

COMPARISON REOFFERING YIELDS (Massachusetts) - PAGE 1

May 2021

MUNICIPALITY:	Massachusetts - Series A		Massachusetts - Series B		Brimfield		Canton	
BANK QUALIFIED:	No		No		Yes		Yes	
RATING:	Aa1 / AA		Aa1 / AA		AA+		AAA	
AMOUNT:	\$200,000,000		\$400,000,000		\$2,155,000		\$8,070,000	
SALE DATE:	5/4/2021		5/4/2021		5/5/2021		5/5/2021	
TERM:	8		5		15		12	
TIC:	2.0065%		2.4844%		1.4935%		0.9242%	
INSURANCE:	No		No		No		No	
TERM BONDS:	No		No		No		No	
TAXABLE:	No		No		No		No	
BID:	102.9988		100.6777		109.9081		113.5909	
\$ PREMIUM:	\$	5,997,600	\$	2,710,800	\$	213,520	\$	1,096,786
		Reoffering		Reoffering		Reoffering		Reoffering
	Coupon	Yield	Coupon	Yield	Coupon	Yield	Coupon	Yield
2022					5.000%	0.140%	4.000%	0.120%
2023					5.000%	0.160%	4.000%	0.130%
2024					5.000%	0.260%	4.000%	0.240%
2025					5.000%	0.380%	4.000%	0.370%
2026					5.000%	0.500%	4.000%	0.500%
2027					5.000%	0.620%	5.000%	0.620%
2028					5.000%	0.750%	5.000%	0.750%
2029					4.000%	0.880%	5.000%	0.880%
2030					2.000%	1.250%	2.000%	1.050%
2031					2.000%	1.350%	2.000%	1.150%
2032					2.000%	1.450%	2.000%	1.250%
2033					2.000%	1.500%	2.000%	1.400%
2034					2.000%	1.600%		
2035	3.000%	1.510%			2.000%	1.650%		
2036	3.000%	1.550%			2.000%	1.700%		
2037	2.000%	1.820%						
2038	2.000%	1.880%						
2039	2.000%	1.940%						
2040	2.000%	2.000%						
2041	2.000%	2.050%						
2042	2.000%	2.089%						
2043								
2044								
2045								
2046								
2047			3.000%	2.130%				
2048			3.000%	2.140%				
2049			3.000%	2.150%				
2050			2.000%	2.280%				
2051			2.125%	2.290%				
	Callable March 1, 2031		Callable April 1, 2031		Callable May 15, 2028		Callable May 15, 2029	

COMPARISON REOFFERING YIELDS (Massachusetts) - PAGE 2

May 2021

MUNICIPALITY:	Chatham		North Reading		Chelsea		Danvers	
BANK QUALIFIED:	Yes		Yes		Yes		No	
RATING:	AAA		Aa2		AA		AAA	
AMOUNT:	\$4,155,000		\$3,480,000		\$2,620,000		\$19,610,000	
SALE DATE:	5/5/2021		5/5/2021		5/6/2021		5/6/2021	
TERM:	20		20		10		15	
TIC:	1.5190%		1.3259%		0.8284%		1.3127%	
INSURANCE:	No		No		No		No	
TERM BONDS:	Yes		Yes		No		No	
TAXABLE:	No		No		No		No	
BID:	108.0131		115.5210		122.1422		116.1005	
\$ PREMIUM:	\$	332,944	\$	540,131	\$	580,126	\$	3,157,308
		Reoffering		Reoffering		Reoffering		Reoffering
	Coupon	Yield	Coupon	Yield	Coupon	Yield	Coupon	Yield
2021	5.000%	0.100%						
2022	5.000%	0.110%	5.000%	0.140%	5.000%	0.140%	5.000%	0.090%
2023	5.000%	0.160%	5.000%	0.160%	5.000%	0.160%	5.000%	0.120%
2024	5.000%	0.270%	5.000%	0.260%	5.000%	0.240%	5.000%	0.240%
2025	4.000%	0.400%	5.000%	0.380%	5.000%	0.360%	5.000%	0.370%
2026	3.000%	0.520%	5.000%	0.500%	5.000%	0.480%	5.000%	0.490%
2027	3.000%	0.650%	5.000%	0.620%	5.000%	0.600%	5.000%	0.630%
2028	4.000%	0.750%	5.000%	0.780%	5.000%	0.740%	5.000%	0.760%
2029	4.000%	1.000%	5.000%	0.900%	5.000%	0.880%	5.000%	0.890%
2030	2.000%	1.100%	5.000%	1.000%	5.000%	0.980%	5.000%	0.990%
2031	2.000%	1.150%	4.000%	1.050%	5.000%	1.040%	5.000%	1.050%
2032	2.000%	1.200%					2.000%	1.200%
2033	2.000%	1.300%					2.000%	1.380%
2034			2.000%	1.450%			2.000%	1.510%
2035	2.000%	1.500%					2.000%	1.640%
2036							2.000%	1.730%
2037	2.000%	1.700%	2.000%	1.650%				
2038	2.000%	1.800%						
2039								
2040	2.000%	2.000%						
2041			2.000%	2.000%				
	Callable Nov 15, 2029		Callable May 15, 2030		Non-callable		Callable July 1, 2030	

COMPARISON REOFFERING YIELDS (Massachusetts) - PAGE 3

May 2021

MUNICIPALITY:	Newburyport	Ayer	Concord	Taunton				
BANK QUALIFIED:	Yes	Yes	Yes	No				
RATING:	AAA	AA+	Aaa	AA				
AMOUNT:	\$2,800,000	\$6,175,000	\$7,680,000	\$8,145,000				
SALE DATE:	5/11/2021	5/11/2021	5/12/2021	5/12/2021				
TERM:	25	20	10	20				
TIC:	1.6685%	1.4076%	0.6812%	1.5461%				
INSURANCE:	No	No	No	No				
TERM BONDS:	Yes	Yes	No	Yes				
TAXABLE:	No	No	No	No				
BID:	110.9025	108.2180	118.6672	110.7801				
\$ PREMIUM:	\$ 305,270	\$ 507,462	\$ 1,433,641	\$ 878,039				
	<u>Coupon</u>	<u>Reoffering Yield</u>	<u>Coupon</u>	<u>Reoffering Yield</u>	<u>Coupon</u>	<u>Reoffering Yield</u>	<u>Coupon</u>	<u>Reoffering Yield</u>
2021			4.000%	0.130%			5.000%	0.100%
2022	5.000%	0.120%	4.000%	0.140%	5.000%	0.110%	5.000%	0.150%
2023	5.000%	0.140%	4.000%	0.190%	5.000%	0.130%	5.000%	0.200%
2024	5.000%	0.240%	4.000%	0.300%	5.000%	0.220%	5.000%	0.300%
2025	5.000%	0.360%	4.000%	0.420%	5.000%	0.340%	5.000%	0.430%
2026	5.000%	0.480%	2.000%	0.550%	5.000%	0.470%	5.000%	0.550%
2027	5.000%	0.590%	4.000%	0.670%	5.000%	0.570%	5.000%	0.650%
2028	5.000%	0.720%	4.000%	0.790%	5.000%	0.700%	5.000%	0.780%
2029	5.000%	0.850%	4.000%	0.910%	5.000%	0.840%	5.000%	0.900%
2030	5.000%	0.950%	2.000%	1.100%	5.000%	0.950%	5.000%	1.000%
2031	5.000%	1.030%	2.000%	1.150%	5.000%	1.010%	3.000%	1.100%
2032			2.000%	1.200%			2.000%	1.300%
2033			2.000%	1.300%			2.000%	1.500%
2034			2.000%	1.400%			2.000%	1.600%
2035	2.000%	1.450%	2.000%	1.500%				
2036							2.000%	1.800%
2037			2.000%	1.700%				
2038			2.000%	1.800%			2.000%	1.900%
2039			2.000%	1.900%				
2040	2.000%	1.800%	2.000%	2.000%			2.000%	2.000%
2041								
2042								
2043								
2044								
2045								
2046	2.125%	2.150%						
	Callable May 15, 2030		Callable Nov 15, 2029		Non-callable		Callable Sept 15, 2029	

COMPARISON REOFFERING YIELDS (Massachusetts) - PAGE 4

May 2021

MUNICIPALITY:	Pentucket RSD		Dudley		Haverhill		Northborough	
BANK QUALIFIED:	No		Yes		No		No	
RATING:	Aa2		AA		AA		Aa1	
AMOUNT:	\$40,525,000		\$1,795,000		\$2,635,000		\$6,845,000	
SALE DATE:	5/12/2021		5/13/2021		5/13/2021		5/13/2021	
TERM:	30		20		20		10	
TIC:	2.2921%		1.7989%		1.6147%		0.6803%	
INSURANCE:	No		No		No		No	
TERM BONDS:	Yes		Yes		Yes		No	
TAXABLE:	No		No		No		No	
BID:	104.2784		108.1403		112.6033		118.2269	
\$ PREMIUM:	\$ 1,733,822		\$ 146,118		\$ 332,097		\$ 1,247,631	
	<u>Coupon</u>	<u>Reoffering Yield</u>	<u>Coupon</u>	<u>Reoffering Yield</u>	<u>Coupon</u>	<u>Reoffering Yield</u>	<u>Coupon</u>	<u>Reoffering Yield</u>
2021					5.000%	0.150%		
2022	5.000%	0.150%	5.000%	0.200%	5.000%	0.160%	5.000%	0.140%
2023	5.000%	0.200%	5.000%	0.250%	5.000%	0.230%	5.000%	0.180%
2024	5.000%	0.290%	5.000%	0.350%	5.000%	0.350%	5.000%	0.280%
2025	5.000%	0.430%	5.000%	0.470%	5.000%	0.480%	5.000%	0.400%
2026	5.000%	0.570%	5.000%	0.700%	5.000%	0.600%	5.000%	0.530%
2027	5.000%	0.700%	5.000%	0.850%	5.000%	0.740%	5.000%	0.650%
2028	5.000%	0.850%	5.000%	1.000%	5.000%	0.860%	5.000%	0.780%
2029	5.000%	1.000%	5.000%	1.100%	5.000%	1.000%	5.000%	0.910%
2030	4.000%	1.100%	3.000%	1.300%	5.000%	1.100%	5.000%	1.010%
2031	4.000%	1.150%	3.000%	1.400%	3.000%	1.300%	5.000%	1.070%
2032	2.000%	1.500%			3.000%	1.400%		
2033	2.000%	1.600%			2.000%	1.800%		
2034	2.000%	1.700%			2.000%	1.850%		
2035	2.000%	1.800%			2.000%	1.900%		
2036	2.000%	1.900%	2.000%	1.800%	2.000%	2.000%		
2037					2.000%	2.050%		
2038	2.000%	2.000%			2.000%	2.100%		
2039	2.000%	2.050%						
2040	2.000%	2.100%						
2041	2.125%	2.150%	2.125%	2.150%				
2042	2.125%	2.200%						
2043	2.250%	2.250%						
2044								
2045								
2046	3.000%	2.000%						
2047								
2048								
2049								
2050								
2051	2.500%	2.500%						
	Callable June 1, 2029		Callable May 15, 2029		Callable Nov 15, 2029		Non-callable	

COMPARISON REOFFERING YIELDS (Massachusetts) - PAGE 5

May 2021

MUNICIPALITY:	Southbridge	Lynnfield	Plymouth	Amherst
BANK QUALIFIED:	No	No	No	Yes
RATING:	AA-	AA+	AA+	AA+
AMOUNT:	\$13,050,000	\$15,520,000	\$41,070,000	\$4,710,000
SALE DATE:	5/13/2021	5/18/2021	5/19/2021	5/19/2021
TERM:	20	20	29	12
TIC:	1.4963%	1.7172%	1.4432%	1.0775%
INSURANCE:	No	No	No	No
TERM BONDS:	Yes	Yes	Yes	No
TAXABLE:	No	No	No	No
BID:	111.9854	110.4639	114.7288	110.0057

\$ PREMIUM:	\$ 1,564,095	\$ 1,623,997	\$ 6,049,118	\$ 471,268
--------------------	--------------	--------------	--------------	------------

	Reoffering		Reoffering		Reoffering		Reoffering	
	Coupon	Yield	Coupon	Yield	Coupon	Yield	Coupon	Yield
2022	5.000%	0.200%	5.000%	0.150%	5.000%	0.100%	5.000%	0.150%
2023	5.000%	0.240%	5.000%	0.190%	5.000%	0.150%	5.000%	0.190%
2024	5.000%	0.350%	5.000%	0.300%	5.000%	0.260%	4.000%	0.310%
2025	5.000%	0.470%	5.000%	0.430%	5.000%	0.400%	4.000%	0.440%
2026	5.000%	0.600%	5.000%	0.550%	5.000%	0.520%	3.000%	0.570%
2027	5.000%	0.720%	5.000%	0.730%	5.000%	0.650%	3.000%	0.700%
2028	5.000%	0.850%	5.000%	0.820%	5.000%	0.780%	3.000%	0.820%
2029	5.000%	1.000%	5.000%	0.980%	5.000%	0.900%	3.000%	1.000%
2030	4.000%	1.100%	5.000%	1.050%	5.000%	1.000%	3.000%	1.100%
2031	2.000%	1.200%	4.000%	1.190%	4.000%	1.140%	2.000%	1.200%
2032	2.000%	1.400%	3.000%	1.370%	3.000%	1.290%	2.000%	1.300%
2033	2.000%	1.550%	3.000%	1.400%	3.000%	1.400%	2.000%	1.400%
2034	2.000%	1.700%	2.000%	1.700%	2.000%	1.750%		
2035	2.000%	1.800%	2.000%	1.750%	2.000%	1.800%		
2036	2.000%	1.900%	2.000%	1.850%	2.000%	1.900%		
2037			2.000%	1.900%	2.000%	1.950%		
2038	2.000%	2.000%			2.000%	2.000%		
2039	2.000%	2.050%	2.000%	2.000%	2.000%	2.040%		
2040	2.000%	2.100%	2.000%	2.050%	2.000%	2.100%		
2041	2.125%	2.150%	2.000%	2.100%	2.000%	2.160%		
2042								
2043								
2044								
2045								
2046					2.250%	2.400%		
2047								
2048								
2049								
2050					2.500%	2.500%		

	Callable May 15, 2029	Callable June 1, 2030	Callable May 1, 2030	Callable June 1, 2028
--	-----------------------	-----------------------	----------------------	-----------------------

COMPARISON REOFFERING YIELDS (Massachusetts) - PAGE 6

May 2021

MUNICIPALITY:	Concord-Carlisle RSD		Dedham		Somerville		Westfield	
BANK QUALIFIED:	No		No		No		Yes	
RATING:	Aa1		AAA		AA+		AA	
AMOUNT:	\$19,165,000		\$25,245,000		\$28,835,000		\$3,715,000	
SALE DATE:	5/19/2021		5/20/2021		5/25/2021		5/26/2021	
TERM:	17		29		29		20	
TIC:	1.5491%		2.0366%		1.9447%		1.5387%	
INSURANCE:	No		No		No		No	
TERM BONDS:	No		Yes		Yes		Yes	
TAXABLE:	No		No		No		No	
BID:	112.5989		107.6532		109.7344		109.4998	
\$ PREMIUM:	\$ 2,414,579		\$ 1,932,050		\$ 2,806,914		\$ 352,918	
		Reoffering		Reoffering		Reoffering		Reoffering
	Coupon	Yield	Coupon	Yield	Coupon	Yield	Coupon	Yield
2022	5.000%	0.150%	5.000%	0.120%	5.000%	0.110%	5.000%	0.200%
2023	5.000%	0.170%	5.000%	0.150%	5.000%	0.150%	5.000%	0.250%
2024	5.000%	0.280%	5.000%	0.260%	5.000%	0.270%	5.000%	0.350%
2025	5.000%	0.430%	5.000%	0.400%	5.000%	0.400%	5.000%	0.500%
2026	5.000%	0.550%	5.000%	0.530%	5.000%	0.530%	5.000%	0.600%
2027	5.000%	0.680%	5.000%	0.660%	5.000%	0.660%	3.000%	0.750%
2028	5.000%	0.800%	5.000%	0.780%	5.000%	0.790%	3.000%	0.850%
2029	5.000%	0.900%	5.000%	0.880%	5.000%	0.910%	5.000%	1.000%
2030	4.000%	1.050%	4.000%	1.000%	4.000%	1.000%	3.000%	1.150%
2031	3.000%	1.200%	3.000%	1.150%	4.000%	1.100%	2.000%	1.250%
2032	3.000%	1.300%	3.000%	1.360%	3.000%	1.310%	2.000%	1.350%
2033	3.000%	1.400%	3.000%	1.420%	3.000%	1.370%	2.000%	1.450%
2034	2.000%	1.750%	3.000%	1.470%	3.000%	1.420%	2.000%	1.550%
2035	2.000%	1.800%	3.000%	1.530%	3.000%	1.450%	2.000%	1.650%
2036	2.000%	1.900%	3.000%	1.590%	3.000%	1.490%		
2037	2.000%	2.000%	2.000%	1.950%	2.000%	1.820%		
2038	2.000%	2.050%	2.000%	2.000%	2.000%	1.860%		
2039			2.000%	2.050%				
2040			2.000%	2.100%	2.000%	2.000%		
2041			2.000%	2.150%	2.000%	2.100%	2.000%	2.050%
2042			2.000%	2.200%				
2043			2.125%	2.250%				
2044			2.250%	2.300%				
2045					2.250%	2.300%		
2046			2.250%	2.350%				
2047								
2048								
2049								
2050								
2051			2.250%	2.390%	2.250%	2.400%		
	Callable June 15, 2029		Callable June 1, 2029		Callable June 1, 2030		Callable June 1, 2029	

COMPARISON REOFFERING YIELDS (Massachusetts) - PAGE 7

May 2021

MUNICIPALITY:	Quincy	Braintree	Clinton	Ware				
BANK QUALIFIED:	No	No	Yes	Yes				
RATING:	AA	AA+	AA+	AA				
AMOUNT:	\$22,030,000	\$5,680,000	\$6,720,000	\$1,695,000				
SALE DATE:	5/26/2021	5/27/2021	5/27/2021	5/27/2021				
TERM:	25	20	20	20				
TIC:	1.7686%	1.5819%	1.3027%	1.8153%				
INSURANCE:	No	No	No	No				
TERM BONDS:	Yes	No	Yes	Yes				
TAXABLE:	No	No	No	No				
BID:	110.7531	111.9994	109.9839	107.3087				
\$ PREMIUM:	\$ 2,368,908	\$ 681,566	\$ 670,918	\$ 123,882				
	Coupon	Reoffering Yield	Coupon	Reoffering Yield	Coupon	Reoffering Yield	Coupon	Reoffering Yield
2021			5.000%	0.110%				
2022	5.000%	0.100%	5.000%	0.120%	4.000%	0.140%	5.000%	0.260%
2023	5.000%	0.170%	5.000%	0.230%	4.000%	0.160%	5.000%	0.280%
2024	5.000%	0.300%	5.000%	0.350%	4.000%	0.270%	5.000%	0.390%
2025	5.000%	0.450%	5.000%	0.490%	4.000%	0.410%	2.000%	0.530%
2026	5.000%	0.580%	5.000%	0.610%	4.000%	0.540%	5.000%	0.660%
2027	5.000%	0.700%	5.000%	0.720%	4.000%	0.670%	5.000%	0.790%
2028	5.000%	0.820%	5.000%	0.890%	4.000%	0.790%	5.000%	0.910%
2029	4.000%	0.930%	5.000%	1.000%	4.000%	0.900%	2.000%	1.020%
2030	4.000%	1.050%	4.000%	1.120%	4.000%	1.000%		
2031	4.000%	1.130%	4.000%	1.190%	4.000%	1.100%		
2032	3.000%	1.360%	3.000%	1.370%				
2033	3.000%	1.440%	3.000%	1.430%				
2034	3.000%	1.520%	2.000%	1.800%	2.000%	1.500%		
2035	2.000%	1.750%	2.000%	1.880%			2.000%	1.750%
2036	2.000%	1.800%	2.000%	1.950%				
2037	2.000%	1.900%	2.000%	2.000%	2.000%	1.800%		
2038	2.000%	1.950%	2.000%	2.020%				
2039			2.000%	2.070%				
2040			2.000%	2.090%				
2041					2.000%	2.050%	2.125%	2.200%
2042								
2043								
2044								
2045								
2046	2.000%	2.183%						
	Callable June 1, 2030		Callable Sept 15, 2029		Callable May 1, 2030		Callable June 15, 2029	

COMPARISON REOFFERING YIELDS (Connecticut and Maine) - PAGE 8

May 2021

MUNICIPALITY:	Augusta, ME	Middletown, CT	Orange, CT - Series A	Orange, CT - Series B				
BANK QUALIFIED:	Yes	No	No	Yes				
RATING:	AA	AAA	AAA	AAA				
AMOUNT:	\$2,240,000	\$10,955,000	\$8,600,000	\$4,715,000				
SALE DATE:	5/4/2021	5/13/2021	5/26/2021	5/26/2021				
TERM:	20	15	20	13				
TIC:	1.3980%	1.0081%	2.0494%	0.9982%				
INSURANCE:	No	No	No	No				
TERM BONDS:	Yes	No	No	No				
TAXABLE:	No	No	Yes	No				
BID:	102.9996	124.2219	100.0537	111.2389				
\$ PREMIUM:	\$ 67,191	\$ 2,653,509	\$ 4,618	\$ 529,914				
	Coupon	Reoffering Yield	Coupon	Reoffering Yield	Coupon	Reoffering Yield	Coupon	Reoffering Yield
2021			5.000%	0.110%			4.000%	0.090%
2022	1.000%	0.250%	5.000%	0.120%	3.000%	0.200%	4.000%	0.100%
2023	1.000%	0.300%	5.000%	0.170%	3.000%	0.250%	4.000%	0.150%
2024	1.000%	0.400%	5.000%	0.290%	3.000%	0.400%	4.000%	0.250%
2025	1.000%	0.500%	5.000%	0.410%	3.000%	0.900%	4.000%	0.390%
2026	1.000%	0.600%	5.000%	0.520%	1.000%	1.000%	4.000%	0.510%
2027	1.000%	0.700%	5.000%	0.670%	1.300%	1.300%	4.000%	0.640%
2028	2.000%	0.800%	5.000%	0.800%	1.400%	1.400%	4.000%	0.750%
2029	2.000%	0.900%	5.000%	0.930%	1.650%	1.650%	4.000%	0.860%
2030	2.000%	1.000%	4.000%	1.030%	1.750%	1.750%	3.000%	1.000%
2031	2.000%	1.100%	4.000%	1.100%	1.800%	1.850%	3.000%	1.100%
2032			5.000%	1.160%	1.900%	1.950%	2.000%	1.350%
2033			5.000%	1.190%	1.950%	2.000%	2.000%	1.450%
2034			5.000%	1.230%	2.000%	2.050%		
2035			5.000%	1.270%	2.050%	2.100%		
2036	2.000%	1.600%			2.100%	2.150%		
2037					2.150%	2.200%		
2038					2.200%	2.250%		
2039					2.250%	2.300%		
2040					2.300%	2.350%		
2041	2.000%	1.900%			2.350%	2.400%		
	Callable May 1, 2031		Non-callable		Callable June 1, 2030		Callable July 15, 2029	