014
Gross Expense Ratio		104													
BM: Lifecycle 2060 Fund Composite Index			4.62%	11.37%			3.36%	7.63%	16.09%	7.44%	12.16%			8.47%	
Fund vs. Lifecycle 2060 Fund Composite Index			-339	-47			14	-8	59	-302	-42			-47	
BM: S&P Target Date 2060+ Index			3.50%	10.48%			3.10%	6.82%	14.87%	5.94%	11.27%			7.84%	
Fund vs. S&P Target Date 2060+ Index			-227	42			40	73	181	-152	47			16	
PG: Target-Date 2060+ M*star Category			2.99%	10.21%			N/A	N/A	N/A	5.78%	10.94%			N/A	
Fund vs. Target-Date 2060+ M*star Category			-176	69			N/A	N/A	N/A	-136	80			N/A	
PG: Fund % Rank in Target-Date 2060+ M*star Category			89%	15%			N/A	N/A	N/A	87%	12%			N/A	
PG: # of funds in Target-Date 2060+ M*star Category			206	125			N/A	N/A	N/A	212	125			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]	\$445.00	35	4.23%	5.89%	4.70%	N/A	1.46%	4.24%	8.32%	5.90%	6.19%	4.84%	N/A	6.60%	9/30/2009
Gross Expense Ratio		50													
BM: Lifecycle Index 2010 Composite Benchmark			4.53%	6.25%	5.02%		1.55%	4.32%	8.45%	6.16%	6.55%	5.20%		7.00%	
Fund vs. Lifecycle Index 2010 Composite Benchmark			-30	-36	-32		-9	-8	-13	-26	-36	-36		-40	
BM: S&P Target Date 2010 Index			3.81%	5.48%	4.35%		1.40%	3.85%	7.69%	5.19%	5.76%	4.52%		6.12%	
Fund vs. S&P Target Date 2010 Index			42	41	35		6	39	63	71	43	32		48	
PG: Target-Date 2000-2010 M*star Category			3.36%	5.56%	4.16%		N/A	N/A	N/A	4.73%	5.68%	4.32%		N/A	
Fund vs. Target-Date 2000-2010 M*star Category			87	33	54		N/A	N/A	N/A	117	51	52		N/A	
PG: Fund % Rank in Target-Date 2000-2010 M*star Category			17%	41%	17%		N/A	N/A	N/A	9%	34%	19%		N/A	
PG: # of funds in Target-Date 2000-2010 M*star Category			138	113	92		N/A	N/A	N/A	138	113	92		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]	\$892.20	35	4.35%	6.43%	5.01%	N/A	1.65%	4.52%	9.01%	6.15%	6.81%	5.22%	N/A	7.08%	9/30/2009
Gross Expense Ratio		48													
BM: Lifecycle Index 2015 Composite Benchmark			4.61%	6.77%	5.33%		1.71%	4.65%	9.17%	6.36%	7.11%	5.55%		7.48%	
Fund vs. Lifecycle Index 2015 Composite Benchmark			-26	-34	-32		-6	-13	-16	-21	-30	-33		-40	
BM: S&P Target Date 2015 Index			3.90%	6.25%	4.85%		1.59%	4.19%	8.59%	5.38%	6.58%	5.05%		6.91%	
Fund vs. S&P Target Date 2015 Index			45	18	16		6	33	42	77	23	17		17	
PG: Target-Date 2015 M*star Category			3.48%	6.16%	4.42%		N/A	N/A	N/A	5.08%	6.33%	4.61%		N/A	
Fund vs. Target-Date 2015 M*star Category			87	27	59		N/A	N/A	N/A	107	48	61		N/A	
PG: Fund % Rank in Target-Date 2015 M*star Category			18%	41%	22%		N/A	N/A	N/A	13%	31%	22%		N/A	
PG: # of funds in Target-Date 2015 M*star Category			139	112	83		N/A	N/A	N/A	136	110	80		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 April 30, 2019
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 04/30/19	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
04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19					
TIAA-CREF LIFECYCLE INDEX 2020 FUND (TLWRX) ^[11.9]	\$2,234.00	35	4.39%	7.15%	5.41%	N/A	1.86%	4.96%	9.86%	6.40%	7.57%	5.67%	N/A	7.67%	9/30/2009
Gross Expense Ratio		46													
BM: Lifecycle Index 2020 Composite Benchmark			4.70%	7.49%	5.74%		1.91%	5.02%	10.01%	6.58%	7.88%	6.01%		8.07%	
Fund vs. Lifecycle Index 2020 Composite Benchmark			-31	-34	-33		-5	-6	-15	-18	-31	-34		-40	
BM: S&P Target Date 2020 Index			3.94%	6.97%	5.27%		1.77%	4.52%	9.35%	5.54%	7.35%	5.52%		7.58%	
Fund vs. S&P Target Date 2020 Index			45	18	14		9	44	51	86	22	15		9	
PG: Target-Date 2020 Mstar Category			3.38%	6.57%	4.58%		N/A	N/A	N/A	5.03%	6.78%	4.83%		N/A	
Fund vs. Target-Date 2020 Mstar Category			101	58	83		N/A	N/A	N/A	137	79	84		N/A	
PG: Fund % Rank in Target-Date 2020 Mstar Category			16%	33%	17%		N/A	N/A	N/A	13%	25%	20%		N/A	
PG: # of funds in Target-Date 2020 Mstar Category			251	204	166		N/A	N/A	N/A	251	211	169		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2025 FUND (TLGRX) ^[11.9]	\$2,878.30	35	4.42%	7.98%	5.86%	N/A	2.11%	5.42%	10.98%	6.62%	8.47%	6.19%	N/A	8.29%	9/30/2009
Gross Expense Ratio		45													
BM: Lifecycle Index 2025 Composite Benchmark			4.76%	8.31%	6.20%		2.18%	5.53%	11.16%	6.83%	8.77%	6.53%		8.68%	
Fund vs. Lifecycle Index 2025 Composite Benchmark			-34	-33	-34		-7	-11	-18	-21	-30	-34		-39	
BM: S&P Target Date 2025 Index			3.90%	7.74%	5.66%		2.08%	5.06%	10.62%	5.69%	8.22%	5.98%		8.18%	
Fund vs. S&P Target Date 2025 Index			52	24	20		3	36	36	93	25	21		11	
PG: Target-Date 2025 Mstar Category			3.38%	7.51%	5.09%		N/A	N/A	N/A	5.35%	7.84%	5.43%		N/A	
Fund vs. Target-Date 2025 Mstar Category			104	47	77		N/A	N/A	N/A	127	63	76		N/A	
PG: Fund % Rank in Target-Date 2025 Mstar Category			13%	35%	19%		N/A	N/A	N/A	11%	31%	20%		N/A	
PG: # of funds in Target-Date 2025 Mstar Category			227	187	147		N/A	N/A	N/A	229	188	151		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]	\$3,061.20	35	4.49%	8.80%	6.32%	N/A	2.44%	5.95%	12.19%	6.92%	9.39%	6.72%	N/A	8.92%	9/30/2009
Gross Expense Ratio		45													
BM: Lifecycle Index 2030 Composite Benchmark			4.82%	9.12%	6.65%		2.45%	6.04%	12.31%	7.07%	9.67%	7.05%		9.30%	
Fund vs. Lifecycle Index 2030 Composite Benchmark			-33	-32	-33		-1	-9	-12	-15	-28	-33		-38	
BM: S&P Target Date 2030 Index			3.82%	8.44%	6.05%		2.41%	5.65%	12.03%	5.85%	9.02%	6.44%		8.72%	
Fund vs. S&P Target Date 2030 Index			67	36	27		3	30	16	107	37	28		20	
PG: Target-Date 2030 Mstar Category			3.31%	8.34%	5.56%		N/A	N/A	N/A	5.43%	8.73%	5.97%		N/A	
Fund vs. Target-Date 2030 Mstar Category			118	46	76		N/A	N/A	N/A	149	66	75		N/A	
PG: Fund % Rank in Target-Date 2030 Mstar Category			14%	37%	20%		N/A	N/A	N/A	11%	28%	22%		N/A	
PG: # of funds in Target-Date 2030 Mstar Category			240	194	156		N/A	N/A	N/A	240	201	159		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]	\$2,794.00	35	4.43%	9.59%	6.72%	N/A	2.75%	6.45%	13.34%	7.14%	10.28%	7.19%	N/A	9.50%	9/30/2009
Gross Expense Ratio		44													
BM: Lifecycle Index 2035 Composite Benchmark			4.84%	9.93%	7.06%		2.73%	6.55%	13.46%	7.27%	10.55%	7.53%		9.89%	
Fund vs. Lifecycle Index 2035 Composite Benchmark			-41	-34	-34		2	-10	-12	-13	-27	-34		-39	
BM: S&P Target Date 2035 Index			3.66%	9.09%	6.41%		2.71%	6.16%	13.26%	5.87%	9.77%	6.86%		9.18%	
Fund vs. S&P Target Date 2035 Index			77	50	31		4	29	8	127	51	33		32	
PG: Target-Date 2035 Mstar Category			3.17%	9.13%	5.95%		N/A	N/A	N/A	5.64%	9.68%	6.45%		N/A	
Fund vs. Target-Date 2035 Mstar Category			126	46	77		N/A	N/A	N/A	150	60	74		N/A	
PG: Fund % Rank in Target-Date 2035 Mstar Category			15%	31%	16%		N/A	N/A	N/A	10%	24%	18%		N/A	
PG: # of funds in Target-Date 2035 Mstar Category			222	182	142		N/A	N/A	N/A	224	183	146		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2040 FUND (TLZRX) ^[11.9]	\$2,962.30	35	4.42%	10.40%	7.12%	N/A	3.02%	6.94%	14.47%	7.24%	11.18%	7.65%	N/A	9.91%	9/30/2009
Gross Expense Ratio		44													
BM: Lifecycle Index 2040 Composite Benchmark			4.80%	10.71%	7.45%		3.01%	7.05%	14.60%	7.40%	11.42%	7.98%		10.29%	
Fund vs. Lifecycle Index 2040 Composite Benchmark			-38	-31	-33		1	-11	-13	-16	-24	-33		-38	
BM: S&P Target Date 2040 Index			3.59%	9.56%	6.66%		2.89%	6.47%	14.03%	5.91%	10.29%	7.15%		9.51%	
Fund vs. S&P Target Date 2040 Index			83	84	46		13	47	44	133	89	50		40	
PG: Target-Date 2040 Mstar Category			3.04%	9.54%	6.18%		N/A	N/A	N/A	5.56%	10.12%	6.72%		N/A	
Fund vs. Target-Date 2040 Mstar Category			138	86	94		N/A	N/A	N/A	168	106	93		N/A	
PG: Fund % Rank in Target-Date 2040 Mstar Category			15%	18%	9%		N/A	N/A	N/A	10%	18%	15%		N/A	
PG: # of funds in Target-Date 2040 Mstar Category			240	194	156		N/A	N/A	N/A	240	201	159		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]	\$1,945.70	35	4.36%	10.73%	7.32%	N/A	3.25%	7.39%	15.37%	7.37%	11.59%	7.90%	N/A	10.03%	9/30/2009
Gross Expense Ratio		45													
BM: Lifecycle Index 2045 Composite Benchmark			4.74%	11.04%	7.65%		3.23%	7.43%	15.46%	7.49%	11.83%	8.23%		10.42%	
Fund vs. Lifecycle Index 2045 Composite Benchmark			-38	-31	-33		2	-4	-9	-12	-24	-33		-39	
BM: S&P Target Date 2045 Index			3.46%	9.85%	6.81%		2.99%	6.62%	14.41%	5.83%	10.61%	7.32%		9.72%	
Fund vs. S&P Target Date 2045 Index			90	88	51		26	77	96	154	98	58		31	
PG: Target-Date 2045 Mstar Category			2.94%	9.92%	6.35%		N/A	N/A	N/A	5.74%	10.61%	6.94%		N/A	
Fund vs. Target-Date 2045 Mstar Category			142	81	97		N/A	N/A	N/A	163	98	96		N/A	
PG: Fund % Rank in Target-Date 2045 Mstar Category			12%	14%	6%		N/A	N/A	N/A	11%	9%	6%		N/A	
PG: # of funds in Target-Date 2045 Mstar Category			222	182	142		N/A	N/A	N/A	224	183	146		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFECYCLE INDEX 2050 FUND (TLRLX) ^[11.9]	\$1,472.40	35	4.34%	10.87%	7.41%	N/A	3.29%	7.47%	15.56%	7.39%	11.72%	7.99%	N/A	10.09%	9/30/2009
Gross Expense Ratio		45													
BM: Lifecycle Index 2050 Composite Benchmark			4.73%	11.17%	7.73%		3.28%	7.51%	15.64%	7.51%	11.97%	8.33%		10.47%	
Fund vs. Lifecycle Index 2050 Composite Benchmark			-39	-30	-32		1	-4	-8	-12	-25	-34		-38	
BM: S&P Target Date 2050 Index			3.41%	10.12%	6.96%		3.05%	6.72%	14.68%	5.82%	10.90%	7.48%		9.89%	
Fund vs. S&P Target Date 2050 Index			93	75	45		24	75	88	157	82	51		20	
PG: Target-Date 2050 Mstar Category			2.87%	9.94%	6.41%		N/A	N/A	N/A	5.59%	10.60%	7.00%		N/A	
Fund vs. Target-Date 2050 Mstar Category			147	93	100		N/A	N/A	N/A	180	112	99		N/A	
PG: Fund % Rank in Target-Date 2050 Mstar Category			13%	10%	6%		N/A	N/A	N/A	11%	7%	6%		N/A	
PG: # of funds in Target-Date 2050 Mstar Category			240	194	156		N/A	N/A	N/A	240	201	159		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 April 30, 2019
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 2055 FUND (TTIRX)^[11,9]	\$606.20	35	4.33%	10.98%	7.48%	N/A	3.35%	7.48%	15.68%	7.41%	11.88%	8.09%	N/A	8.76%	4/29/2011
Gross Expense Ratio		48													
BM: Lifecycle Index 2055 Composite Benchmark			4.72%	11.29%	7.82%		3.32%	7.58%	15.82%	7.53%	12.10%	8.42%		9.12%	
Fund vs. Lifecycle Index 2055 Composite Benchmark			-39	-31	-34		3	-10	-14	-12	-22	-33		-36	
BM: S&P Target Date 2055 Index			3.37%	10.29%	7.02%		3.06%	6.73%	14.71%	5.77%	11.07%	7.55%		8.37%	
Fund vs. S&P Target Date 2055 Index			96	69	46		29	75	97	164	81	54		39	
PG: Target-Date 2055 M*star Category			2.84%	10.10%	6.49%		N/A	N/A	N/A	5.72%	10.82%	7.10%		N/A	
Fund vs. Target-Date 2055 M*star Category			149	88	99		N/A	N/A	N/A	169	106	99		N/A	
PG: Fund % Rank in Target-Date 2055 M*star Category			11%	9%	6%		N/A	N/A	N/A	10%	7%	6%		N/A	
PG: # of funds in Target-Date 2055 M*star Category			222	180	134		N/A	N/A	N/A	224	181	138		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]	\$145.80	35	4.37%	11.12%	N/A	N/A	3.38%	7.62%	15.87%	7.46%	12.02%	N/A	N/A	8.23%	9/26/2014
Gross Expense Ratio		71													
BM: Lifecycle Index 2060 Composite Benchmark			4.71%	11.41%			3.37%	7.66%	16.00%	7.54%	12.24%			8.56%	
Fund vs. Lifecycle Index 2060 Composite Benchmark			-34	-29			1	-4	-13	-8	-22			-33	
BM: S&P Target Date 2060+ Index			3.50%	10.48%			3.10%	6.82%	14.87%	5.94%	11.27%			7.84%	
Fund vs. S&P Target Date 2060+ Index			87	64			28	80	100	152	75			39	
PG: Target-Date 2060+ M*star Category			2.99%	10.21%			N/A	N/A	N/A	5.78%	10.94%			N/A	
Fund vs. Target-Date 2060+ M*star Category			138	91			N/A	N/A	N/A	168	108			N/A	
PG: Fund % Rank in Target-Date 2060+ M*star Category			14%	8%			N/A	N/A	N/A	10%	3%			N/A	
PG: # of funds in Target-Date 2060+ M*star Category			206	125			N/A	N/A	N/A	212	125			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]	\$369.50	35	4.28%	5.62%	4.51%	N/A	1.47%	4.20%	8.15%	5.89%	5.95%	4.66%	N/A	6.16%	9/30/2009
Gross Expense Ratio		55													
BM: Lifecycle Index Retirement Income Composite Benchmark			4.50%	5.91%	4.82%		1.51%	4.24%	8.24%	6.10%	6.21%	4.98%		6.55%	
Fund vs. Lifecycle Index Retirement Income Composite Benchmark			-22	-29	-31		-4	-4	-9	-21	-26	-32		-39	
BM: S&P Target Date Retirement Income Index			3.72%	4.70%	3.89%		1.20%	3.46%	6.84%	4.95%	4.94%	4.01%		5.31%	
Fund vs. S&P Target Date Retirement Income Index			56	92	62		27	74	131	94	101	65		85	
PG: Target-Date Retirement M*star Category			3.44%	4.79%	3.45%		N/A	N/A	N/A	4.63%	4.87%	3.58%		N/A	
Fund vs. Target-Date Retirement M*star Category			84	83	106		N/A	N/A	N/A	126	108	108		N/A	
PG: Fund % Rank in Target-Date Retirement M*star Category			18%	18%	9%		N/A	N/A	N/A	10%	17%	11%		N/A	
PG: # of funds in Target-Date Retirement M*star Category			185	161	126		N/A	N/A	N/A	185	161	129		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]	\$534.30	62	2.94%	6.10%	4.50%	7.72%	1.51%	4.07%	8.39%	4.67%	6.30%	4.76%	7.38%	4.73%	11/30/2007
Gross Expense Ratio		77													
BM: Lifecycle Retirement Income Fund Composite Index			4.46%	5.89%	4.72%	7.73%	1.50%	4.23%	8.28%	6.07%	6.18%	4.89%	7.39%	4.99%	
Fund vs. Lifecycle Retirement Income Fund Composite Index			-152	21	-22	-1	1	-16	11	-140	12	-13	-1	-26	
BM: S&P Target Date Retirement Income Index			3.72%	4.70%	3.89%	6.38%	1.20%	3.46%	6.84%	4.95%	4.94%	4.01%	6.14%	3.92%	
Fund vs. S&P Target Date Retirement Income Index			-78	140	61	134	31	61	155	-28	136	75	124	81	
PG: Target-Date Retirement M*star Category			3.44%	4.79%	3.45%	6.62%	N/A	N/A	N/A	4.63%	4.87%	3.58%	6.24%	N/A	
Fund vs. Target-Date Retirement M*star Category			-50	131	105	110	N/A	N/A	N/A	4	143	118	114	N/A	
PG: Fund % Rank in Target-Date Retirement M*star Category			78%	10%	10%	18%	N/A	N/A	N/A	51%	9%	7%	14%	N/A	
PG: # of funds in Target-Date Retirement M*star Category			185	161	126	91	N/A	N/A	N/A	185	161	129	91	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]	\$123.60	80	0.69%	11.08%	7.03%	N/A	3.66%	8.02%	17.86%	4.00%	12.00%	7.94%	N/A	11.48%	12/9/2011
Gross Expense Ratio		100													
BM: Lifestyle Aggressive Composite Benchmark			4.56%	11.89%	8.01%		3.57%	8.00%	16.94%	7.51%	12.75%	8.67%		11.93%	
Fund vs. Lifestyle Aggressive Composite Benchmark			-387	-81	-98		9	2	92	-351	-75	-73		-45	
BM: Morningstar Aggressive Target Risk TR USD			3.76%	11.37%	7.03%		3.03%	6.91%	15.64%	6.29%	11.88%	7.58%		10.76%	
Fund vs. Morningstar Aggressive Target Risk TR USD			-307	-29	0		63	111	222	-229	12	36		72	
PG: Allocation-85%+ Equity M*star Category			2.64%	9.60%	5.99%		N/A	N/A	N/A	5.09%	10.28%	6.55%		N/A	
Fund vs. Allocation-85%+ Equity M*star Category			-195	148	104		N/A	N/A	N/A	-109	172	139		N/A	
PG: Fund % Rank in Allocation-85%+ Equity M*star Category			81%	13%	25%		N/A	N/A	N/A	66%	13%	17%		N/A	
PG: # of funds in Allocation-85%+ Equity M*star Category			186	165	144		N/A	N/A	N/A	198	175	157		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFESTYLE CONSERVATIVE FUND (TSCTX)^[12]	\$234.20	71	2.66%	5.97%	4.39%	N/A	1.54%	4.24%	8.86%	4.33%	6.17%	4.68%	N/A	6.29%	12/9/2011
Gross Expense Ratio		81													
BM: Lifestyle Conservative Composite Benchmark			4.50%	5.87%	4.67%		1.48%	4.14%	8.12%	6.08%	6.15%	4.87%		6.08%	
Fund vs. Lifestyle Conservative Composite Benchmark			-184	10	-28		6	10	74	-175	2	-19		21	
BM: Morningstar Moderately Conservative Target Risk TR USD			4.62%	6.16%	4.43%		1.33%	3.96%	8.14%	6.18%	6.27%	4.57%		5.97%	
Fund vs. Morningstar Moderately Conservative Target Risk TR USD			-196	-19	-4		21	28	72	-185	-10	11		32	
PG: Allocation-30% to 50% Equity M*star Category			3.03%	5.53%	3.69%		N/A	N/A	N/A	4.46%	5.59%	3.86%		N/A	
Fund vs. Allocation-30% to 50% Equity M*star Category			-37	44	70		N/A	N/A	N/A	-13	58	82		N/A	
PG: Fund % Rank in Allocation-30% to 50% Equity M*star Category			64%	33%	24%		N/A	N/A	N/A	59%	31%	22%		N/A	
PG: # of funds in Allocation-30% to 50% Equity M*star Category			558	488	386		N/A	N/A	N/A	555	484	391		N/A	
Fund Star Rating			N/A	****	****		N/A	N/A	N/A	N/A	****	****		N/A	
TIAA-CREF LIFESTYLE GROWTH FUND (TSGRX)^[13]	\$168.90	77	1.41%	9.50%	6.29%	N/A	2.95%	6.81%	14.96%	4.20%	10.13%	6.98%	N/A	9.92%	12/9/2011
Gross Expense Ratio		91													
BM: Lifestyle Growth Composite Benchmark			4.73%	9.95%	7.05%		2.86%	6.76%	14.07%	7.26%	10.60%	7.54%		10.10%	
Fund vs. Lifestyle Growth Composite Benchmark			-332	-45	-76		9	5	89	-306	-47	-56		-18	
BM: Morningstar Moderately Aggressive Target Risk TR USD			4.06%	10.02%	6.33%		2.53%	6.08%	13.51%	6.31%	10.36%	6.75%		9.46%	
Fund vs. Morningstar Moderately Aggressive Target Risk TR USD			-265	-52	-4		42	73	145	-211	-23	23		46	
PG: Allocation-70% to 85% Equity M*star Category			2.86%	8.38%	5.32%		N/A	N/A	N/A	5.21%	9.02%	5.90%		N/A	
Fund vs. Allocation-70% to 85% Equity M*star Category			-145	112	97		N/A	N/A	N/A	-101	111	108		N/A	
PG: Fund % Rank in Allocation-70% to 85% Equity M*star Category			77%	24%	28%		N/A	N/A	N/A	72%	26%	23%		N/A	
PG: # of funds in Allocation-70% to 85% Equity M*star Category			361	326	285		N/A	N/A	N/A	357	322	284		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 April 30, 2019
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 04/30/19	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 LIFESTYLE INCOME FUND (TLSRX)^[12]	\$73.50	67	2.82%	4.01%	3.18%	N/A	0.91%	2.85%	5.59%	4.04%	4.07%	3.31%	N/A	4.21%	12/9/2011
Gross Expense Ratio		93													
BM: Lifestyle Income Composite Benchmark			4.10%	3.74%	3.27%		0.82%	2.76%	5.06%	5.16%	3.87%	3.34%		3.92%	
Fund vs. Lifestyle Income Composite Benchmark			-128	27	-9		9	9	53	-112	20	-3		29	
BM: Morningstar Conservative Target Risk TR USD			4.30%	4.05%	3.12%		0.67%	2.72%	5.37%	5.44%	4.00%	3.11%		3.89%	
Fund vs. Morningstar Conservative Target Risk TR USD			-148	-4	6		24	13	22	-140	7	20		32	
PG: Allocation--15% to 30% Equity M*star Category			2.87%	4.01%	2.81%		N/A	N/A	N/A	3.69%	3.99%	2.88%		N/A	
Fund vs. Allocation--15% to 30% Equity M*star Category			-5	0	37		N/A	N/A	N/A	35	8	43		N/A	
PG: Fund % Rank in Allocation--15% to 30% Equity M*star Category			60%	57%	41%		N/A	N/A	N/A	56%	54%	41%		N/A	
PG: # of funds in Allocation--15% to 30% Equity M*star Category			204	183	150		N/A	N/A	N/A	207	185	158		N/A	
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A	
TIAA-CREF LIFESTYLE MODERATE FUND (TSMTX)^[13]	\$360.90	74	2.23%	7.88%	5.54%	N/A	2.26%	5.63%	12.12%	4.54%	8.28%	6.03%	N/A	8.36%	12/9/2011
Gross Expense Ratio		82													
BM: Lifestyle Moderate Composite Benchmark			4.81%	7.99%	6.04%		2.15%	5.54%	11.23%	6.92%	8.44%	6.36%		8.23%	
Fund vs. Lifestyle Moderate Composite Benchmark			-258	-11	-50		11	9	89	-238	-16	-33		13	
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%		1.93%	5.01%	10.78%	6.32%	8.29%	5.67%		7.75%	
Fund vs. Morningstar Moderate Target Risk TR USD			-219	-17	14		33	62	134	-178	-1	36		61	
PG: Allocation--50% to 70% Equity M*star Category			3.90%	7.44%	5.12%		N/A	N/A	N/A	6.02%	7.89%	5.53%		N/A	
Fund vs. Allocation--50% to 70% Equity M*star Category			-167	44	42		N/A	N/A	N/A	-148	39	50		N/A	
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			74%	36%	38%		N/A	N/A	N/A	69%	38%	37%		N/A	
PG: # of funds in Allocation--50% to 70% Equity M*star Category			758	690	601		N/A	N/A	N/A	756	688	605		N/A	
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A	
TIAA-CREF MANAGED ALLOCATION FUND (TITRX)^[13]	\$866.60	64	2.41%	7.97%	5.67%	10.16%	2.27%	5.58%	12.05%	4.74%	8.40%	6.15%	9.64%	5.80%	3/31/2006
Gross Expense Ratio		67													
BM: Managed Allocation Composite Index ^[2]			4.81%	7.99%	6.04%	9.99%	2.15%	5.54%	11.23%	6.92%	8.44%	6.36%	9.50%	6.19%	
Fund vs. Managed Allocation Composite Index			-240	-2	-37	17	12	4	82	-218	-4	-21	14	-39	
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%	9.55%	1.93%	5.01%	10.78%	6.32%	8.29%	5.67%	9.04%	6.16%	
Fund vs. Morningstar Moderate Target Risk TR USD			-201	-8	27	61	34	57	127	-158	11	48	60	-36	
PG: Allocation--50% to 70% Equity M*star Category			3.90%	7.44%	5.12%	9.98%	N/A	N/A	N/A	6.02%	7.89%	5.53%	9.42%	N/A	
Fund vs. Allocation--50% to 70% Equity M*star Category			-149	53	55	18	N/A	N/A	N/A	-128	51	62	22	N/A	
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			71%	34%	35%	42%	N/A	N/A	N/A	65%	36%	35%	42%	N/A	
PG: # of funds in Allocation--50% to 70% Equity M*star Category			758	690	601	439	N/A	N/A	N/A	756	688	605	444	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 April 30, 2019
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
	04/30/19		04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19		
Money Market															
TIAA-CREF MONEY MARKET FUND (TIEXX) ^[14,35,7]	\$1,248.10	40	1.83%	0.87%	0.52%	0.27%	0.18%	0.53%	0.71%	1.90%	0.93%	0.56%	0.28%	1.80%	7/1/1999
Gross Expense Ratio		40													3/31/2006
BM: iMoneynet Money Fund AveragesTM-All Government			1.67%	0.81%	0.49%	0.26%	0.17%	0.49%	0.66%	1.73%	0.87%	0.53%	0.27%	1.93%	
BM vs.iMoneynet Money Fund AveragesTM-All Government			16	6	3	1	1	4	5	17	6	3	1	-13	
7-Day Effective Yield as of 04/30/2019: 2.20%															
7-Day Current Yield as of 04/30/2019: 2.20%															
MUTUAL FUND TOTALS^[1]	\$140,435.20														

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 29, 2020 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 April 30, 2019
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							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		Since Inception
	04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inception to 04/30/19			
U.S. Equities															
TIAA-CREF EQUITY INDEX FUND (TINRX)^[6]	\$20,736.20	33	8.39%	13.13%	10.01%	15.64%	3.98%	9.09%	18.44%	12.30%	14.39%	10.86%	14.93%	6.08%	7/1/1999
Gross Expense Ratio		33													3/31/2006
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	6.32%	
Fund vs. Russell 3000 Index			-38	-35	-35	-36	-1	-13	-16	-38	-35	-34	-36	-24	
PG: Large Blend M*star Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A	
Fund vs. Large Blend M*star Category			149	129	110	110	N/A	N/A	N/A	142	130	115	104	N/A	
PG: Fund % Rank in Large Blend M*star Category			43%	30%	35%	26%	N/A	N/A	N/A	45%	31%	34%	27%	N/A	
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	N/A	
Fund Star Rating			N/A	****	***	****	N/A	N/A	N/A	N/A	***	***	****	N/A	
TIAA-CREF GROWTH & INCOME FUND (TIIRX)^[6]	\$6,871.30	69	5.56%	13.01%	9.93%	14.95%	4.11%	9.95%	19.30%	9.44%	14.25%	10.98%	14.47%	6.34%	7/1/1999
Gross Expense Ratio		69													3/31/2006
BM: S&P 500 Index			9.50%	13.51%	10.91%	15.92%	4.05%	9.48%	18.25%	13.49%	14.87%	11.63%	15.32%	5.91%	
Fund vs. S&P 500 Index			-394	-50	-98	-97	6	47	105	-405	-62	-65	-85	43	
PG: Large Growth M*star Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A	
Fund vs. Large Growth M*star Category			-515	-234	-133	-99	N/A	N/A	N/A	-533	-284	-148	-76	N/A	
PG: Fund % Rank in Large Growth M*star Category			91%	77%	72%	73%	N/A	N/A	N/A	90%	81%	73%	71%	N/A	
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	N/A	
Fund Star Rating			N/A	**	**	***	N/A	N/A	N/A	N/A	**	**	***	N/A	
TIAA-CREF LARGE-CAP GROWTH FUND (TIRTX)	\$5,731.90	72	13.08%	17.32%	13.85%	17.11%	3.71%	12.07%	21.96%	15.97%	19.04%	14.91%	16.51%	10.14%	3/31/2006
Gross Expense Ratio		72													3/31/2006
BM: Russell 1000 Growth Index			12.75%	16.53%	13.50%	17.52%	4.52%	11.34%	21.35%	17.43%	18.62%	14.50%	16.96%	10.44%	
Fund vs. Russell 1000 Growth Index			33	79	35	-41	-81	73	61	-146	42	41	-45	-48	
PG: Large Growth M*star Category			10.71%	15.35%	11.26%	15.94%	N/A	N/A	N/A	14.77%	17.09%	12.46%	15.23%	N/A	
Fund vs. Large Growth M*star Category			237	197	259	117	N/A	N/A	N/A	120	195	245	128	N/A	
PG: Fund % Rank in Large Growth M*star Category			25%	25%	16%	26%	N/A	N/A	N/A	42%	28%	19%	24%	N/A	
PG: # of funds in Large Growth M*star Category			1397	1256	1114	805	N/A	N/A	N/A	1405	1254	1123	817	N/A	
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A	
TIAA-CREF LARGE-CAP VALUE FUND (TCLCX)	\$6,219.00	71	-1.56%	8.04%	5.31%	13.30%	4.11%	7.77%	16.52%	2.14%	8.64%	6.05%	12.25%	8.87%	10/1/2002
Gross Expense Ratio		71													10/1/2002
BM: Russell 1000 Value Index			5.67%	10.45%	7.72%	14.52%	3.55%	7.54%	15.90%	9.06%	10.97%	8.27%	13.76%	9.35%	
Fund vs. Russell 1000 Value Index			-723	-241	-241	-122	56	23	62	-692	-233	-222	-151	-48	
PG: Large Value M*star Category			4.48%	10.01%	7.20%	13.68%	N/A	N/A	N/A	7.41%	10.78%	7.75%	12.88%	N/A	
Fund vs. Large Value M*star Category			-604	-197	-189	-38	N/A	N/A	N/A	-527	-214	-170	-63	N/A	
PG: Fund % Rank in Large Value M*star Category			94%	87%	90%	62%	N/A	N/A	N/A	91%	90%	88%	71%	N/A	
PG: # of funds in Large Value M*star Category			1229	1096	939	691	N/A	N/A	N/A	1259	1114	958	699	N/A	
Fund Star Rating			N/A	**	**	**	N/A	N/A	N/A	N/A	*	**	**	N/A	
TIAA-CREF MID-CAP GROWTH FUND (TCMGX)	\$1,551.10	77	9.62%	14.06%	8.42%	16.11%	4.39%	12.78%	27.19%	14.79%	15.60%	10.17%	15.14%	11.47%	10/1/2002
Gross Expense Ratio		77													10/1/2002
BM: Russell Mid Cap Growth Index			11.51%	15.06%	10.89%	17.60%	4.50%	12.12%	25.00%	17.64%	16.78%	12.20%	16.56%	12.37%	
Fund vs. Russell Mid Cap Growth Index			-189	-100	-247	-149	-11	66	219	-285	-118	-203	-142	-90	
PG: Mid-Cap Growth M*star Category			8.04%	14.18%	8.99%	15.70%	N/A	N/A	N/A	13.49%	15.65%	10.59%	14.80%	N/A	
Fund vs. Mid-Cap Growth M*star Category			158	-12	-57	41	N/A	N/A	N/A	130	-5	-42	34	N/A	
PG: Fund % Rank in Mid-Cap Growth M*star Category			39%	52%	66%	44%	N/A	N/A	N/A	45%	51%	63%	46%	N/A	
PG: # of funds in Mid-Cap Growth M*star Category			615	555	495	352	N/A	N/A	N/A	611	549	488	351	N/A	
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A	
TIAA-CREF MID-CAP VALUE FUND (TCMVX)	\$3,299.90	72	-0.68%	7.56%	5.36%	13.96%	3.72%	6.28%	18.84%	2.10%	8.49%	6.16%	12.86%	10.90%	10/1/2002
Gross Expense Ratio		72													10/1/2002
BM: Russell Mid Cap Value Index			2.89%	9.50%	7.22%	16.39%	3.30%	7.12%	18.14%	5.76%	9.91%	7.83%	14.98%	11.29%	
Fund vs. Russell Mid Cap Value Index			-357	-194	-186	-243	42	-84	70	-366	-142	-167	-212	-39	
PG: Mid-Cap Value M*star Category			0.66%	8.55%	5.87%	14.46%	N/A	N/A	N/A	3.65%	9.33%	6.75%	13.25%	N/A	
Fund vs. Mid-Cap Value M*star Category			-134	-99	-51	-50	N/A	N/A	N/A	-155	-84	-59	-39	N/A	
PG: Fund % Rank in Mid-Cap Value M*star Category			64%	76%	64%	63%	N/A	N/A	N/A	67%	76%	68%	67%	N/A	
PG: # of funds in Mid-Cap Value M*star Category			417	368	318	225	N/A	N/A	N/A	405	357	313	216	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]	\$3,168.20	71	1.84%	12.51%	7.76%	15.55%	3.21%	6.42%	18.85%	5.63%	13.57%	9.15%	14.33%	10.58%	10/1/2002
Gross Expense Ratio		71													10/1/2002
BM: Russell 2000 Index			2.05%	12.92%	7.05%	15.36%	3.40%	6.50%	18.48%	4.61%	13.60%	8.63%	14.10%	10.70%	
Fund vs. Russell 2000 Index			-21	-41	71	19	-19	-8	37	102	-3	52	23	-12	
PG: Small Growth M*star Category			7.70%	15.88%	8.45%	16.24%	N/A	N/A	N/A	11.32%	16.82%	10.34%	15.15%	N/A	
Fund vs. Small Growth M*star Category			-586	-337	-69	-69	N/A	N/A	N/A	-569	-325	-119	-82	N/A	
PG: Fund % Rank in Small Growth M*star Category			82%	77%	65%	69%	N/A	N/A	N/A	80%	77%	71%	71%	N/A	
PG: # of funds in Small Growth M*star Category			679	588	522	392	N/A	N/A	N/A	679	587	524	393	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]	\$705.40	88	7.41%	N/A	N/A	N/A	3.69%	8.15%	20.94%	10.47%	N/A	N/A	N/A	13.89%	8/5/2016
Gross Expense Ratio		88													8/5/2016
BM: Russell 2500 Index			4.48%				3.50%	7.50%	19.88%	7.89%				11.59%	
Fund vs. Russell 2500 Index			293				19	65	106	258				230	
PG: Small Blend M*star Category			-0.03%				N/A	N/A	N/A	3.23%				N/A	
Fund vs. Small Blend M*star Category			744				N/A	N/A	N/A	724				N/A	
PG: Fund % Rank in Small Blend M*star Category			4%				N/A	N/A	N/A	6%				N/A	
PG: # of funds in Small Blend M*star Category			738				N/A	N/A	N/A	742				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 April 30, 2019
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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	
TIAA-CREF REAL ESTATE SECURITIES FUND (TCREX)	\$2,383.00	81	18.50%	7.82%	10.02%	18.40%	0.66%	6.19%	17.98%	18.55%	8.89%	9.59%	15.41%	10.39%	10/1/2002	
Gross Expense Ratio		81														
BM: FTSE Nareit All Equity REITs Index			20.46%	7.84%	10.00%	18.80%	-0.23%	4.77%	16.90%	19.56%	8.42%	9.30%	15.61%	10.82%		
Fund vs. FTSE Nareit All Equity REITs Index			-196	-2	2	-40	89	142	108	-107	47	29	-20	-43		
PG: Real Estate M*star Category			17.08%	6.00%	8.29%	17.24%	N/A	N/A	N/A	16.22%	6.82%	7.72%	14.32%	N/A		
Fund vs. Real Estate M*star Category			142	182	173	116	N/A	N/A	N/A	233	207	187	109	N/A		
PG: Fund % Rank in Real Estate M*star Category			43%	11%	6%	22%	N/A	N/A	N/A	22%	8%	6%	19%	N/A		
PG: # of funds in Real Estate M*star Category			251	225	198	139	N/A	N/A	N/A	253	225	198	139	N/A		
Fund Star Rating			N/A	****	****	****	N/A	N/A	N/A	N/A	****	****	****	N/A		
TIAA-CREF SOCIAL CHOICE EQUITY FUND (TICRX)^[6]	\$4,405.90	45	7.57%	12.95%	9.23%	15.12%	3.34%	8.45%	17.65%	10.97%	13.85%	9.88%	14.28%	5.85%	7/1/1999	
Gross Expense Ratio		45													3/31/2006	
BM: Russell 3000 Index			8.77%	13.48%	10.36%	16.00%	3.99%	9.22%	18.60%	12.68%	14.74%	11.20%	15.29%	6.32%		
Fund vs. Russell 3000 Index			-120	-53	-113	-88	-65	-77	-95	-171	-89	-132	-101	-47		
PG: Large Blend M*star Category			6.90%	11.84%	8.91%	14.54%	N/A	N/A	N/A	10.88%	13.09%	9.71%	13.89%	N/A		
Fund vs. Large Blend M*star Category			67	111	32	58	N/A	N/A	N/A	9	76	17	39	N/A		
PG: Fund % Rank in Large Blend M*star Category			52%	35%	51%	42%	N/A	N/A	N/A	58%	44%	53%	48%	N/A		
PG: # of funds in Large Blend M*star Category			1412	1218	1081	810	N/A	N/A	N/A	1407	1203	1073	802	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 (TLWCX)	\$185.00	64	7.01%	12.57%	N/A	N/A	3.22%	7.96%	17.19%	10.28%	13.42%	N/A	N/A	10.72%	8/7/2015	
Gross Expense Ratio		64														
BM: Russell 3000 Index			8.77%	13.48%			3.99%	9.22%	18.60%	12.68%	14.74%			11.63%		
Fund vs. Russell 3000 Index			-176	-91			-77	-126	-141	-240	-132			-91		
PG: Large Blend M*star Category			6.90%	11.84%			N/A	N/A	N/A	10.88%	13.09%			N/A		
Fund vs. Large Blend M*star Category			11	73			N/A	N/A	N/A	-60	33			N/A		
PG: Fund % Rank in Large Blend M*star Category			58%	45%			N/A	N/A	N/A	64%	53%			N/A		
PG: # of funds in Large Blend M*star Category			1412	1218			N/A	N/A	N/A	1407	1203			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 (TEMRX)	\$1,708.40	127	-8.90%	12.14%	3.01%	N/A	1.95%	3.14%	16.65%	-5.36%	12.65%	3.47%	N/A	2.97%	8/31/2010	
Gross Expense Ratio		127														
BM: MS Emerging Market			-7.41%	10.68%	3.68%		2.11%	3.19%	12.23%	-5.04%	11.25%	4.04%		3.65%		
Fund vs. MS Emerging Market			-149	146	-67		-16	-5	442	-32	140	-57		-68		
PG: Diversified Emerging Mkts M*star Category			-9.31%	9.11%	2.61%		N/A	N/A	N/A	-5.91%	9.36%	2.88%		N/A		
Fund vs. Diversified Emerging Mkts M*star Category			41	303	40		N/A	N/A	N/A	55	329	59		N/A		
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			49%	15%	51%		N/A	N/A	N/A	45%	13%	46%		N/A		
PG: # of funds in Diversified Emerging Mkts M*star Category			833	707	553		N/A	N/A	N/A	834	712	553		N/A		
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A		
TIAA-CREF EMERGING MARKETS EQUITY INDEX FUND (TEQKX)	\$2,385.80	57	-8.44%	10.22%	3.22%	N/A	2.09%	2.74%	12.41%	-4.97%	10.81%	3.57%	N/A	2.93%	8/31/2010	
Gross Expense Ratio		57														
BM: MS Emerging Market			-7.41%	10.68%	3.68%		2.11%	3.19%	12.23%	-5.04%	11.25%	4.04%		3.65%		
Fund vs. MS Emerging Market			-103	-46	-46		-2	-45	18	7	-44	-47		-72		
PG: Diversified Emerging Mkts M*star Category			-9.31%	9.11%	2.61%		N/A	N/A	N/A	-5.91%	9.36%	2.88%		N/A		
Fund vs. Diversified Emerging Mkts M*star Category			87	111	61		N/A	N/A	N/A	94	145	69		N/A		
PG: Fund % Rank in Diversified Emerging Mkts M*star Category			45%	37%	45%		N/A	N/A	N/A	42%	36%	45%		N/A		
PG: # of funds in Diversified Emerging Mkts M*star Category			833	707	553		N/A	N/A	N/A	834	712	553		N/A		
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A		
TIAA-CREF INTERNATIONAL EQUITY FUND (TIERX)^[6]	\$4,860.80	80	-15.29%	3.88%	-0.51%	8.71%	4.54%	5.82%	14.59%	-12.65%	4.52%	0.72%	7.79%	4.44%	7/1/1999	
Gross Expense Ratio		80													3/31/2006	
BM: Morgan Stanley EAFE Index			-3.71%	7.27%	2.33%	8.96%	2.81%	6.10%	13.07%	-3.22%	7.24%	2.60%	7.95%	4.00%		
Fund vs. Morgan Stanley EAFE Index			-1158	-339	-284	-25	173	-28	152	-943	-272	-188	-16	44		
PG: Foreign Large Blend M*star Category			-5.01%	6.62%	2.10%	8.43%	N/A	N/A	N/A	-3.71%	7.00%	2.52%	7.56%	N/A		
Fund vs. Foreign Large Blend M*star Category			-1028	-274	-261	28	N/A	N/A	N/A	-894	-248	-180	23	N/A		
PG: Fund % Rank in Foreign Large Blend M*star Category			100%	93%	96%	43%	N/A	N/A	N/A	100%	93%	93%	47%	N/A		
PG: # of funds in Foreign Large Blend M*star Category			753	644	514	384	N/A	N/A	N/A	730	618	496	365	N/A		
Fund Star Rating			N/A	*	*	**	N/A	N/A	N/A	N/A	*	*	**	N/A		
TIAA-CREF INTERNATIONAL OPPORTUNITIES FUND (TIOSX)	\$1,769.70	102	-5.95%	9.18%	3.37%	N/A	4.21%	8.07%	20.26%	-1.41%	10.03%	4.61%	N/A	5.31%	4/12/2013	
Gross Expense Ratio		102														
BM: MSCI ACWI ex-US Index			-4.22%	8.09%	2.57%		2.64%	5.27%	13.22%	-3.23%	8.09%	2.83%		4.33%		
Fund vs. MSCI ACWI ex-US Index			-173	109	80		157	280	704	182	194	178		98		
PG: Foreign Large Growth M*star Category			-3.20%	8.05%	3.86%		N/A	N/A	N/A	-0.11%	8.75%	4.44%		N/A		
Fund vs. Foreign Large Growth M*star Category			-275	113	-49		N/A	N/A	N/A	-130	128	17		N/A		
PG: Fund % Rank in Foreign Large Growth M*star Category			80%	33%	54%		N/A	N/A	N/A	64%	32%	42%		N/A		
PG: # of funds in Foreign Large Growth M*star Category			442	373	314		N/A	N/A	N/A	470	401	341		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 (TLISX)^[14]	\$952.50	114	-14.79%	N/A	N/A	N/A	1.30%	1.00%	11.22%	-13.68%	N/A	N/A	N/A	5.32%	12/9/2016	
Gross Expense Ratio		117														
BM: MSCI ACWI ex-US Small Cap Index			-9.49%				2.21%	4.51%	12.70%	-8.54%				8.72%		
Fund vs. MSCI ACWI ex-US Small Cap Index			-530				-91	-351	-148	-514				-340		
PG: Foreign Small/Mid Value M*star Category			-10.92%				N/A	N/A	N/A	-10.13%				N/A		
Fund vs. Foreign Small/Mid Value M*star Category			-387				N/A	N/A	N/A	-355				N/A		
PG: Fund % Rank in Foreign Small/Mid Value M*star Category			82%				N/A	N/A	N/A	84%				N/A		
PG: # of funds in Foreign Small/Mid Value M*star Category			56				N/A	N/A	N/A	45				N/A		
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A		

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TIAA-CREF FUNDS
RETAIL SHARE CLASS

FOR PERIOD ENDING April 30, 2019
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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	
TIAA-CREF SOCIAL CHOICE INTERNATIONAL EQUITY FUND (TSORX)	\$149.20	74	-4.85%	6.61%	N/A	N/A	3.49%	6.48%	13.38%	-3.02%	7.06%	N/A	N/A	3.59%	8/7/2015	
Gross Expense Ratio			132													
BM: Morgan Stanley EAFE Index			-3.71%	7.27%			2.81%	6.10%	13.07%	-3.22%	7.24%			3.57%		
Fund vs. Morgan Stanley EAFE Index			-114	-66			68	38	31	20	-18			2		
PG: Foreign Large Blend M*star Category			-5.01%	6.62%			N/A	N/A	N/A	-3.71%	7.00%			N/A		
Fund vs. Foreign Large Blend M*star Category			16	-1			N/A	N/A	N/A	69	6			N/A		
PG: Fund % Rank in Foreign Large Blend M*star Category			51%	56%			N/A	N/A	N/A	40%	52%			N/A		
PG: # of funds in Foreign Large Blend M*star Category			753	644			N/A	N/A	N/A	730	618			N/A		
Fund Star Rating			N/A	***			N/A	N/A	N/A	N/A	***			N/A		
Fixed Income																
TIAA-CREF 5-15 YEAR LADDERED TAX-EXEMPT BOND FUND (TIXRX) ^[15]	\$270.20	58	5.34%	2.18%	2.96%	3.91%	0.29%	2.34%	3.23%	6.07%	2.01%	2.75%	3.72%	3.74%	3/31/2006	
Gross Expense Ratio			60													
BM: Bloomberg Barclays 10-Year Municipal Bond Index			6.32%	2.76%	3.88%	4.82%	0.26%	2.31%	3.42%	6.84%	2.58%	3.64%	4.66%	4.78%		
Fund vs. Bloomberg Barclays 10-Year Municipal Bond Index			-98	-58	-92	-91	3	3	-19	-77	-57	-89	-94	-104		
PG: Muni National Interm M*star Category			4.52%	2.09%	2.99%	4.08%	N/A	N/A	N/A	5.23%	2.01%	2.84%	3.94%	N/A		
Fund vs. Muni National Interm M*star Category			82	9	-3	-17	N/A	N/A	N/A	84	0	-9	-22	N/A		
PG: Fund % Rank in Muni National Interm M*star Category			15%	43%	45%	56%	N/A	N/A	N/A	14%	48%	51%	59%	N/A		
PG: # of funds in Muni National Interm M*star Category			293	258	227	149	N/A	N/A	N/A	281	250	223	152	N/A		
Fund Star Rating			N/A	***	**	**	N/A	N/A	N/A	N/A	***	**	**	N/A		
TIAA-CREF BOND FUND (TIORX)	\$6,233.70	60	4.16%	2.52%	2.90%	4.14%	0.15%	2.11%	3.57%	5.08%	2.31%	2.78%	4.09%	4.85%	7/1/1999	
Gross Expense Ratio			60				3/31/2006									
BM: Bloomberg Barclays U.S. Aggregate Bond Index			4.48%	2.03%	2.74%	3.77%	0.03%	1.89%	2.97%	5.29%	1.90%	2.57%	3.72%	4.82%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-32	49	16	37	12	-22	60	-21	41	21	37	3		
PG: Intermediate Core-Plus Bond M*star Category			3.98%	2.37%	2.51%	4.56%	N/A	N/A	N/A	4.87%	2.55%	2.54%	4.85%	N/A		
Fund vs. Intermediate Core-Plus Bond M*star Category			18	15	39	-42	N/A	N/A	N/A	21	-24	24	-76	N/A		
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category			47%	39%	25%	65%	N/A	N/A	N/A	40%	62%	37%	79%	N/A		
PG: # of funds in Intermediate Core-Plus Bond M*star Category			1024	901	769	564	N/A	N/A	N/A	628	555	472	343	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	**	N/A		
TIAA-CREF BOND INDEX FUND (TBILX)	\$14,248.50	44	4.20%	1.54%	2.30%	N/A	-0.17%	1.76%	2.75%	4.92%	1.37%	2.10%	N/A	2.86%	9/14/2009	
Gross Expense Ratio			44													
BM: Bloomberg Barclays U.S. Aggregate Bond Index			4.48%	2.03%	2.74%	3.77%	0.03%	1.89%	2.97%	5.29%	1.90%	2.57%	3.72%	4.82%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-28	-49	-44	37	-20	-13	-22	-37	-53	-47	-54			
PG: Intermediate Core Bond M*star Category			3.98%	2.37%	2.51%	4.56%	N/A	N/A	N/A	4.82%	1.69%	2.18%	N/A			
Fund vs. Intermediate Core Bond M*star Category			22	-83	-21		N/A	N/A	N/A	10	-32	-8	N/A			
PG: Fund % Rank in Intermediate Core Bond M*star Category			44%	85%	66%	38%	N/A	N/A	N/A	50%	79%	63%	N/A			
PG: # of funds in Intermediate Core Bond M*star Category			1024	901	769	564	N/A	N/A	N/A	384	339	298	N/A			
Fund Star Rating			N/A	**	***	***	N/A	N/A	N/A	N/A	**	***	***	N/A		
TIAA-CREF BOND PLUS FUND (TCBPX)	\$4,310.50	62	4.33%	2.92%	3.06%	4.90%	0.06%	2.05%	3.63%	5.05%	2.63%	2.91%	4.80%	4.28%	3/31/2006	
Gross Expense Ratio			62													
BM: Bloomberg Barclays U.S. Aggregate Bond Index			4.48%	2.03%	2.74%	3.77%	0.03%	1.89%	2.97%	5.29%	1.90%	2.57%	3.72%	4.20%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-15	89	32	113	3	16	66	-24	73	34	108	8		
PG: Intermediate Core-Plus Bond M*star Category			3.98%	2.37%	2.51%	4.56%	N/A	N/A	N/A	4.87%	2.55%	2.54%	4.85%	N/A		
Fund vs. Intermediate Core-Plus Bond M*star Category			35	55	55	34	N/A	N/A	N/A	18	8	37	-5	N/A		
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category			33%	22%	18%	38%	N/A	N/A	N/A	42%	42%	27%	51%	N/A		
PG: # of funds in Intermediate Core-Plus Bond M*star Category			1024	901	769	564	N/A	N/A	N/A	628	555	472	343	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		
TIAA-CREF EMERGING MARKETS DEBT FUND (TEDLX)	\$504.70	99	1.18%	7.14%	N/A	N/A	0.62%	2.96%	7.84%	3.25%	6.49%	N/A	N/A	4.57%	9/26/2014	
Gross Expense Ratio			99													
BM: J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified			4.21%	5.79%			0.24%	2.68%	7.21%	6.01%	5.26%			4.91%		
Fund vs. J.P. Morgan Emerging Markets Bond Index (EMBI) Global Diversified			-303	135			38	28	63	-276	123			-34		
PG: Emerging Markets Bond M*star Category			0.70%	5.35%			N/A	N/A	N/A	2.38%	4.72%			N/A		
Fund vs. Emerging Markets Bond M*star Category			48	179			N/A	N/A	N/A	87	177			N/A		
PG: Fund % Rank in Emerging Markets Bond M*star Category			51%	11%			N/A	N/A	N/A	47%	10%			N/A		
PG: # of funds in Emerging Markets Bond M*star Category			290	225			N/A	N/A	N/A	292	230			N/A		
Fund Star Rating			N/A	***			N/A	N/A	N/A	N/A	****			N/A		
TIAA-CREF GREEN BOND (TGROX)	\$27.10	80	N/A	N/A	N/A	N/A	0.36%	2.57%	3.55%	N/A	N/A	N/A	N/A	4.99%	11/16/2018	
Gross Expense Ratio			153													
BM: Bloomberg Barclays MSCI US Green Bond Index							0.25%	2.23%	3.39%					5.85%		
Fund vs. Bloomberg Barclays MSCI US Green Bond Index							11	34	16					-86		
PG: Intermediate Core-Plus Bond M*star Category							N/A	N/A	N/A					N/A		
Fund vs. Intermediate Core-Plus Bond M*star Category							N/A	N/A	N/A					N/A		
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category							N/A	N/A	N/A					N/A		
PG: # of funds in Intermediate Core-Plus Bond M*star Category							N/A	N/A	N/A					N/A		
Fund Star Rating							N/A	N/A	N/A					N/A		
TIAA-CREF HIGH YIELD BOND (TIYRX)	\$3,985.40	62	6.17%	7.76%	4.13%	9.58%	1.81%	4.62%	10.10%	7.51%	7.13%	4.40%	8.82%	6.77%	3/31/2006	
Gross Expense Ratio			62													
BM: ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)			6.33%	7.76%	4.74%	10.07%	1.28%	4.10%	8.71%	7.11%	7.03%	4.86%	9.28%	6.87%		
Fund vs. ICE BofA ML BB-B Cash Pay Issuer Constrained Index (New)			-16	0	-61	-49	53	52	139	40	10	-46	-46	-10		
PG: High Yield Bond M*star Category			4.33%	6.97%	3.45%	9.49%	N/A	N/A	N/A	5.20%	6.41%	3.60%	8.69%	N/A		
Fund vs. High Yield Bond M*star Category			184	79	68	9	N/A	N/A	N/A	231	72	80	13	N/A		
PG: Fund % Rank in High Yield Bond M*star Category			9%	30%	23%	53%	N/A	N/A	N/A	4%	30%	20%	51%	N/A		
PG: # of funds in High Yield Bond M*star Category			700	610	519	332	N/A	N/A	N/A	699	609	524	332	N/A		
Fund Star Rating			N/A	***	***	***	N/A	N/A	N/A	N/A	***	***	***	N/A		

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TIAA-CREF FUNDS
RETAIL SHARE CLASS

FOR PERIOD ENDING April 30, 2019
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 INFLATION-LINKED BOND FUND (TCILX)	\$3,070.00	59	2.32%	1.00%	1.14%	2.74%	0.27%	1.66%	2.80%	2.79%	1.06%	0.94%	2.95%	3.63%	10/1/2002	
Gross Expense Ratio																
BM: Bloomberg Barclays US TIPS 1-10 Year Index			2.72%	1.53%	1.50%	2.73%	0.43%	1.87%	3.01%	3.30%	1.59%	1.39%	2.82%	3.65%		
Fund vs. Bloomberg Barclays US TIPS 1-10 Year Index			-40	-53	-36	1	-16	-21	-21	-51	-53	-45	13	-2		
PG: Inflation-Protected Bond M*star Category			2.21%	1.65%	1.43%	3.01%	N/A	N/A	N/A	2.63%	1.65%	1.26%	3.19%	N/A		
Fund vs. Inflation-Protected Bond M*star Category			11	-65	-29	-27	N/A	N/A	N/A	16	-59	-32	-24	N/A		
PG: Fund % Rank in Inflation-Protected Bond M*star Category			44%	90%	66%	69%	N/A	N/A	N/A	41%	90%	69%	68%	N/A		
PG: # of funds in Inflation-Protected Bond M*star Category			225	200	170	105	N/A	N/A	N/A	227	200	171	105	N/A		
Fund Star Rating			N/A	**	***	**	N/A	N/A	N/A	N/A	**	**	**	N/A		
TIAA-CREF INTERNATIONAL BOND FUND (TIBEX)^[4]	\$388.70	100	3.04%	N/A	N/A	N/A	0.30%	2.26%	4.08%	3.88%	N/A	N/A	N/A	2.27%	8/5/2016	
Gross Expense Ratio																
BM: Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			5.23%				0.04%	1.97%	3.00%	5.38%				2.54%		
Fund vs. Bloomberg Barclays Global Aggregate ex-USD Index (Hedged)			-219				26	29	108	-150				-27		
PG: World Bond-USD Hedged M*star Category			0.22%				N/A	N/A	N/A	4.52%				N/A		
Fund vs. World Bond-USD Hedged M*star Category			282				N/A	N/A	N/A	-64				N/A		
PG: Fund % Rank in World Bond-USD Hedged M*star Category			36%				N/A	N/A	N/A	72%				N/A		
PG: # of funds in World Bond-USD Hedged M*star Category			308				N/A	N/A	N/A	94				N/A		
Fund Star Rating			N/A				N/A	N/A	N/A	N/A				N/A		
TIAA-CREF SHORT DURATION IMPACT BOND (TDSBX)	\$27.10	70	N/A	N/A	N/A	N/A	0.43%	1.53%	2.06%	N/A	N/A	N/A	N/A	2.30%	11/16/2018	
Gross Expense Ratio																
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index							0.23%	1.04%	1.44%					2.32%		
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			20	49	62		20	49	62					-2		
PG: Short-Term Bond M*star Category			N/A	N/A	N/A		N/A	N/A	N/A					N/A		
Fund vs. Short-Term Bond M*star Category			N/A	N/A	N/A		N/A	N/A	N/A					N/A		
PG: Fund % Rank in Short-Term Bond M*star Category			N/A	N/A	N/A		N/A	N/A	N/A					N/A		
PG: # of funds in Short-Term Bond M*star Category			N/A	N/A	N/A		N/A	N/A	N/A					N/A		
Fund Star Rating			N/A	N/A	N/A		N/A	N/A	N/A					N/A		
TIAA-CREF SHORT-TERM BOND FUND (TCTRX)	\$1,964.50	57	2.67%	1.71%	1.35%	2.29%	0.30%	1.12%	1.71%	3.11%	1.70%	1.38%	2.25%	2.67%	3/31/2006	
Gross Expense Ratio																
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			3.03%	1.32%	1.22%	1.59%	0.23%	1.04%	1.44%	3.37%	1.35%	1.24%	1.55%	2.46%		
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-36	39	13	70	7	8	27	-26	35	14	70	21		
PG: Short-Term Bond M*star Category			2.97%	1.87%	1.45%	2.70%	N/A	N/A	N/A	3.30%	1.81%	1.45%	2.62%	N/A		
Fund vs. Short-Term Bond M*star Category			-30	-16	-10	-41	N/A	N/A	N/A	-19	-11	-7	-37	N/A		
PG: Fund % Rank in Short-Term Bond M*star Category			77%	56%	57%	61%	N/A	N/A	N/A	66%	53%	57%	61%	N/A		
PG: # of funds in Short-Term Bond M*star Category			531	476	415	266	N/A	N/A	N/A	538	481	419	269	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)	\$508.70	47	2.56%	0.81%	N/A	N/A	0.18%	0.92%	1.29%	2.93%	0.85%	N/A	N/A	0.87%	8/7/2015	
Gross Expense Ratio																
BM: Bloomberg Barclays US 1-3 Yr Govt Credit Index			3.03%	1.32%			0.23%	1.04%	1.44%	3.37%	1.35%			1.38%		
Fund vs. Bloomberg Barclays US 1-3 Yr Govt Credit Index			-47	-51			-5	-12	-15	-44	-50			-51		
PG: Short-Term Bond M*star Category			2.97%	1.87%			N/A	N/A	N/A	3.30%	1.81%			N/A		
Fund vs. Short-Term Bond M*star Category			-41	-106			N/A	N/A	N/A	-37	-96			N/A		
PG: Fund % Rank in Short-Term Bond M*star Category			80%	93%			N/A	N/A	N/A	76%	93%			N/A		
PG: # of funds in Short-Term Bond M*star Category			531	476			N/A	N/A	N/A	538	481			N/A		
Fund Star Rating			N/A	*			N/A	N/A	N/A	N/A	*			N/A		
TIAA-CREF SOCIAL CHOICE BOND FUND (TSBRX)	\$3,390.60	65	4.18%	2.53%	3.34%	N/A	0.03%	2.10%	2.95%	5.02%	2.34%	3.11%	N/A	2.85%	9/21/2012	
Gross Expense Ratio																
BM: Bloomberg Barclays U.S. Aggregate Bond Index			4.48%	2.03%	2.74%		0.03%	1.89%	2.97%	5.29%	1.90%	2.57%		2.13%		
Fund vs. Bloomberg Barclays U.S. Aggregate Bond Index			-30	50	60		0	21	-2	-27	44	54		72		
PG: Intermediate Core-Plus Bond M*star Category			3.98%	2.37%	2.51%		N/A	N/A	N/A	4.87%	2.55%	2.54%		N/A		
Fund vs. Intermediate Core-Plus Bond M*star Category			20	16	83		N/A	N/A	N/A	15	-21	57		N/A		
PG: Fund % Rank in Intermediate Core-Plus Bond M*star Category			45%	38%	8%		N/A	N/A	N/A	44%	60%	15%		N/A		
PG: # of funds in Intermediate Core-Plus Bond M*star Category			1024	901	769		N/A	N/A	N/A	628	555	472		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)^[8]	\$534.30	62	2.94%	6.09%	4.50%	7.76%	1.51%	4.07%	8.38%	4.67%	6.29%	4.75%	7.42%	4.78%	11/30/2007	
Gross Expense Ratio																
BM: Lifecycle Retirement Income Fund Composite Index			4.46%	5.89%	4.72%	7.73%	1.50%	4.23%	8.28%	6.07%	6.18%	4.89%	7.39%	4.99%		
Fund vs. Lifecycle Retirement Income Fund Composite Index			-152	20	-22	3	1	-16	10	-140	11	-14	3	-21		
BM: S&P Target Date Retirement Income Index			3.72%	4.70%	3.89%	6.38%	1.20%	3.46%	6.84%	4.95%	4.94%	4.01%	6.14%	3.92%		
Fund vs. S&P Target Date Retirement Income Index			-78	139	61	138	31	61	154	-28	135	74	128	86		
PG: Target-Date Retirement M*star Category			3.44%	4.79%	3.45%	6.62%	N/A	N/A	N/A	4.63%	4.87%	3.58%	6.24%	N/A		
Fund vs. Target-Date Retirement M*star Category			-50	130	105	114	N/A	N/A	N/A	4	142	117	118	N/A		
PG: Fund % Rank in Target-Date Retirement M*star Category			78%	10%	11%	16%	N/A	N/A	N/A	51%	10%	8%	12%	N/A		
PG: # of funds in Target-Date Retirement M*star Category			185	161	126	91	N/A	N/A	N/A	185	161	129	91	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]	\$123.60	85	0.63%	11.00%	6.95%	N/A	3.73%	8.10%	17.96%	4.01%	11.96%	7.87%	N/A	11.41%	12/9/2011	
Gross Expense Ratio																
BM: Lifestyle Aggressive Composite Benchmark			4.56%	11.89%	8.01%		3.57%	8.00%	16.94%	7.51%	12.75%	8.67%		11.93%		
Fund vs. Lifestyle Aggressive Composite Benchmark			-393	-89	-106		16	10	102	-350	-79	-80		-52		
BM: Morningstar Aggressive Target Risk TR USD			3.76%	11.37%	7.03%		3.03%	6.91%	15.64%	6.29%	11.88%	7.58%		10.76%		
Fund vs. Morningstar Aggressive Target Risk TR USD			-313	-37	-8		70	119	232	-228	8	29		65		
PG: Allocation~85%+ Equity M*star Category			2.64%	9.60%	5.99%		N/A	N/A	N/A	5.09%	10.28%	6.55%		N/A		
Fund vs. Allocation~85%+ Equity M*star Category			-201	140	96		N/A	N/A	N/A	-108	168	132		N/A		
PG: Fund % Rank in Allocation~85%+ Equity M*star Category			82%	13%	27%		N/A	N/A	N/A	66%	13%	20%		N/A		
PG: # of funds in Allocation~85%+ Equity M*star Category			186	165	144		N/A	N/A	N/A	198	175	157		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 April 30, 2019
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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		
	04/30/19		04/01/18	04/01/16	04/01/14	04/01/09	04/01/19	02/01/19	01/01/19	05/01/18	05/01/16	05/01/14	05/01/09	04/30/19	04/30/19	Inc. Date
TIAA-CREF LIFESTYLE CONSERVATIVE FUND (TSCLX)^[9]	\$234.20	73	2.56%	5.92%	4.36%	N/A	1.63%	4.24%	8.85%	4.31%	6.18%	4.68%	N/A	6.26%	12/9/2011	
Gross Expense Ratio		83														
BM: Lifestyle Conservative Composite Benchmark			4.50%	5.87%	4.67%		1.48%	4.14%	8.12%	6.08%	6.15%	4.87%		6.08%		
Fund vs.Lifestyle Conservative Composite Benchmark			-194	5	-31		15	10	73	-177	3	-19		18		
BM: Morningstar Moderately Conservative Target Risk TR USD			4.62%	6.16%	4.43%		1.33%	3.96%	8.14%	6.18%	6.27%	4.57%		5.97%		
Fund vs.Morningstar Moderately Conservative Target Risk TR USD			-206	-24	-7		30	28	71	-187	-9	11		29		
PG: Allocation--30% to 50% Equity M*star Category			3.03%	5.53%	3.69%		N/A	N/A	N/A	4.46%	5.59%	3.86%		N/A		
Fund vs. Allocation--30% to 50% Equity M*star Category			-47	39	67		N/A	N/A	N/A	-15	59	82		N/A		
PG: Fund % Rank in Allocation--30% to 50% Equity M*star Category			67%	36%	25%		N/A	N/A	N/A	60%	30%	22%		N/A		
PG: # of funds in Allocation--30% to 50% Equity M*star Category			558	488	386		N/A	N/A	N/A	555	484	391		N/A		
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A		
TIAA-CREF LIFESTYLE GROWTH FUND (TSGLX)^[10]	\$168.90	80	1.37%	9.46%	6.25%	N/A	2.95%	6.82%	14.98%	4.16%	10.10%	6.94%	N/A	9.87%	12/9/2011	
Gross Expense Ratio		94														
BM: Lifestyle Growth Composite Benchmark			4.73%	9.95%	7.05%		2.86%	6.76%	14.07%	7.26%	10.60%	7.54%		10.10%		
Fund vs.Lifestyle Growth Composite Benchmark			-336	-49	-80		9	6	91	-310	-50	-60		-23		
BM: Morningstar Moderately Aggressive Target Risk TR USD			4.06%	10.02%	6.33%		2.53%	6.08%	13.51%	6.31%	10.36%	6.75%		9.46%		
Fund vs.Morningstar Moderately Aggressive Target Risk TR USD			-269	-56	-8		42	74	147	-215	-26	19		41		
PG: Allocation--70% to 85% Equity M*star Category			2.86%	8.38%	5.32%		N/A	N/A	N/A	5.21%	9.02%	5.90%		N/A		
Fund vs. Allocation--70% to 85% Equity M*star Category			-149	108	93		N/A	N/A	N/A	-105	108	104		N/A		
PG: Fund % Rank in Allocation--70% to 85% Equity M*star Category			78%	25%	29%		N/A	N/A	N/A	72%	27%	24%		N/A		
PG: # of funds in Allocation--70% to 85% Equity M*star Category			361	326	285		N/A	N/A	N/A	357	322	284		N/A		
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A		
TIAA-CREF LIFESTYLE INCOME FUND (TSILX)^[9]	\$73.50	69	2.79%	3.99%	3.15%	N/A	1.00%	2.94%	5.68%	4.11%	4.07%	3.30%	N/A	4.19%	12/9/2011	
Gross Expense Ratio		95														
BM: Lifestyle Income Composite Benchmark			4.10%	3.74%	3.27%		0.82%	2.76%	5.06%	5.16%	3.87%	3.34%		3.92%		
Fund vs.Lifestyle Income Composite Benchmark			-131	25	-12		18	18	62	-105	20	-4		27		
BM: Morningstar Conservative Target Risk TR USD			4.30%	4.05%	3.12%		0.67%	2.72%	5.37%	5.44%	4.00%	3.11%		3.89%		
Fund vs.Morningstar Conservative Target Risk TR USD			-151	-6	3		33	22	31	-133	7	19		30		
PG: Allocation--15% to 30% Equity M*star Category			2.87%	4.01%	2.81%		N/A	N/A	N/A	3.69%	3.99%	2.88%		N/A		
Fund vs. Allocation--15% to 30% Equity M*star Category			-8	-2	34		N/A	N/A	N/A	42	8	42		N/A		
PG: Fund % Rank in Allocation--15% to 30% Equity M*star Category			62%	58%	41%		N/A	N/A	N/A	53%	54%	42%		N/A		
PG: # of funds in Allocation--15% to 30% Equity M*star Category			204	183	150		N/A	N/A	N/A	207	185	158		N/A		
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A		
TIAA-CREF LIFESTYLE MODERATE FUND (TSM LX)^[10]	\$360.90	76	2.14%	7.84%	5.52%	N/A	2.26%	5.63%	12.12%	4.45%	8.26%	5.99%	N/A	8.31%	12/9/2011	
Gross Expense Ratio		83														
BM: Lifestyle Moderate Composite Benchmark			4.81%	7.99%	6.04%		2.15%	5.54%	11.23%	6.92%	8.44%	6.36%		8.23%		
Fund vs.Lifestyle Moderate Composite Benchmark			-267	-15	-52		11	9	89	-247	-18	-37		8		
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%		1.93%	5.01%	10.78%	6.32%	8.29%	5.67%		7.75%		
Fund vs.Morningstar Moderate Target Risk TR USD			-228	-21	12		33	62	134	-187	-3	32		56		
PG: Allocation--50% to 70% Equity M*star Category			3.90%	7.44%	5.12%		N/A	N/A	N/A	6.02%	7.89%	5.53%		N/A		
Fund vs. Allocation--50% to 70% Equity M*star Category			-176	40	40		N/A	N/A	N/A	-157	37	46		N/A		
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			76%	36%	40%		N/A	N/A	N/A	72%	38%	38%		N/A		
PG: # of funds in Allocation--50% to 70% Equity M*star Category			758	690	601		N/A	N/A	N/A	756	688	605		N/A		
Fund Star Rating			N/A	***	***		N/A	N/A	N/A	N/A	***	***		N/A		
TIAA-CREF MANAGED ALLOCATION FUND (TIMRX)^[10]	\$866.60	64	2.40%	7.96%	5.68%	10.17%	2.27%	5.56%	12.00%	4.72%	8.39%	6.16%	9.66%	5.88%	3/31/2006	
Gross Expense Ratio		70														
BM: Managed Allocation Composite Index ^[5]			4.81%	7.99%	6.04%	9.99%	2.15%	5.54%	11.23%	6.92%	8.44%	6.36%	9.50%	6.19%		
Fund vs.Managed Allocation Composite Index			-241	-3	-36	18	12	2	77	-220	-5	-20	16	-31		
BM: Morningstar Moderate Target Risk TR USD			4.42%	8.05%	5.40%	9.55%	1.93%	5.01%	10.78%	6.32%	8.29%	5.67%	9.04%	6.16%		
Fund vs.Morningstar Moderate Target Risk TR USD			-202	-9	28	62	34	55	122	-160	10	49	62	-28		
PG: Allocation--50% to 70% Equity M*star Category			3.90%	7.44%	5.12%	9.98%	N/A	N/A	N/A	6.02%	7.89%	5.53%	9.42%	N/A		
Fund vs. Allocation--50% to 70% Equity M*star Category			-150	52	56	19	N/A	N/A	N/A	-130	50	63	24	N/A		
PG: Fund % Rank in Allocation--50% to 70% Equity M*star Category			72%	35%	35%	42%	N/A	N/A	N/A	66%	36%	34%	41%	N/A		
PG: # of funds in Allocation--50% to 70% Equity M*star Category			758	690	601	439	N/A	N/A	N/A	756	688	605	444	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 April 30, 2019
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		
	04/30/19		04/01/18 to 03/31/19	04/01/16 to 03/31/19	04/01/14 to 03/31/19	04/01/09 to 03/31/19	04/01/19 to 04/30/19	02/01/19 to 04/30/19	01/01/19 to 04/30/19	05/01/18 to 04/30/19	05/01/16 to 04/30/19	05/01/14 to 04/30/19	05/01/09 to 04/30/19	Inception to 04/30/19		
Money Market																
TIAA-CREF MONEY MARKET FUND (TIRXX) ^[11,3,6,7]	\$1,248.10	48	1.66%	0.77%	0.46%	0.24%	0.16%	0.49%	0.66%	1.73%	0.82%	0.49%	0.25%	1.81%	7/1/1999	
Gross Expense Ratio		48													3/31/2006	
BM: iMoneyNet Money Fund AveragesTM-All Government			1.67%	0.81%	0.49%	0.26%	0.17%	0.49%	0.66%	1.73%	0.87%	0.53%	0.27%	1.93%		
Fund vs. iMoneyNet Money Fund AveragesTM-All Government			-1	-4	-3	-2	-1	0	0	0	-5	-4	-2	-12		
7-Day Effective Yield as of 04/30/2019: 2.03%																
7-Day Current Yield as of 04/30/2019: 2.03%																
MUTUAL FUND TOTALS ^[1]	\$107,261.10															

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 29, 2020 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.