062908-0001-0001

QUALIFIED DEFAULT INVESTMENT ALTERNATIVE (QDIA) NOTICE FOR PLAN YEAR BEGINNING 2020

Plumbers & Steamfitters Local 21 Annuity Fund

If you are an eligible Participant in the Plumbers & Steamfitters Local 21 Annuity Fund (the "Plan"), you have the right to direct your plan investments. The amounts contributed to the Plan on your behalf will be invested in accordance with the Plan's investment procedures. Any earnings on the investment of your contributions under the Plan will be allocated to your Plan account.

If you have made an investment election with respect to your own account, the following information may not apply to you.

Right to direct investment. This notice advises you that as a Participant (including a Beneficiary of a deceased Participant or alternate payee under a QDRO) in the Plan, you have the right to direct the investment of all of your Plan account assets.

Default investment. You may invest your account(s) specified above (your "directed accounts") in any of the investment choices offered in the Plan. If you do *not* make an election as to how the Plan should invest any of your future directed accounts (e.g. rollover contribution or employer contribution) by returning the election form to the Plan Administrator, by electronically making your election via logging on to the participant website at www.retiresmart.com or by calling 1-800-743-5274, the Plan Trustee will invest your future directed accounts in the "default" investment that the Plan officials have selected. The default investment is *MM Select T. Rowe Price Retirement Series*.

MM Select T. Rowe Price Retirement 2010 MM Select T. Rowe Price Retirement 2020 MM Select T. Rowe Price Retirement 2030 MM Select T. Rowe Price Retirement 2040 MM Select T. Rowe Price Retirement 2050 MM Select T. Rowe Price Retirement 2060

Generally target retirement date (lifecycle) investment options are designed to be held beyond the presumed retirement date to offer a continuing investment option for the investor in retirement. The year in the investment option name refers to the approximate year in which an investor in the option would plan to retire and likely would stop making new contributions to the investment option. However, investors may choose a date other than their presumed retirement date to be more conservative or aggressive depending on their own risk tolerance.

Target retirement date (lifecycle) investment options are designed for participants who plan to withdraw the value of their accounts gradually after retirement. Each of these options follows its own asset allocation path ("glide path") to progressively reduce its equity exposure and become more conservative over time. Options may not reach their most conservative allocation until after their target date. Others may reach their most conservative allocation in their target date year. Investors should consider their own personal risk tolerance, circumstances and financial situation. These options should not be selected solely on a single factor such as age or retirement date. Please consult the prospectus (if applicable) pertaining to the options to determine if their glide path is consistent with your long-term financial plan. Target retirement date investment options' stated asset allocation may be subject to change. Investments in these options are not guaranteed and you may experience losses, including losses near, at, or after the target date. Additionally, there is no guarantee that the options will provide adequate income at and through retirement.

Description of default investment. The description of the default investment options including investment strategy, risk and return characteristics, and fees and expenses are shown on the attached Investment Profiles.

Right to alternative investment. Even if the Plan Trustee invests some or all of your directed accounts in the default investment, you have the continuing right to direct the investment of your directed accounts in one or more of the other investment choices available to you under the Plan. You may change your investments daily. You are entitled to transfer amounts defaulted into the default investment to any of the alternative investment choices without restriction or without incurring a financial penalty.

062908-0001-0001

To learn more about the available investments under the Plan, you may contact your Plan Administrator or log onto the participant website at www.retiresmart.com or call 1-800-743-5274.

Additional information. Please refer to the Summary Plan Description and any Summary of Material Modifications for additional information regarding Plan contributions, withdrawal restrictions, and other Plan features. You also may contact the Plan Administrator for more information. The following is the name, address and phone number of the Plan Administrator.

Plumbers & Steamfitters Local 21 1024 McKinley Street Peekskill, NY 10566 (914) 737-7220

Important Disclosures

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 visit

https://retire.massmutual.com. 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 a trust company.

Pre-inception Returns

For newer share classes, Morningstar may provide adjusted historical returns based on the oldest surviving share class of a fund with at least three years of performance history. This enables companies to showcase the complete history of an investment. Morningstar calculates these returns by adjusting the initial share class performance for any difference in fee structure. However, if using the expenses of the newer share class rather than the expenses of the older share class would result in better performance, then preinception performance represents that of the older share class without any expense adjustment. The fees and expenses are referenced in the report's Operations section. 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

These figures reflect performance without adjusting for sales charges or the effects of taxation. They are adjusted, however, to reflect all actual ongoing fund expenses and assume reinvestment of dividends and capital gains. Returns are compared to an appropriate benchmark peer group to help investors evaluate performance. 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. The Index may not be the same as the comparative index noted in the investment's prospectus (if applicable).

Gross Expense Ratio/Net Expense Ratio

Expense ratios reflect the percentage of the investment's assets paid for operating expenses and management fees. In contrast to net expense ratios, gross expense ratios do not reflect any fee waivers in effect during the time period, which are typically disclosed alongside the expense ratios themselves. Net expense ratios reflect the fees actually borne by investors during the period they are in effect. Investment expense information (including waiver information) is pulled from an investment's most recent prospectus, if applicable. If an additional separate investment account fee applies, it is added to the gross and net expense ratio listed in the prospectus or other source of the expense information and factored into the performance of the separate investment account.

Unitized Plan Fund

If this is a unitized plan fund, it will invest in shares of the referenced underlying investment. Depending on the level of administrative services revenue ("ASR")generated from the underlying investment and MassMutual's target ASR for the plan, on a periodic basis MassMutual will make adjustments to the unitized plan fund's expense to cause each unitized plan fund to produce ASR equal to the target ASR. If the ASR MassMutual receives from the underlying investment is more than MassMutual's target ASR, MassMutual will allocate to the unitized plan fund a share of the revenue MassMutual received from the underlying investment so that the net expense of the unitized plan fund equals MassMutual's

target revenue. If the ASR MassMutual receives from an underlying investment is less than MassMutual's target ASR, MassMutual will redeem shares or units from the underlying investment such that the amount of the revenue received from the underlying investment for administrative services and the redeemed share or units equals MassMutual's target revenue. As a result of this process, the reported performance and expenses of the unitized plan fund is based on but not identical to the performance and expenses reported for the underlying investment.

Maximum Sales Charge/12b-1 Fee/Redemption Fee Maximum Sales Charges and Redemption Fees are waived for MassMutual retirement plan participants. In addition, 12b-1 Fees are a component of the Net and Gross Expense Ratio; they are not in addition to the overall expense ratio.

Morningstar Proprietary Statistics

Some Morningstar proprietary calculations, including the Morningstar Rating, Morningstar Return, and Morningstar Risk may be calculated based on pre-inception returns. Please see the pre-inception returns disclosure (above) for more details. For definitions of these statistics including credit quality, please visit

www.MassMutual.com/FF/mstrdisclosure.pdf.

Morningstar Rating™

This brings load-adjustments, performance (returns) and risk together into one evaluation. To determine a fund's star rating for a given time period (three, five, or 10 years), the fund's risk-adjusted return is plotted on a bell curve: If the fund scores in the top 10% of its category, it receives 5 stars (Highest); if it falls in the next 22.5% it receives 4 stars (Above Average); a place in the middle 35% earns 3 stars (Average); those lower still, in the next 22.5%, receive 2 stars (Below Average); and the bottom 10% get only 1 star (Lowest). The Overall Morningstar Rating is a weighted average of the available three-, five-, and 10-year ratings.

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 cannot guarantee that it will do so. The fund's sponsor has no legal obligation to provide financial support to a money market option; and you should not expect that the sponsor will provide financial support to the fund at any time. You could lose money by investing in a money market option.

Risks of investing in debt securities investments include the risk that a bond issuer will default by failing to repay principal and interest in a timely manner (credit risk) and/or the risk that the value of these securities will decline when interest rates increase (interest rate risk).

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.

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. Investments that track a benchmark index are professionally managed. However, the benchmark index itself is unmanaged and does not incur fees or expenses and cannot be purchased directly.

Investments in value stocks may remain undervalued for extended periods of time, and the market may not recognize the intrinsic value of these securities.

Investments in growth stocks may experience price volatility due to their sensitivity to market fluctuations and dependence on future earnings expectations. 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.

A significant percentage of the underlying investments in aggressive asset allocation portfolio investments have a higher than average risk exposure. Investors should consider their risk tolerance carefully before choosing such a strategy. An investment with multiple underlying investments (which may include MM RetireSMARTSM by JP Morgan and any other offered proprietary or non-proprietary asset-allocation, lifestyle (risk based), lifecycle (target date) or custom blended investments) may be subject to the expenses of those underlying investments in addition to those of the investment 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.

Participants with a large ownership interest in a company or employer stock investment may have the potential to manipulate the value of units of this investment option through their trading practices. As a result, special transfer restrictions may apply. This type of investment option presents a higher degree of risk than diversified investment options under the plan because it invests in the securities of a single company.

Investments that invest more of their assets in a single issuer or industry sector (such as company stock or sector investments) involve additional risks, including unit price fluctuations, because of the increased concentration of investments.

A participant will be prohibited from transferring into most mutual funds and similar investments if they have transferred into and out of the same investment within the previous 60 days. Certain stable value, guaranteed interest, fixed income and other investments are not subject to this rule. This rule does not prohibit participants from transferring out of any investment at any time.

Target Date (lifecycle)

Generally these investment options are designed to be held beyond the presumed retirement date to offer a continuing investment option for the investor in retirement. The year in the investment option name refers to the approximate year an investor in the option would plan to retire and likely would stop making new contributions to the investment option. However, investors may choose a date other than their presumed retirement date to be more conservative or aggressive depending on their own risk tolerance. They are designed for participants who plan to withdraw the value of their accounts gradually after retirement. Each of these options follows its own asset allocation path ("glide path") to progressively reduce its equity exposure and become more conservative over time. Options may not reach their most conservative allocation until after their target date. Others may reach their most conservative allocation in their target date year. Investors should consider their own personal risk tolerance, circumstances and financial situation. These options should not be selected solely on a single factor such as age or retirement date. Please consult the prospectus (if applicable) pertaining to the options to determine if their glide path is consistent with your long-term financial plan. Target retirement date investment options' stated asset allocation may be subject to change Investments in these options are not guaranteed and you may experience losses, including losses near, at, or after the target date. Additionally, there is no guarantee that the options will provide adequate income at and through retirement.

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 from your plan sponsor or visiting www.retiresmart.com. Read it carefully before investing.

MassMutual Select TRP Retirement 2010 I MMXBX

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Years Until Retirement

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Investment Objective & Strategy

From investment's prospectus

The investment seeks the highest total return over time consistent with an emphasis on both capital growth and income.

The fund is a "fund of funds" and pursues its objective by investing in a diversified portfolio of other stock and bond series of both the MassMutual Select Funds and T. Rowe Price Funds that represent various asset classes and sectors ("underlying funds"). Its allocation between stock and bond funds will change over time in relation to its target retirement date. The fund is primarily designed for an investor who retired at or about the target date and who plans to withdraw the value of the account in the fund gradually after retirement.

Fees and Expenses as of 02-01-19	
Prospectus Net Expense Ratio	0.38%
Total Annual Operating Expense	0.67%
Maximum Sales Charge	_
12b-1 Fee	_
Redemption Fee/Term	_

Waiver Data	Туре	Exp. Date	%
ExpenseRatio	Contractual	01-31-20	0.29

Operations and Management

Fund Inception Date 02-16-18

Portfolio Manager(s) Jerome A. Clark, CFA

Wyatt A. Lee, CFA

Name of Issuer MassMutual
Telephone 888-309-3539
Web Site www.massmutual.com

Benchmark Description: Morningstar Lifetime Mod 2010 TR USD

The index measures the performance of a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a US investor who has a target maturity date of 2010. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

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. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Management adjusts the allocation among asset classes to more-conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

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Performance						
Trailing Returns	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception
Investment Return %	10.70	6.79	_	_	_	4.57
Benchmark Return %	9.94	6.58	_	_	_	5.08
Category Average %	9.12	5.96	_	_	_	4.14
Morningstar Rating™	_	_	_	_	_	_
# of Funds in Category	_	_	_	_	_	_
Quarter End Returns as of 06-30-19	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception
Fund Return %	10.70	6.79	_		_	4.57
Standardized Return %	10.70	6.79	_	_	_	4.57

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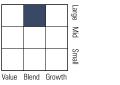
Performance Disclosure: The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end please visit the website listed under Operations and Management on this page.

Portfolio Analysis as of 03-31-19



-100	-50	U	50	100	iotai		100.0
Top 1	0 Holdii	ngs as o	f 03-31-	19			% Assets
Mass	Mutua	al Selec	t TRP	Bond A	Asset I		25.09
MM:	S&P 50	00® In	dex I				20.90
Mass	Mutua	al Selec	t TRP	Ltd Du	r Infl Foc		15.90
Mass	Mutua	al Selec	t TRP	Intl Equ	uity I		12.91
Mass	Mutua	al Selec	et TRP	Sm&M	id Cap Bl	lend I	6.86
Mass	Mutua	al Selec	t TRP	Emrg N	∕Irkts Boı	nd I	5.34
T. Ro	we Pri	ce Dyna	amic G	ilobal B	ond I		4.04
Mass	Mutua	al Selec	t TRP	U.S. Tr	eas L/T I		3.81
T. Ro	T. Rowe Price Instl High Yield					2.24	
T. Ro	we Pri	ce Instl	Floati	ng Rate	9		1.09
		er of H					13
Annu	al Turr	over R	atio %				14.00
Total	Fund A	Assets	(\$mil)				131.17

Morningstar Style Box™ as of 03-31-19(EQ) ; 06-30-19(F-I)



Not	
Available	

Morningstar Sectors as of 03-31-19	% Fund	S&P 500 9
∿ Cyclical	37.51	33.24
Basic Materials	4.89	2.46
Consumer Cyclical	11.42	12.2
Financial Services	17.88	15.89
♠ Real Estate	3.32	2.68
w Sensitive	37.40	41.6
Communication Services	3.26	3.48
Tenergy	5.19	5.05
ndustrials	10.40	10.10
Technology	18.55	22.98
→ Defensive	25.10	25.14
Consumer Defensive	8.24	7.73
Healthcare	13.77	14.10
🚺 Utilities	3.09	3.3

Principal Risks as of 03-31-19



MassMutual Select TRP Retirement 2020 I MMTWX

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Years Until Retirement

Benchmark Overall Morningstar Rating™ Morningstar Return Morningstar Risk Morningstar Lifetime Mod 2020 TR USD

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Investment Objective & Strategy

From investment's prospectus

The investment seeks the highest total return over time consistent with an emphasis on both capital growth and income

The fund is a "fund of funds" and pursues its objective by investing in a diversified portfolio of other stock and bond series of both the MassMutual Select Funds and T. Rowe Price Funds that represent various asset classes and sectors. Its allocation between stock and bond funds will change over time in relation to its target retirement date. The fund is primarily designed for an investor who anticipates retiring at or about the target date and who plans to withdraw the value of the account in the fund gradually after retirement.

Fees and Expenses as of 02-01-19	
Prospectus Net Expense Ratio	0.45%
Total Annual Operating Expense	0.52%
Maximum Sales Charge	_
12b-1 Fee	_
Redemption Fee/Term	_

Waiver Data	Туре	Exp. Date	%
ExpenseRatio	Contractual	01-31-20	0.07

Operations and Management

Fund Inception Date 02-16-18

Portfolio Manager(s) Jerome A. Clark, CFA

Wyatt A. Lee, CFA

Name of Issuer MassMutual Telephone 888-309-3539

Web Site www.massmutual.com

Benchmark Description: Morningstar Lifetime Mod 2020 TR USD

The index measures the performance of a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a US investor who has a target maturity date of 2020. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Category Description: Target-Date 2020

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 2016-2020) for retirement. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Management adjusts the allocation among asset classes to more-conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

Allocation of Assets % Allocation Bonds 80 Stocks 60 Cash 40 Other 20

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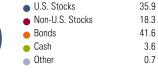
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Performance						
Trailing Returns	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception
Investment Return %	12.80	6.63	_	_	_	4.35
Benchmark Return %	11.71	7.13	_	_		5.32
Category Average %	10.67	5.96	_	_	_	4.03
Morningstar Rating™	_	_	_	_	_	_
# of Funds in Category	_	_	_	_	_	_
Quarter End Returns as of 06-30-19	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception
Fund Return %	12.80	6.63		_	_	4.35
Standardized Return %	12.80	6.63	_	_	_	4.35

Performance Disclosure: The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end please visit the website listed under Operations and Management on this page.

Composition as of 03-31-19 % Assets U.S. Stocks Non-U.S. Stocks Bonds

Portfolio Analysis as of 03-31-19







Top 10 Holdings as of 03-31-19	% Assets
MassMutual Select TRP Bond Asset I	19.80
MassMutual Select TRP Intl Equity I	17.98
MM S&P 500® Index I	17.83
MassMutual Select TRP Large Cap Blend I	11.31
MassMutual Select TRP Sm&Mid Cap Blend I	9.78
MassMutual Select TRP Ltd Dur Infl Foc I	8.02
MassMutual Select TRP Emrg Mrkts Bond I	4.05
MassMutual Select TRP U.S. Treas L/T I	3.64
T. Rowe Price Dynamic Global Bond I	3.16
T. Rowe Price Instl High Yield	1.62
Total Number of Holdings	14
Annual Turnover Ratio %	11.00
Total Fund Assets (\$mil)	677.20

Mor	ningstar Sectors as of 03-31-19	% Fund	S&P 500 %
Դ	Cyclical	37.32	33.24
A	Basic Materials	4.65	2.46
A	Consumer Cyclical	11.85	12.21
	Financial Services	17.72	15.89
俞	Real Estate	3.10	2.68
W	Sensitive	36.97	41.61
	Communication Services	2.97	3.48
•	Energy	4.85	5.05
Ф	Industrials	10.35	10.10
	Technology	18.80	22.98
-	Defensive	25.72	25.14
Ħ	Consumer Defensive	7.75	7.73
+	Healthcare	14.38	14.10
	Utilities	3.59	3.31

Principal Risks as of 03-31-19



MassMutual Select TRP Retirement 2030 I MMTRX

Benchmark Overall Morningstar Rating" Morningstar Return Morningstar Risk Morningstar Lifetime Mod 2030 TR USD

Years Until Retirement

Investment Objective & Strategy

From investment's prospectus

The investment seeks the highest total return over time consistent with an emphasis on both capital growth and income

The fund is a "fund of funds" and pursues its objective by investing in a diversified portfolio of other stock and bond series of both the MassMutual Select Funds and T. Rowe Price Funds that represent various asset classes and sectors. Its allocation between stock and bond funds will change over time in relation to its target retirement date. The fund is primarily designed for an investor who anticipates retiring at or about the target date and who plans to withdraw the value of the account in the fund gradually after retirement.

Fees and Expenses as of 02-01-19	
Prospectus Net Expense Ratio	0.51%
Total Annual Operating Expense	0.57%
Maximum Sales Charge	_
12b-1 Fee	_
Redemption Fee/Term	_

Waiver Data	Туре	Exp. Date	%
ExpenseRatio	Contractual	01-31-20	0.06

Operations and Management

Fund Inception Date 02-16-18

Portfolio Manager(s) Jerome A. Clark, CFA

Wyatt A. Lee, CFA

Name of Issuer MassMutual Telephone 888-309-3539

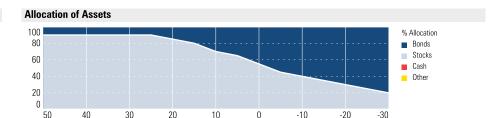
Web Site www.massmutual.com

Benchmark Description: Morningstar Lifetime Mod 2030 TR USD

The index measures the performance of a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a US investor who has a target maturity date of 2030. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Category Description: Target-Date 2030

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 2026-2030) for retirement. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Management adjusts the allocation among asset classes to more-conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.



Performance						
Trailing Returns	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception
Investment Return %	14.89	6.45	_	_	_	4.07
Benchmark Return %	13.73	6.95	_	_	_	4.93
Category Average %	12.98	5.86	_	_	_	3.72
Morningstar Rating™	_	_	_	_	_	_
# of Funds in Category	_	_	_	_	_	_
Quarter End Returns as of 06-30-19	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception
Fund Return %	14.89	6.45	_	_	_	4.07
Standardized Return %	14.89	6.45	_	_	_	4.07

Performance Disclosure: The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end please visit the website listed under Operations and Management on this page.

Portfolio Analysis as of 03-31-19 Composition as of 03-31-19 % Assets U.S. Stocks 46.6 Non-U.S. Stocks 24.4 Bonds 25.3 Cash 3.3 Other 0.5





Top 10 Holdings as of 03-31-19	% Assets
MassMutual Select TRP Large Cap Blend I	25.02
MassMutual Select TRP Intl Equity I	23.05
MassMutual Select TRP Bond Asset I	13.80
MassMutual Select TRP Sm&Mid Cap Blend I	12.68
MM S&P 500® Index I	12.42
MassMutual Select TRP U.S. Treas L/T I	3.11
MassMutual Select TRP Emrg Mrkts Bond I	2.50
T. Rowe Price Dynamic Global Bond I	2.20
MassMutual Select TRP Ltd Dur Infl Foc I	1.69
MassMutual Select TRP Real Asset I	1.68
Total Number of Holdings	14
Annual Turnover Ratio %	7.00
Total Fund Assets (\$mil)	1.109.71

Mor	ningstar Sectors as of 03-31-19	% Fund	S&P 500 %
ŀ	Cyclical	37.14	33.24
A	Basic Materials	4.45	2.46
A	Consumer Cyclical	12.16	12.21
P	Financial Services	17.61	15.89
命	Real Estate	2.92	2.68
W	Sensitive	36.68	41.61
	Communication Services	2.76	3.48
•	Energy	4.60	5.05
Ф	Industrials	10.32	10.10
	Technology	19.00	22.98
→	Defensive	26.18	25.14
Ħ	Consumer Defensive	7.40	7.73
+	Healthcare	14.83	14.10
	Utilities	3.95	3.31

Principal Risks as of 03-31-19



MassMutual Select TRP Retirement 2040 I MMFOX

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Years Until Retirement

30

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Investment Objective & Strategy

From investment's prospectus

The investment seeks the highest total return over time consistent with an emphasis on both capital growth and income.

The fund is a "fund of funds" and pursues its objective by investing in a diversified portfolio of other stock and bond series of both the MassMutual Select Funds and T. Rowe Price Funds that represent various asset classes and sectors. Its allocation between stock and bond funds will change over time in relation to its target retirement date. The fund is primarily designed for an investor who anticipates retiring at or about the target date and who plans to withdraw the value of the account in the fund gradually after retirement.

Fees and Expenses as of 02-01-19	
Prospectus Net Expense Ratio	0.56%
Total Annual Operating Expense	0.62%
Maximum Sales Charge	_
12b-1 Fee	_
Redemption Fee/Term	_

Waiver Data	Туре	Exp. Date	%
ExpenseRatio	Contractual	01-31-20	0.06

Operations and Management

Fund Inception Date 02-16-18

Portfolio Manager(s) Jerome A. Clark, CFA

Wyatt A. Lee, CFA

Name of Issuer MassMutual Telephone 888-309-3539

Web Site www.massmutual.com

Benchmark Description: Morningstar Lifetime Mod 2040 TR USD

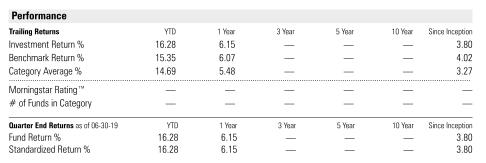
The index measures the performance of a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a US investor who has a target maturity date of 2040. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Category Description: Target-Date 2040

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 2036-2040) for retirement. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Management adjusts the allocation among asset classes to more-conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.



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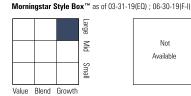
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Performance Disclosure: The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end please visit the website listed under Operations and Management on this page.

Portfolio Analysis as of 03-31-19 Composition as of 03-31-19 U.S. Stocks Non-U.S. Stocks Bonds Cash Other Other



Top 10 Holdings as of 03-31-19	% Assets
MassMutual Select TRP Large Cap Blend I	35.50
MassMutual Select TRP Intl Equity I	26.66
MassMutual Select TRP Sm&Mid Cap Blend I	14.66
MassMutual Select TRP Bond Asset I	7.82
MM S&P 500® Index I	7.78
MassMutual Select TRP U.S. Treas L/T I	2.42
MassMutual Select TRP Real Asset I	1.95
T. Rowe Price Dynamic Global Bond I	1.24
MassMutual Select TRP Emrg Mrkts Bond I	1.16
T. Rowe Price Instl High Yield	0.33
Total Number of Holdings	13
Annual Turnover Ratio %	6.00
Total Fund Assets (\$mil)	822.79

Morningstar Sectors as of 03-31-19	% Fund	S&P 500 %
∿ Cyclical	37.05	33.24
Basic Materials	4.34	2.46
Consumer Cyclical	12.33	12.2
Financial Services	17.56	15.89
♠ Real Estate	2.82	2.68
w Sensitive	36.52	41.6
Communication Services	2.66	3.48
Tenergy	4.46	5.09
industrials	10.29	10.10
Technology	19.11	22.98
→ Defensive	26.42	25.14
Consumer Defensive	7.22	7.73
Healthcare	15.06	14.10
Utilities Utilities	4.14	3.3

Principal Risks as of 03-31-19



MassMutual Select TRP Retirement 2050 I MMDDX

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Years Until Retirement

Benchmark Overall Morningstar Rating" Morningstar Return Morningstar Risk Morningstar Lifetime Mod 2050 TR USD

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Investment Objective & Strategy

From investment's prospectus

The investment seeks the highest total return over time consistent with an emphasis on both capital growth and income

The fund is a "fund of funds" and pursues its objective by investing in a diversified portfolio of other stock and bond series of both the MassMutual Select Funds and T. Rowe Price Funds that represent various asset classes and sectors. Its allocation between stock and bond funds will change over time in relation to its target retirement date. The fund is primarily designed for an investor who anticipates retiring at or about the target date and who plans to withdraw the value of the account in the fund gradually after retirement.

0.56%
0.66%
_

Waiver Data	Туре	Exp. Date	%
ExpenseRatio	Contractual	01-31-20	0.10

Operations and Management

Fund Inception Date 02-16-18

Portfolio Manager(s) Jerome A. Clark, CFA

Wyatt A. Lee, CFA

Name of Issuer MassMutual Telephone 888-309-3539

Web Site www.massmutual.com

Benchmark Description: Morningstar Lifetime Mod 2050 TR USD

The index measures the performance of a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a US investor who has a target maturity date of 2050. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Category Description: Target-Date 2050

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 2046-2050) for retirement. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Management adjusts the allocation among asset classes to more-conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.



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Performance						
Trailing Returns	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception
Investment Return %	16.72	6.06	_	_	_	3.74
Benchmark Return %	15.69	5.58	_	_	_	3.52
Category Average %	15.44	5.31	_	_	_	3.06
Morningstar Rating™	_	_	_	_	_	_
# of Funds in Category	_	_	_	_	_	_
Quarter End Returns as of 06-30-19	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception
Fund Return %	16.72	6.06	_		_	3.74
Standardized Return %	16.72	6.06	_	_	_	3.74

Performance Disclosure: The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end please visit the website listed under Operations and Management on this page.

Portfolio Analysis as of 03-31-19 Composition as of 03-31-19 % Assets U.S. Stocks 56.3 Non-U.S. Stocks 30.0 Bonds 10.2 Cash 3.1 Other 0.4





Top 10 Holdings as of 03-31-19	% Assets
MassMutual Select TRP Large Cap Blend I	38.24
MassMutual Select TRP Intl Equity I	27.66
MassMutual Select TRP Sm&Mid Cap Blend I	15.30
MM S&P 500® Index I	6.68
MassMutual Select TRP Bond Asset I	5.81
MassMutual Select TRP Real Asset I	2.02
MassMutual Select TRP U.S. Treas L/T I	2.01
T. Rowe Price Dynamic Global Bond I	0.92
MassMutual Select TRP Emrg Mrkts Bond I	0.77
T. Rowe Price Instl Floating Rate	0.18
Total Number of Holdings	13
Annual Turnover Ratio %	5.00
Total Fund Assets (\$mil)	480.00

Mor	ningstar Sectors as of 03-31-19	% Fund	S&P 500 %
ŀ	Cyclical	37.04	33.24
A	Basic Materials	4.32	2.46
A	Consumer Cyclical	12.37	12.21
P	Financial Services	17.55	15.89
命	Real Estate	2.80	2.68
W	Sensitive	36.48	41.61
	Communication Services	2.63	3.48
•	Energy	4.43	5.05
Ф	Industrials	10.29	10.10
	Technology	19.13	22.98
-	Defensive	26.47	25.14
Ħ	Consumer Defensive	7.18	7.73
+	Healthcare	15.11	14.10
9	Utilities	4.18	3.31

Principal Risks as of 03-31-19



MassMutual Select TRP Retirement 2060 I MMSKX

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Years Until Retirement

Benchmark Overall Morningstar Rating™ Morningstar Return Morningstar Risk Morningstar Lifetime Mod 2060 TR USD

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Investment Objective & Strategy

From investment's prospectus

The investment seeks the highest total return over time consistent with an emphasis on both capital growth and

The fund is a "fund of funds" and pursues its objective by investing in a diversified portfolio of other stock and bond series of both the MassMutual Select Funds and T. Rowe Price Funds that represent various asset classes and sectors. Its allocation between stock and bond funds will change over time in relation to its target retirement date. The fund is primarily designed for an investor who anticipates retiring at or about the target date and who plans to withdraw the value of the account in the fund gradually after retirement.

Fees and Expenses as of 02-01-19	
Prospectus Net Expense Ratio	0.56%
Total Annual Operating Expense	2.92%
Maximum Sales Charge	_
12b-1 Fee	_
Redemption Fee/Term	_

Waiver Data	Туре	Exp. Date	%
ExpenseRatio	Contractual	01-31-20	2.36

Operations and Management

Fund Inception Date 02-16-18

Portfolio Manager(s) Jerome A. Clark, CFA

Wyatt A. Lee, CFA

Name of Issuer MassMutual Telephone 888-309-3539

Web Site www.massmutual.com

Benchmark Description: Morningstar Lifetime Mod 2060 TR USD

The index measures the performance of a portfolio of global equities, bonds and traditional inflation hedges such as commodities and TIPS. This portfolio is held in proportions appropriate for a US investor who has a target maturity date of 2060. The Moderate risk profile is for investors who are comfortable with average exposure to equity market volatility.

Category Description: Target-Date 2060+

Target-date portfolios provide a diversified exposure to stocks, bonds, and cash for those investors who have a specific date in mind (in this case, the years 2056-2060 and beyond) for retirement. These portfolios aim to provide investors with an optimal level of return and risk, based solely on the target date. Management adjusts the allocation among asset classes to more-conservative mixes as the target date approaches, following a preset glide path. A target-date portfolio is part of a series of funds offering multiple retirement dates to investors.

Allocation of Assets % Allocation 80 Bonds Stocks 60 Cash 40 Other 20 0

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Performance						
Trailing Returns	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception
Investment Return %	16.75	6.05	_	_	_	3.73
Benchmark Return %	15.61	5.35	_	_	_	3.26
Category Average %	15.81	5.44	_	_	_	3.14
Morningstar Rating™		—	—	—	·····	·····
# of Funds in Category	_	_	_	_	_	_
Quarter End Returns as of 06-30-19	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception
Fund Return %	16.75	6.05	_	_	_	3.73
Standardized Return %	16.75	6.05	_	_	_	3.73

Performance Disclosure: The performance data quoted represents past performance and does not guarantee future results. The investment return and principal value of an investment will fluctuate; thus an investor's shares, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than return data quoted herein. For performance data current to the most recent month-end please visit the website listed under Operations and Management on this page.

Portfolio Analysis as of 03-31-19 Composition as of 03-31-19 % Assets U.S. Stocks 56.3 Non-U.S. Stocks 30.1 Bonds 10.2 Cash 3.1 Other 0.4





Top 10 Holdings as of 03-31-19	% Assets
MassMutual Select TRP Large Cap Blend I	38.19
MassMutual Select TRP Intl Equity I	27.70
MassMutual Select TRP Sm&Mid Cap Blend I	15.31
MM S&P 500® Index I	6.69
MassMutual Select TRP Bond Asset I	5.79
MassMutual Select TRP U.S. Treas L/T I	2.07
MassMutual Select TRP Real Asset I	2.01
T. Rowe Price Dynamic Global Bond I	0.94
MassMutual Select TRP Emrg Mrkts Bond I	0.73
T. Rowe Price Instl High Yield	0.18
Total Number of Holdings	13
Annual Turnover Ratio %	36.00
Total Fund Assets (\$mil)	27.21

Morningstar Sectors as of 03-31-19 % Fund S&P 500				
ŀ	Cyclical	37.04	33.24	
A	Basic Materials	4.32	2.46	
A	Consumer Cyclical	12.36	12.21	
P	Financial Services	17.56	15.89	
命	Real Estate	2.80	2.68	
W	Sensitive	36.48	41.61	
	Communication Services	2.63	3.48	
•	Energy	4.43	5.05	
Ф	Industrials	10.30	10.10	
	Technology	19.12	22.98	
→	Defensive	26.47	25.14	
Ħ	Consumer Defensive	7.18	7.73	
+	Healthcare	15.11	14.10	
	Utilities	4.18	3.31	

Principal Risks as of 03-31-19

