

Actual Historical Performance Since 1980

*Hypothetical policy issued in 1980**

10 Payment Whole Life - MM Block

\$250,000 Policy

Male Age 50, Nonsmoker

Premium **\$14,445.00**

Reserve Basis (CSO and percent)

1958 CSO - 4.00%

Policy Anniversary	Guar CV	With Paid-Up Additions Option**							
		Cash Dividends		Total Dividends		Total Cash Value		Total Death Benefit	
		Illust.	Actual	Illust.	Actual	Illust†	Actual†	Illust†	Actual†
1981	\$5,510	\$1,365	\$1,365	\$1,365	\$1,365	\$6,875	\$6,875	\$253,073	\$ 253,073
1982	18,408	1,548	1,548	1,584	1,584	21,395	21,395	256,539	256,539
1983	31,748	1,728	1,728	1,807	1,807	36,625	36,625	260,386	260,386
1984	45,558	1,910	3,633	2,040	3,948	52,610	54,518	264,613	268,566
1985	59,870	2,098	4,353	2,286	5,104	69,399	74,177	269,225	278,863
1986	74,728	2,405	5,195	2,660	6,397	87,170	95,812	274,452	291,434
1987	90,170	2,708	6,055	3,041	7,829	105,978	119,633	280,276	306,428
1988	106,253	3,013	6,055	3,436	8,471	125,901	144,940	286,692	322,246
1989	123,035	3,330	6,100	3,858	8,920	147,034	171,612	293,720	338,496
1990	140,593	3,645	5,828	4,292	9,063	169,471	199,423	301,351	354,611
1991	143,958	3,598	9,043	4,380	12,974	177,907	217,170	308,957	377,142
1992	147,323	3,708	8,283	4,633	12,678	186,698	234,924	316,818	398,656
1993	150,680	3,815	7,770	4,894	12,609	195,847	252,887	324,938	419,575
1994	154,025	3,918	7,058	5,159	12,609	205,354	271,110	333,312	440,042
1995	157,350	4,015	6,650	5,430	12,566	216,330	290,641	343,053	461,120
1996	160,650	4,118	5,988	5,718	11,987	227,831	309,970	353,221	481,044
1997	163,913	4,223	6,248	6,022	13,062	239,860	330,934	363,834	502,621
1998	167,128	4,340	6,923	6,358	14,735	252,038	353,426	374,535	526,008
1999	170,285	4,465	7,338	6,719	16,311	263,424	377,660	384,399	551,303
2000	173,375	4,605	8,350	7,121	18,407	275,234	404,143	394,667	579,189
2001	176,398	4,743	8,565	7,537	19,804	287,482	431,524	405,349	607,929
2002	179,360	4,853	8,370	7,930	20,319	300,157	458,946	416,403	636,253
2003	182,270	4,935	8,543	8,295	21,721	313,241	487,971	427,780	666,046
2004	185,143	5,008	7,865	8,657	20,984	326,755	516,508	439,470	694,381
2005	187,985	5,068	7,160	9,011	19,963	340,707	544,266	451,454	720,930
2006	190,798	5,113	8,318	9,350	24,078	355,079	576,356	463,705	752,479
2007	193,568	5,148	8,430	9,683	25,488	369,844	610,085	476,211	785,398
2008	196,280	10,183†	17,850†	15,025†	37,462†	384,982	647,224	488,979	821,968
Termination Dividend		5,000	8,750	5,000	8,750				
IRR 28 Years						4.23%	6.52%	5.28%	7.58%

* Assumes policy originally issued with fixed loan rate updated to adjustable loan rate in 1983.

** Assumes no paid-up additions are surrendered.

† Numbers include termination dividend in 2008 for cash dividends and total dividends. Termination dividend included in Total Cash Surrender Value and Total Death Benefit beginning in year 15.

Dividend Interest Rates for Participating Life Insurance Policies Issued by Massachusetts Mutual Life Insurance Company prior to March, 1996



The dividend interest rate is used to determine the investment component of dividends; it is not the rate of return on the policy. Dividends include an investment component, a mortality component and an expense component. Therefore, dividend interest rates should not be used as the basis for comparing insurers. Dividends are not guaranteed.

The way companies apply dividend interest rates to calculate dividends varies. Some companies quote gross rates. Others, including MassMutual, quote rates that are net of investment expenses only, while yet others quote rates that take additional items into consideration.

Year	Dividend Interest Rate	Year	Dividend Interest Rate
1980	8.27%	1995	9.00%
1981	8.27%	1996	8.40%
1982	9.22%	1997	8.40%
1983	11.60%	1998	8.40%
1984	11.60%	1999	8.40%
1985	12.20%	2000	8.30%
1986	12.20%	2001	8.30%
1987	12.20%	2002	8.10%
1988	11.35%	2003	7.90%
1989	11.15%	2004	7.50%
1990	10.50%	2005	7.00%
1991	10.50%	2006	7.55%
1992	9.95%	2007	7.55%
1993	9.45%	2008	7.90%
1994	9.30%		

Rates starting in 1983 assume an Adjustable Loan Rate.

Policies in this block of business are no longer sold.

Dividend Interest Rates for Participating Life Insurance Policies Issued by Massachusetts Mutual Life Insurance Company since March, 1996



The dividend interest rate is used to determine the investment component of dividends; it is not the rate of return on the policy. Dividends include an investment component, a mortality component and an expense component. Therefore, dividend interest rates should not be used as the basis for comparing insurers. Dividends are not guaranteed.

The way companies apply dividend interest rates to calculate dividends varies. Some companies quote gross rates. Others, including MassMutual, quote rates that are net of investment expenses only, while yet others quote rates that take additional items into consideration.

Year	Dividend Interest Rate
1996	8.40%
1997	8.40%
1998	8.40%
1999	8.40%
2000	8.20%
2001	8.20%
2002	8.05%
2003	7.90%
2004	7.50%
2005	7.00%
2006	7.40%
2007	7.50%
2008	7.90%

Rates starting in 1983 assume an Adjustable Loan Rate.