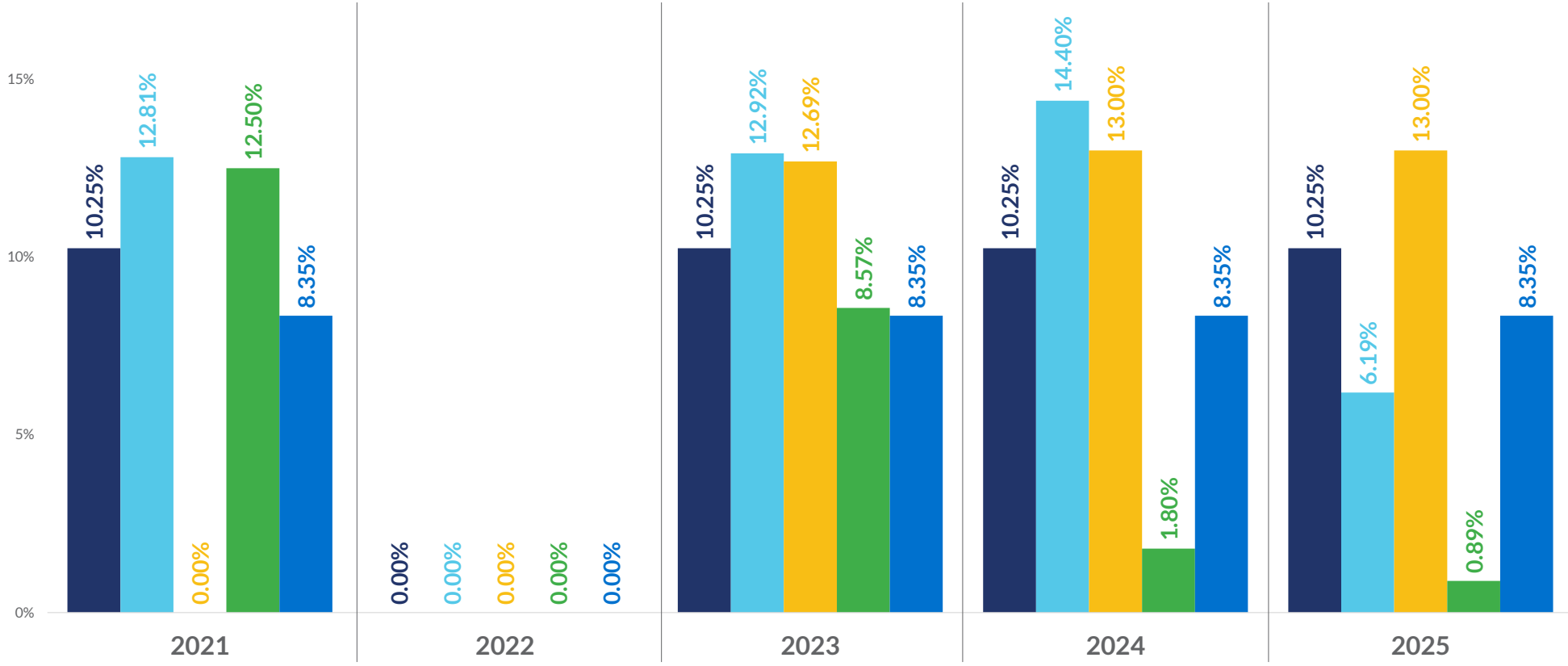
MassMutual Ascend
Life Insurance Company

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.

Not a bank or credit union deposit or obligation • Not FDIC or NCUA-Insured • Not insured by any federal government agency • May lose value • Not guaranteed by any bank or credit union

AssuranceSelect 5 Plus Hypothetical Strategy Comparison 2021-2025



S&P 500® 1-year point-to-point with 10.25% cap

S&P 500 Risk Control 1-year point-to-point with 80% par. rate

SPDR® Gold Shares 1-year point-to-point with 13.00% cap

iShares U.S. Real Estate 1-year point-to-point with 12.50% cap

S&P 500® 1-year point-to-point with performance trigger with 8.35% trigger rate

Rates are as of 10/07/26 and are for purchase payments of $100,000 and over.

*See important disclosures on the next page.

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.

SPDR® GOLD SHARES ETF Ticker: GLD

Reflects the performance of the price of gold bullion.

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.

iSHARES U.S. REAL ESTATE ETF Ticker: IYR

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

***IMPORTANT DISCLOSURE RELATING TO BACK TESTED INDEX WEIGHTINGS.**

This material is provided for information purposes only and to provide general information about the historical exposures of the index's equity and fixed income components as a result of the application of the index methodology and has inherent limitations. It is not intended as a recommendation or an offer or solicitation for the purchase or sale of any security or financial instrument, or to enter into a transaction involving any financial instrument. Nothing in this material should be construed as investment, tax, legal, accounting, regulatory or other advice.

The back tested performance included has many inherent limitations, some of which are described below:

- Hypothetical exposures are achieved by implementing the index's methodology.
- The creation of historical index exposures involves assumptions and the benefit of hindsight and does not reflect the impact that material market or economic events might have had on the underlying indexes or volatility control weightings.
- No representation is being made that the Index will maintain similar exposures in the future.

Actual results will materially vary from the hypothetical performance levels presented herein.

Strategies may vary. Please talk to your financial professional about availability.

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 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" and the "S&P 500 Average Daily Risk Control 10% Price Return Index" are products of S&P Dow Jones Indices LLC or its affiliates ("SPDJI") and have been licensed for use by MassMutual Ascend Life Insurance Company. S&P®, S&P 500®, S&P 500 Average Daily Risk Control 10%™, 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 or the S&P 500 Average Daily Risk Control 10% Price Return Index.

The iShares U.S. Real Estate ETF is distributed by BlackRock Investments, LLC. iShares®, BLACKROCK®, and the corresponding logos are registered and unregistered trademarks of BlackRock, Inc. and its affiliates ("BlackRock"), and these trademarks have been licensed for certain purposes by MassMutual Ascend. MassMutual Ascend annuity products are not sponsored, endorsed, sold or promoted by BlackRock, and purchasers of an annuity from MassMutual Ascend do not acquire any interest in the iShares U.S. Real Estate ETF nor enter into any relationship of any kind with BlackRock. BlackRock makes no representation or warranty, express or implied, to the owners of any MassMutual Ascend annuity product or any member of the public regarding the advisability of purchasing an annuity, nor does it have any liability for any errors, omissions, interruptions or use of the iShares U.S. Real Estate ETF or any data related thereto.

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

Product issued by MassMutual Ascend Life Insurance Company℠ (Cincinnati, Ohio), a wholly owned subsidiary of Massachusetts Mutual Life Insurance Company (MassMutual), under contract form numbers ICC21-P1152121NW. Product not available in all states. Form numbers and features may vary by state.

This content does not apply in the state of New York.

NOT A BANK OR CREDIT UNION DEPOSIT OR OBLIGATION • NOT FDIC OR NCUA-INSURED • NOT INSURED BY ANY FEDERAL GOVERNMENT AGENCY • MAY LOSE VALUE • NOT GUARANTEED BY ANY BANK OR CREDIT UNION

MassMutual Ascend

© 2026 MassMutual Ascend Life Insurance Company, Cincinnati, OH 45202. All rights reserved. www.MassMutualAscend.com