

Performance Update

As of August 31, 2024

Variable Life Select (VLS)
Variable Life Insurance

- **Not a bank or credit union deposit or obligation**
- **Not insured by any federal government agency**
- **Not FDIC or NCUA-insured**
- **Not guaranteed by any bank or credit union**
- **May go down in value**

Variable Life Select (VLS)

VLS is a permanent life insurance policy that combines death benefit protection with the opportunity to accumulate policy value through investments in a separate account with underlying investment funds, and a guaranteed principal account. This report gives information only about the performance of the investment options available through the policy. It does not give, and should not be understood to give, information about the overall performance of any VLS policy. **It is strongly urged that you request a current illustration of policy values from your financial representative to see how policy charges can impact the performance of your policy.** The illustration will reflect the deduction of mortality and expense risk charges, premium expense charges, surrender charges, and the monthly administrative, face amount, and insurance charges, as well as any applicable rider charges specific to your policy. To request an illustration, simply contact your personal financial representative, or click on “contact us” on our web site, or call the MassMutual Customer Service Center at (800) 272-2216, Monday - Friday, 8 a.m. to 8 p.m. Eastern Time.

The investment performance figures in this report are based on actual historical performance of the investment options for the periods shown, including for those time periods that begin prior to this policy's availability date. In most states, the policy first became available on July 24, 1995. For periods of one year or less, the total return is not annualized. For periods greater than one year, the average annual total return for the time periods is shown.

Past performance is no indication of future results. This update contains the most recent month-end performance. Since performance changes daily, the current performance may be lower or higher than the performance reflected in this update. The investment return and principal value of an investment will fluctuate so that an investor's shares, when redeemed, may be worth more or less than their original cost. For the most recent month-end performance information, visit our website at www.massmutual.com or call the MassMutual Customer Service Center at (800) 272-2216, Monday - Friday, 8 a.m. to 8 p.m. Eastern Time.

Investing involves risk, including the loss of principal. Each investment choice underlying the policy has broad risks that apply to all investment choices, such as market risk, as well as specific risks inherent in particular types of investment choices that may subject your policy to greater risk and volatility than the general market.

This material must be preceded or accompanied by the [current prospectuses for the VLS insurance policy and the prospectuses \(or summary prospectuses, if available\) for its underlying investment choices.](#) Before purchasing a policy, investors should carefully consider the investment objectives, risks, charges and expenses of the policy and its underlying investment choices. Please read the prospectuses carefully before investing or sending money. Please note that VLS is closed to new business. Existing policy owners, however, may continue to make premium payments under existing policies.

Interest Rates - Guaranteed Principal Account

The following are effective annual rates used to credit interest on amounts in the Guaranteed Principal Account. These rates do not apply to any policy loan amounts. Current Interest Rate as of: 10/1/23 3.00%; 11/1/23 3.00%; 12/1/23 3.00%; 1/1/24 3.00%; 2/1/24 3.00%; 3/1/24 3.00%; 4/1/24 3.00%; 5/1/24 3.00%; 6/1/24 3.00%; 7/1/24 3.00%; 8/1/24 3.00%; 9/1/24 3.00%.

Market Indices as of August 31, 2024

	YTD	1 Year	3 Years	5 Years	10 Years
S&P 500 Index	19.53%	27.14%	9.38%	15.92%	12.98%
MSCI ACWI Ex USA NR USD	11.22%	18.21%	2.11%	7.56%	4.42%
Russell 2000 Total Return Index	10.39%	18.47%	0.60%	9.68%	8.03%
Bloomberg U.S. Aggregate Bond Index	3.07%	7.30%	-2.11%	-0.04%	1.64%

Market indices have been provided for informational purposes only; they are unmanaged and reflect no fees or expenses. Individuals cannot invest directly in an index.

The Standard & Poor's 500 Index is an unmanaged measure of common stock total return performance in the U.S.

The Russell 2000 Total Return Index is a broad based, unmanaged index comprised of 2000 of the smallest U.S. domiciled company common stocks (on the basis of capitalization) that are traded in the United States on the New York Stock Exchange, the American Stock Exchange, and NASDAQ.

The Bloomberg U.S. Aggregate Bond Index is an unmanaged index of U.S. corporate bond issues, U.S. Government Securities and mortgage-backed securities.

Total Returns

For the Period Ending: August 30, 2024

Total Returns for each fund are the actual historical rates and are net of all fund management fees and other operating expenses. These returns do not reflect the Separate Account Mortality and Expense Risk Charges or policy charges. Policy charges include: premium expense charges, surrender charges, and the monthly administrative, and insurance charges. If these charges were deducted, the returns would be significantly lower.

Separate Account Sub-account	Fund Inception Date	Endnotes	Cumulative	Average Annual				Since Inception
			YTD	1 Year	3 Years	5 Years	10 Years	
Money Market								
MML U.S. Government Money Market <i>7-day yield 4.81%</i>	12/15/1981	1, 2	3.29%	4.99%	3.04%	1.95%	1.28%	*
Fixed Income								
Invesco V.I. Global Strategic Income Fund - SERIES I	5/3/1993	3	3.73%	8.27%	-0.18%	0.63%	1.38%	*
MML II Managed Bond Fund - Initial	12/16/1981		4.88%	10.10%	-1.92%	0.65%	1.97%	*
Balanced								
MML II Blend Fund - Initial	2/2/1984		12.23%	18.53%	4.13%	9.02%	7.91%	*
Large Cap Value								
LVIP American Century Disciplined Core Value Fund - Standard Class II	10/30/1997	8	14.56%	20.43%	3.40%	10.58%	8.69%	*
MML II Equity Fund - Initial	12/31/1973	5	19.23%	25.89%	8.87%	13.10%	9.27%	*
Large Cap Blend								
Fidelity VIP Contrafund Portfolio - Initial	1/3/1995	4	27.30%	36.34%	9.24%	17.83%	13.35%	*
MML Equity Index Fund - II	5/1/2000	6	19.28%	26.75%	9.06%	15.62%	12.68%	*
Large Cap Growth								
Invesco V.I. Capital Appreciation Fund - SERIES I	4/3/1985		23.82%	32.39%	5.54%	16.46%	12.77%	*
Small/Mid Cap Growth								
Invesco V.I. Discovery Mid Cap Growth Fund - SERIES I	8/15/1986		15.33%	19.74%	-3.31%	9.42%	11.05%	*
T Rowe Mid-Cap Growth Portfolio Fund	12/31/1996	7	8.28%	14.83%	0.30%	8.74%	10.54%	*
Small/Mid Cap Blend								
MML II Small Cap Equity Fund - Initial	6/1/1998		11.56%	18.67%	4.46%	12.95%	9.62%	*
International/Global								
Invesco V.I. Global Fund - SERIES I	11/12/1990		15.81%	25.43%	1.33%	12.17%	9.61%	*

Endnotes

- 1 You could lose money by investing in the Fund. Although the seeks to preserve the value of your investment at \$1.00 per share, it cannot guarantee it will do so. An investment in the is not a bank account and is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The Fund's sponsor is not required to reimburse the Fund for losses, and you should not expect that the sponsor will provide financial support to the at any time, including during periods of market stress. The yield quotation for this more closely reflects the current earnings of the than the total return quotation. It is an annualized rate based on results over the last seven days of the period, and is net of all recurring contract fees and charges.
- 2 The MML U.S. Government Money Market Fund does not have a 12b-1 fee.
- 3 Unavailable in contracts issued on or after May 1, 2009. For contracts issued prior to May 1, 2009, you may not allocate any new money to this fund via purchase payments or transfers.
- 4 The fund established a new class of shares, which is available with this policy, after it began its initial investment operations. The performance for the period prior to offering the new class shows the historical returns for the original class of shares, which were not subject to a 12b-1 fee. The performance shown from the inception date of the class available with this policy includes the fees and expenses of that share class, including a 12b-1 fee. A 12b-1 fee reduces a fund's performance.
- 5 Although the MML Equity Fund commenced operations on 9/15/1971, the information necessary to calculate returns is available only for 1974 and later years.
- 6 The fund established a new class of shares, which is available with this policy, after it began its initial investment operations. The performance for the period prior to May 1, 2000 shows the historical returns for Class I shares. Performance for periods after May 1, 2000 shows the historical returns for the share class available with this policy and reflects the fees and expenses of that share class.
- 7 T. Rowe Price Mid-Cap Growth is not available as an investment choice for policies issued on May 1, 2004 or later.
- 8 Formerly known as American Century VP Disciplined Core Value.
- * When the fund has 10 years of performance history the Since Inception return is no longer shown.

Variable Life Select (VLS) (Policy Form B960-9400 in most states and B960-9400NC in North Carolina) is individual, participating, flexible premium, variable, whole life insurance and was issued by Massachusetts Mutual Life Insurance Company (MassMutual), Springfield, MA 01111-0001, in New York and Puerto Rico. Dividends are not expected to be paid. VLS was issued in all other states and the District of Columbia by MML Bay State Life Insurance Company (MML Bay State), Enfield, CT 06082. MML BayState is non-admitted in New York and is a subsidiary of MassMutual. The policy issued by MML Bay State is non-participating. We no longer offer VLS for sale to the public. Policy owners may continue, however, to make premium payments to their VLS policies.

Principal Underwriters:

MML Investors Services, LLC
MML Strategic Distributors, LLC

Subsidiaries of Massachusetts Mutual Life Insurance Company, 1295 State Street, Springfield, MA 01111-0001

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