

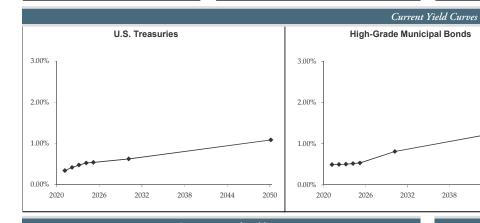
YIELD ANALYSIS

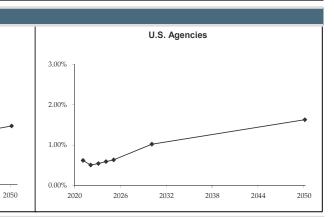
March 10, 2020

U.S. Treasury Yields				
Coupon	Maturity	YTM		
0.000%	02/25/21	0.34%		
1.125%	02/28/22	0.42%		
1.375%	02/15/23	0.47%		
2.375%	02/29/24	0.52%		
1.125%	02/28/25	0.54%		
1.500%	02/15/30	0.62%		
2.000%	02/15/50	1.08%		

Municipal Bond Yields ¹				
Maturity	YTM	Tax-Equiv. ²		
03/09/21	0.49%	0.70%		
03/09/22	0.50%	0.71%		
03/09/23	0.51%	0.72%		
03/09/24	0.52%	0.74%		
03/09/25	0.53%	0.76%		
03/09/30	0.81%	1.16%		
03/09/50	1.43%	2.05%		

U.S. Agency Yields - Active Bonds					
Agency	Coupon	Maturity	Price	YTM	To Muni (bp)
FHLB	1.375%	02/18/21	\$100.69	0.62%	-9
FFCB	1.550%	02/15/22	\$101.97	0.50%	-21
FFCB	1.850%	02/01/23	\$103.69	0.54%	-18
FHLB	2.125%	02/15/24	\$105.90	0.59%	-15
FFCB	2.950%	02/28/25	\$111.24	0.63%	-13
FFCB	2.800%	02/11/30	\$116.44	1.02%	-14
FFCB	2.760%	02/03/50	\$125.85	1.63%	-42





Corporate Bond Yields					
Description	Price	YTM	To Treasury (bp)		
JPM (A2/A-) 4.5% 1/24/2022	\$105.24	1.62%	+120		
WFC (A2/A-) 3% 2/19/2025	\$104.79	1.96%	+143		
MS (A3 *+/BBB+) 3.63% 1/20/2027	\$109.46	2.12%	+158		
GS (A3/BBB+) 3.3% 3/15/2030	\$105.40	2.63%	+201		
4.00% 3.00% 2.00% 1.00%	2006	2000			
2020 2022 2024	2026	2028	3 2030		

Builet & Callable Agency Bond Yields					
Descrip	otion	Call Date	Price	YTM	YTW
FHLB 1.115% 9/28/2020		08/28/20	\$99.99	1.14%	1.14%
FFCB 1.53% 2/10/2022		02/10/21	\$100.32	1.36%	1.36%
FHLMC 1.875% 3/5/2025		06/05/20	\$100.19	1.84%	1.08%
FFCB 1.85% 3/11/2030		03/11/21	\$99.77	1.88%	1.88%
4.00% 3.00% - 2.00% - 0.00%	•	•			
2020	2022	2024	2026	2028	2030

2044