

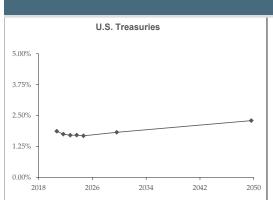
## YIELD ANALYSIS

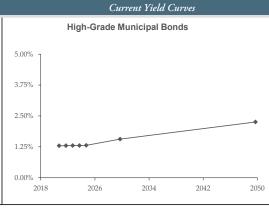
September 17, 2019

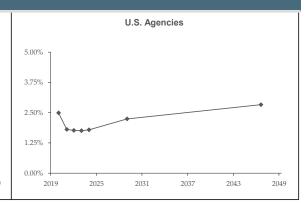
| U.S. Treasury Yields |          |       |  |  |
|----------------------|----------|-------|--|--|
| Coupon               | Maturity | YTM   |  |  |
| 0.000%               | 09/10/20 | 1.87% |  |  |
| 1.500%               | 08/31/21 | 1.75% |  |  |
| 1.500%               | 09/15/22 | 1.70% |  |  |
| 2.750%               | 08/31/23 | 1.71% |  |  |
| 1.250%               | 08/31/24 | 1.68% |  |  |
| 1.625%               | 08/15/29 | 1.82% |  |  |
| 2.250%               | 08/15/49 | 2.29% |  |  |

| Municipal Bond Yields <sup>1</sup> |       |                         |  |
|------------------------------------|-------|-------------------------|--|
| Maturity                           | YTM   | Tax-Equiv. <sup>2</sup> |  |
| 09/16/20                           | 1.29% | 1.85%                   |  |
| 09/16/21                           | 1.30% | 1.86%                   |  |
| 09/16/22                           | 1.30% | 1.86%                   |  |
| 09/16/23                           | 1.30% | 1.86%                   |  |
| 09/16/24                           | 1.31% | 1.87%                   |  |
| 09/16/29                           | 1.57% | 2.24%                   |  |
| 09/16/49                           | 2.26% | 3.22%                   |  |

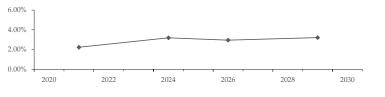
| U.S. Agency Yields - Active Bonds |        |          |          |       |              |
|-----------------------------------|--------|----------|----------|-------|--------------|
| Agency                            | Coupon | Maturity | Price    | YTM   | To Muni (bp) |
| FHLMC                             | 2.470% | 09/10/20 | \$99.96  | 2.49% | +64          |
| FNMA                              | 1.375% | 10/07/21 | \$99.14  | 1.80% | -5           |
| FNMA                              | 1.375% | 09/06/22 | \$98.87  | 1.77% | -9           |
| FNMA                              | 2.875% | 09/12/23 | \$104.30 | 1.75% | -11          |
| FHLB                              | 2.875% | 09/13/24 | \$105.15 | 1.79% | -8           |
| FFCB                              | 2.430% | 09/28/29 | \$101.44 | 2.24% | +0           |
| FFCB                              | 3.580% | 04/11/47 | \$113.89 | 2.83% | -39          |







| Corporate Bond Yields        |          |       |                  |  |  |
|------------------------------|----------|-------|------------------|--|--|
| Description                  | Price    | YTM   | To Treasury (bp) |  |  |
| WFC (A2/A-) 2.1% 7/26/2021   | \$99.75  | 2.24% | +49              |  |  |
| JPM (A2/A-) 3.32% 8/29/2024  | \$100.42 | 3.20% | +149             |  |  |
| C (A3/BBB+) 3% 5/15/2026     | \$100.25 | 2.96% | +128             |  |  |
| MS (A3/BBB+) 4.05% 3/13/2029 | \$106.37 | 3.22% | +139             |  |  |
|                              |          |       |                  |  |  |



| Bullet & Callable Agency Bond Yields |           |          |       |       |  |
|--------------------------------------|-----------|----------|-------|-------|--|
| Description                          | Call Date | Price    | YTM   | YTW   |  |
| FHLB 2.07% 9/16/2020                 | 12/16/19  | \$99.90  | 2.14% | 2.14% |  |
| FHLMC 2.7% 9/27/2021                 | 09/27/19  | \$100.02 | 2.69% | 2.69% |  |
| FFCB 1.96% 9/16/2024                 | 09/16/20  | \$99.50  | 2.07% | 2.07% |  |
| FHLB 2.5% 9/28/2029                  | 09/28/19  | \$97.43  | 2.75% | 2.80% |  |
| /                                    |           |          |       |       |  |

