without Riders

Bene co	\$150,000 Death Benefit Non-Tobacco 20 Pay Guaranteed Premium \$26,405 \$254.40 \$274.20 \$27,582 \$315.60 \$30,074 \$55,681 \$336.30 \$31,392 \$\$56,515	\$150,000 Death Benefit Non-Tobacco 20 Pay Cuaranteed Cash Value RPU Value \$254.40 \$254.40 \$277.582 \$54,064 \$294.90 \$228,804 \$294.90 \$31,392 \$56,515 \$447.60 \$336.30 \$31,392 \$57,372 \$475.20	\$150,000 Death Benefit \$200,000 Death Benefit \$200,000 Death Benefit Non-Tobacco 20 Pay Guaranteed 20 Pay Guaranteed 20 Pay Guaranteed 20 Pay Guaranteed 20 Pay Premium Cash Value ^{2,3} Premium Cash Value ^{2,3} Premium \$254.40 \$256,405 \$53,280 \$338.40 \$35,207 \$71,040 \$422.40 \$274.20 \$27,582 \$54,064 \$364.80 \$36,776 \$72,086 \$455.40 \$274.20 \$28,804 \$54,864 \$392.40 \$38,405 \$73,152 \$489.90 \$315.60 \$30,074 \$55,681 \$420.00 \$40,098 \$74,242 \$524.40 \$315.60 \$30,074 \$55,681 \$420.00 \$41,856 \$75,354 \$558.90	\$150,000 Death Benefit Non-Tobacco Ron-Tobacco Guaranteed 20 Pay Cash Value RPU Value \$23,280 \$254.40 \$227,582 \$294.90 \$28,804 \$30,074 \$55,681 \$336.30 \$31,392 \$57,372 \$475.20 \$20,000 Death Benefit Non-Tobacco Guaranteed 20 Pay Cash Value RPU Value RPU Value RPU Value RPU Value RPU Value S338.40 \$35,207 \$36,776 \$36,776 \$36,776 \$38,405 \$72,086 \$73,152 \$40,098 \$74,242 \$4336.30 \$31,392 \$56,515 \$447.60 \$43,682 \$76,496
\$0,000 Death Benefit Non-Tobacco Guaranteed Guaranteed Sec,405 \$26,405 \$27,582 \$27,582 \$28,804 \$30,074 \$31,392	suaranteed U Value ^{2,3} \$53,280 \$54,064 \$54,864 \$55,681 \$56,515	\$20 buaranteed 20 Pay 9U Value ^{2,3} Premium \$53,280 \$338.40 \$54,064 \$364.80 \$54,864 \$392.40 \$55,681 \$447.60 \$56,515 \$447.60 \$57,372 \$475.20	\$200,000 Death Benefit Non-Tobacco 20 Pay Uarranteed 20 Pay Cash Value ^{2,3} Premium \$53,280 \$54,064 \$364.80 \$54,064 \$392.40 \$55,681 \$420.00 \$41,856 \$75,354 \$55,881 \$420.00 \$41,856 \$75,354 \$558.90	\$200,000 Death Benefit \$250,000 Death Benefit
		\$20 Pay Premium \$338.40 \$364.80 \$392.40 \$447.60 \$475.20	\$200,000 Death Benefit Non-Tobacco 20 Pay Guaranteed Cash Value Premium Cash Value \$338.40 \$35,207 \$71,040 \$422.40 \$364.80 \$36,776 \$72,086 \$455.40 \$392.40 \$38,405 \$73,152 \$489.90 \$392.40 \$40,098 \$774,242 \$524.40 \$447.60 \$41,856 \$75,354 \$58.90	\$200,000 Death Benefit Non-Tobacco 20 Pay Guaranteed Premium Cash Value ² RPU Value ^{2,3} P1,040 \$38.40 \$35,207 \$71,040 \$442.40 \$445,970 \$384.80 \$38,405 \$392.40 \$38,405 \$38,405 \$420.00 \$40,098 \$74,242 \$524.40 \$50,123 \$447.60 \$43,682 \$76,496 \$593.40 \$\$593.40 \$\$593.40 \$\$593.40 \$\$54,603
\$200,000 Death Bene Non-Tobacco Guaranteed Cash Value ² \$35,207 \$36,776 \$38,405 \$40,098 \$41,856	h Benefit loco Guaranteed ue ² RPU Value ^{2,3} 7 \$71,040 6 \$72,086 5 \$73,152 8 \$74,242 8 \$75,354			000 Death Bene Von-Tobacco Guaranteed Cash Value \$44,009 \$45,970 \$48,006 \$50,123 \$52,321

Age as of Certificate Effective Date.

²Values shown are at the later of 10 years after the certificate date or the end of the certificate year which starts when the insured is age 65.

³Reduced Paid-Up (RPU) Value is the amount of fully paid up life insurance that is provided at time of lapse. Applicable to certificates issued in the state of NJ.

When N/A is shown above, that Death Benefit is below the minimum required or above the maximum allowed Death Benefit amount for the applicable issue age. Group whole life insurance (GPWL), (MM-GCWL-2014 and MM-GCWL-2014 (NC) in North Carolina), is level-premium, participating permanent life insurance. The GPWL policy and GCWL certificates are issued by Massachusetts Mutual Life Insurance Company, Springfield, MA 01111-0001.

²⁰ Pay premiums have been calculated assuming payments paid 20 times a year.

without Riders

Emplo	Employee Coverage)Verage \$10,000 Death Benefit	efit	\$25	\$25,000 Death Benefit	efit	\$50	50,000 Death Benefit Non-Tobacco	əfit	\$75	\$75,000 Death Benefit Non-Tobacco	Ħ
		Non-Tobacco			Non-Tobacco	Guaranteed	20 Pav	Guaranteed	Guaranteed	20 Pay	Guaranteed	Guaranteed
Issue	20 Pay	Guaranteed	Guaranteed	20 Pay	Guaranteed	BBI I Value 2,3	20 Fay Premium	Cash Value ²	RPU Value ^{2,3}	Premium	Cash Value ²	RPU Value ²
Age ¹	Premium	Cash Value ²	RPU Value ^{2,3}	Premium	Cash Value	\$8 880	\$86.40	\$8,801	\$17,760	\$128.40	\$13,202	\$26,640
55	\$19.20	\$1,760	\$3,552	\$44.40	\$4,400	\$0,000	\$93.00	\$9.194	\$18,021	\$138.30	\$13,791	\$27,032
56	\$20.52	\$1,838	\$3,604	\$47.70	\$4,597	\$9,010	\$00.00	\$9.601	\$18.288	\$148.65	\$14,402	\$27,432
57	\$21.90	\$1,920	\$3,657	\$51.15	\$4,800	\$9,144	\$406.00	\$10.024	\$18.560	\$159.00	\$15,037	\$27,840
Z Z	\$23.28	\$2,004	\$3,712	\$54.60	\$5,012	\$9,280	\$100.00	\$10,0E	¢18 838	\$169.35	\$15,696	\$28,257
50	\$24.66	\$2,092	\$3,767	\$58.05	\$5,232	\$9,419	\$113.70	410,700	\$10,10A	\$179 70	\$16.380	\$28,686
60	\$26.04	\$2,184	\$3,824	\$61.50	\$5,460	\$9,562	\$127.60	\$11,303	\$19.416	\$190.05	\$17,090	\$29,124
61	\$27.42	\$2,278	\$3,883	\$64.95	\$5,696	\$9,700	\$124.70	\$11 882	\$19.716	\$200.85	\$17,824	\$29,574
62	\$28.86	\$2,376	\$3,943	\$68.55	\$5,947	\$9,000	6144.60	\$10.387	\$20,022	\$211.20	\$18,580	\$30,033
63	\$30.24	\$2,477	\$4,004	\$72.00	\$6,193	\$10,011	\$140.00 \$141.00	\$13 005	\$20.334	\$221.55	\$19,357	\$30,501
64	\$31.62	\$2,581	\$4,066	\$75.45	\$6,452	\$10,107	\$148.80	\$13.435	\$20,650	\$222.00	\$20,152	\$30,975
65	\$31.68	\$2,687	\$4,130	\$75.60	\$6,717	\$10,020	\$150.00	\$13.978	\$20,971	\$237.30	\$20,967	\$31,456
66	\$33.72	\$2,795	\$4,194	\$80.70	\$0,909 0,909	\$10,500	\$173.10	\$14,535	\$21,298	\$258.45	\$21,802	\$31,947
67	\$36.54	\$2,907	\$4,259	\$87.75	\$7,570	\$10,852	\$182.70	\$15,156	\$21,705	\$272.85	\$22,735	\$32,558
68	\$38.46	\$3,031	\$4,341	\$92.55	\$7,570	\$11,002	\$197.70	\$15,848	\$22,196	\$295.35	\$23,773	\$33,294
69	\$41.46	\$3,169	\$4,439	\$100.05	\$7,924	e44 348	\$306.70	\$16.560	\$22,697	\$308.85	\$24,840	\$34,045
70	\$43.26	\$3,312	\$4,539	\$104.55	\$8,280	\$11,040	\$216.00	\$17.290	\$23,209	\$322.80	\$25,935	\$34,813
71	\$45.12	\$3,458	\$4,641	\$109.20	\$8,645	\$11,004	\$225.00	\$18.044	\$23,741	\$337.65	\$27,067	\$35,611
72	\$47.10	\$3,608	\$4,748	\$114.15	\$9,022	#1-,070	\$236.70	\$18.831	\$24,302	\$353.85	\$28,246	\$36,453
73	\$49.26	\$3,766	\$4,860	\$119.55	\$0,000	\$12,101	\$248.70	\$19,652	\$24,899	\$371.85	\$29,478	\$37,349
74	\$51.66	\$3,930	\$4,979	\$125.55	\$40.054	\$12.764	\$262.20	\$20,503	\$25,528	\$392.10	\$30,754	\$38,292
75	\$54.36	\$4,100	\$5,105	\$132.30	\$10,201	₩ 11,10°						

Age as of Certificate Effective Date.

75

\$54.36

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³Reduced Paid-Up (RPU) Value is the amount of fully paid up life insurance that is provided at time of lapse. Applicable to certificates issued in the state of NJ.

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without Riders

Employee		Coverage								3	* *** P**** Bon	
		\$100,000 Death Benefit	nefit	\$15	\$150,000 Death Benefit	efit	\$200	0,000 Death Benefit Non-Tobacco	netit	674	Non-Tobacco	
		Non-Tobacco	Guaranteed	20 Pav	Guaranteed	Guaranteed	20 Pay	Guaranteed	Guaranteed	20 Pay	Guaranteed	Guaranteed
\ 20 1	20 Fay Premium	Cash Value ²	RPU Value ^{2,3}	Premium	Cash Value ²	RPU Value ^{2,3}	Premium	Cash Value	RPO Value	\$78 QO	\$106,000	\$213,880
18	\$33.00	\$42,400	\$85,552	\$48.30	\$63,600	\$128,328	\$63.60	\$04,000	\$170 144	\$80.40	\$105,404	\$212,680
19	\$33.60	\$42,161	\$85,072	\$49.20	\$63,242	\$127,608	\$64.80	\$64,323	\$169 142	\$81.90	\$104,783	\$211,427
20	\$34.20	\$41,913	\$84,571	\$50.10	\$62,870	\$126,856	\$65.00	\$00,027	\$168.094	\$83.40	\$104,135	\$210,117
21	\$34.80	\$41,654	\$84,047	\$51.00	\$62,481	\$126,070	\$67.20	\$60,000	\$166 998	\$84.90	\$103,456	\$208,747
22	\$35.40	\$41,382	\$83,499	\$51.90	\$62,073	\$125,248	\$68.40	\$62,700	\$165.848	\$86.40	\$102,743	\$207,310
23	\$36.00	\$41,097	\$82,924	\$52.80	\$61,645	\$124,386	\$69.60	\$02,194	\$164.638	\$87.90	\$101.993	\$205,797
24	\$36.60	\$40,797	\$82,319	\$53.70	\$61,196	\$123,478	\$70.80	\$60,000	\$104,000 \$462,268	\$89.40	\$101.207	\$204,210
25	\$37.20	\$40,483	\$81,684	\$54.60	\$60,724	\$122,526	\$72.00	\$80,966	\$160,000	\$92.40	\$100.379	\$202,540
26	\$38.40	\$40,151	\$81,016	\$56.40	\$60,227	\$121,524	\$/4.40	\$00,000	\$102,00£	\$98.40	\$99,495	\$200,755
27	\$40.80	\$39,798	\$80,302	\$60.00	\$59,697	\$120,453	\$7.87¢	\$78,847	\$159.092	\$102.90	\$98,558	\$198,865
28	\$42.60	\$39,423	\$79,546	\$62.70	\$59,135	\$119,319	\$05.00	\$78.058	\$157.500	\$107.40	\$97,572	\$196,875
29	\$44.40	\$39,029	\$78,750	\$65.40	\$58,543	\$116,123	\$91.20	\$77.225	\$155,822	\$113.40	\$96,532	\$194,777
30	\$46.80	\$38,612	\$77,911	\$69.00	03C 739	\$115.536	\$96.00	\$76,347	\$154,048	\$119.40	\$95,433	\$192,560
31	\$49.20	\$38,173	\$77,024	00.274	\$56.570	\$114.144	\$100.80	\$75,427	\$152,192	\$125.40	\$94,284	\$190,240
32	\$51.60	\$37,713	\$75,090	07.0	\$55.847	\$112.686	\$106.80	\$74,463	\$150,248	\$132.90	\$93,079	\$187,810
33	\$54.60	\$37,231	\$/5,124	\$00.70	\$55.093	\$111.163	\$110.40	\$73,457	\$148,218	\$137.40	\$91,821	\$185,272
34	\$56.40	\$36,728	\$74,109	\$84.30	\$54.307	\$109,578	\$111.60	\$72,409	\$146,104	\$138.90	\$90,511	\$182,630
35	\$57.00	\$35,204	\$74 OF3	\$89.70	\$53.489	\$107,929	\$118.80	\$71,319	\$143,906	\$147.90	\$89,149	\$179,882
36	\$60.60	\$35,039	\$70.811	\$96.90	\$52,641	\$106,216	\$128.40	\$70,188	\$141,622	\$159.90	\$87,735	\$177,027
3/	\$60.40	\$34.504	\$69.622	\$103.20	\$51,757	\$104,433	\$136.80	\$69,009	\$139,244	\$170.40	\$80,202	\$170,950
30	00.600	\$33,889	\$68,380	\$109.50	\$50,834	\$102,570	\$145.20	\$67,778	\$136,760	\$180.90	\$93 107	\$167.690
30	\$78.60	\$33.242	\$67,076	\$116.70	\$49,864	\$100,614	\$154.80	\$66,485	\$134,152	\$192.90	\$81,404	\$164.252
41	\$82.80	\$32,561	\$65,701	\$123.00	\$48,842	\$98,551	\$163.20	\$65,123	\$131,402	07:00	\$79.612	\$160,637
42	\$87.00	\$31,845	\$64,255	\$129.30	\$47,767	\$96,382	\$171.60	\$63,690	\$120,510	\$225.90	\$77,726	\$156,832
43	\$91.80	\$31,090	\$62,733	\$136.50	\$46,636	\$94,099	\$101.20 \$190.60	\$60.590	\$122.256	\$236.40	\$75,737	\$152,820
44	\$96.00	\$30,295	\$61,128	\$142.80	\$45,442	\$21,002	\$190.80	\$58.905	\$118,858	\$237.90	\$73,632	\$148,572
45	\$96.60	\$29,452	\$59,429	\$143.70	\$44,179	\$86,440	\$206.40	\$57,120	\$115,254	\$257.40	\$71,400	\$144,067
46	\$104.40	\$28,560	\$57,627	\$155.40	\$44,040	\$83.574	\$222.00	\$55,226	\$111,432	\$276.90	\$69,032	\$139,290
47	\$112.20	\$27,613	\$55,716	\$157.10	\$30 Q11	\$80.532	\$238.80	\$53,215	\$107,376	\$297.90	\$66,519	\$134,220
48	\$120.60	\$26,607	\$53,688	\$100.00	\$38311	\$77.302	\$255.60	\$51,081	\$103,070	\$318.90	\$63,852	\$128,837
49	\$129.00	\$25,540	\$51,535	\$192.50	#36.610	\$73,870	\$271.20	\$48,814	\$98,494	\$338.40	\$61,017	\$123,117
50	\$136.80	\$24,407	\$49,247	\$204.00	\$20,010	\$70,222	\$288.00	\$46,403	\$93,630	\$359.40	\$58,004	\$117,037
51	\$145.20	\$23,201	\$46,875	\$200.00	\$30,886	\$66.355	\$304.80	\$43,848	\$88,474	\$380.40	\$54,810	\$110,592
52	\$153.60	\$21,924	\$44,237	\$249.00	\$30,853	\$62,256	\$320.40	\$41,138	\$83,008	\$399.90	\$51,422	\$103,760
53	\$161.40	\$20,569	\$41,504	\$25.50 \$25.50	\$28,697	\$57.906	\$337.20	\$38,263	\$77,208	\$420.90	\$47,829	\$96,510
54	\$169.80	\$19,131	φυσ,σσ-	\$100.00								

10/20/2021 WB

without Riders

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mplo	Employee Coverage	\$10,000 Death Benefit	efit	\$25	\$25,000 Death Benefit	efit	\$5	\$50,000 Death Benefit Non-Tobacco	efit	\$7	\$75,000 Death Benefit Non-Tobacco	efit
		Non-Tobacco Guaranteed	Guaranteed	20 Pav	Guaranteed	Guaranteed	20 Pay	Guaranteed	Guaranteed	20 Pay	Guaranteed	Guaranteed
A 2010	Premium	Cash Value ²	RPU Value ^{2,3}	Premium	Cash Value ²	RPU Value ^{2,3}	Premium	Cash Value	RFO Value	35 36	\$31,800	\$64,164
18	\$5.46	\$4,240	\$8,555	\$10.05	\$10,600	\$21,388	\$17.70	\$21,000	\$42,770	\$25.80	\$31.621	\$63,804
19	\$5.52	\$4,216	\$8,507	\$10.20	\$10,540	\$21,268	\$18.00	920,056	\$42,000	\$26.25	\$31,435	\$63,428
20	\$5.58	\$4,191	\$8,457	\$10.35	\$10,478	\$21,142	\$18.30	\$20,930	\$42 023	\$26.70	\$31,240	\$63,035
21	\$5.64	\$4,165	\$8,404	\$10.50	\$10,413	\$21,011	\$18.60	\$20,027	\$41 749	\$27.15	\$31,036	\$62,624
22	\$5.70	\$4,138	\$8,349	\$10.65	\$10,345	\$20,874	\$18.90	\$20,091	\$41,462	\$27.60	\$30,822	\$62,193
23	\$5.76	\$4,109	\$8,292	\$10.80	\$10,274	\$20,731	\$19.20	805 UCD	\$41,159	\$28.05	\$30,598	\$61,739
24	\$5.82	\$4,079	\$8,231	\$10.95	\$10,199	\$20,579	\$19.50 \$10.80	\$20,000	\$40.842	\$28.50	\$30,362	\$61,263
25	\$5.88	\$4,048	\$8,168	\$11.10	\$10,120	\$20,421	\$19.00 \$19.00	\$20,075	\$40.508	\$29.40	\$30,113	\$60,762
26	\$6.00	\$4,015	\$8,101	\$11.40	\$10,037	\$20,254	\$20.40	\$20,070	\$40 151	\$31.20	\$29,848	\$60,226
27	\$6.24	\$3,979	\$8,030	\$12.00	\$9,949	\$20,075	\$20.50	\$10,711	\$39,773	\$32.55	\$29,567	\$59,659
28	\$6.42	\$3,942	\$7,954	\$12.45	\$9,855	\$19,880	00.224	\$19.514	\$39.375	\$33.90	\$29,271	\$59,062
29	\$6.60	\$3,902	\$7,875	\$12.90	\$9,757	\$19,007	\$24.60	\$19.306	\$38,955	\$35.70	\$28,959	\$58,433
30	\$6.84	\$3,861	\$7,791	\$13.50	\$9,000	\$10,756	\$25.80	\$19.086	\$38,512	\$37.50	\$28,630	\$57,768
31	\$7.08	\$3,817	\$7,702	\$14.10	\$9,543	\$19,200	\$27.00	\$18.856	\$38,048	\$39.30	\$28,285	\$57,072
32	\$7.32	\$3,771	\$7,609	\$14.70	\$9,428	\$19,024	05.24 00.74	\$18.615	\$37,562	\$41.55	\$27,923	\$56,343
33	\$7.62	\$3,723	\$7,512	\$15.45	\$9,307	\$10,701	\$20.00	\$18.364	\$37.054	\$42.90	\$27,546	\$55,581
34	\$7.80	\$3,672	\$7,410	\$15.90	\$9,102	\$18.263	\$29.70	\$18,102	\$36,526	\$43.35	\$27,153	\$54,789
35	\$7.86	\$3,620	\$7,305	\$16.05	\$9,00	\$17 988	\$31.50	\$17,829	\$35,976	\$46.05	\$26,744	\$53,964
36	\$8.22	\$3,565	\$7,195	\$10.95	ψ0,914	\$17,702	\$33.90	\$17,547	\$35,405	\$49.65	\$26,320	\$53,108
37	\$8.70	\$3,509	\$7,081	\$10.00	\$8.626	\$17,405	\$36.00	\$17,252	\$34,811	\$52.80	\$25,878	\$52,216
38	\$9.12	\$3,450	\$6,902	#C 0C\$	\$8 472	\$17.095	\$38.10	\$16,944	\$34,190	\$55.95	\$25,417	\$51,285
39	\$9.54	\$3,388	\$0,000	\$21.45	\$8.310	\$16,769	\$40.50	\$16,621	\$33,538	\$59.55	\$24,932	\$50,307
40	\$10.02	07,024 420,024	\$6.570	\$22.50	\$8,140	\$16,425	\$42.60	\$16,280	\$32,850	\$62.70	\$24,421	\$49,275
4 6	\$10.44 \$10.44	\$3 184	\$6,425	\$23.55	\$7,961	\$16,063	\$44.70	\$15,922	\$32,127	\$65.85	\$20,000	\$47,049
43	\$11.34	\$3,109	\$6,273	\$24.75	\$7,772	\$15,683	\$47.10	\$15,545	\$30,564	\$77.60	\$22,721	\$45,846
44	\$11.76	\$3,029	\$6,112	\$25.80	\$7,573	\$15,282	\$49.20	\$10,147	\$20,504	\$73.05	\$22,089	\$44,571
45	\$11.82	\$2,945	\$5,942	\$25.95	\$7,363	\$14,85/	\$49.50	\$14,720	\$28.813	\$78.90	\$21,420	\$43,220
46	\$12.60	\$2,856	\$5,762	\$27.90	\$7,140	\$14,400	\$57.30	\$13.806	\$27.858	\$84.75	\$20,709	\$41,787
47	\$13.38	\$2,761	\$5,571	\$29.85	\$6,903	\$13,929	\$07.30	\$13,303	\$26.844	\$91.05	\$19,955	\$40,266
48	\$14.22	\$2,660	\$5,368	\$31.95	\$6,651	\$13,422	\$65.70 \$01.30	\$10,000	\$25.767	\$97.35	\$19,155	\$38,651
49	\$15.06	\$2,554	\$5,153	\$34.05	\$6,385	\$12,883	\$60.70	\$12,773	\$24.623	\$103.20	\$18,305	\$36,935
50	\$15.84	\$2,440	\$4,924	\$36.00	\$6,101	\$12,311	\$73.80 00.00	\$11 600	\$23,407	\$109.50	\$17,401	\$35,111
51	\$16.68	\$2,320	\$4,681	\$38.10	\$5,800	\$11,700	\$78.00	\$10.962	\$22,118	\$115.80	\$16,443	\$33,177
52	\$17.52	\$2,192	\$4,423	\$40.20	\$5,481	\$10.376	\$81.90	\$10.284	\$20,752	\$121.65	\$15,426	\$31,128
53	\$18.30	\$2,056	\$4,150	\$42.15	\$3,142	#10,070	\$86.10	\$9.565	\$19,302	\$127.95	\$14,348	\$28,953
	***	£1013	038 63	\$44.25	\$4,782	\$9,001		40,000				

Without Riders

Child Coverage

Age as of Certificate Effective Date.

³Reduced Paid-Up (RPU) Value is the amount of fully paid up life insurance that is provided at time of lapse. Applicable to certificates issued in the state of NJ. 2Values shown are at the later of 10 years after the certificate date or the end of the certificate year which starts when the insured is age 65.

When N/A is shown above, that Death Benefit is below the minimum required or above the maximum allowed Death Benefit amount for the applicable issue age. Group whole life insurance (GPWL), (MM-GCWL-2014 and MM-GCWL-2014 (NC) in North Carolina), is level-premium, participating permanent life insurance. The GPWL policy and GCWL certificates are issued by Massachusetts Mutual Life Insurance Company, Springfield, MA 01111-0001. 20 Pay premiums have been calculated assuming payments paid 20 times a year.

Without Riders

Spouse Coverage

Issue 20 Pay Aga Guaranteed Store Guaranteed Store	\$9,651	\$4,782	\$44.25	54
Action Control bacco 20 Pay Guaranteed \$10.05 \$10,600 \$10.20 \$10,540 \$10.20 \$10,540 \$10.50 \$10,478 \$10.65 \$10,473 \$10.80 \$10,274 \$10.95 \$10,129 \$11.10 \$10,129 \$11.40 \$10,037 \$12.90 \$9,949 \$12.90 \$9,949 \$12.90 \$9,757 \$12.90 \$9,757 \$12.90 \$9,853 \$14.70 \$9,853 \$14.70 \$9,428 \$14.70 \$9,428 \$14.70 \$9,428 \$14.70 \$9,428 \$14.70 \$9,428 \$15.45 \$9,307 \$15.45 \$9,307 \$16.95 \$9,428 \$17.72 \$8,626 \$19.20 \$8,626 \$2.1.45 \$8,914 \$2.0.25 \$8,914 \$2.1.45 \$8,914	\$10,376	\$5,142	\$42.15	53
Premium Cash Value \$10.05 \$10,600 \$10.20 \$10,540 \$10.20 \$10,540 \$10.50 \$10,478 \$10.65 \$10,473 \$10.80 \$10,274 \$10.95 \$10,129 \$11.10 \$10,129 \$12.00 \$9,949 \$12.90 \$9,757 \$12.90 \$9,757 \$13.50 \$9,653 \$14.10 \$9,653 \$14.70 \$9,428 \$14.70 \$9,428 \$14.70 \$9,428 \$14.70 \$9,428 \$14.70 \$9,428 \$14.70 \$9,428 \$14.70 \$9,428 \$15.45 \$9,307 \$15.90 \$9,182 \$16.05 \$9,182 \$16.05 \$9,428 \$2.145 \$8,914 \$1.05 \$8,914 \$2.025 \$8,472 \$2.365 \$7,961 \$2.475 \$7,961 \$	\$11,059	\$5,481	\$40.20	52
20 Pay Guaranteed Cash Value \$10.05 \$10,600 \$10.20 \$10,540 \$10.50 \$10,478 \$10.50 \$10,473 \$10.65 \$10,473 \$10.80 \$10,274 \$10.95 \$10,199 \$11.40 \$10,120 \$11.40 \$10,037 \$12.45 \$9,949 \$12.90 \$9,757 \$12.90 \$9,757 \$12.90 \$9,543 \$14.70 \$9,653 \$14.70 \$9,428 \$15.45 \$9,307 \$15.45 \$9,307 \$16.95 \$9,182 \$16.95 \$9,182 \$16.95 \$9,307 \$18.75 \$8,712 \$20.25 \$8,72 \$20.25 \$8,472 \$21.45 \$8,310 \$22.25 \$8,472 \$25.80 \$7,961 \$25.95 \$7,961 \$29.85 \$7,961 \$29.85 \$7,140	\$11,703	\$5,800	\$38.10	51
20 Pay Guaranteed Cash Value \$10.05 \$10,600 \$10.20 \$10,540 \$10.50 \$10,540 \$10.50 \$10,478 \$10.65 \$10,413 \$10.95 \$10,1274 \$10.95 \$10,199 \$11.40 \$10,120 \$12.45 \$9,855 \$12.90 \$9,757 \$12.90 \$9,757 \$12.90 \$9,543 \$14.70 \$9,653 \$14.70 \$9,543 \$14.70 \$9,543 \$14.70 \$9,543 \$14.70 \$9,543 \$14.70 \$9,543 \$14.70 \$9,543 \$14.70 \$9,543 \$15.95 \$9,182 \$16.95 \$9,428 \$18.773 \$8,7140 \$20.25 \$8,714 \$20.25 \$8,472 \$2.45 \$8,310 \$2.145 \$8,310 \$2.145 \$8,310 \$2.145 \$8,310	\$12,311	\$6,101	\$36.00	50
Ann-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.65 \$10,473 \$10.80 \$10,274 \$10.95 \$10,129 \$11.10 \$10,129 \$11.40 \$10,037 \$12.90 \$9,949 \$12.90 \$9,653 \$14.10 \$9,855 \$14.10 \$9,653 \$14.10 \$9,543 \$14.10 \$9,543 \$14.10 \$9,543 \$15.45 \$9,307 \$15.45 \$9,307 \$15.45 \$9,307 \$15.45 \$9,307 \$15.90 \$9,428 \$15.95 \$9,182 \$16.05 \$9,307 \$18.15 \$8,713 \$20.25 \$8,472 \$21.45 \$8,314 \$22.50 \$8,4140 \$24.75 \$7,772 \$25.80	\$12,883	\$6,385	\$34.05	49
Premium Cash Value \$10.05 \$10,600 \$10.20 \$10,540 \$10.20 \$10,540 \$10.35 \$10,478 \$10.65 \$10,473 \$10.80 \$10,274 \$10.95 \$10,129 \$11.10 \$10,129 \$11.40 \$10,037 \$12.90 \$9,757 \$12.90 \$9,855 \$12.90 \$9,855 \$14.70 \$9,855 \$14.70 \$9,428 \$15.45 \$9,543 \$15.45 \$9,428 \$14.70 \$9,428 \$15.45 \$9,307 \$15.45 \$9,307 \$16.95 \$9,428 \$15.90 \$9,428 \$15.95 \$9,428 \$16.95 \$9,307 \$18.75 \$9,051 \$18.75 \$8,773 \$20.25 \$8,472 \$24.75 \$8,773 \$27.45 \$8,310 \$23.55 \$7,961 <td< td=""><td>\$13,422</td><td>\$6,651</td><td>\$31.95</td><td>48</td></td<>	\$13,422	\$6,651	\$31.95	48
20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.65 \$10,473 \$10.80 \$10,274 \$10.95 \$10,129 \$11.10 \$10,129 \$12.00 \$9,949 \$12.90 \$9,757 \$12.90 \$9,855 \$14.70 \$9,853 \$14.70 \$9,428 \$15.45 \$9,543 \$15.45 \$9,428 \$15.90 \$9,428 \$16.95 \$9,428 \$16.95 \$9,428 \$16.95 \$9,428 \$16.95 \$9,428 \$16.95 \$9,428 \$16.95 \$9,428 \$16.95 \$9,428 \$18.75 \$8,773 \$18.91 \$1,472 \$2.45 \$8,773 \$1,49 \$8,773 \$1,49 \$1,472 \$2.1,45 \$8,914 <t< td=""><td>\$13,929</td><td>\$6,903</td><td>\$29.85</td><td>47</td></t<>	\$13,929	\$6,903	\$29.85	47
20 Pay Guaranteed Premium Cash Value ² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.50 \$10,473 \$10.65 \$10,413 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$11.40 \$10,037 \$12.45 \$9,949 \$12.90 \$9,757 \$12.90 \$9,757 \$13.50 \$9,653 \$14.70 \$9,543 \$14.70 \$9,428 \$15.45 \$9,307 \$16.05 \$9,182 \$16.05 \$9,182 \$16.05 \$9,182 \$16.95 \$8,914 \$19.20 \$8,773 \$20.25 \$8,472 \$21.45 \$8,310 \$22.50 \$8,140 \$22.50 \$7,961 \$25.80 \$7,573 \$25.95 \$7,363	\$14,406	\$7,140	\$27.90	46
20 Pay Guaranteed Premium \$10,600 \$10.20 \$10,600 \$10.20 \$10,540 \$10.50 \$10,478 \$10.65 \$10,413 \$10.95 \$10,199 \$11.10 \$10,199 \$11.40 \$10,199 \$12.45 \$9,855 \$12.90 \$9,757 \$12.90 \$9,757 \$13.50 \$9,653 \$14.70 \$9,653 \$14.70 \$9,428 \$15.45 \$9,307 \$16.95 \$9,182 \$16.95 \$9,182 \$19.20 \$9,757 \$16.95 \$9,428 \$18.75 \$8,773 \$16.95 \$9,428 \$16.95 \$8,773 \$16.95 \$8,773 \$20.25 \$8,472 \$20.25 \$8,472 \$21.45 \$8,310 \$22.50 \$8,140 \$23.55 \$7,961 \$25.80 \$7,573	\$14,857	\$7,363	\$25.95	45
Von-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.50 \$10,478 \$10.50 \$10,413 \$10.65 \$10,413 \$10.95 \$10,199 \$11.10 \$10,199 \$11.40 \$10,199 \$12.26 \$10,199 \$12.29 \$10,199 \$12.20 \$9,949 \$12.90 \$9,855 \$12.90 \$9,653 \$14.10 \$9,653 \$14.70 \$9,653 \$15.45 \$9,307 \$15.90 \$9,182 \$16.95 \$9,182 \$18.15 \$8,773 \$18.15 \$8,773 \$20.25 \$8,472 \$21.45 \$8,310 \$22.50 \$8,140 \$23.55 \$7,772	\$15,282	\$7,573	\$25.80	44
Premium Cash Value \$10.05 \$10,600 \$10.20 \$10,540 \$10.20 \$10,540 \$10.35 \$10,478 \$10.65 \$10,473 \$10.95 \$10,120 \$11.10 \$10,129 \$11.10 \$10,037 \$12.00 \$9,949 \$12.90 \$9,757 \$12.90 \$9,653 \$14.10 \$9,653 \$14.70 \$9,428 \$15.45 \$9,307 \$15.90 \$9,182 \$15.95 \$9,182 \$16.05 \$9,182 \$18.15 \$8,914 \$19.20 \$8,626 \$20.25 \$8,472 \$21.45 \$8,310 \$22.50 \$8,140 \$23.55 \$7,961	\$15,683	\$7,772	\$24.75	43
Von-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.65 \$10,413 \$10.80 \$10,274 \$10.95 \$10,129 \$11.10 \$10,027 \$11.40 \$10,037 \$12.00 \$9,949 \$12.90 \$9,757 \$12.90 \$9,757 \$13.50 \$9,855 \$14.70 \$9,428 \$15.45 \$9,307 \$15.90 \$9,428 \$15.95 \$9,182 \$16.05 \$9,182 \$16.95 \$8,914 \$18.15 \$8,773 \$18.15 \$8,773 \$21.45 \$8,310 \$22.50 \$8,140	\$16,063	\$7,961	\$23.55	42
Von-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.65 \$10,413 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,129 \$11.40 \$10,037 \$12.90 \$9,949 \$12.90 \$9,949 \$12.90 \$9,757 \$13.50 \$9,853 \$14.70 \$9,428 \$14.70 \$9,428 \$15.45 \$9,307 \$15.90 \$9,182 \$16.95 \$9,182 \$16.95 \$8,914 \$18.15 \$8,914 \$18.20 \$8,626 \$20.25 \$8,472 \$21.45 \$8,310	\$16,425	\$8,140	\$22.50	41
Premium Cash Value \$10.05 \$10,600 \$10.20 \$10,540 \$10.20 \$10,478 \$10.35 \$10,473 \$10.65 \$10,413 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$11.40 \$10,037 \$12.90 \$9,949 \$12.90 \$9,543 \$14.10 \$9,855 \$14.70 \$9,653 \$14.70 \$9,428 \$15.45 \$9,307 \$15.90 \$9,182 \$16.05 \$9,051 \$18.15 \$8,914 \$19.20 \$8,773 \$8,626 \$8,472	\$16,769	\$8,310	\$21.45	40
Von-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.50 \$10,478 \$10.50 \$10,413 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,129 \$11.40 \$10,120 \$12.45 \$9,949 \$12.90 \$9,757 \$13.50 \$9,653 \$14.70 \$9,653 \$14.70 \$9,543 \$15.45 \$9,307 \$15.95 \$9,182 \$16.95 \$9,051 \$18.15 \$8,773 \$19.20 \$8,626	\$17,095	\$8,472	\$20.25	39
Von-Tobacco 20 Pay Guaranteed Premium \$10,600 \$10.20 \$10,600 \$10.20 \$10,540 \$10.50 \$10,413 \$10.65 \$10,345 \$10.95 \$10,1274 \$10.95 \$10,199 \$11.40 \$10,120 \$12.45 \$9,949 \$12.45 \$9,855 \$12.90 \$9,757 \$13.50 \$9,653 \$14.70 \$9,653 \$14.70 \$9,428 \$15.45 \$9,307 \$15.90 \$9,182 \$16.95 \$9,051 \$18.15 \$8,773	\$17,405	\$8,626	\$19.20	38
Von-Tobacco 20 Pay Guaranteed Premium \$10,600 \$10.20 \$10,540 \$10.20 \$10,478 \$10.65 \$10,413 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$12.00 \$9,949 \$12.90 \$9,855 \$13.50 \$9,855 \$14.70 \$9,543 \$15.45 \$9,307 \$15.90 \$9,182 \$16.05 \$9,051 \$8,95 \$8,914	\$17,702	\$8,773	\$18.15	37
Von-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.65 \$10,413 \$10.80 \$10,274 \$10.95 \$10,129 \$11.10 \$10,120 \$12.00 \$10,037 \$12.90 \$9,949 \$12.90 \$9,855 \$13.50 \$9,855 \$14.10 \$9,653 \$14.70 \$9,428 \$15.45 \$9,307 \$15.90 \$9,182 \$16.05 \$9,051	\$17,988	\$8,914	\$16.95	36
Von-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.65 \$10,413 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$11.40 \$10,037 \$12.90 \$9,949 \$12.90 \$9,949 \$12.90 \$9,757 \$13.50 \$9,653 \$14.70 \$9,428 \$14.70 \$9,428 \$15.45 \$9,307 \$15.90 \$9,182	\$18,263	\$9,051	\$16.05	35
Von-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.65 \$10,413 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$11.40 \$10,037 \$12.00 \$9,949 \$12.45 \$9,855 \$12.90 \$9,757 \$13.50 \$9,653 \$14.70 \$9,428 \$15.45 \$9,307	\$18,527	\$9,182	\$15.90	34
Von-Tobacco 20 Pay Guaranteed Premium \$10,600 \$10.20 \$10,540 \$10.20 \$10,478 \$10.50 \$10,413 \$10.65 \$10,345 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$11.40 \$10,037 \$12.90 \$9,949 \$12.95 \$9,855 \$13.50 \$9,653 \$14.70 \$9,428	\$18,781	\$9,307	\$15.45	33
Von-Tobacco 20 Pay Guaranteed Premium \$10,600 \$10.20 \$10,540 \$10.20 \$10,478 \$10.55 \$10,413 \$10.65 \$10,345 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$11.40 \$10,037 \$12.90 \$9,949 \$12.90 \$9,855 \$13.50 \$9,653 \$14.10 \$9,543	\$19,024	\$9,428	\$14.70	32
Von-Tobacco 20 Pay Guaranteed Premium Cash Value ² \$10.05 \$10,600 \$10.20 \$10,540 \$10.50 \$10,478 \$10.65 \$10,345 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$11.40 \$10,037 \$12.00 \$9,949 \$12.90 \$9,855 \$13.50 \$9,653	\$19,256	\$9,543	\$14.10	31
Ann-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.50 \$10,413 \$10.65 \$10,345 \$10.80 \$10,274 \$10.95 \$10,120 \$11.10 \$10,120 \$11.40 \$10,037 \$12.00 \$9,949 \$12.90 \$9,757	\$19,477	\$9,653	\$13.50	30
Ann-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.50 \$10,413 \$10.65 \$10,345 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$11.40 \$10,037 \$12.00 \$9,949 \$12.45 \$9,855	\$19,687	\$9,757	\$12.90	29
Von-Tobacco 20 Pay Guaranteed Premium Cash Value² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.50 \$10,413 \$10.65 \$10,345 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$11.40 \$10,037 \$12.00 \$9,949	\$19,886	\$9,855	\$12.45	28
20 Pay Guaranteed Premium \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.50 \$10,413 \$10.65 \$10,345 \$10.80 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120 \$11.40 \$10,037	\$20,075	\$9,949	\$12.00	27
## Non-Tobacco 20 Pay Guaranteed Premium Cash Value \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.50 \$10,413 \$10.65 \$10,345 \$10.65 \$10,274 \$10.95 \$10,199 \$11.10 \$10,120	\$20,254	\$10,037	\$11.40	26
Non-Tobacco 20 Pay Guaranteed Premium Cash Value ² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.50 \$10,413 \$10.65 \$10,345 \$10.80 \$10,274 \$10.95 \$10,199	\$20,421	\$10,120	\$11.10	25
\text{Non-Tobacco} 20 Pay Guaranteed Premium Cash Value ² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.65 \$10,478 \$10.65 \$10,473	\$20,579	\$10,199	\$10.95	24
### Non-Tobacco 20 Pay Guaranteed Premium Cash Value \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.50 \$10,478 \$10.65 \$10,345	\$20,731	\$10,274	\$10.80	23
### Non-Tobacco 20 Pay Guaranteed Premium Cash Value ² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478 \$10.50 \$10,413	\$20,874	\$10,345	\$10.65	22
\text{Non-Tobacco} 20 Pay Guaranteed Premium Cash Value ² \$10.05 \$10,600 \$10.20 \$10,540 \$10.35 \$10,478	\$21,011	\$10,413	\$10.50	21
\text{Non-Tobacco} 20 Pay Guaranteed Premium Cash Value ² \$10.05 \$10,600 \$10,540	\$21,142	\$10,478	\$10.35	20
Non-Tobacco 20 Pay Guaranteed Premium Cash Value ² \$10.05 \$10,600	\$21,268	\$10,540	\$10.20	19
Non-Tobacco 20 Pay Guaranteed Premium Cash Value ²	\$21,388		\$10.05	18
Non-Tobacco 20 Pay Guaranteed	RPU Value ^{2,3}		Premium	Age 1
	Guaranteed			ssue

Without Riders

Spouse Coverage

		\$25,000 Death Benefit Non-Tobacco	efit Guaranteed
Issue Age ¹	20 Pay Premium	Guaranteed Cash Value ²	Guaranteed RPU Value ^{2,3}
55	\$44.40	\$4,400	\$8,880
56	\$47.70	\$4,597	\$9,010
57	\$51.15	\$4,800	\$9,144
58	\$54.60	\$5,012	\$9,280
59	\$58.05	\$5,232	\$9,419
60	\$61.50	\$5,460	\$9,562

Age as of Certificate Effective Date.

²Values shown are at the later of 10 years after the certificate date or the end of the certificate year which starts when the insured is age 65.

³Reduced Paid-Up (RPU) Value is the amount of fully paid up life insurance that is provided at time of lapse. Applicable to certificates issued in the state of NJ.

When N/A is shown above, that Death Benefit is below the minimum required or above the maximum allowed Death Benefit amount for the applicable issue age. Group whole life insurance (GPWL), (MM-GCWL-2014 and MM-GCWL-2014 (NC) in North Carolina), is level-premium, participating permanent life insurance. The GPWL policy and GCWL certificates are issued by Massachusetts Mutual Life Insurance Company, Springfield, MA 01111-0001. 20 Pay premiums have been calculated assuming payments paid 20 times a year.