

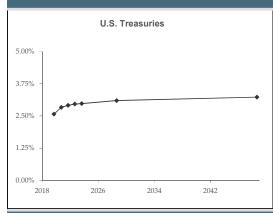
YIELD ANALYSIS

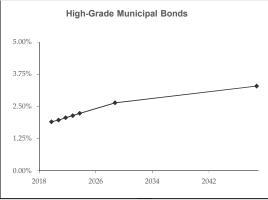
September 25, 2018

U.S. Treasury Yields			
Coupon	Maturity	YTM	
0.000%	09/12/19	2.57%	
2.750%	09/30/20	2.84%	
2.750%	09/15/21	2.91%	
1.625%	08/31/22	2.96%	
2.750%	08/31/23	2.98%	
2.875%	08/15/28	3.10%	
3.000%	08/15/48	3.23%	

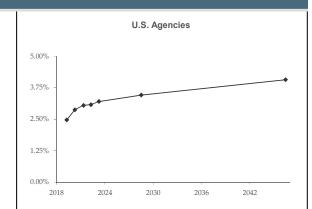
Municipal Bond Yields ¹				
Maturity	YTM	Tax-Equiv. ²		
09/24/19	1.90%	2.72%		
09/24/20	1.97%	2.81%		
09/24/21	2.06%	2.94%		
09/24/22	2.14%	3.06%		
09/24/23	2.23%	3.19%		
09/24/28	2.64%	3.77%		
09/24/48	3.29%	4.70%		

U.S. Agency Yields - Active Bonds					
Agency	Coupon	Maturity	Price	YTM	To Muni (bp)
FHLB	2.250%	04/26/19	\$99.86	2.47%	-25
FHLB	2.375%	04/16/20	\$99.23	2.87%	+6
FFCB	2.700%	05/10/21	\$99.11	3.04%	+10
FFCB	2.800%	04/27/22	\$99.03	3.07%	+1
FFCB	2.700%	04/11/23	\$97.85	3.20%	+1
FFCB	3.200%	07/12/28	\$97.82	3.45%	-32
FFCB	3.250%	06/28/46	\$86.40	4.06%	-63

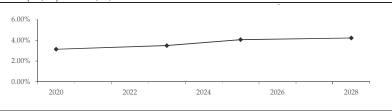




Current Yield Curves



Corporate Bond Yields					
Description	Price	YTM	To Treasury (bp)		
C (Baa1/BBB+) 2.4% 2/18/2020	\$99.00	3.14%	+30		
JPM (Baa1 *+/BBB+) 3.38% 5/1/2023	\$99.50	3.49%	+53		
MS (A3/BBB+) 4% 7/23/2025	\$99.61	4.07%	+108		
BAC (A3/A-) 3.71% 4/24/2028	\$96.06	4.23%	+113		
6.00%		-			



Description	Call Date	Price	YTM	YTW
FHLB 2.25% 4/26/2019	N/A	\$99.86	2.47%	2.47%
FFCB 2.5% 4/23/2020	04/23/19	\$99.35	2.90%	2.90%
FHLB 3% 4/17/2023	04/17/19	\$98.90	3.25%	3.26%
FHLB 3.75% 4/24/2028	04/24/19	\$99.36	3.82%	3.83%
4.00% - 2.00% -	•		, ,	•
2019 20	021 2023	2025	2027	

Bullet & Callable Agency Bond Yields ³