

PERFORMANCE

Funded by a Group Variable Annuity

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS. Total return includes capital appreciation (depreciation), realized gains (losses), plus dividend or interest income. The investment return and principal value of an investment will fluctuate so that when units/shares are redeemed they may be worth more, or less, than the original cost. Results shown do not take into account personal income taxes or capital gains taxes. Current performance may be lower or higher than the performance data quoted. For current performance information to the most recent month-end, refer to our website at <http://retirement.massmutual.com/rsgovnp/>.

* Returns are net of total fund operating expenses and a mortality, expense risk and administrative charge (ME&A). The maximum ME&A charge for your plan is 1.25%; however, your plan's exact ME&A charge may be lower. Refer to a current fee schedule for charges applicable to your plan.

Sales-Adjusted returns are calculated to the inception date of the underlying fund. Standardized returns are calculated to the date the underlying fund was added to the separate account in which the underlying assets are held. Both the Sales-Adjusted returns and Standardized returns assume a \$1,000 investment and deductions for total fund operating charges, a mortality, expense risk and administrative charge, an assumed \$30 annual maintenance fee, and maximum contingent deferred sales charges of 5%, 4%, 3%, 2%, 1%, 0% in years 1-5, respectively. The maximum mortality, expense risk and administration charge (ME&A) allowed in your plan's program is 1.25%. Your actual ME&A may be lower. Refer to a current fee schedule for charges applicable to your plan.

Investment choices are available through group variable annuity contracts (HL-15420 with riders HL-16957, HL-17063, and HL-17064; HL-20320, HL-20320(CA)) issued by Talcott Resolution Life Insurance Company (formerly named Hartford Life Insurance Company) (Windsor, CT). Effective January 1, 2013, the contracts are underwritten by MML Distributors, LLC. Contracts are administered by Massachusetts Mutual Life Insurance Company - a service that it has sub-contracted to Empower Retirement.

Collective Investment Trusts (CIT), Unregistered Separate Investment Accounts (SIA), Company Stock Accounts (STK), and Unitized Investments (UI), unlike Mutual Funds (MF) and Registered Separate Investment Accounts (RSIA), are not registered with the Securities and Exchange Commission (SEC). None of these are insured by the Federal Deposit Insurance Commission (FDIC), and are not guaranteed by any other government agency, any bank, insurance company or credit union. These investment types may lose value and are subject to investment risk, including the possible loss of the principal amount invested. Fixed Rate Stable Value (FSV) investments provide a guarantee of principal backed by a book value guarantor and by the claims paying ability of the issuing insurance company.

Registered products distributed by MML Distributors, LLC, Enfield, CT Member FINRA and SIPC (www.finra.org and www.sipc.org)

This material must be preceded or accompanied by the current prospectus where applicable. Investors should consider an investment's objectives, risks, charges and expenses carefully before investing. Read this information carefully before you invest or send money. Questions should be directed to your local Financial Professional, our Customer Service Center at 1-800-528-9009, or our website at <http://retirement.massmutual.com/rsgovnp/>.

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- ¹ The fund's investments are concentrated in a specific industry or sector, and are subject to greater risk than traditional diversified equity funds.
- ² Investments in foreign securities may involve different and additional risks associated with foreign currencies, investment disclosure, accounting, securities regulation, commissions, taxes, political or social instability, war or expropriation.
- ³ Small Cap stocks generally have higher risk and return characteristics than large-company stocks.
- ⁴ Mid Cap stocks generally have higher risk and return characteristics than large-company stocks.
- ⁵ 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 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 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.**
- ⁶ Securities rated below investment grade "BBB" are commonly referred to as "high yield, high risk" securities, or "junk bonds."

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	Monthly Sales Adjusted Returns as of March 31, 2021					Quarterly Standardized Returns as of March 31, 2021				
	Average Annual Total Return				Underlying Fund Inception Date	Average Annual Total Return				Inception in Separate Account
	1 Yr.	5 Yr.	10 Yr.	Since Incept		1 Yr.	5 Yr.	10 Yr.	Since Incept	
SPECIALTY										
Invesco Real Est ¹	18.98%	2.28%	5.80%	N/A	05/01/1995	18.98%	2.28%	5.80%	5.09%	07/07/2005
INTERNATIONAL/GLOBAL										
AF Capital World G&I ²	40.47%	9.42%	6.66%	N/A	03/26/1993	40.47%	9.42%	6.66%	6.33%	07/07/2005
BNY Mel Intl Stk Ind ²	32.96%	5.35%	1.98%	N/A	06/30/1997	32.96%	5.35%	1.98%	-1.23%	03/01/2007
Invsc Dev Mkts ²	42.63%	9.85%	1.99%	N/A	11/18/1996	42.63%	9.85%	1.99%	8.40%	07/07/2005
MFS Intl Int Value ²	26.62%	8.60%	8.09%	N/A	10/24/1995	26.62%	8.60%	8.09%	10.44%	05/01/2009
SMALL CAP										
AmCent SC Value ³	93.24%	13.02%	8.91%	N/A	07/31/1998	93.24%	13.02%	8.91%	7.91%	07/07/2005
Sel Wel/Inv SC Gr Eq	79.23%	18.76%	11.18%	N/A	05/03/1999	79.23%	18.76%	N/A	19.63%	05/01/2016
Vanguard SC Index ³	74.79%	12.69%	9.74%	N/A	10/03/1960	74.79%	12.69%	N/A	8.83%	04/29/2008
MID CAP										
Artisan MidCap Value ⁴	73.37%	7.84%	6.54%	N/A	03/28/2001	73.37%	7.84%	6.54%	6.39%	07/07/2005
JPMorgan Mid Cap Grw	65.24%	18.68%	12.84%	N/A	03/02/1989	65.24%	18.68%	12.84%	N/A	
Vanguard MC Index ⁴	58.74%	11.65%	9.93%	N/A	05/21/1998	58.74%	11.65%	N/A	8.85%	08/17/2006
Victory RS Value	49.49%	7.70%	6.20%	N/A	06/30/1993	49.49%	7.70%	6.20%	3.71%	
LARGE CAP										
Htfd Div & Grwth HLS	43.56%	11.41%	9.87%	N/A	03/08/1994	43.56%	11.41%	9.87%	7.06%	05/01/2002
MFS Value	37.09%	8.48%	8.73%	N/A	01/02/1996	37.09%	8.48%	8.73%	6.13%	05/01/2002
NB Sustainable Eqty	51.70%	11.41%	9.11%	N/A	03/16/1994	51.70%	11.41%	9.11%	7.21%	07/07/2005
Sel TRw Pr/LS BC Gr	43.74%	17.98%	14.87%	N/A	06/01/2001	43.74%	17.98%	14.87%	N/A	
Vanguard 500 Index	45.28%	13.40%	11.67%	N/A	08/31/1976	45.28%	13.40%	N/A	10.57%	04/29/2008

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	Monthly Sales Adjusted Returns as of March 31, 2021					Quarterly Standardized Returns as of March 31, 2021				
	Average Annual Total Return				Underlying Fund Inception Date	Average Annual Total Return				Inception in Separate Account
	1 Yr.	5 Yr.	10 Yr.	Since Incept		1 Yr.	5 Yr.	10 Yr.	Since Incept	
ASSET ALLOCATION/BALANCED										
AF Amer Balanced	20.54%	7.41%	7.42%	N/A	07/26/1975	20.54%	7.41%	7.42%	N/A	
BR Life Dynamic 2030 ⁵	29.15%	7.76%	5.22%	N/A	02/25/1994	29.15%	7.76%	5.22%	4.02%	07/07/2005
BR Life Dynamic 2040 ⁵	40.90%	9.51%	6.24%	N/A	02/25/1994	40.90%	9.51%	6.24%	4.49%	07/07/2005
BR Life Dynamic 2050 ⁵	45.18%	10.13%	6.74%	N/A	06/30/2008	45.18%	10.13%	6.74%	10.25%	05/01/2009
BR Life Dynamic Reti ⁵	17.17%	5.07%	3.41%	N/A	02/25/1994	17.17%	5.07%	3.41%	3.17%	07/07/2005
BOND										
EatonVance IncFndBos ⁶	11.32%	3.05%	2.86%	N/A	06/15/1972	11.32%	3.05%	2.86%	3.85%	07/01/2006
Htfd TotRet Bond HLS	-1.55%	1.17%	1.29%	N/A	08/31/1977	-1.55%	1.17%	1.29%	2.28%	05/01/2002
PIMCO Real Return	1.13%	0.75%	0.17%	N/A	01/29/1997	1.13%	0.75%	0.17%	1.39%	07/07/2005
PIMCO Total Return	-4.96%	0.36%	0.54%	N/A	05/11/1987	-4.96%	0.36%	0.54%	2.82%	07/01/2006
Vanguard Tot Bnd Mkt	-7.28%	-0.19%	0.46%	N/A	12/11/1987	-7.28%	-0.19%	N/A	0.21%	04/25/2014

Period Ending March 31, 2021	Total Return			Avg Annual Total Return			
	Month	3 Mo.	YTD	1 Yr.	3 Yr.	5 Yr.	10 Yr.
BENCHMARK INDICES							
S&P 500 Index ¹	4.38%	6.17%	6.17%	56.35%	16.78%	16.29%	13.91%
BarCap Gov/Corp Indx ²	-1.54%	-4.28%	-4.28%	0.86%	4.99%	3.36%	3.70%
NASDAQ ³	0.41%	2.78%	2.78%	72.04%	23.32%	22.16%	16.89%

Market indices have been provided for comparison purposes only. We believe that the indices are representative of the investment objectives of the investment options in your plan. These indices are unmanaged and are not available for direct investment.

¹ S&P is an index which measures broad-based changes in stock market conditions based on the average performance of 500 widely held common stocks.

² The Barclay's Capital Government/Corporate Bond Index, an unmanaged list of U.S. Treasury/Agency and investment grade corporate debt securities, is used as a general measure of performance of fixed income securities.

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³ NASDAQ is a computerized system that provides brokers and dealers with price quotations for securities traded over the counter as well as for many NYSE listed securities.

Period Ending March 31, 2021		Total Return			Annual Total Return*				Inception	
INVESTMENT CHOICES	Morningstar Category	Month	3 Mo.	YTD	1 Yr.	3 Yr.	5 Yr.	10 Yr.	Since Incept	Date
SPECIALTY										
Invesco Real Est ¹	Real Estate	5.26%	8.51%	8.51%	28.51%	7.77%	5.46%	8.15%	N/A	5/1/1995
INTERNATIONAL/GLOBAL										
AF Capital World G&I ²	World Large Stock	2.55%	4.38%	4.38%	51.25%	10.50%	12.37%	9.26%	N/A	3/26/1993
BNY Mel Intl Stk Ind ²	Foreign Large Blend	2.43%	3.14%	3.14%	43.32%	5.39%	8.40%	5.05%	N/A	6/30/1997
Invc Dev Mkts ²	Diversified Emerging Mkts	-1.32%	0.82%	0.82%	53.52%	7.99%	12.74%	5.34%	N/A	11/18/1996
MFS Intl Int Value ²	Foreign Large Growth	2.40%	-1.81%	-1.81%	36.45%	10.66%	11.56%	10.46%	N/A	10/24/1995
SMALL CAP										
AmCent SC Value ³	Small Value	5.88%	24.68%	24.68%	107.63%	14.96%	16.00%	11.47%	N/A	7/31/1998
Sel Wel/Inv SC Gr Eq	Small Growth	-2.13%	4.32%	4.32%	92.29%	21.99%	21.54%	13.71%	N/A	5/3/1999
Vanguard SC Index ³	Small Blend	1.61%	10.22%	10.22%	87.72%	14.97%	15.60%	12.15%	N/A	10/3/1960
MID CAP										
Artisan MidCap Value ⁴	Mid-Cap Value	5.74%	15.12%	15.12%	86.28%	9.90%	10.93%	9.07%	N/A	3/28/2001
JPMorgan Mid Cap Grw	Mid-Cap Growth	-2.75%	1.22%	1.22%	77.36%	23.90%	21.55%	15.23%	N/A	3/2/1989
Vanguard MC Index ⁴	Mid-Cap Blend	2.37%	7.18%	7.18%	70.62%	14.65%	14.60%	12.29%	N/A	5/21/1998
Victory RS Value	Mid-Cap Blend	4.75%	11.82%	11.82%	61.02%	8.73%	10.70%	8.81%	N/A	6/30/1993
LARGE CAP										
Htfd Div & Grwth HLS	Large Value	6.18%	10.68%	10.68%	54.65%	14.03%	14.30%	12.18%	N/A	3/8/1994
MFS Value	Large Value	6.52%	8.58%	8.58%	47.76%	10.65%	11.44%	11.03%	N/A	1/2/1996
NB Sustainable Eqty	Large Blend	4.33%	7.38%	7.38%	63.20%	14.63%	14.37%	11.57%	N/A	3/16/1994
Sel TRw Pr/LS BC Gr	Large Growth	1.23%	1.50%	1.50%	54.56%	19.73%	20.69%	16.93%	N/A	6/1/2001
Vanguard 500 Index	Large Blend	4.38%	6.18%	6.18%	56.33%	16.75%	16.26%	13.88%	N/A	8/31/1976

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INVESTMENT CHOICES	Morningstar Category	Total Return			Annual Total Return*					Inception Date
		Month	3 Mo.	YTD	1 Yr.	3 Yr.	5 Yr.	10 Yr.	Since Incept	
ASSET ALLOCATION/BALANCED										
AF Amer Balanced	Allocation--50% to 70% Equity	2.88%	3.74%	3.74%	30.12%	10.49%	10.40%	9.79%	N/A	7/26/1975
BR Life Dynamic 2030 ⁵	Target-Date 2030	1.60%	2.70%	2.70%	39.24%	10.43%	10.76%	7.92%	N/A	2/25/1994
BR Life Dynamic 2040 ⁵	Target-Date 2040	2.20%	4.49%	4.49%	51.70%	11.74%	12.46%	8.91%	N/A	2/25/1994
BR Life Dynamic 2050 ⁵	Target-Date 2050	2.41%	5.33%	5.33%	56.24%	12.28%	13.08%	9.38%	N/A	6/30/2008
BR Life Dynamic Reti ⁵	Target-Date Retirement	0.74%	0.66%	0.66%	26.51%	8.81%	8.17%	6.21%	N/A	2/25/1994
BOND										
EatonVance IncFndBos ⁶	High Yield Bond	0.24%	0.76%	0.76%	20.32%	5.50%	6.12%	5.56%	N/A	6/15/1972
Htfd TotRet Bond HLS	Intermediate Core-Plus Bond	-0.86%	-3.26%	-3.26%	6.60%	5.50%	4.36%	4.16%	N/A	8/31/1977
PIMCO Real Return	Inflation-Protected Bond	-0.19%	-1.40%	-1.40%	9.48%	5.67%	4.03%	3.21%	N/A	1/29/1997
PIMCO Total Return	Intermediate Core-Plus Bond	-1.29%	-3.15%	-3.15%	3.00%	4.64%	3.59%	3.50%	N/A	5/11/1987
Vanguard Tot Bnd Mkt	Intermediate Core Bond	-1.37%	-3.63%	-3.63%	0.54%	4.63%	3.07%	3.39%	N/A	12/11/1987

GENERAL (DECLARED RATE) ACCOUNT

1st Q 21: 4.00%

The Declared Rate set forth above is credited through the close of the calendar year on contributions received during the designated calendar quarter. For contributions received prior to January 1, 2021, the Declared Rate is 4.00%. Rates quoted are effective annual yields.

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