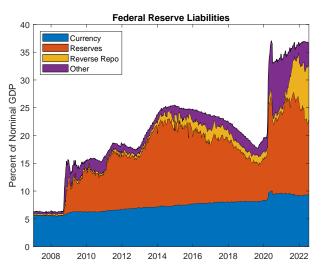
Comments on Shrinking the Federal Reserve Balance Sheet

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Fed Liabilities



NY Fed Proj Steady State:

Reserves: 8% Reverse Repo: 0%

Total: 22%

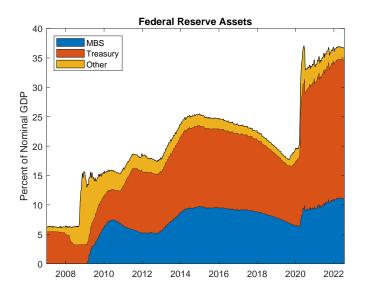
Chair Powell:

"2 to $2\frac{1}{2}$ years"

Ratchet Effect

- QE episodes don't get fully reversed
- Acharya (2022) has structural explanation

Fed Assets



Maturity of SOMA Treasuries

- Fed's convention has been to match WAM of marketable Treasuries
- WAM of SOMA Treasuries: 8.3 years
- WAM of marketable Treasuries: 6.2 years
- QT involves a policy of first redeeming coupons before bills which should bring WAM down

Likely scale of QT

- Pace about twice as fast as in 2017-2019
- \$1 trillion decline in SOMA Treasuries
- Some shortening of maturity of SOMA holdings
- Gradual move out of MBS that should continue even after balance sheet resumes growth
 - Direct MBS sales are distinctly possible

Channels of UMP

- Some emphasize broad channels in which MBS and Treasury purchases are fungible
- Others emphasize very local effects
- To me most of the evidence points in the direction of narrow channels:
 - Krishnamurthy and Vissing-Jorgensen (2011), Joyce et al. (2011), D'Amico et al. (2012), Di Maggio et al. (2020), Lucca and Wright (2021)
- May expect QT to have local effects

Effects of QT

- QT is not simply the opposite of QE
 - No signalling implications
 - No promise that more will be done if needed
 - No disrupted asset markets
 - Away from the ZLB (Gagnon and Jeanne (2022))

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 - No signalling implications
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 - Away from the ZLB (Gagnon and Jeanne (2022))
- Impacts are hard to identify
- Think of Treasury QT as equivalent to increase in amount and WAM of Treasury issuance pre ZLB

- Regress 10Y term premium on maturity-weighted GDP with pre ZLB data (1961-2007)
 - ► Similar exercise to Greenwood and Vayanos (2014)
- A 1 unit increase in maturity weighted debt-to-GDP increases term premium by 33bps
- Robust to IV strategy

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 - ► Similar exercise to Greenwood and Vayanos (2014)
- A 1 unit increase in maturity weighted debt-to-GDP increases term premium by 33bps
- Robust to IV strategy
- ullet QT is plausibly about a 0.7 increase in MWD/G ightarrow 25 bp increase in term premia
- Crawley et al. (2022) estimate a 50 bp increase
 - They assume a larger QT



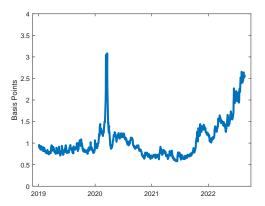
Broader effects

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- Caveats:
 - ▶ TIPS might be more affected, distorting breakevens
 - ► Treasury market liquidity might be hurt
 - Effects of MBS sales

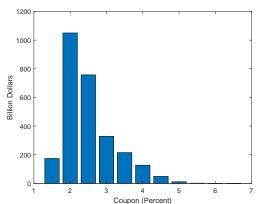
Measure of Treasury Liquidity: Mean Abs Pricing Error





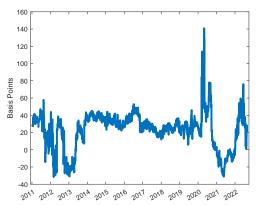


SOMA MBS holdings by coupon



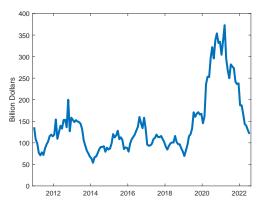
Source: NY Fed. As of Aug 24.

MBS Option Adjusted Spread (Current Coupon: Fannie Mae)





Agency Gross MBS Issuance



Source: Bloomberg

How much *should* balance sheet shrink?

- Arguments for scarce/ample reserves
 - ▶ Nelson (2019); Fisher (2019)
 - ▶ Bush et al. (2019); Copeland, Duffie and Yang (2021); Greenwood, Hanson and Stein (2016); McAndrews and Kroeger (2016)