

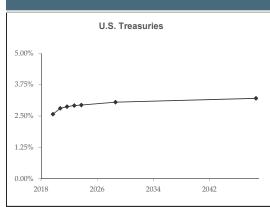
YIELD ANALYSIS

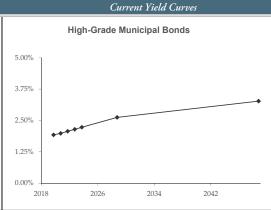
October 2, 2018

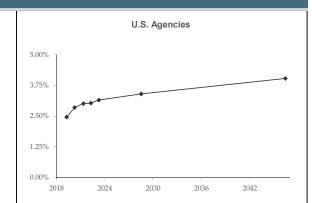
U.S. Treasury Yields			
Coupon	Maturity	YTM	
0.000%	09/12/19	2.57%	
2.750%	09/30/20	2.81%	
2.750%	09/15/21	2.87%	
1.875%	09/30/22	2.92%	
2.875%	09/30/23	2.94%	
2.875%	08/15/28	3.05%	
3.000%	08/15/48	3.20%	

Municipal Bond Yields ¹			
Maturity	YTM	Tax-Equiv. ²	
10/01/19	1.93%	2.75%	
10/01/20	1.98%	2.83%	
10/01/21	2.07%	2.95%	
10/01/22	2.14%	3.06%	
10/01/23	2.23%	3.18%	
10/01/28	2.62%	3.74%	
10/01/48	3.27%	4.67%	

U.S. Agency Yields - Active Bonds					
Agency	Coupon	Maturity	Price	YTM	To Muni (bp)
FHLB	2.250%	04/26/19	\$99.87	2.46%	-29
FHLB	2.375%	04/16/20	\$99.27	2.85%	+2
FFCB	2.700%	05/10/21	\$99.21	3.01%	+6
FFCB	2.800%	04/27/22	\$99.19	3.03%	-4
FFCB	2.700%	04/11/23	\$98.04	3.15%	-3
FFCB	3.200%	07/12/28	\$98.24	3.40%	-34
FFCB	3.250%	06/28/46	\$86.87	4.03%	-63





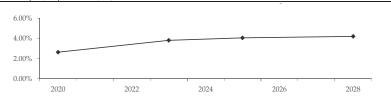


Price

YTM

YTW

Corporate Bond Yields					
Description	Price	YTM	To Treasury (bp)		
C (Baa1/BBB+) 2.4% 2/18/2020	\$99.67	2.65%	-16		
JPM (Baa1 *+/BBB+) 3.38% 5/1/2023	\$98.16	3.82%	+90		
MS (A3/BBB+) 4% 7/23/2025	\$99.59	4.07%	+113		
BAC (A3/A-) 3.71% 4/24/2028	\$96.20	4.21%	+116		
6.00%		-	•		



FHLB 2.25% 4/26/2019	N/A	\$99.87	2.46%	2.46%
FFCB 2.5% 4/23/2020	04/23/19	\$99.34	2.90%	2.90%
FHLB 3% 4/17/2023	04/17/19	\$98.94	3.24%	3.25%
FHLB 3.75% 4/24/2028	04/24/19	\$99.43	3.82%	3.82%
6.00% - 4.00% - 2.00% -	•			
2019 20	21 2023	2025	2027	, <u> </u>

Bullet & Callable Agency Bond Yields 3

Call Date

Description