



## Self-Managed Plan Performance December 31, 2018 Returns

	Inception Date	Quarter	1 Year	3 Year	5 Year	10 Year	Expense Ratio	
Lifecycle Funds	Dimensional 2005 Target Date Retirement Income Fund - Inst	Nov-15	-2.8%	-2.3%	3.4%	N/A	N/A	0.19%
	<i>S&amp;P STRIDE Glide Path 2005 Index Total Return</i>		-2.8%	-1.9%	3.5%	N/A	N/A	
	Dimensional 2010 Target Date Retirement Income Fund - Inst	Nov-15	-3.6%	-3.4%	3.7%	N/A	N/A	0.20%
	<i>S&amp;P STRIDE Glide Path 2010 Index Total Return</i>		-3.4%	-2.8%	3.9%	N/A	N/A	
	Dimensional 2015 Target Date Retirement Income Fund - Inst	Nov-15	-3.9%	-4.2%	3.9%	N/A	N/A	0.20%
	<i>S&amp;P STRIDE Glide Path 2015 Index Total Return</i>		-3.7%	-3.5%	4.0%	N/A	N/A	
	Dimensional 2020 Target Date Retirement Income Fund - Inst	Nov-15	-4.7%	-5.2%	4.6%	N/A	N/A	0.22%
	<i>S&amp;P STRIDE Glide Path 2020 Index Total Return</i>		-4.5%	-4.4%	4.6%	N/A	N/A	
	Dimensional 2025 Target Date Retirement Income Fund - Inst	Nov-15	-6.9%	-6.7%	5.3%	N/A	N/A	0.23%
	<i>S&amp;P STRIDE Glide Path 2025 Index Total Return</i>		-6.3%	-5.5%	5.5%	N/A	N/A	
	Dimensional 2030 Target Date Retirement Income Fund - Inst	Nov-15	-8.5%	-7.4%	5.7%	N/A	N/A	0.25%
	<i>S&amp;P STRIDE Glide Path 2030 Index Total Return</i>		-7.9%	-6.2%	6.0%	N/A	N/A	
	Dimensional 2035 Target Date Retirement Income Fund - Inst	Nov-15	-9.9%	-7.4%	5.9%	N/A	N/A	0.26%
	<i>S&amp;P STRIDE Glide Path 2035 Index Total Return</i>		-9.4%	-6.3%	6.3%	N/A	N/A	
	Dimensional 2040 Target Date Retirement Income Fund - Inst	Nov-15	-11.3%	-7.7%	6.7%	N/A	N/A	0.27%
	<i>S&amp;P STRIDE Glide Path 2040 Index Total Return</i>		-10.6%	-6.2%	7.3%	N/A	N/A	
	Dimensional 2045 Target Date Retirement Income Fund - Inst	Nov-15	-13.1%	-9.2%	6.9%	N/A	N/A	0.26%
	<i>S&amp;P STRIDE Glide Path 2045 Index Total Return</i>		-12.5%	-7.6%	7.5%	N/A	N/A	
	Dimensional 2050 Target Date Retirement Income Fund - Inst	Nov-15	-13.1%	-9.1%	7.0%	N/A	N/A	0.27%
	<i>S&amp;P STRIDE Glide Path 2050 Index Total Return</i>		-12.5%	-7.6%	7.5%	N/A	N/A	
	Dimensional 2055 Target Date Retirement Income Fund - Inst	Nov-15	-13.1%	-9.2%	6.9%	N/A	N/A	0.27%
	<i>S&amp;P STRIDE Glide Path 2055 Index Total Return</i>		-12.5%	-7.6%	7.5%	N/A	N/A	
	Dimensional 2060 Target Date Retirement Income Fund - Inst	Nov-15	-13.0%	-9.1%	7.0%	N/A	N/A	0.27%
	<i>S&amp;P STRIDE Glide Path 2060 Index Total Return</i>		-12.5%	-7.6%	7.5%	N/A	N/A	
	Dimensional Retirement Income Fund - Institutional	Nov-15	-2.7%	-2.0%	3.0%	N/A	N/A	0.22%
	<i>Custom Benchmark <sup>1</sup></i>		-2.8%	-1.6%	2.6%	N/A	N/A	
	Fidelity Freedom Index 2005 Fund - Institutional Premium	Oct-09	-2.9%	-1.5%	4.0%	3.2%	N/A	0.13%
	<i>Custom Benchmark <sup>1</sup></i>		-2.9%	-1.4%	4.1%	3.3%	N/A	
	Fidelity Freedom Index 2010 Fund - Institutional Premium	Oct-09	-4.3%	-2.3%	4.6%	3.6%	N/A	0.13%
	<i>Custom Benchmark <sup>1</sup></i>		-4.2%	-2.3%	4.6%	3.7%	N/A	
	Fidelity Freedom Index 2015 Fund - Institutional Premium	Oct-09	-5.6%	-3.2%	5.1%	4.0%	N/A	0.13%
	<i>Custom Benchmark <sup>1</sup></i>		-5.6%	-3.1%	5.2%	4.1%	N/A	
	Fidelity Freedom Index 2020 Fund - Institutional Premium	Oct-09	-6.6%	-3.9%	5.5%	4.2%	N/A	0.13%
	<i>Custom Benchmark <sup>1</sup></i>		-6.7%	-3.8%	5.5%	4.3%	N/A	
	Fidelity Freedom Index 2025 Fund - Institutional Premium	Oct-09	-7.6%	-4.5%	5.8%	4.5%	N/A	0.13%
	<i>Custom Benchmark <sup>1</sup></i>		-7.6%	-4.4%	5.8%	4.6%	N/A	
	Fidelity Freedom Index 2030 Fund - Institutional Premium	Oct-09	-9.2%	-5.4%	6.7%	5.0%	N/A	0.14%
	<i>Custom Benchmark <sup>1</sup></i>		-9.3%	-5.4%	6.7%	5.1%	N/A	
	Fidelity Freedom Index 2035 Fund - Institutional Premium	Oct-09	-11.3%	-6.7%	7.1%	5.3%	N/A	0.14%
	<i>Custom Benchmark <sup>1</sup></i>		-11.3%	-6.7%	7.2%	5.3%	N/A	
Fidelity Freedom Index 2040 Fund - Institutional Premium	Oct-09	-11.9%	-7.2%	7.0%	5.2%	N/A	0.14%	
<i>Custom Benchmark <sup>1</sup></i>		-11.9%	-7.2%	7.1%	5.3%	N/A		
Fidelity Freedom Index 2045 Fund - Institutional Premium	Oct-09	-11.9%	-7.2%	7.0%	5.2%	N/A	0.14%	
<i>Custom Benchmark <sup>1</sup></i>		-11.9%	-7.2%	7.1%	5.3%	N/A		
Fidelity Freedom Index 2050 Fund - Institutional Premium	Oct-09	-11.9%	-7.2%	7.0%	5.2%	N/A	0.14%	
<i>Custom Benchmark <sup>1</sup></i>		-11.9%	-7.2%	7.1%	5.3%	N/A		
Fidelity Freedom Index 2055 Fund - Institutional Premium	Jun-11	-11.9%	-7.1%	7.0%	5.2%	N/A	0.14%	
<i>Custom Benchmark <sup>1</sup></i>		-11.9%	-7.2%	7.1%	5.3%	N/A		
Fidelity Freedom Index 2060 Fund - Institutional Premium	Aug-14	-11.9%	-7.2%	7.0%	N/A	N/A	0.14%	
<i>Custom Benchmark <sup>1</sup></i>		-11.9%	-7.2%	7.1%	N/A	N/A		
Fidelity Freedom Index Income Fund - Institutional Premium	Oct-09	-1.7%	-0.8%	3.2%	2.6%	N/A	0.12%	
<i>Custom Benchmark <sup>1</sup></i>		-1.6%	-0.7%	3.3%	2.6%	N/A		



## Self-Managed Plan Performance December 31, 2018 Returns

		Inception					Expense Ratio	
		Date	Quarter	1 Year	3 Year	5 Year		10 Year
Lifecycle Funds	TIAA-CREF Lifecycle Index 2010 Fund - Institutional	Sep-09	-4.9%	-2.9%	4.5%	3.9%	N/A	0.10%
	<i>Custom Benchmark</i> <sup>1</sup>		-4.9%	-2.9%	4.6%	4.0%	N/A	
	TIAA-CREF Lifecycle Index 2015 Fund - Institutional	Sep-09	-5.6%	-3.3%	4.8%	4.1%	N/A	0.10%
	<i>Custom Benchmark</i> <sup>1</sup>		-5.6%	-3.4%	4.9%	4.2%	N/A	
	TIAA-CREF Lifecycle Index 2020 Fund - Institutional	Sep-09	-6.4%	-3.8%	5.3%	4.4%	N/A	0.10%
	<i>Custom Benchmark</i> <sup>1</sup>		-6.5%	-3.8%	5.3%	4.5%	N/A	
	TIAA-CREF Lifecycle Index 2025 Fund - Institutional	Sep-09	-7.6%	-4.4%	5.8%	4.7%	N/A	0.10%
	<i>Custom Benchmark</i> <sup>1</sup>		-7.6%	-4.5%	5.8%	4.8%	N/A	
	TIAA-CREF Lifecycle Index 2030 Fund - Institutional	Sep-09	-8.7%	-5.0%	6.2%	5.0%	N/A	0.10%
	<i>Custom Benchmark</i> <sup>1</sup>		-8.8%	-5.2%	6.2%	5.0%	N/A	
	TIAA-CREF Lifecycle Index 2035 Fund - Institutional	Sep-09	-9.9%	-5.7%	6.7%	5.2%	N/A	0.10%
	<i>Custom Benchmark</i> <sup>1</sup>		-9.9%	-5.8%	6.7%	5.3%	N/A	
	TIAA-CREF Lifecycle Index 2040 Fund - Institutional	Sep-09	-11.0%	-6.4%	7.1%	5.5%	N/A	0.10%
	<i>Custom Benchmark</i> <sup>1</sup>		-11.1%	-6.5%	7.1%	5.5%	N/A	
	TIAA-CREF Lifecycle Index 2045 Fund - Institutional	Sep-09	-11.9%	-6.9%	7.2%	5.5%	N/A	0.10%
	<i>Custom Benchmark</i> <sup>1</sup>		-12.0%	-7.0%	7.2%	5.6%	N/A	
TIAA-CREF Lifecycle Index 2050 Fund - Institutional	Sep-09	-12.0%	-7.0%	7.4%	5.6%	N/A	0.10%	
<i>Custom Benchmark</i> <sup>1</sup>		-12.1%	-7.1%	7.3%	5.7%	N/A		
TIAA-CREF Lifecycle Index 2055 Fund - Institutional	Apr-11	-12.3%	-7.1%	7.4%	5.6%	N/A	0.10%	
<i>Custom Benchmark</i> <sup>1</sup>		-12.3%	-7.2%	7.4%	5.7%	N/A		
TIAA-CREF Lifecycle Index 2060 Fund - Institutional	Sep-14	-12.4%	-7.1%	7.5%	N/A	N/A	0.10%	
<i>Custom Benchmark</i> <sup>1</sup>		-12.5%	-7.4%	7.5%	N/A	N/A		
TIAA-CREF Lifecycle Index Retirement Inc Fund - Institutional	Sep-09	-4.6%	-2.7%	4.3%	3.8%	N/A	0.10%	
<i>Custom Benchmark</i> <sup>1</sup>		-4.7%	-2.8%	4.3%	3.8%	N/A		



## Self-Managed Plan Performance December 31, 2018 Returns

		Inception					Expense Ratio	
		Date	Quarter	1 Year	3 Year	5 Year		10 Year
Fixed Rate Funds	CREF Money Market Account R3	Apr-88	0.5%	1.5%	0.7%	0.4%	0.2%	0.24%
	Vanguard Federal Money Market Fund - Investor	Jul-81	0.5%	1.8%	1.0%	0.6%	0.3%	0.11%
	<i>iMoneyNet Money Fund Average</i>		0.6%	1.9%	1.1%	0.7%	0.5%	
	Fidelity Managed Income Portfolio Class 2	Sep-89	0.5%	1.8%	1.6%	1.5%	1.4%	0.57%
	TIAA Traditional Annuity	Jan-18	1.0%	4.1%	4.2%	4.3%	4.3%	N/A
	<i>Custom/Citigroup 3 Month Treasury Bill <sup>7</sup></i>		0.6%	1.9%	1.0%	0.6%	1.1%	
Bond Funds	CREF Bond Market Account R3	Mar-90	1.4%	-0.2%	2.5%	2.7%	3.7%	0.31%
	Fidelity U.S. Bond Index Fund - Institutional Class	Mar-90	1.7%	0.0%	2.0%	2.5%	3.5%	0.03%
	PIMCO Total Return Institutional Fund <sup>3</sup>	May-87	1.4%	-0.3%	2.5%	2.6%	4.7%	0.55%
	<i>Bloomberg Barclays Aggregate Bond Index</i>		1.6%	0.0%	2.1%	2.5%	3.5%	
	CREF Inflation-Linked Bond Account R3	May-97	-0.1%	-0.5%	1.9%	1.4%	3.2%	0.24%
	<i>Bloomberg Barclays U.S. Treasury Inflation Notes Index</i>		-0.4%	-1.3%	2.1%	1.7%	3.6%	
Real Estate	Fidelity Real Estate Investment Portfolio	Nov-86	-6.4%	-4.0%	2.6%	8.3%	12.8%	0.76%
	<i>Dow Jones U.S. Select Real Estate Securities Index</i>		-6.6%	-4.2%	2.0%	7.9%	12.1%	
	TIAA REA reported one quarter in arrears, September 30, 2018:							
	TIAA Real Estate Account <sup>4</sup>	Oct-95	1.2%	5.1%	5.0%	7.1%	3.0%	0.79%
	TIAA REA adjusted total return <sup>5</sup>		1.4%	6.1%	6.1%	8.6%	4.6%	
	<i>NCREIF Fund Index - ODCE <sup>6</sup></i>		1.9%	7.9%	8.2%	9.9%	4.5%	
Balanced Funds	CREF Social Choice Account R3	Mar-90	-7.4%	-4.3%	5.5%	4.5%	8.4%	0.27%
	<i>Custom Benchmark <sup>1</sup></i>		-7.8%	-4.6%	5.3%	4.8%	8.8%	
	Fidelity Puritan Fund - Class K	Apr-47	-11.3%	-4.1%	6.2%	6.2%	10.5%	0.46%
<i>Custom Benchmark</i>		-7.6%	-2.3%	6.5%	6.2%	9.4%		
U.S. Equity Funds	CREF Stock Account R3	Aug-52	-14.6%	-9.7%	6.8%	5.1%	10.8%	0.31%
	<i>Custom Benchmark <sup>1</sup></i>		-13.5%	-8.0%	7.8%	6.0%	11.2%	
	Fidelity Contrafund Commingled Pool	Jan-14	-16.3%	-1.9%	10.5%	N/A	N/A	0.43%
	<i>Dow Jones U.S. Total Stock Market Index</i>		-14.4%	-5.3%	8.9%	N/A	N/A	
	CREF Equity Index Account R3	Apr-94	-14.3%	-5.4%	8.8%	7.7%	12.8%	0.23%
	<i>Russell 3000 Stock Index</i>		-14.3%	-5.2%	9.0%	7.9%	13.2%	
	Fidelity Low-Priced Stock Fund - Class K	Dec-89	-13.5%	-10.7%	5.5%	4.7%	13.0%	0.53%
	<i>Russell 2000 Value Stock Index</i>		-18.7%	-12.9%	7.4%	3.6%	10.4%	
	CREF Growth Account R3 <sup>2</sup>	Apr-94	-16.8%	-2.5%	9.8%	9.9%	14.8%	0.26%
	TIAA-CREF Large-Cap Growth Index Fund Institutional	Oct-02	-15.9%	-1.6%	11.1%	10.3%	15.2%	0.06%
	<i>Russell 1000 Growth Stock Index</i>		-15.9%	-1.5%	11.1%	10.4%	15.3%	
	Fidelity Growth Company Commingled Pool	Dec-13	-20.8%	-4.2%	12.0%	11.7%	N/A	0.43%
	<i>Russell 3000 Growth Index</i>		-16.3%	-2.1%	10.9%	10.0%	N/A	
	American Beacon Large Cap Value Fund Institutional <sup>3</sup>	Jul-87	-16.0%	-12.0%	6.1%	4.4%	11.0%	0.60%
	<i>Russell 1000 Value Index</i>		-11.7%	-8.3%	7.0%	5.9%	11.2%	
	Ariel Fund Institutional <sup>3</sup>	Nov-86	-18.9%	-13.4%	5.3%	4.5%	14.9%	0.71%
	<i>Russell Midcap Value Index</i>		-15.0%	-12.3%	6.1%	5.4%	13.0%	
	Wells Fargo Small Company Growth Fund R6 <sup>3</sup>	Nov-94	-20.9%	-3.6%	7.8%	5.4%	15.6%	0.90%
<i>Russell 2000 Growth Index</i>		-21.7%	-9.3%	7.2%	5.1%	13.5%		
Fidelity Extended Market Index Fund - Premium Class	Nov-97	-18.2%	-9.4%	7.6%	5.3%	13.6%	0.04%	
<i>Dow Jones U.S. Completion Total Stock Mkt Index</i>		-18.3%	-9.6%	7.3%	5.1%	13.5%		
Fidelity 500 Index Fund - Institutional Premium Class	Feb-88	-13.5%	-4.4%	9.3%	8.5%	13.1%	0.01%	
<i>S&amp;P 500 Index</i>		-13.5%	-4.4%	9.3%	8.5%	13.1%		
International/ World Equity Funds	CREF Global Equities Account R3	May-92	-15.1%	-12.4%	4.8%	3.6%	9.5%	0.34%
	<i>MSCI World Index</i>		-13.4%	-8.7%	6.3%	4.6%	9.7%	
	Fidelity Diversified International Commingled Pool	Dec-91	-14.1%	-15.2%	1.4%	1.0%	N/A	0.58%
	<i>MSCI EAFE Index</i>		-12.5%	-13.8%	2.9%	0.5%	N/A	
	Fidelity Global ex U.S. Index Fund - Institutional Class	Sep-11	-11.3%	-13.9%	4.7%	0.7%	N/A	0.06%
	<i>MSCI ACWI ex-U.S. Index</i>		-11.5%	-14.2%	4.5%	0.7%	N/A	



## Self-Managed Plan Performance December 31, 2018 Returns

**GENERAL NOTES:**

A. The total returns shown represent past performance and are not intended to portray future returns. Total returns and the principal value of investments in the accounts will fluctuate; therefore, upon redemption, your account value may be worth more or less than its original amount. Investment results are after all investment, administrative, and distribution expenses have been deducted. Funds invested are neither insured nor guaranteed by the U.S. Government.

B. Benchmark indices do not take into account any fees or expenses of the individual securities that they track, and individuals cannot invest directly in any index.

**FOOTNOTES:**

1. Custom Benchmarks are a composite blended return of market indices in the same proportion as the fund's current investment strategy. The table below displays the custom benchmark composition used to evaluate the respective SMP fund. A detailed explanation of custom benchmarks is available under SMP on the SURS website at [www.surs.org](http://www.surs.org).
2. The CREF Growth Account is no longer an approved investment option for the SMP. The account was closed to new investors and contributions on July 30, 2004.
3. This fund is available to SMP participants through Fidelity Investments.
4. Total return performance for the REA is based on actual changes in unit values as reported to participants in the REA's historical financial statements.
5. The components of the REA's financial statements upon which the Adjusted Total Return is derived excludes the cash and associated expenses with the liquidity guarantee of the REA because the constituents of the ODCE do not have this unique product feature.
6. The returns are calculated by the National Council of Real Estate Investment Fiduciaries, net of fees.
7. EK&A Guaranteed Investment Contract Index is no longer available and was replaced with the Citigroup 3 Month Treasury Bill Index as of January 1, 2011.

Fund Name	Benchmark Composition
Fidelity Puritan Fund - Class K	60% Russell 3000 Value to July 1, 2008 and S&P 500 as of July 1, 2008; 40% Bloomberg Barclays Aggregate Bond Index
CREF Inflation-Linked Bond Account R3	Citigroup Inflation-Linked Securities Index through September 30, 2003, Bloomberg Barclays U.S. Treasury Inflation Notes Index since October 1, 2003
CREF Social Choice Account R3	60% Dow Jones U.S. Total Stock Market Index, 40% Bloomberg Barclays Aggregate Bond Index through December 31, 2012; 47% Russell 3000 Stock Index, 13% MSCI EAFE + Canada Index, 40% Bloomberg Barclays Aggregate Bond Index from January 1, 2013 through December 31, 2015; 42% Russell 3000 Stock Index, 18% MSCI EAFE + Canada Index, 40% Bloomberg Barclays Aggregate Bond Index since January 1, 2016.
CREF Stock Account R3	80% Dow Jones U.S. Total Stock Market Index, 20% MSCI EAFE + Canada Index through June 30, 2011; 69% Russell 3000 Stock Index, 25% MSCI EAFE + Canada Index, 6% MSCI Emerging Markets Index from July 1, 2011, through December 31, 2012; 70% Russell 3000 Stock Index, 30% MSCI ACWI ex-U.S. Investable Market Index since January 1, 2013
CREF Growth Account R3	Russell 3000 Growth through September 30, 2002, Russell 1000 Growth since October 1, 2002
TIAA-CREF Large Cap Growth Index Fund - Institutional	Russell 3000 Growth through September 30, 2002, Russell 1000 Growth since October 1, 2002
Dimensional Retirement Income Fund - Institutional	20% S&P Global Broad Market Index, 80% S&P 1-5 Year U.S. Treasury TIPS Index
Fidelity Freedom Index Funds - Institutional Premium, TIAA-CREF Lifecycle Index Funds - Institutional	Weighted benchmark of equity and fixed income indices based upon the asset allocation history of each fund. The asset allocation of each fund will become more conservative over time as the fund's target date approaches.