## MassMutual Ascend Life Insurance Company (MMALIC) Funds Withheld Reinsurance Supplement

Year Ended June 30, 2023 (Dollars in Millions)

	June 30, 2023		
	MMALIC, Gross of Funds Withheld Reinsurance	Funds Withheld Adjustment	MMALIC, Net of Funds Withheld Reinsurance
ASSET MIX			
Non-Affiliated			
Corporate Bonds	16,415	4,697	11,718
US Gov't, Agencies, Municipals, Foreign Gov't	2,023	117	1,906
RMBS	2,786	1,428	1,358
CMBS	1,402	812	590
Other ABS (including CLOs)	10,794	2,306	8,488
Mortgage Loans and Real Estate	3,642	420	3,222
Schedule BA Assets	1,250	180	1,070
Unaffiliated Stocks	390	26	364
Total Non-Affiliated	38,702	9,986	28,716
Affiliated			
Corporate Bonds	121	71	50
US Gov't, Agencies, Municipals, Foreign Gov't	0	0	0
RMBS	0	0	0
CMBS	0	0	0
Other ABS (including CLOs)	399	181	218
Mortgage Loans and Real Estate	0	0	0
Schedule BA Assets	165	107	58
Affiliated Stocks	411	0	411
Total Affiliated	1,096	359	737
Other			
Cash, Cash Equivalents, and Short-Term Investments	2,300	807	1,493
Derivatives	848	0	848
All Other	224	0	224
Total Other	3,372	807	2,565
Total Cash and Invested Assets	43,170	11,152	32,018
CREDIT QUALITY			
NAIC 1	18,725	5,066	13,659
NAIC 2	13,099	3,694	9,405
Investment Grade	31,824	8,760	23,064
NAIC 3	1,438	763	675
NAIC 4	471	59	412
NAIC 5	172	11	161
NAIC 6	35	19	16
Below Investment Grade	2,116	852	1,264
Total Bonds	33,940	9,612	24,328