

Important Disclosures

Performance data given represents past performance and does not guarantee future results. Current performance may be lower or higher than return data quoted herein. For more current information, including month-end performance, please call 877-474-5016 or see www.massmutual.com/retire. The investment return and the principal value of an investment will fluctuate; so an investor's shares/units, when redeemed, may be worth more or less than their original cost. Investment portfolio statistics change over time. The investment is not FDIC-insured, may lose value and is not guaranteed by a bank or other financial institution.

Some plan investments may be made available through an unregistered group annuity contract issued to your plan by the Massachusetts Mutual Life Insurance Company ("MassMutual"). If that is the case, those plan investments 1.) may be in a separate investment account of MassMutual that purchases shares/units of one or more underlying investments, or 2.) may be invested directly in the investment via a separate arrangement between your plan and State Street Bank and Trust Company.

Pre-inception Returns

The inception date listed is that of the investment represented by the investment profile. Performance shown subsequent to the inception date is the actual performance of the investment. Other share classes of the investment itself or its underlying investment (depending upon the investment) may have existed longer, which may account for any pre-inception performance shown. If pre-inception performance is shown, it is generally the performance of an older share class of the investment itself or its underlying investment (depending upon the investment) adjusted for fees and expenses of the newer share class. However, if using the expenses of the newer share class rather than the expenses of the older share class (due to lower expenses of the newer share class) would result in better performance, then pre-inception performance represents that of the older share class without any expense adjustment. The fees and expenses are referenced in the report's Operations section.

While the inclusion of pre-inception data may provide valuable insight into the probable long-term behavior of newer share classes of an investment, investors should be aware that an adjusted historical return can only provide an approximation of that behavior. For example, the fee structure between a retail share class will vary from that of an institutional share class, as retail share classes tend to have higher operating expenses and sales charges. These adjusted historical returns are not actual returns. Calculation methodologies utilized by Morningstar may differ from those applied by other entities, including the investment itself.

Performance

Fund Return reflects performance of the investment without adjusting for sales charges or the effects of taxation, but is adjusted to reflect all actual ongoing investment expenses and assumes reinvestment of dividends and capital gains (if applicable). If adjusted, sales charges would reduce the performance quoted. In addition, due to market volatility, the investment's return may vary greatly over short periods of time.

The investment's performance is generally compared with that of an index. The index is an unmanaged portfolio of specified securities and does not reflect any initial or ongoing expenses nor can it be invested in directly. An investment's portfolio may differ significantly from the securities in the index. Morningstar chooses the index, which may not be the same as the comparative index noted in the investment's prospectus (if applicable).

Morningstar Proprietary Statistics

Please note that some Morningstar proprietary calculations, including the Morningstar Rating, Morningstar Return, and

Morningstar Risk may be calculated based on pre-inception returns. Therefore, Morningstar's three-year minimum performance history requirement for Morningstar Rating, Morningstar Return, and Morningstar Risk may be satisfied using pre-inception returns, and the Morningstar Rating, Morningstar Return, and Morningstar Risk may be based, at least in part, on pre-inception returns. Please see the pre-inception returns disclosure (above) for more details.

Morningstar Rating™

For each investment with at least a three-year history, Morningstar calculates a Morningstar Rating™ based on how an investment ranks on a Morningstar Risk-Adjusted Return measure against other investments in the same category. This measure takes into account variations in an investment's monthly performance after adjusting for sales loads (except for load-waived A shares), redemption fees, and the risk-free rate, placing more emphasis on downward variations and rewarding consistent performance. The top 10% of investments in each category receive 5 stars, the next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% receive 2 stars and the bottom 10% receive 1 star. The Overall Morningstar Rating for an investment is derived from a weighted average of the ratings for the three-, five- and ten-year (if applicable) time periods. Load-waived A share star ratings do not include any front-end sales load and are intended for those investors who have access to such purchase terms, such as participants in MassMutual-serviced retirement plans.

Morningstar Style Box™

The Morningstar Style Box reveals a fund's investment strategy as of the date noted on this report. For equity funds the vertical axis shows the market capitalization of the long stocks owned and the horizontal axis shows investment style (value, blend, or growth). For fixed-income funds, the vertical axis shows the credit quality of the long bonds owned and the horizontal axis shows interest rate sensitivity as measured by a bond's effective duration.

For corporate and municipal bonds, Morningstar surveys credit rating information from fund companies on a periodic basis (e.g., quarterly). In compiling credit rating information, Morningstar instructs fund companies to only use ratings that have been assigned by a Nationally Recognized Statistical Rating Organization (NRSRO). If two NRSROs have rated a security, fund companies are to report the lowest rating to Morningstar. If a rating is unavailable or unpublished, then the security or issuer is categorized as Not Rated/Not Available. US Government Securities issued by the US Treasury or US Government Agencies are included in the US Government category. PLEASE NOTE: Morningstar, Inc. is not itself an NRSRO nor does it issue a credit rating on the fund. An NRSRO rating on a fixed-income security can change from time-to-time.

Morningstar Return

This statistic is a measurement of an investment's excess return over a risk-free rate (the return of the 90-day Treasury bill), after adjusting for all applicable loads and sales charges. In each Morningstar Category, the top 10% of investments earn a High Morningstar Return, the next 22.5% Above Average, the middle 35% Average, the next 22.5% Below Average, and the bottom 10% Low. Morningstar Return is measured for up to three time periods (three-, five-, and 10-years). These separate measures are then weighted and averaged to produce an overall measure for the investment. Investments with less than three years of performance history are not rated. For more information, please see Morningstar Proprietary Statistics (above).

Morningstar Risk

This statistic evaluates the variations in an investment's monthly returns, with an emphasis on downside variations.

In each Morningstar Category, the 10% of investments with the lowest measured risk are described as Low Risk, the next 22.5% Below Average, the middle 35% Average, the next 22.5% Above Average, and the top 10% High. Morningstar Risk is measured for up to three time periods (three-, five-, and 10-years). These separate measures are then weighted and averaged to produce an overall measure for the investment. Investments with less than three years of performance history are not rated. For more information, please see Morningstar Proprietary Statistics (above).

Investment Risk

Money market investments are not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. Although these investments seek to preserve the value of your investment at \$1.00 per share, it is possible to lose money by investing in a money market option.

Risks of investing in inflation-protected bond investments include credit risk and interest rate risk. Neither the bond investment nor its yield is guaranteed by the U.S. Government.

High yield bond investments are generally subject to greater market fluctuations and risk of loss of income and principal than lower yielding debt securities investments. Investment option(s) that track a benchmark index are professionally managed investments. However, the benchmark index itself is unmanaged and does not incur fees or expenses and cannot be purchased directly for investment.

Investments in companies with small or mid market capitalization ("small caps" or "mid caps") may be subject to special risks given their characteristic narrow markets, limited financial resources, and less liquid stocks, all of which may cause price volatility.

International/global investing can involve special risks, such as, political changes and currency fluctuations. These risks are heightened in emerging markets. You cannot transfer into international/global investment options if you have already made a purchase followed by a sale (redemption) involving the same investment within the last sixty days. In addition, you may not request a transfer into international/global investment options between 2:30 and 4 p.m. ET. Other trading restrictions may apply. Please see the investment's prospectus for more details.

A significant percentage of the underlying investments in aggressive asset allocation portfolio options have a higher than average risk exposure. Investors should consider their risk tolerance carefully before choosing such a strategy.

An investment option with underlying investments (multi-investment options, which may include any offered proprietary or non-proprietary asset-allocation, lifestyle, lifecycle or custom blended options) may be subject to the expenses of those underlying investments in addition to those of the investment option itself.

Investments may reside in the specialty category due to 1) allowable investment flexibility that precludes classification in standard asset categories and/or 2) investment concentration in a limited group of securities or industry sectors). Investments in this category may be more volatile than less-flexible and/or less-concentrated investments and may be appropriate as only a minor component in an investor's overall portfolio. **Investors should consider an investment's objectives, risks, charges and expenses carefully before investing. For this and other information, see a fact sheet (investment profile) or the prospectus, if applicable. You may obtain a prospectus or fact sheet by calling 1-800-840-1161 or at www.massmutual.com/retire. Read it carefully before investing.**

Securities offered through registered representatives of MML Investors Services, Inc. 1295 State Street Springfield, MA 01111. RS-04746-06

RetireSMART 2010 Fund MRXLX

Class L

Benchmark
Morningstar Lifetime Moderate 2010

Overall Morningstar Rating™
★★★
Out of 149 Target Date 2000-2010 funds. **An investment's overall Morningstar Rating, based on its risk-adjusted return, is a weighted average of its applicable 3-, 5-, and 10-year Ratings. See disclosure for details.**

Morningstar Return
Average

Morningstar Risk
Above Average

Investment Strategy

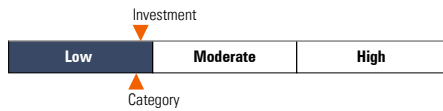
The investment seeks to achieve as high a total rate of return on an annual basis as is considered consistent with prudent investment risk and the preservation of capital.

The fund primarily invests in a combination of domestic and international mutual funds, and money market funds using an asset allocation strategy designed for investors expecting to retire around the year 2010. It invests 46.6% of assets in domestic equity funds, 50.4% in fixed income & short term/money market funds and 3% in other funds.

Category Description: Target Date 2000-2010

Target-date portfolios provide diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2000-2010) for retirement or another goal. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. These portfolios get more conservative as the goal date approaches by investing more in bonds and cash. Investment managers structure these portfolios differently; two funds with the same goal year may have different allocations to equities and therefore different levels of return and risk.

Volatility Analysis



In the past, this investment has shown a relatively small range of price fluctuations relative to other investments. Based on this measure, currently more than two thirds of all investments have shown higher levels of risk. Consequently, this investment may appeal to investors looking for a conservative investment strategy.

Operations as of 06-10-11

Prospectus Gross Expense Ratio	0.99% of fund assets
Prospectus Net Expense Ratio	0.99% of fund assets
Fund Inception Date	12-31-03

Waiver Data	Type	Exp. Date	%
—	—	—	—

Portfolio Manager(s)

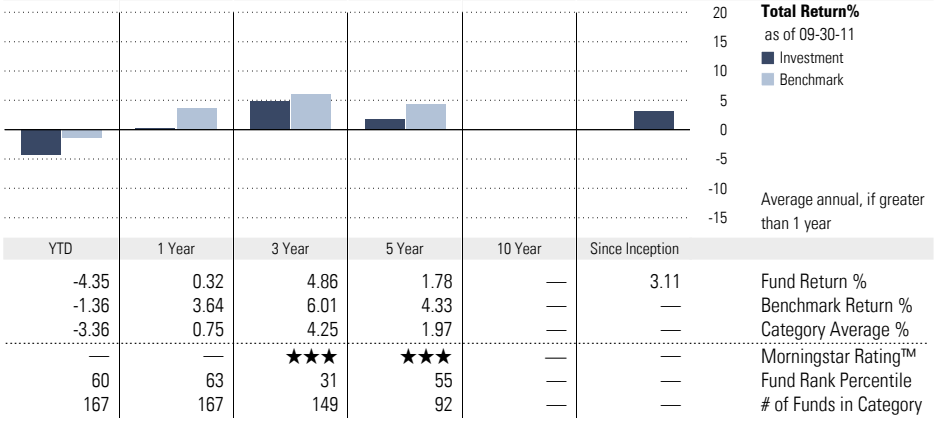
Bruce Picard Jr.
Frederick Schultiz.
Michael Eldredge.

Management Company	Massachusetts Mutual Life Insurance Co
Distributor	MML Distributors, LLC

Notes

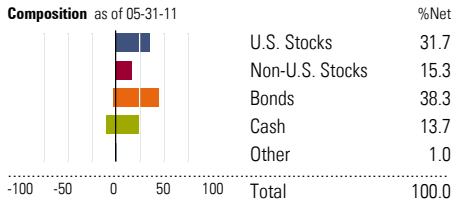
See disclosure page for more details.

Performance

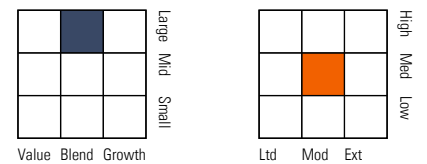


Performance Disclosure: The performance data given represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; so an investor's shares/units, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than return data quoted herein.

Portfolio Analysis as of 05-31-11



Morningstar Style Box™ as of 05-31-11 (EQ) ; 05-31-11 (F-I)



Top 10 Holdings as of 05-31-11

	% Assets
MassMutual Premier Core Bond S	15.61
MassMutual Premier Short-Duration Bond S	11.81
MassMutual Premier Infl-Prot and Inc S	9.50
MassMutual Select Overseas S	5.28
MassMutual Premier Disciplined Growth S	5.26
MassMutual Premier Disciplined Value S	5.19
MassMutual Select PIMCO Total Ret S	3.98
MassMutual Premier Strategic Emerg Mkt S	3.76
Oppenheimer Real Estate Y	3.31
MassMutual Premier International Bond S	3.18

Morningstar Sectors as of 05-31-11

	% Fund	S&P 500 %
Cyclical	41.19	26.76
Basic Materials	5.97	3.06
Consumer Cyclical	11.68	9.31
Financial Services	15.15	12.61
Real Estate	8.39	1.78
Sensitive	40.40	45.11
Communication Services	2.79	4.47
Energy	9.44	11.49
Industrials	14.02	11.59
Technology	14.15	17.56
Defensive	18.41	28.12
Consumer Defensive	7.47	12.28
Healthcare	8.68	11.94
Utilities	2.26	3.90

Total Number of Holdings	35
Annual Turnover Ratio %	38
Total Fund Assets (\$mil)	98.7

Morningstar Disclosure Some of the returns and Morningstar proprietary calculations, may be based on pre-inception returns and are hypothetical. Morningstar may use the performance of the underlying investment vehicle for the prior periods, making adjustments to those returns for any difference in fee structure. The evaluation of this investment does not affect the retail mutual fund data published by Morningstar. This investment's metrics are compared against the retail mutual fund universe breakpoints to determine its hypothetical rating and category related statistics.