

AssuranceSelect 7 Plus

OVERVIEW

ISSUE AGES	0-85 (qualified); 0-85 (non-qualified); 0-75 (inherited IRA); 0-75 (inherited non-qualified)																		
	Issue age is the owner's age at last birthday. For joint owners, the oldest age will be used as the issue age. If the owner is a non-natural person, the age of the eldest annuitant will be treated as the age of the owner for all purposes under this contract.																		
PURCHASE PAYMENTS	This product accepts purchase payments during the first ten contract years. Terms begin only on the 6 th and 20 th of each month. Purchase payments received prior to the beginning of a term will be held in the purchase payment account until the beginning of the next term. Additional purchase payments have their own crediting terms.																		
	Minimum: Initial purchase payment: \$10,000; additional purchase payments: \$2,000																		
	Maximum: \$1 million for ages 0-85																		
	Maximums apply to the total purchase payments made to all annuities from MassMutual Ascend with the same owners or the same annuitants.																		
TAX QUALIFICATIONS	Non-qualified and qualified: 403(b) (traditional and Roth), IRA (traditional, Roth, SEP, SIMPLE and inherited), 457(b) and inherited non-qualified																		
EARLY WITHDRAWAL CHARGE	An early withdrawal charge is applied to full surrenders and withdrawals.																		
	<table border="1"> <thead> <tr> <th data-bbox="477 1220 688 1247">CONTRACT YEAR</th> <th data-bbox="873 1220 889 1247">1</th> <th data-bbox="932 1220 948 1247">2</th> <th data-bbox="990 1220 1006 1247">3</th> <th data-bbox="1049 1220 1065 1247">4</th> <th data-bbox="1107 1220 1123 1247">5</th> <th data-bbox="1166 1220 1182 1247">6</th> <th data-bbox="1224 1220 1240 1247">7</th> <th data-bbox="1282 1220 1331 1247">8+</th> </tr> </thead> <tbody> <tr> <td data-bbox="477 1262 834 1289">EARLY WITHDRAWAL CHARGE</td> <td data-bbox="873 1262 906 1289">8%</td> <td data-bbox="932 1262 964 1289">8%</td> <td data-bbox="990 1262 1023 1289">7%</td> <td data-bbox="1049 1262 1081 1289">6%</td> <td data-bbox="1107 1262 1140 1289">5%</td> <td data-bbox="1166 1262 1198 1289">4%</td> <td data-bbox="1224 1262 1256 1289">3%</td> <td data-bbox="1282 1262 1331 1289">0%</td> </tr> </tbody> </table>	CONTRACT YEAR	1	2	3	4	5	6	7	8+	EARLY WITHDRAWAL CHARGE	8%	8%	7%	6%	5%	4%	3%	0%
CONTRACT YEAR	1	2	3	4	5	6	7	8+											
EARLY WITHDRAWAL CHARGE	8%	8%	7%	6%	5%	4%	3%	0%											
MARKET VALUE ADJUSTMENT (MVA)	During the first seven contract years, a market value adjustment (or MVA) will apply if the contract is surrendered or a withdrawal above the free withdrawal allowance is taken.																		
	An MVA is an adjustment to the contract values based on how market interest rates have changed since the applicable strategy application date. If interest rates have gone up, the adjustment will be negative and may decrease contract values. If interest rates have gone down, the adjustment may be positive and may increase contract values. The amount subject to the adjustment is the portion of the account value withdrawn after the 10% free withdrawal allowance. This amount is then multiplied by the MVA factor.																		
	The adjustment depends on the given purchase payment to which the amount withdrawn or surrendered is attributable.																		
	A positive MVA will never be more than the early withdrawal charge that would apply to the withdrawal or surrender. A negative MVA, together with the early withdrawal charge, will never reduce the account value by more than an amount equal to two times that charge.																		

**GUARANTEED
MINIMUM
SURRENDER
VALUE (GMSV)**

The GMSV equals 87.5% of purchase payments minus all prior withdrawals (not including early withdrawal charges or negative market value adjustments) plus interest credited daily at the GMSV rate. The GMSV will not be less than the minimum values required by the NAIC standard nonforfeiture law for individual deferred annuities, model #805 and the GMSV rate will not be less than the minimum rate required by each state.

**FREE
WITHDRAWAL
ALLOWANCE**

During the first contract year, 10% of purchase payments may be withdrawn without an early withdrawal charge. After the first contract year, 10% of the sum of the account value as of the most recent contract anniversary and all purchase payments received since the most recent contract anniversary may be withdrawn without an early withdrawal charge.

WITHDRAWALS

Withdrawals are allowed any time prior to the income start date. All withdrawals are subject to IRS regulations and early withdrawal charges. Withdrawals will be taken first from amounts applied to the purchase payment account, then from the declared rate strategy, then from the other indexed strategy(ies) with the shortest term. If there are multiple indexed strategies that meet that criterion, withdrawals will be taken proportionally from all indexed strategies with the shortest term.

Minimum withdrawal: \$500;

Minimum account value following withdrawal: \$5,000

**TERMINAL
ILLNESS WAIVER
RIDER**

Provided that the diagnosis is rendered more than one year after the contract effective date, up to 100% of the account value can be withdrawn without deduction of an early withdrawal charge if the owner or joint owner is diagnosed by a physician as having a terminal illness with a prognosis of 12 months or less.

This waiver may be used only once. Not available in Massachusetts.

**EXTENDED CARE
WAIVER RIDER**

To help ease the strain of certain unforeseen events, an extended care waiver is available for no additional charge. If the owner is confined to a nursing home or other long-term care facility after the completion of the first contract year for at least 90 consecutive days, early withdrawal charges may be waived on withdrawals up to a full surrender.

Not available in Massachusetts. In California, the Extended Care Waiver Rider has been replaced with the Waiver of Early Withdrawal Charges for Facility Care or Home Care or Community-Based Services Rider, which provides for a waiver of early withdrawal charges under an expanded variety of circumstances.

**INTEREST
STRATEGIES**

Upon issue, the owner selects from two types of interest strategies: a **declared rate strategy** and an **indexed strategy**. At the end of each term, the owner has the opportunity to transfer funds among the available interest strategies. To transfer funds, the owner must submit changes at least one day before the new term begins. Unless the owner transfers funds at the end of a term, funds are automatically applied to the same strategy for the next term. Funds held in the seven-year strategy are automatically applied to the S&P 500® 1-year point-to-point strategy, unless the owner elects otherwise. Available strategies are subject to change at any time for new sales.

TERM

- The seven-year cap lock strategy has a seven-year term. The cap is locked in for the entire seven-year term. This strategy may only be selected during the first contract year.
- All other strategies have a one-year term.
- **With all indexed strategies, interest is credited annually** on the last day of each term year.
- Clients may change their strategy allocations at the end of each one or seven-year term.

INTEREST RATES

Purchase payment account interest rate: Interest is credited daily on amounts held in this account based on an applicable interest rate. This interest rate is guaranteed to be at least equal to the guaranteed minimum interest rate set out in the contract.

Declared interest rate: Interest is credited daily on amounts held under a declared rate strategy based on the applicable declared interest rate. The current declared interest rate will not change during the strategy's term and is guaranteed to never be below the guaranteed minimum declared rate for any subsequent terms. Current declared interest rates and guaranteed minimum declared rates may vary by state; please refer to the current interest rate chart.

Indexed interest rate: An indexed interest rate is determined, in part, by the performance of the S&P 500[®], iShares U.S. Real Estate ETF (IYR) or SPDR[®] Gold Shares. Indexed interest is credited annually on the last day of each term year. Indexed strategies include:

- S&P 500[®] 1-year point-to-point with cap
- S&P 500[®] 7-year cap lock annual point-to-point
- iShares U.S. Real Estate 1-year point-to-point with cap
- SPDR[®] Gold Shares annual 1-year-to-point with cap

Point-to-point indexed strategy: The indexed interest rate for a term year is determined by comparing the index value on the last day of that term year to the value on the first day of that term year. The indexed interest rate for that term year equals the index change, up to the cap or multiplied by the participation rate. The indexed interest rate will never be less than 0%.

Strategies may not be available in all states.

ACCOUNT VALUE

The account value equals the sum of the following values:

Purchase payment account value: The purchase payment account value equals the purchase payments received, less amounts applied to an interest strategy, less withdrawals and applicable early withdrawal charges, plus or minus applicable MVAs, plus interest credited, and less any applicable premium tax or other applicable tax.

Declared rate strategy value: A declared rate strategy value equals the amount applied to the declared rate strategy, less withdrawals and applicable early withdrawal charges, plus or minus applicable MVAs and plus interest credited at the declared interest rate.

Interest strategy value: An interest strategy value equals the amount applied to that strategy, less withdrawals and applicable early withdrawal charges, plus or minus applicable MVAs, and plus indexed interest credited.

SURRENDER VALUE

The surrender value equals the greater of the the account value, adjusted for any market value adjustment that would apply on a surrender, reduced by charges not previously deducted, and minus the early withdrawal charge that would apply on a surrender; or the GMSV.

PAYOUT OPTIONS

The following options are available: fixed period payout, life payout, life payout with payments for at least a fixed period, or joint and one-half survivor payout.

OWNERSHIP

Owner and annuitant must be the same on qualified contracts. Joint owners are allowed only on non-qualified contracts. Trust and Corporations are allowed as owners.

DEATH BENEFIT

The greater of the the account value, reduced by charges not previously deducted, and reduced by premium tax or other taxes not previously deducted; or the GMSV.

EASY SYSTEMATIC PAYMENT (ESP) PROGRAM (NON-CONTRACTUAL)

The fixed dollar and life distribution options are available. Refer to the Terms and Conditions section of the applicable ESP program election agreement form for eligibility requirements. ESP payments reduce the amount available under the free withdrawal allowance. Please note indexed interest is credited only at the end of a term year; amounts withdrawn before the end of a term year will not earn any indexed interest.

For more information on the iShares U.S. Real Estate ETF, visit [iShares.com](https://www.ishares.com) and search ticker symbol IYR. For more information on the SPDR Gold Shares ETF, visit [spdrgoldshares.com/usa](https://www.spdrgoldshares.com/usa).

The S&P 500 Index is a product of S&P Dow Jones Indices LLC or its affiliates (“SPDJI”) and has been licensed for use by MassMutual Ascend. Standard & Poor’s®, S&P®, SPDR® and STANDARD & POOR’S DEPOSITORY RECEIPTS® are registered trademarks of Standard & Poor’s Financial Services LLC (“S&P”); Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC (“Dow Jones”); and these trademarks have been licensed for use by SPDJI and sublicensed for certain purposes by MassMutual Ascend. MassMutual Ascend’s products are not sponsored, endorsed, sold or promoted by SPDJI, Dow Jones, S&P, or their respective affiliates, and none of such parties makes 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 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.

Product issued by MassMutual Ascend Life Insurance Company, (Cincinnati, Ohio), a wholly owned subsidiary of Massachusetts Mutual Life Insurance Company (MassMutual), under contract form ICC21-P1476721NW. Form numbers, features and availability may vary by state.

For producer use only. Not for use in sales solicitation.

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

∴ MassMutual Ascend