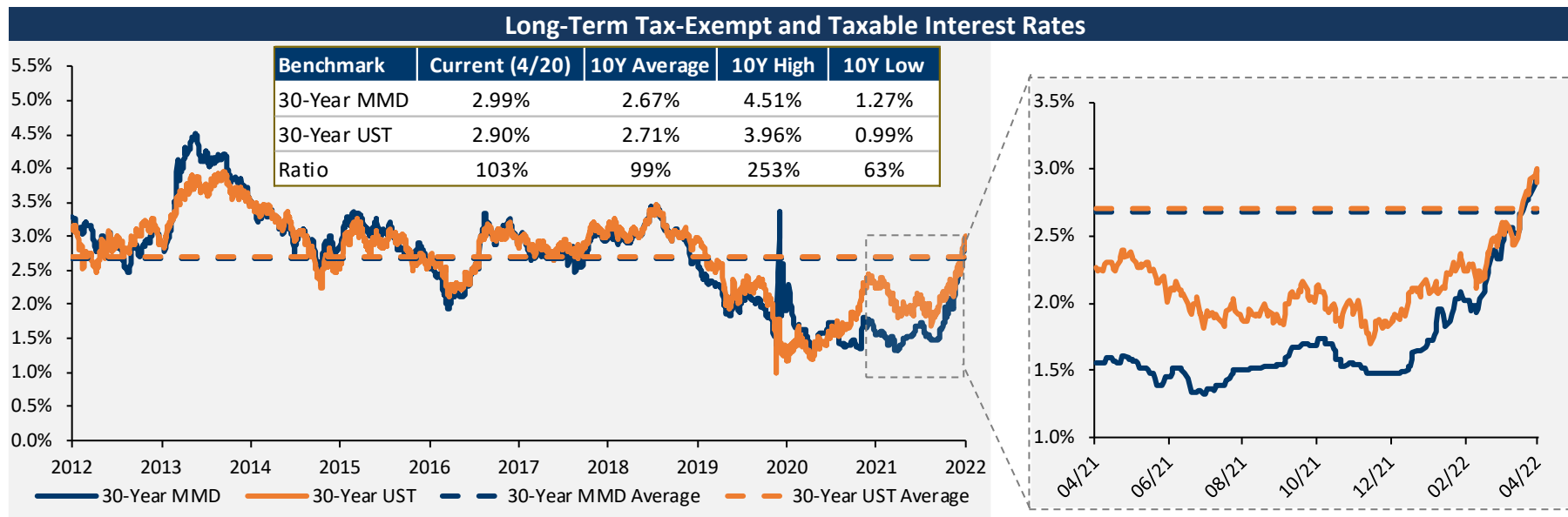


To Hedge or Not to Hedge...



April 26, 2022

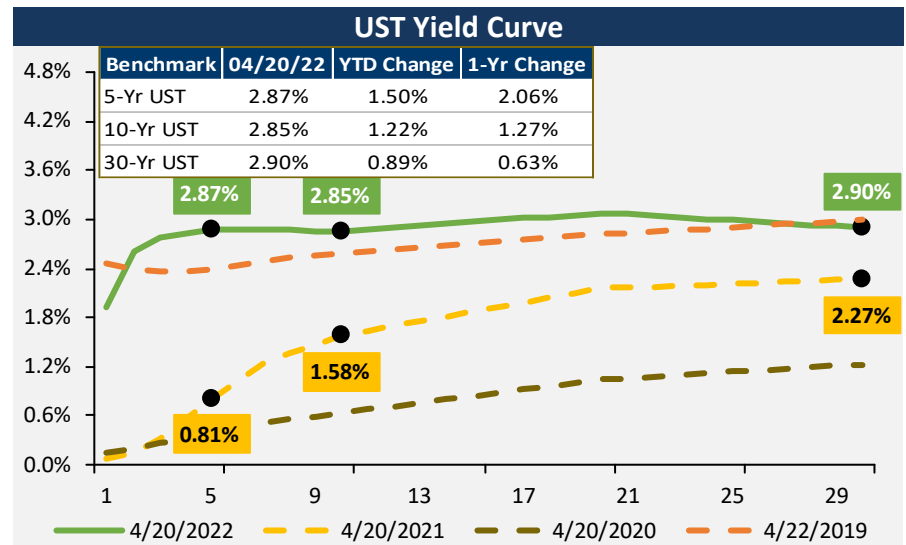
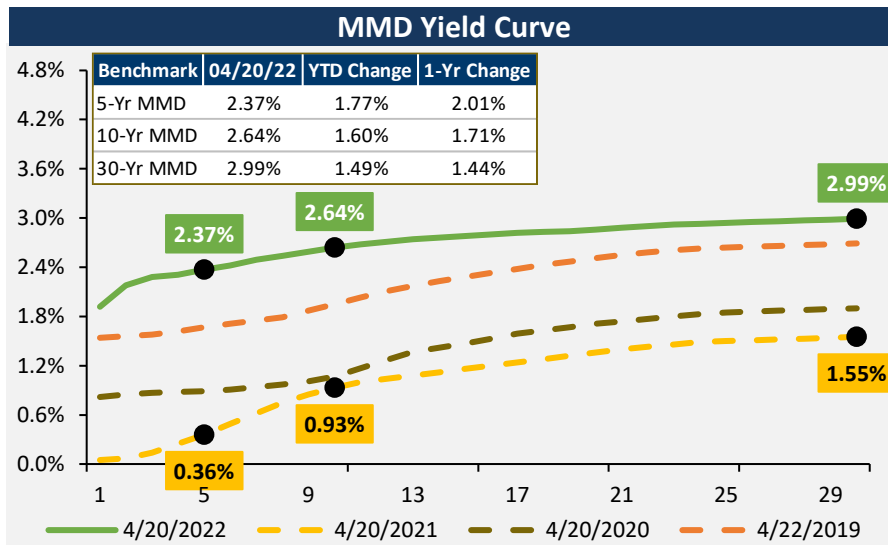
- Tax-exempt and taxable long-term interest rates have been increasing
 - Since January 2022
 - 30-year MMD has increased by 149 bps
 - 30-year Treasury has increased by 89 bps
 - After 3+ years of below average interest rates, we are above the 10-year average for long-term taxable and tax-exempt rates



Rates are Increasing and the Yield Curve is Flattening

- Short-term rates are increasing faster than long-term rates
 - The yield curve is flattening as short-term rates increase at a faster pace than long-term rates
 - Currently, taxable short-term rates are approximately the same as taxable long-term rates
- Drivers include real and perceived inflation, the Fed rate hike in March 2022 with more rate hikes expected, and geo-political risk factors, particularly with Russia's invasion of Ukraine
- Economic forecasts indicate continued rate hikes (market consensus is an increase of 175 bps by year-end)

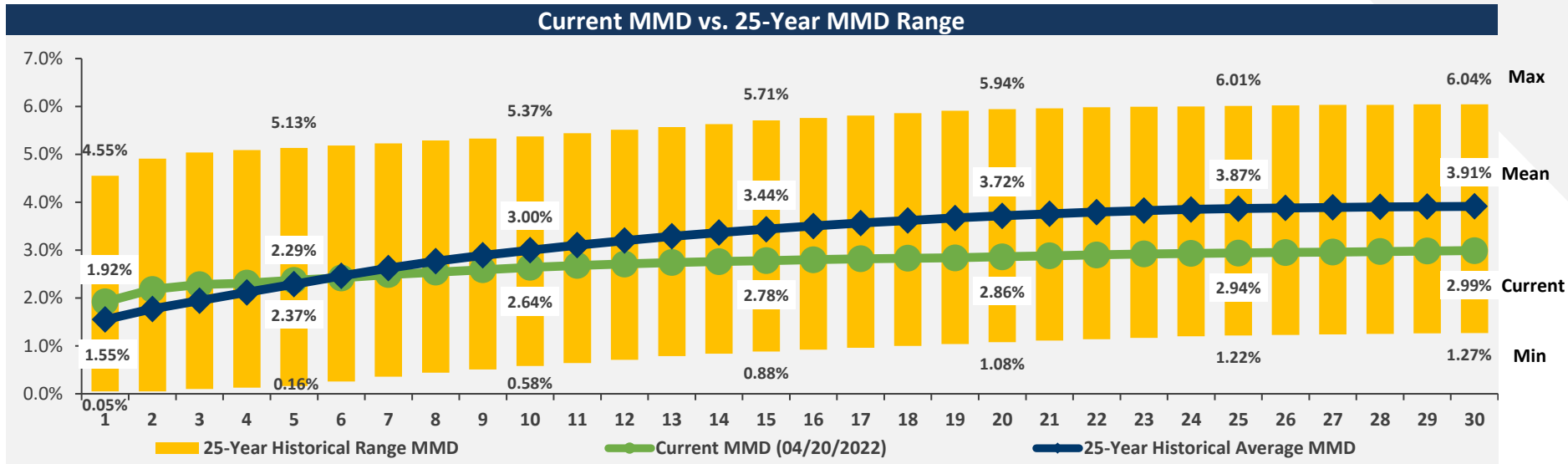
Tax-Exempt and Taxable Yield Curves Recent Trends



Source: Thomson Municipal Market Monitor and the U.S. Department of the Treasury, as of April 20, 2022.

However, Rates are Still Well Below Their 25-year Averages

- While rates have clearly increased, on a historic basis, long term interest rates are still in the bottom half when looking at a 25-year history
- As of April 20, the 30-year tax-exempt rate of 2.99% was 92 basis points below the 25-year average of 3.91%



Source: Thomson Municipal Market Monitor and the U.S. Department of the Treasury, as of April 20, 2022.

■ Melio & Company's Words of Wisdom:

- Don't try to outsmart the market, especially the bond market
- While rates may be trending up, it's difficult to predict what will happen in the future
 - Often what is known/expected is already reflected in today's rates
 - Long term fixed rates are still low relative to historic averages
 - Do you (borrower) have a strong view on the direction of rates?
- It is impossible to structure a perfect hedge and the closer we get to perfect, the more expensive the forward premium is
 - You can't eliminate all pricing risk
 - There is credit spread risk (which can reflect more than just "pure" credit)
- Are we trying to lock in savings through a refunding? If so, there may be more compelling reasons to hedge
- If new money, can we break the financing into multiple parts to achieve a semblance of a hedge, ie enter markets at different points?
 - We almost always recommend not hedging more than half of a bond issue
- Hedges are not free – there are fees, which are often obscure at best

Our Clients Are Asking: Should We Hedge?

- There's no perfect hedge...
 - The closer you get to perfect, the more you'll pay...

