

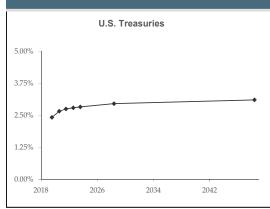
## YIELD ANALYSIS

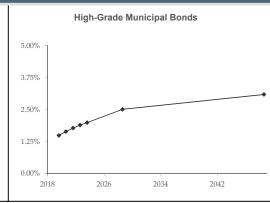
August 7, 2018

U.S. Treasury Yields				
Coupon	Maturity	YTM		
0.000%	07/18/19	2.42%		
2.625%	07/31/20	2.66%		
2.625%	07/15/21	2.74%		
1.875%	07/31/22	2.79%		
2.750%	07/31/23	2.82%		
2.875%	05/15/28	2.95%		
3.125%	05/15/48	3.10%		

Municipal Bond Yields <sup>1</sup>				
Maturity	YTM	Tax-Equiv. <sup>2</sup>		
08/06/19	1.49%	2.13%		
08/06/20	1.64%	2.35%		
08/06/21	1.78%	2.55%		
08/06/22	1.90%	2.71%		
08/06/23	1.99%	2.85%		
08/06/28	2.51%	3.59%		
08/06/48	3.10%	4.42%		

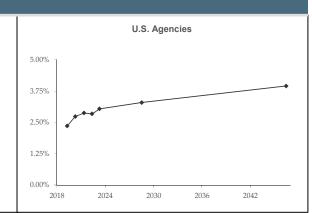
	i	I.S. Agency Yields - A	ctive Bonds		
Agency	Coupon	Maturity	Price	YTM	To Muni (bp)
FHLB	2.250%	04/26/19	\$99.91	2.36%	+23
FHLB	2.375%	04/16/20	\$99.39	2.74%	+39
FFCB	2.700%	05/10/21	\$99.52	2.87%	+33
FFCB	2.875%	05/25/22	\$99.53	2.84%	+13
FFCB	2.700%	04/11/23	\$98.47	3.04%	+19
FFCB	3.200%	07/12/28	\$99.21	3.29%	-29
FFCB	3.250%	06/28/46	\$88.00	3.96%	-47





Current Yield Curves

Description



Price

YTM

YTW

Description	Price	YTM	To Treasury (bp)
C (Baa1/BBB+) 2.4% 2/18/2020	\$99.48	2.75%	+9
JPM (Baa1 *+/BBB+) 3.38% 5/1/2023	\$98.21	3.79%	+100
MS (A3/BBB+) 4% 7/23/2025	\$100.25	3.96%	+114
BAC (A3/A-) 3.71% 4/24/2028	\$96.97	4.10%	+115
4.00% - 2.00% - 0.00% -	•	, ,	<b></b>
2020 2022	2024	2026	2028

Corporate Bond Yields

FHLB 2.25% 4/26/	2019	N/A	\$99.91	2.36%	2.36%
FFCB 2.5% 4/23/2	020	04/23/19	\$99.03	3.09%	3.09%
FHLB 3% 4/17/202	23	04/17/19	\$99.09	3.20%	3.21%
FHLB 3.75% 4/24/	2028	04/24/19	\$100.00	3.75%	3.74%
4.00% - 2.00% -		•		, , ,	<b></b>
2019	2021	2023	2025	2027	

Bullet & Callable Agency Bond Yields <sup>3</sup>

Call Date