

YIELD ANALYSIS

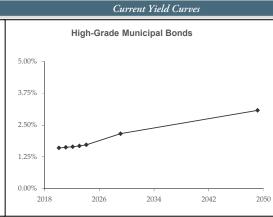
February 19, 2019

U.S. Treasury Yields			
Coupon	Maturity	YTM	
0.000%	01/30/20	2.53%	
2.500%	01/31/21	2.49%	
2.500%	02/15/22	2.47%	
2.375%	01/31/23	2.47%	
2.500%	01/31/24	2.47%	
2.625%	02/15/29	2.64%	
3.000%	02/15/49	2.98%	

Municipal Bond Yields ¹			
Maturity	YTM	Tax-Equiv. ²	
02/15/20	1.60%	2.29%	
02/15/21	1.63%	2.32%	
02/15/22	1.65%	2.36%	
02/15/23	1.68%	2.40%	
02/15/24	1.72%	2.46%	
02/15/29	2.16%	3.09%	
02/15/49	3.08%	4.40%	

U.S. Agency Yields - Active Bonds					
Agency	Coupon	Maturity	Price	YTM	To Muni (bp)
FHLB	2.426%	12/17/19	\$100.03	2.37%	+8
FNMA	1.875%	12/28/20	\$98.68	2.61%	+29
FHLB	2.625%	12/10/21	\$100.13	2.57%	+22
FFCB	2.350%	12/22/22	\$98.67	2.65%	+25
FFCB	3.500%	12/20/23	\$103.54	2.71%	+25
FHLB	3.500%	12/08/28	\$103.99	3.03%	-6
FFCB	3.580%	04/11/47	\$98.47	3.65%	-75

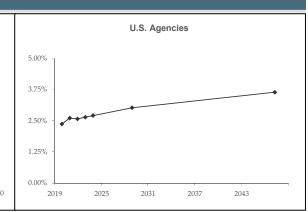
U.S. Treasuries 5.00% 3.75% 2.50% 1.25% 0.00% 2018 2026 2034 2042 2050



Description

2021

2019



Price

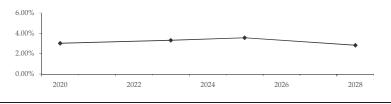
YTM

2027

YTW

2029

Corporate Bond Yields						
Description	Price	YTM	To Treasury (bp)			
JPM (A2/A-) 4.25% 10/15/2020	\$101.95	3.03%	+53			
C (Baa1 *+/BBB+) 3.88% 10/25/2023	\$102.41	3.31%	+84			
BAC (A3 *+/A-) 3.88% 8/1/2025	\$101.78	3.56%	+110			
MS (A3/BBB+) 3.68% 5/11/2028	\$100.60	2.83%	+19			
6.00%						



1				
FFCB 1.16% 11/1/2019	N/A	\$98.75	2.79%	2.79%
FHLB 2.84% 9/25/2020	09/25/19	\$99.91	2.87%	2.87%
FFCB 3% 2/7/2024	05/07/19	\$99.93	3.02%	3.02%
FHLB 3.04% 2/28/2029	02/26/19	\$97.05	3.38%	3.39%
6.00% 4.00% 2.00%	•			•
0.00%				

2025

2023

Bullet & Callable Agency Bond Yields ³ Call Date