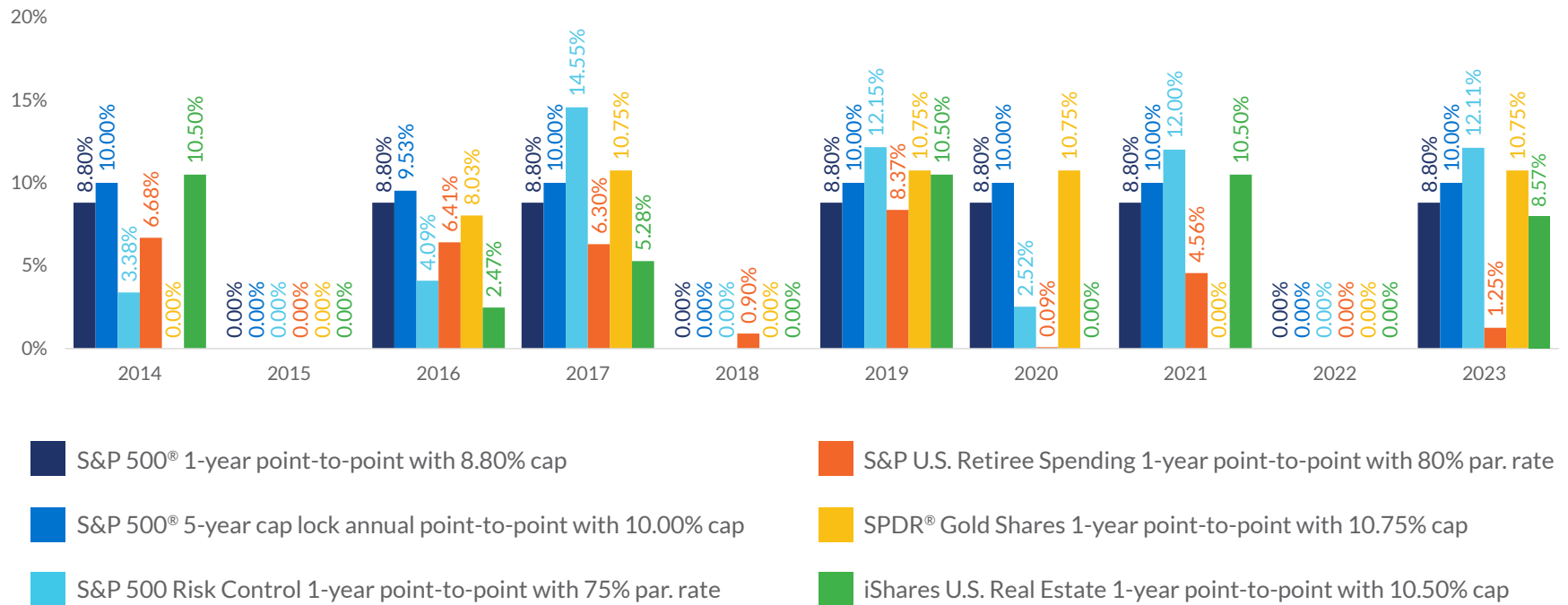


Choose Your Strategy

Fixed-indexed annuities offer indexed strategies that earn interest based, in part, on positive performance of an external index or ETF. The following chart uses historical market returns to illustrate the hypothetical performance of indexed strategies that are available with the AssuranceSelect® 5 Plus from MassMutual Ascend Life Insurance Company.

AssuranceSelect 5 Plus

Hypothetical Strategy Comparison 2014-2023



Rates are as of 03/07/24 and are for purchase payments of \$100,000 and over.

About the indexes and ETFs

S&P 500® INDEX Ticker: SPX

Reflects the large-cap sector of the U.S. equity market. Includes 500 leading companies and captures approximately 80% coverage of available market capitalization.

S&P U.S. RETIREE SPENDING INDEX Ticker: SPRETIRE

Measures the performance of equities in economic sectors that are expected to be impacted by retiree spending, while reducing equity risk and overall portfolio volatility through fixed income exposure.

S&P 500 RISK CONTROL 10% INDEX Ticker: SPXAV10P

Seeks to limit the volatility of the S&P 500 to a target level of 10% by allocating to cash.

SPDR® GOLD SHARES ETF Ticker: GLD

Reflects the performance of the price of gold bullion.

iSHARES U.S. REAL ESTATE ETF Ticker: IYR

Reflects the performance of the real estate sector in the U.S. equity market.

At the end of the five-year term, the cap lock strategy will be reallocated or merge into the S&P 500 1-year point-to-point indexed strategy. The values on this piece are calculated using current caps for the 5-year cap lock strategy, even in years 6-10. The current caps for the 5-year cap lock strategy are lower than the current caps for the S&P 500 1-year point-to-point indexed strategy.

Indexed interest rates for the strategy are based on changes in the index over term years, which are not based on calendar years but begin on the 6th and 20th of a month. The information presented above reflects caps and participation rates that are current for the AssuranceSelect 5 Plus as of the date shown. The actual caps and participation rates that we might have applied during the time period shown would have been different and might have been significantly lower. Past performance does not guarantee future results. Hypothetical performance shown in the chart is not indicative of the interest that would have been credited to a fixed-indexed annuity during the time period shown.

The S&P 500® Index does not include dividends declared by any of the companies in the index. For more information, visit www.US.SPIndices.com and search keyword SPX. 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. For more information, visit www.US.SPIndices.com and search keyword SPXAV10P. The Gold Shares trade on the NYSE Arca under the symbol GLD. The launch date of the SPDR® Gold Shares ETF was November 2004. For more information, visit www.spdrgoldshares.com. The launch date of the S&P U.S. Retiree Index was September 26, 2016. For more information, visit US.SPindices.com and search keyword SPRETIRE. The launch date of the iShares U.S. Real Estate ETF was June 12, 2000. For more information, visit iShares.com and search ticker symbol IYR.

Returns for an index prior to its launch date are back-tested. Back-tested performance is not actual performance, but is hypothetical. Back-tested returns were calculated using the same methodology that was in effect when the index was officially launched. Back-tested performance is subject to inherent limitations because it reflects application of an index methodology and selection of index constituents in hindsight. No theoretical approach can take into account all of the factors in the markets in general and the impact of decisions that might have been made during the actual operation of an index.

The "S&P 500 Index", the "S&P 500 Average Daily Risk Control 10% Price Return Index" and the "S&P U.S. Retiree Spending Index" are products of S&P Dow Jones Indices LLC or its affiliates ("SPDJI") and has been licensed for use by MassMutual Ascend Life Insurance Company. S&P®, S&P 500®, S&P 500 Average Daily Risk Control 10%™, SPDR®, US 500, The 500, iBoxx®, iTraxx® and CDX® are trademarks of S&P Global, Inc. or its affiliates ("S&P"); Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("Dow Jones"); MassMutual Ascend Life Insurance Company's products are not sponsored, endorsed, sold or promoted by SPDJI, Dow Jones, S&P, their respective affiliates, and none of such parties make any representation regarding the advisability of investing in such products nor do they have any liability for any errors, omissions, or interruptions of the S&P 500 Index, the S&P 500 Average Daily Risk Control 10% Price Return Index or the S&P U.S. Retiree Spending Index.

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When you buy a fixed-index annuity, you own an insurance contract. You are not buying shares of any stock or index.

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