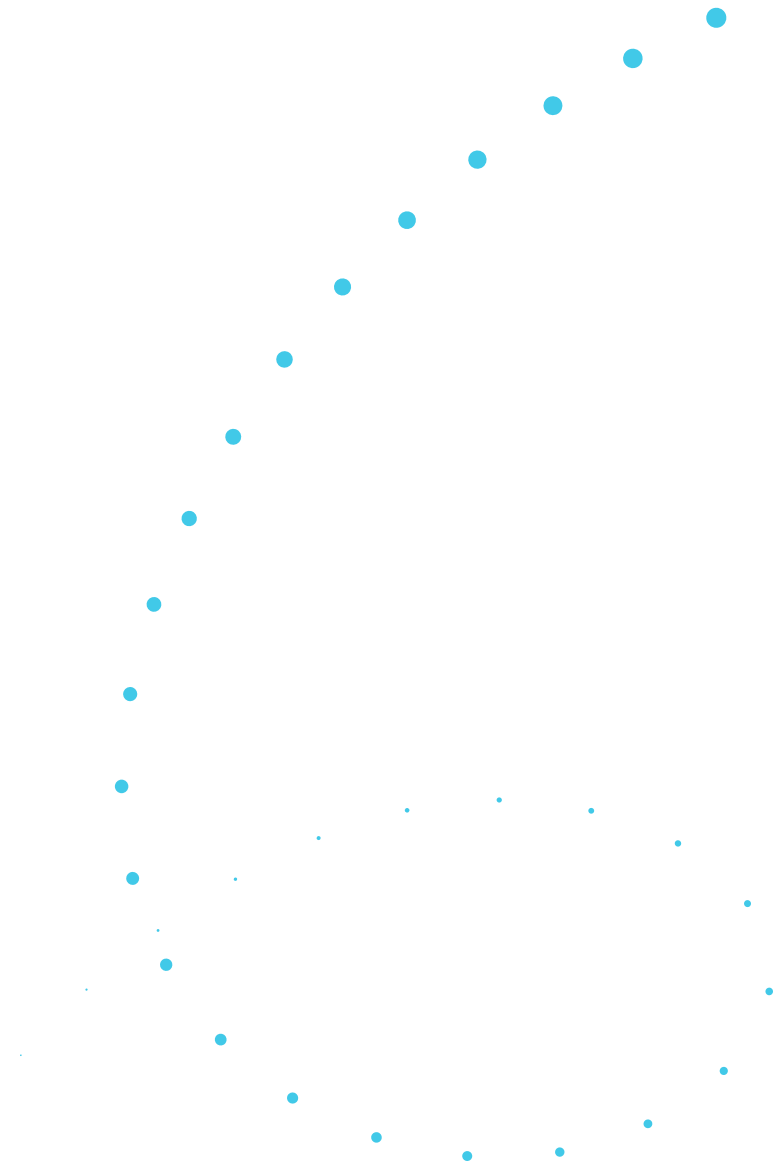


American Freedom Liberty 5 Renewal History

from MassMutual Ascend Life Insurance Company

A fixed-indexed annuity offers interest crediting strategies that help protect your savings from loss while providing the opportunity for growth. Strategy rates and caps are set at the start of each term and guaranteed for that term.

Here is a closer look at the renewal history for the American Freedom Liberty 5 for Fourth Quarter 2022-2025 (for contracts with purchase payments \$100,000 and over).



American Freedom Liberty 5 renewal history

Start of First Term	Fixed Account (Declared Rate Strategy)					S&P 500® 1-year Point-to-Point (Indexed Strategy)					iShares MSCI EAFE Point-to-Point (Indexed Strategy)				
	Initial Rate	2022	2023	2024	2025	Initial Cap	2022	2023	2024	2025	Initial Cap	2022	2023	2024	2025
10/6/21	1.95%	1.95%	1.95%	1.95%	1.95%	4.10%	4.10%	4.10%	4.10%	4.10%	N/A	N/A	N/A	N/A	N/A
10/20/21	1.95%	1.95%	1.95%	1.95%	1.95%	4.10%	4.10%	4.10%	4.10%	4.10%	N/A	N/A	N/A	N/A	N/A
11/6/21	1.95%	1.95%	1.95%	1.95%	1.95%	4.10%	4.10%	4.10%	4.10%	4.10%	N/A	N/A	N/A	N/A	N/A
11/20/21	1.95%	1.95%	1.95%	1.95%	1.95%	4.10%	4.10%	4.10%	4.10%	4.10%	N/A	N/A	N/A	N/A	N/A
12/6/21	1.95%	1.95%	1.95%	1.95%	1.95%	4.10%	4.10%	4.10%	4.10%	4.10%	N/A	N/A	N/A	N/A	N/A
12/20/21	1.95%	1.95%	1.95%	1.95%	1.95%	4.10%	4.10%	4.10%	4.10%	4.10%	N/A	N/A	N/A	N/A	N/A
10/6/22	4.35%	N/A	4.35%	4.35%	4.35%	11.00%	N/A	11.00%	11.00%	11.00%	N/A	N/A	N/A	N/A	N/A
10/20/22	4.35%	N/A	4.35%	4.35%	4.35%	11.00%	N/A	11.00%	11.00%	11.00%	N/A	N/A	N/A	N/A	N/A
11/6/22	4.35%	N/A	4.35%	4.35%	4.35%	11.00%	N/A	11.00%	11.00%	11.00%	N/A	N/A	N/A	N/A	N/A
11/20/22	4.35%	N/A	4.35%	4.35%	4.35%	11.00%	N/A	11.00%	11.00%	11.00%	N/A	N/A	N/A	N/A	N/A
12/6/22	4.35%	N/A	4.35%	4.35%	4.35%	11.00%	N/A	11.00%	11.00%	11.00%	N/A	N/A	N/A	N/A	N/A
12/20/22	4.35%	N/A	4.35%	4.35%	4.35%	11.00%	N/A	11.00%	11.00%	11.00%	N/A	N/A	N/A	N/A	N/A
10/6/23	4.15%	N/A	N/A	4.15%	4.15%	11.25%	N/A	N/A	11.25%	11.25%	N/A	N/A	N/A	N/A	N/A
10/20/23	4.15%	N/A	N/A	4.15%	4.15%	11.25%	N/A	N/A	11.25%	11.25%	N/A	N/A	N/A	N/A	N/A
11/6/23	4.15%	N/A	N/A	4.15%	4.15%	11.25%	N/A	N/A	11.25%	11.25%	N/A	N/A	N/A	N/A	N/A
11/20/23	4.75%	N/A	N/A	4.75%	4.75%	11.25%	N/A	N/A	11.25%	11.25%	N/A	N/A	N/A	N/A	N/A
12/6/23	4.75%	N/A	N/A	4.75%	4.75%	11.25%	N/A	N/A	11.25%	11.25%	N/A	N/A	N/A	N/A	N/A
12/20/23	4.30%	N/A	N/A	4.30%	4.30%	9.25%	N/A	N/A	9.25%	9.25%	N/A	N/A	N/A	N/A	N/A
10/6/24	4.10%	N/A	N/A	N/A	4.10%	8.75%	N/A	N/A	N/A	8.75%	8.50%	N/A	N/A	N/A	8.50%
10/20/24	4.10%	N/A	N/A	N/A	4.10%	8.75%	N/A	N/A	N/A	8.75%	8.50%	N/A	N/A	N/A	8.50%
11/6/24	4.10%	N/A	N/A	N/A	4.10%	8.75%	N/A	N/A	N/A	8.75%	8.50%	N/A	N/A	N/A	8.50%
11/20/24	4.10%	N/A	N/A	N/A	4.10%	8.75%	N/A	N/A	N/A	8.75%	8.50%	N/A	N/A	N/A	8.50%
12/6/24	4.10%	N/A	N/A	N/A	4.10%	8.75%	N/A	N/A	N/A	8.75%	8.50%	N/A	N/A	N/A	8.50%
12/20/24	4.10%	N/A	N/A	N/A	4.10%	8.75%	N/A	N/A	N/A	8.75%	8.50%	N/A	N/A	N/A	8.50%

Continued on next page

American Freedom Liberty 5 renewal history (cont.)

Start of First Term	iShares U.S. Real Estate Point-to-Point (Indexed Strategy)					First Trust Barclays Edge Index Point-to-Point (Indexed Strategy)				
	Initial Rate	2022	2023	2024	2025	Initial Cap	2022	2023	2024	2025
10/6/21	5.15%	5.15%	5.15%	5.15%	5.15%	N/A	N/A	N/A	N/A	N/A
10/20/21	5.15%	5.15%	5.15%	5.15%	5.15%	N/A	N/A	N/A	N/A	N/A
11/6/21	5.15%	5.15%	5.15%	5.15%	5.15%	N/A	N/A	N/A	N/A	N/A
11/20/21	5.15%	5.15%	5.15%	5.15%	5.15%	N/A	N/A	N/A	N/A	N/A
12/6/21	5.15%	5.15%	5.15%	5.15%	5.15%	N/A	N/A	N/A	N/A	N/A
12/20/21	5.15%	5.15%	5.15%	5.15%	5.15%	N/A	N/A	N/A	N/A	N/A
10/6/22	12.50%	N/A	12.50%	12.50%	12.50%	N/A	N/A	N/A	N/A	N/A
10/20/22	12.50%	N/A	12.50%	12.50%	12.50%	N/A	N/A	N/A	N/A	N/A
11/6/22	12.50%	N/A	12.50%	12.50%	12.50%	N/A	N/A	N/A	N/A	N/A
11/20/22	12.50%	N/A	12.50%	12.50%	12.50%	N/A	N/A	N/A	N/A	N/A
12/6/22	12.50%	N/A	12.50%	12.50%	12.50%	N/A	N/A	N/A	N/A	N/A
12/20/22	12.50%	N/A	12.50%	12.50%	12.50%	N/A	N/A	N/A	N/A	N/A
10/6/23	10.00%	N/A	N/A	10.00%	10.00%	N/A	N/A	N/A	N/A	N/A
10/20/23	10.00%	N/A	N/A	10.00%	10.00%	N/A	N/A	N/A	N/A	N/A
11/6/23	10.00%	N/A	N/A	10.00%	10.00%	N/A	N/A	N/A	N/A	N/A
11/20/23	10.50%	N/A	N/A	10.50%	10.50%	N/A	N/A	N/A	N/A	N/A
12/6/23	10.50%	N/A	N/A	10.50%	10.50%	N/A	N/A	N/A	N/A	N/A
12/20/23	9.50%	N/A	N/A	9.50%	9.50%	N/A	N/A	N/A	N/A	N/A
10/6/24	9.50%	N/A	N/A	N/A	9.50%	13.00%	N/A	N/A	N/A	13.00%
10/20/24	9.50%	N/A	N/A	N/A	9.50%	13.00%	N/A	N/A	N/A	13.00%
11/6/24	9.50%	N/A	N/A	N/A	9.50%	13.00%	N/A	N/A	N/A	13.00%
11/20/24	9.50%	N/A	N/A	N/A	9.50%	13.00%	N/A	N/A	N/A	13.00%
12/6/24	9.50%	N/A	N/A	N/A	9.50%	13.00%	N/A	N/A	N/A	13.00%
12/20/24	9.50%	N/A	N/A	N/A	9.50%	13.00%	N/A	N/A	N/A	13.00%



Charts show the initial declared rates and indexed strategy caps for terms that started in the fourth quarter and on the 6th and 20th of each month in years 2021-2024 (Chart Terms) and the corresponding declared rates and caps when the terms renewed in years 2022-2025. Although the charts show the caps for each strategy for each Chart Term, they do not show the indexed interest rate for any strategy for any Chart Term, which may be less than the cap.

Information shown is not a guarantee or representation of future renewal declared rate or cap decisions.

When the initial rates and caps we offer for new contracts decrease, our annuity rate lock procedure allows new contracts to receive the previous, higher rate if all required steps are completed within specified time frames. For new contracts in such situations, the initial declared rates or caps would have been higher than the relevant figures listed in the American Freedom Liberty 5 Renewal History table.

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