

## First Trust Barclays Edge Index 1-Year Index Analysis

With a fixed-indexed annuity from MassMutual Ascend Life Insurance Company, you can allocate funds to 1-year term indexed strategies that earn returns based on the First Trust Barclays Edge Index. This index is a multi-asset index seeking to provide equity and fixed income exposure through a combination of indexes, while aiming to control risk by maintaining a volatility target at or below 7%. The Index is on an excess return basis, which means it returns the index performance in excess of risk-free rates. Let's take a closer look.

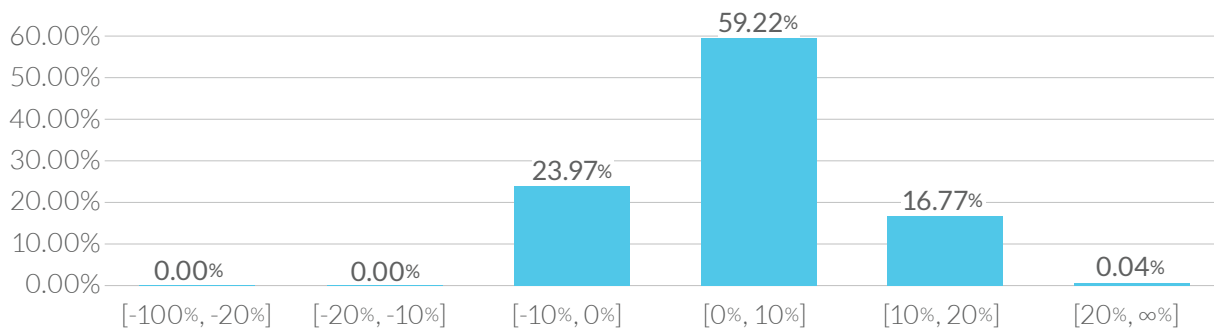
### First Trust Barclays Edge Index returns using rolling periods

The data below uses hypothetical 1-year rolling returns<sup>1</sup> to illustrate how the First Trust Barclays Edge Index would have performed if it existed from December 31, 2013 through December 31, 2023, for a total of 2,349<sup>2</sup> observations.

Hypothetical Average Performance			Hypothetical Positive Performance		Hypothetical Negative Performance	
Average Return	Average Gain	Average Loss	Maximum Return <sup>3</sup>	Num of Gains	Minimum Return <sup>4</sup>	Num of Losses
4.61%	7.05%	-3.13%	20.33%	1,786 (76%)	-6.81%	563 (24%)

### First Trust Barclays Edge Index return distribution

Using the same hypothetical data set and assumptions, the return distribution graph below illustrates how frequently the hypothetical annualized returns fell into specific ranges. The table below the graph shows the hypothetical average return by range.



Hypothetical Return Range	[-100%, -20%]	[-20%, -10%]	[-10%, 0%]	[0%, 10%]	[10%, 20%]	[20%, ∞%]
Hypothetical Average First Trust Barclays Edge Index Return by Range	N/A	N/A	-3.13%	5.56%	12.26%	20.33%

The launch date of the First Trust Barclays Edge Index was April 14, 2023.

<sup>1</sup>1-year rolling returns refers to every 1-year period that started on a business day after December 30, 2013 and ended before January 1, 2024.

<sup>2</sup>Zero flat years, in which the First Trust Barclays Edge Index hypothetical return was 0%, is included in the number of total observations.

<sup>3</sup>Hypothetical maximum return: 1-year period ending 1/26/2018

<sup>4</sup>Hypothetical minimum return: 1-year period ending 1/2/2023

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