

With a fixed-indexed annuity from MassMutual Ascend Life Insurance Company, you can allocate funds to 1-year term indexed strategies that credit interest based on the S&P 500 Risk Control 10% Index. This index provides access to the S&P 500 Index while limiting its risk exposure. Let's take a closer look.

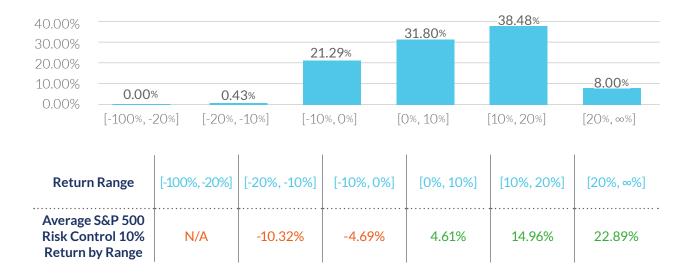
S&P 500 Risk Control 10% returns using rolling periods

The data below uses 1-year rolling returns¹ of the S&P 500 Risk Control 10% Index from December 31, 2014 through December 31, 2024, for a total of 2,349² observations.

| Average Performance | | | Positive Performance | | Negative Performance | |
|---------------------|-----------------|-----------------|--------------------------------|-----------------------|----------------------|---------------------|
| Average Return | Average Gain | Average Loss | Maximum Return ³ | Num of Gains | Minimum Return⁴ | Num of Losses |
| 8.01% | 11.59% | -4.80% | 30.12% | 1,835 (78%) | -10.59% | 510 (22%) |

S&P 500 Risk Control 10% return distribution

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



¹1-year rolling returns refers to every 1-year period that started on a business day after December 30, 2014 and ended before January 1, 2025.

²Four flat years, in which the S&P 500 Risk Control 10% return was 0%, is included in the number of total observations. ³Maximum return: 1-year period ending 10/29/2024

⁴Minimum return: 1-year period ending 11/9/2022

MassMutual Ascend offers several fixed-indexed annuities, which offer upside potential and complete downside protection. Annuities also offer benefits such as tax deferral and guaranteed lifetime income. Talk with your financial professional about how an annuity can fit into your portfolio and help you reach your goals.

The S&P 500 Risk Control 10% Index refers to the S&P 500 Average Daily Risk Control 10% USD Price Return Index. The launch date of this index was April 4, 2013. Indexed strategies are based on the price change of the index during the term. Returns are limited by a cap or participation rate.

Annuities are long-term investments and may not be suitable for all investors. Withdrawals from an annuity contract may have tax consequences.

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