

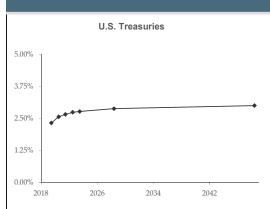
YIELD ANALYSIS

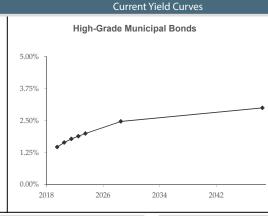
July 3, 2018

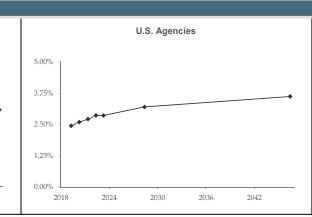
U.S. Treasury Yields				
Coupon	Maturity	YTM		
0.000%	06/20/19	2.32%		
2.500%	06/30/20	2.56%		
2.625%	06/15/21	2.65%		
1.750%	06/30/22	2.73%		
2.625%	06/30/23	2.76%		
2.875%	05/15/28	2.87%		
3.125%	05/15/48	2.99%		

Municipal Bond Yields ¹				
Maturity	YTM	Tax-Equiv. ²		
07/02/19	1.47%	2.10%		
07/02/20	1.65%	2.35%		
07/02/21	1.79%	2.55%		
07/02/22	1.90%	2.71%		
07/02/23	2.00%	2.86%		
07/02/28	2.47%	3.53%		
07/02/48	3.00%	4.29%		

U.S. Agency Yields - Active Bonds					
Agency	Coupon	Maturity	Price	YTM	To Muni (bp)
FHLB	2.250%	04/26/19	\$99.83	2.44%	+34
FHLB	2.375%	04/16/20	\$99.60	2.59%	+24
FFCB	2.700%	05/10/21	\$99.95	2.71%	+16
FFCB	2.875%	05/25/22	\$99.81	2.86%	+15
FFCB	2.700%	04/11/23	\$99.25	2.86%	-0
FFCB	3.300%	05/17/28	\$100.85	3.20%	-33
FFCB	3.250%	06/28/46	\$93.46	3.61%	-67







Description	Price YTM		To Treasury (bp)	
C (Baa1/BBB+) 2.4% 2/18/2020	\$98.83	3.15%	+59	
JPM (Baa1/BBB+) 3.38% 5/1/2023	\$97.80	3.88%	+115	
MS (A3/BBB+) 4% 7/23/2025	\$99.77	4.04%	+128	
BAC (A3/A-) 3.71% 4/24/2028	\$96.51	4.16%	+128	
4.00% 4.00% 2.00% 0.00%	•			
2020 2022	2024	2026	2028	

Corporate Bond Yields

Description	Call Date	Price	YTM	YTW
FHLB 2.25% 4/26/2019	N/A	\$99.83	2.44%	2.44%
FFCB 2.5% 4/23/2020	04/23/19	\$99.84	2.57%	2.57%
FHLB 3% 4/17/2023	04/17/19	\$98.99	3.22%	3.23%
FHLB 3.75% 4/24/2028	04/24/19	\$99.53	3.81%	3.81%
6.00% - 4.00% - 2.00% -	. , ,	,	. ,	
2019 2021	2023	2025	2027	

Bullet & Callable Agency Bond Yields ³