

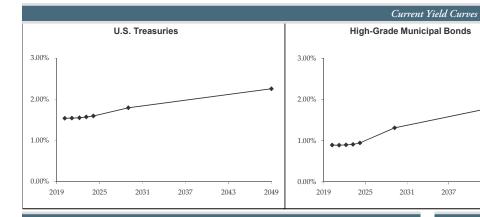
## YIELD ANALYSIS

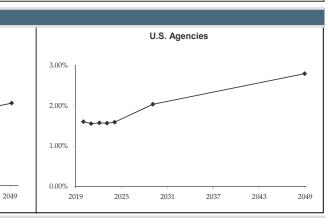
January 21, 2020

U.S. Treasury Yields				
Coupon	Maturity	YTM		
0.000%	12/31/20	1.54%		
1.625%	12/31/21	1.54%		
1.500%	01/15/23	1.55%		
2.625%	12/31/23	1.57%		
1.750%	12/31/24	1.59%		
1.750%	11/15/29	1.79%		
2.375%	11/15/49	2.25%		

Municipal Bond Yields <sup>1</sup>			
Maturity	YTM	Tax-Equiv. <sup>2</sup>	
01/17/21	0.90%	1.28%	
01/17/22	0.89%	1.27%	
01/17/23	0.90%	1.29%	
01/17/24	0.91%	1.30%	
01/17/25	0.95%	1.35%	
01/17/30	1.31%	1.88%	
01/17/50	2.01%	2.87%	

		U.S. Agency Yields - 1	Active Bonds		
Agency	Coupon	Maturity	Price	YTM	To Muni (bp)
FHLMC	1.875%	11/17/20	\$100.20	1.60%	+32
FHLB	1.875%	11/29/21	\$100.55	1.55%	+28
FHLB	2.500%	12/09/22	\$102.55	1.57%	+29
FHLB	2.250%	12/08/23	\$102.51	1.57%	+26
FFCB	1.625%	12/03/24	\$99.86	1.59%	+24
FHLB	2.125%	12/14/29	\$100.61	2.04%	+16
FFCB	2.625%	10/15/49	\$95.77	2.79%	-8





Description WFC (A2/A-) 2.1% 7/26/2021	Price	YTM	To Treasury (bp)
WFC (A2/A-) 2.1% 7/26/2021	#100.20		10 licabary (bp)
	\$100.30	1.87%	+33
JPM (A2/A-) 3.11% 8/29/2024	\$101.87	2.54%	+97
C (A3/BBB+) 3% 5/15/2026	\$101.91	2.62%	+103
MS (A3/BBB+) 4.05% 3/13/2029	\$109.26	2.84%	+105
4.00% 3.00% - 2.00% - 1.00% - 0.00% - 2020 2022 2024	2026	2028	2030

Dutiet & Cattable Agenty Bona Tietas					
Description	Call Date	Price	YTM	YTW	
FNMA 1.35% 12/18/2020	04/18/20	\$99.23	2.05%	2.05%	
FFCB 1.59% 12/10/2021	12/10/20	\$99.92	1.61%	1.61%	
FHLB 2% 12/11/2024	09/11/20	\$100.05	1.98%	1.92%	
FFCB 2.65% 11/13/2029	02/13/20	\$100.04	2.64%	2.00%	
4.00% 3.00% 2.00% 1.00%	•			<b>•</b>	
2020 2022	2024	2026	2028	2030	

Rullet er Callable Agency Rond Vields

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