

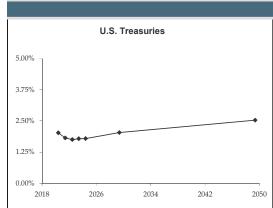
YIELD ANALYSIS

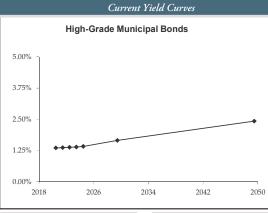
June 18, 2019

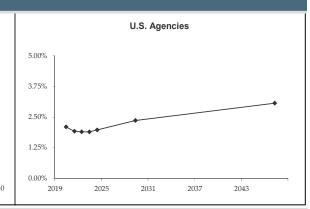
U.S. Treasury Yields			
Coupon	Maturity	YTM	
0.000%	05/21/20	2.03%	
2.125%	05/31/21	1.82%	
1.750%	06/15/22	1.75%	
2.750%	05/31/23	1.79%	
2.000%	05/31/24	1.79%	
2.375%	05/15/29	2.03%	
2.875%	05/15/49	2.53%	

Municipal Bond Yields ¹			
Maturity	YTM	Tax-Equiv. ²	
06/17/20	1.35%	1.93%	
06/17/21	1.37%	1.95%	
06/17/22	1.38%	1.97%	
06/17/23	1.39%	1.99%	
06/17/24	1.41%	2.02%	
06/17/29	1.65%	2.36%	
06/17/49	2.43%	3.47%	

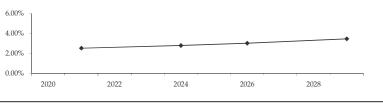
U.S. Agency Yields - Active Bonds					
Agency	Coupon	Maturity	Price	YTM	To Muni (bp)
FNMA	1.500%	06/22/20	\$99.41	2.10%	+16
FHLB	1.875%	07/07/21	\$99.91	1.92%	-3
FHLB	2.375%	06/10/22	\$101.38	1.90%	-7
FHLMC	2.750%	06/19/23	\$103.30	1.89%	-10
FHLB	2.875%	06/14/24	\$104.27	1.97%	-5
FNMA	6.250%	05/15/29	\$134.20	2.36%	-0
FFCB	3.580%	04/11/47	\$109.22	3.06%	-40







Corporate Bond Yields					
Description	Price	YTM	To Treasury (bp)		
WFC (A2/A-) 2.5% 3/4/2021	\$99.96	2.52%	+70		
JPM (A2/A-) 3.56% 4/23/2024	\$103.10	2.79%	+100		
BAC (A2/A-) 3.5% 4/19/2026	\$102.99	3.01%	+122		
MS (A3/BBB+) 4.05% 3/13/2029	\$104.40	3.46%	+143		
6.000/		-			
6.00%					



Description	Call Date	Price	YTM	YTW
FHLB 2.58% 3/20/2020	09/20/19	\$100.00	2.51%	2.51%
FHLB 1.5% 6/30/2021	06/25/19	\$98.32	2.27%	2.27%
FHLMC 2.82% 5/20/2024	11/20/19	\$100.10	2.79%	2.57%
FHLB 3.04% 2/28/2029	06/25/19	\$99.10	3.14%	3.15%
6.00%				
2.00% -	•			

Bullet & Callable Agency Bond Yields ³

2029

0.00%

2019