Stablecoins and safe asset prices*

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Abstract

This paper examines the impact of dollar-backed stablecoin flows on short-term US Treasury yields using daily data from 2021 to 2025. Estimates from instrumented local projection regressions suggest that a 2-standard deviation inflow into stablecoins lowers 3-month Treasury yields by 2-2.5 basis points within 10 days, with limited to no spillover effects on longer tenors. The effects are asymmetric (stablecoin outflows raise yields by two to three times as much as inflows lower them) and have strengthened over time with the growth of the market. Decomposing the yield impact by issuer shows that USDT (Tether) has the largest contribution followed by USDC (Circle), consistent with their relative size. Our results highlight stablecoins' growing footprint in safe asset markets, with implications for monetary policy transmission, stablecoin reserve transparency, and financial stability.

JEL classification: E42, E43, G12, G23.

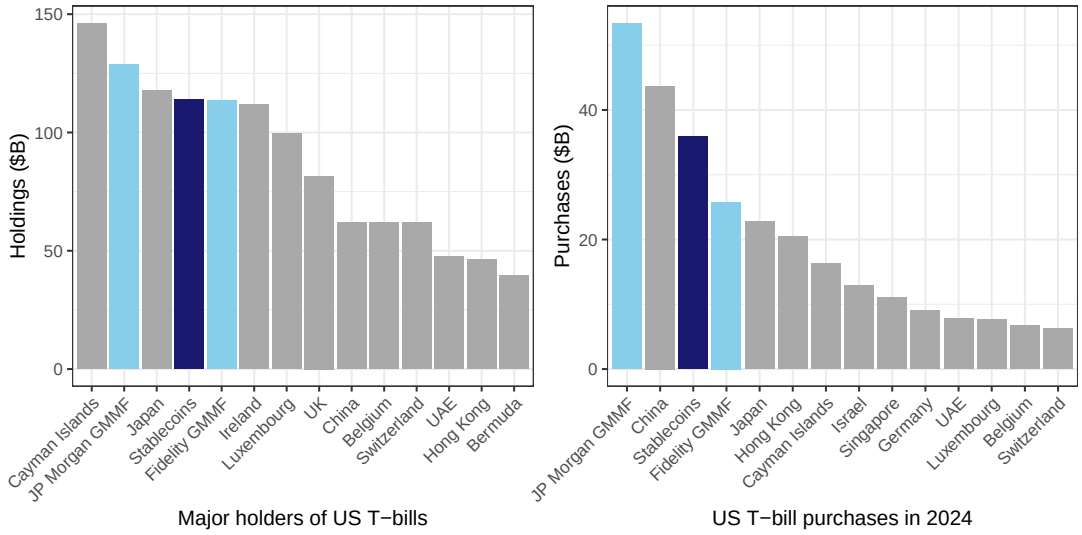
Keywords: stablecoins, Treasury securities, financial stability, safe assets.

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1 Introduction

Dollar-backed stablecoins have seen remarkable growth and are poised to reshape financial markets. As of March 2025, the combined assets under management of these cryptocurrencies promising par convertibility to the US dollar and backed by dollar-denominated assets exceeded $200 billion (B), with reserve positions in US Treasury bills (T-bills) of $114 billion, surpassing the holdings of some major foreign investors and domestic money funds (Figure 1, left-panel). Stablecoin issuers, notably Tether (USDT) and Circle (USDC), back their tokens primarily with US T-bills and money market instruments, positioning them as significant players in short-term debt markets.[1] Indeed, dollar-backed stablecoins purchased over $35B of US T-bills in 2024, similar to the largest US government money market funds and larger than most foreign purchases (Figure 1, right-panel). While prior research focuses on stablecoins' role in cryptocurrency volatility (Griffin and Shams, 2020), their impact on commercial paper markets (Barthelemy et al., 2023) or their systemic risks (Bullmann et al., 2019), their interaction with traditional safe asset markets remains underexplored.

Figure 1: Stablecoin issuer holdings and purchases of US T-bills relative to other holders



Note: Foreign country and government money market fund (GMMF) holdings as of January 2025. Stablecoin holdings is the sum of USDT and USDC T-bill positions as of December 2024 including indirect exposures from MMFs. Data are from US Treasury TIC, OFR, and USDT and USDC reserve reports.

[1] According to their December 2024 reserve disclosures, Tether and Circle held about 69% and 44% of their reserves in US T-bills, respectively.

This paper investigates whether stablecoin flows exert measurable demand pressures on US Treasury yields. We document two key findings. First, stablecoin flows compress short-term T-bill yields, with effects comparable to that of small-scale quantitative easing on long-term yields.[2] In our most stringent specification, which aims to overcome endogeneity concerns by using a series of crypto shocks that affect stablecoin flows but not Treasury yields directly, we find that 5-day stablecoin inflows of $3.5B, or 2 standard deviations, lower 3-month T-bill yields by about 2-2.5 basis points (bps) within 10 days. Second, we decompose yield impacts into issuer-specific contributions to find that USDT has the largest contribution to T-bill yield compression, followed by USDC. We discuss the policy implications of our findings for monetary policy transmission, stablecoin reserve transparency, and financial stability.

Our empirical analysis is based on daily data from January 2021 to March 2025. To construct a measure of stablecoin flows, we collect market capitalization data for the six largest dollar-backed stablecoins and aggregate them into a single number.[3] We then use 5-day changes in aggregate stablecoin market capitalization as our proxy for inflows into stablecoins. We collect data on the US Treasury yield curve, as well as data on cryptocurrency prices (Bitcoin and Ether). We choose the 3-month Treasury bill yield as our outcome variable of interest as the largest stablecoins have either disclosed or publicly stated this tenor as their preferred habitat.

A simple univariate local projection of changes in 3-month T-bill yields on 5-day stablecoin flows is likely subject to severe endogeneity bias. Indeed, estimates from this 'naïve' specification suggest that a $3.5B inflow into stablecoins is associated with 3-month T-bill yields declining by up to 25 bps within 30 days. The magnitude of this impact is implausibly large, as it suggests that a 2-standard deviation inflow into stablecoins has a similar impact on short-term interest rates as a Federal Reserve policy rate cut. We argue that these large estimates can be explained by the presence of endogeneity that biases the estimates downward (i.e., larger negative estimates relative to the true effect), due to both omitted variable bias (as potential confounders are not controlled for) and simultaneity bias (as Treasury yields may affect flows into stablecoins).

[2] See for example Krishnamurthy and Vissing-Jorgensen (2011) and D'Amico and King (2013).

[3] In addition to USDT and USDC, this includes TrueUSD (TUSD), Binance USD (BUSD), First Digital USD (FDUSD), and PayPal USD (PYUSD).

To overcome endogeneity concerns we first extend the local projection specification to control for the US Treasury yield curve along with cryptoasset prices. These controls enter as two sets. The first set includes forward changes (t to $t+h$) in US Treasury bill yields of maturities other than 3 months. We control for the forward evolution of the bill yield curve in order to isolate the impact of stablecoin flows on 3-month yields *conditional* on yield changes of proximate maturities over the same local projection horizon. The second set of control variables condition on 5-day changes ($t-5$ to t) in Treasury bill and bond yields and cryptoasset prices to control for a variety of financial and macro conditions that may be correlated with stablecoin flows. After introducing these control variables, the local projections estimate a 2.5 to 5 bp decline in T-bill yields following a $3.5B inflow into stablecoins. These estimates are statistically significant yet almost an order of magnitude smaller than the 'naïve' estimates. The attenuation of the estimates is consistent with our expectations of the sign of the endogeneity bias.

In a third specification, we further sharpen identification with an instrumental variable (IV) strategy. Following Aldasoro et al. (2025), we instrument 5-day stablecoin flows with a series of crypto shocks constructed from the unforecastable component of cryptoasset returns, based on the Bloomberg Galaxy Crypto Index. We use the cumulative sum of the crypto shock series as our instrument to capture idiosyncratic but persistent crypto market booms and busts. First-stage regressions of 5-day stablecoin flows on cumulative crypto shocks satisfy the relevance condition, and show that stablecoins tend to receive significant inflows during crypto market booms. We argue that the exclusion restriction is satisfied because idiosyncratic crypto booms are sufficiently isolated as to not meaningfully impact Treasury market pricing – except through flows into stablecoins, that issuers use to purchase Treasuries.

Our IV estimates suggest that a $3.5B inflow into stablecoins lowers 3-month T-bill yields by 2-2.5 basis points. These results are robust along a number of dimensions. First, they hold if we use measures of stablecoin flows constructed from blockchain-level minting and burning instead of market capitalization data. Results become in fact quantitatively slightly stronger if we alter the set of controls by focusing on tenors that are less correlated with 3-month yields. The results also persist after explicitly conditioning on 3-month T-bill supply dynamics. In additional analyses, we explore spillover effects of stablecoin flows into other Treasury yield tenors, and find very limited evi-

dence: 6-month, 1-year, 2-year and 5-year yields do not meaningfully react to instrumented stablecoin flows, whereas the 1-month yield exhibits some effect (albeit measured imprecisely) and the 10-year tenor shows some effects after about 20 days.

Our baseline results likely represent a lower bound, as they do not distinguish between the potential for asymmetric effects nor a strengthening in recent periods as the market boomed. In principle, the effect of stablecoin inflows and outflows could be asymmetric, since the former allows issuers some discretion in timing their purchases whereas no such leeway exists under stressed market conditions. When we allow the estimates to differ between inflow and outflow conditions, we indeed find that outflows have a quantitatively larger impact on yields than inflows (+6-10 bps versus -3-4 bps, respectively). We also find that the effects of stablecoin flows on T-bill yields strengthened since the beginning of 2024 when stablecoins entered a growth regime, both quantitatively (around 7 bps) and also becoming more precisely estimated.

Finally, based on our IV strategy and baseline specification, we also decompose the estimated yield impact of stablecoin flows into issuer-specific contributions. We find that USDT flows have the largest average contribution, of about 70%, while USDC flows contribute around 19% to the estimated yield impact. Other stablecoin issuers contribute the rest (around 11%). These contributions are qualitatively proportional to issuer size.[4]

Our findings have important implications for policy, not least if the stablecoin market continues to grow.[5] Concerning monetary policy, our yield impact estimates suggest that if the stablecoin sector continues to grow rapidly, it may eventually affect the pass-through of monetary policy to Treasury yields. Stablecoins' growing footprint in Treasury markets may also contribute to safe asset scarcity for non-bank financial institutions, potentially affecting the liquidity premium (D'Avernas and Vandeweyer, 2024). Concerning stablecoin regulation, our results highlight the importance of transparent reserve disclosures that allow for the effective monitoring of concentrated stablecoin re-

[4] As of March 2025, USDT is the largest stablecoin in circulation at $140B, holding 69% of their reserves in T-bills. USDC has a market cap of about $50B with 44% of their reserves in T-bills.

[5] A recent report by Citigroup for example estimates that the stablecoin market may grow to $1.6 ($3.7) trillion in a base (bull) case by 2030. The Treasury Borrowing Advisory Committee estimates a potential for $2 trillion market capitalization by 2028.

serve portfolios. Finally, our results can be interpreted as evidence of stablecoins creating a bridge through which shocks to the cryptocurrency ecosystem transmit to traditional financial markets.

There are potential financial stability implications that arise when stablecoins become large investors in Treasury markets. For one, it exposes the market to potential fire sales in the event of a run on a major stablecoin. Indeed, our estimates suggest that such asymmetric effects are already measurable. The magnitude of our estimates is likely to be a lower bound of potential fire sale effects, as they are obtained from a sample largely based on a growing market and thus likely underestimate the potential for non-linear effects under severe stress. Moreover, part of the investments of stablecoins themselves for example through reverse repo agreements backed by Treasury collateral may facilitate arbitrage strategies such as the Treasury basis trade, a first order concern for regulators.[6] Equity and liquidity buffers may alleviate some of these financial stability risks (Goel et al., 2025; Liao et al., 2024).

Related literature. Our work relates to research on the demand for safe assets. Krishnamurthy and Vissing-Jorgensen (2012) show that demand for liquidity and safety suppresses Treasury yields. Lower short-term rates may in turn incentivize the issuance of risky short-term debt, potentially undermining financial stability (Greenwood et al., 2015). Doerr et al. (2023) present evidence that money market funds (MMFs) can influence the price of near-money assets such as repos and Treasuries. Foreign demand has also been shown to affect Treasury yields (Ahmed and Rebucci, 2024). Stablecoins, whose balance sheets look very similar to those of MMFs, may contribute to such effects, but their marginal impact remains unquantified despite their growing role in the market.

Moreover, we contribute to a growing body of work on stablecoins. Much of this literature studies stablecoin stability (Arner et al., 2020; D'Avernas et al., 2023; Lyons and Viswanath-Natraj, 2023; Kosse et al., 2023), adoption (Bertsch, 2023), runs (Ahmed et al., 2025; Gorton et al., 2022) and market structure (Ma et al., 2023), among others. Closer to our paper, Barthelemy et al. (2023) and Kim (2025a) study the effect of stablecoin investments in the commercial pa-

[6]This could materialize, for example, through money market funds managing stablecoins' cash reserves. Money market funds' cash lending in sponsored repo mirrors the short positions on Treasury futures by hedge funds (Aldasoro and Doerr, 2023, 2025), a tell-tale sign of the scope of such arbitrage strategies.

per market. Our paper focuses instead on the reserve asset that has come to dominate major stablecoins' reserves, namely Treasury securities. In a contemporaneous paper, Kim (2025b) presents evidence of the effect of Tether minting on Treasury exchange-traded funds and use a macro-finance model to argue for a potential non-linear effect of stablecoins on the Treasury market if the former were to grow substantially.

Roadmap. The rest of the paper is structured as follows. Section 2 presents the data sources and methodology, and discusses the biases present in a simple estimation of the effect of stablecoin flows on Treasury yields. Section 3 discusses how to deal with these biases and presents our main results. Section 4 discusses magnitudes, mechanisms, policy implications, and limitations. Finally, Section 5 briefly concludes.

2 Data and methodology

2.1 Data sources

We base our analysis on data at the daily frequency from January 2021 to March 2025, from various sources. First, we collect market capitalization data from CoinMarketCap on six USD-backed stablecoins: USDT, USDC, TUSD, BUSD, FDUSD, PYUSD. We aggregate across these stablecoins to arrive at a measure of aggregate stablecoin market capitalization, and then compute its 5-day change.[7] For robustness, we also collect mint and burn data from blockchain-level stablecoin transactions to validate our baseline measure of aggregate stablecoin flows: we use data from Ethereum (for USDT, USDC, TUSD, BUSD and PYUSD), and Tron and Omni (for USDT).[8] We collect daily prices for Bitcoin and Ether, the two largest cryptocurrencies, from Yahoo Finance. We source daily series of US market interest rates across the US Treasury yield curve from FRED. We consider the following maturities: 1-month, 3-month, 6-month, 1-year, 2-year, and 10-year. Table 1 reports summary statistics.[9] Data on T-bill supply, measured using US Treasury auction issuance, are

[7] We also report the five-day change separately for USDC and USDT, as we also use them separately in parts of our analyses.

[8] We could not obtain data for FDUSD.

[9] We also collected additional data to compare the size and growth of stablecoins against other sectors (see Figure 1). Data on foreign holders and purchases of US money market se-

obtained from the US Department of the Treasury.

As part of our identification strategy, we also use a daily version of the crypto shock series proposed in Aldasoro et al. (2025). Crypto shocks are computed as the unforecastable component of the Bloomberg Galaxy Crypto Index (BGCI), an index that captures broad crypto market developments (we provide more details on the crypto shocks below).

Table 1: Summary statistics

Variable	T	Mean	St. Dev.	Min	Max
5-day stablecoin flow ($B)	1,091	0.812	1.747	−4.019	11.539
5-day USDT flow ($B)	1,091	0.555	1.202	−8.684	5.308
5-day USDC flow ($B)	1,091	0.247	1.148	−6.533	7.716
1-month US yield (%)	1,046	3.105	2.343	0.000	6.020
3-month US yield (%)	1,046	3.214	2.302	0.010	5.630
6-month US yield (%)	1,046	3.276	2.218	0.020	5.610
1-year US yield (%)	1,046	3.224	2.061	0.040	5.490
2-year US yield (%)	1,046	3.115	1.800	0.090	5.190
10-year US yield (%)	1,046	3.212	1.176	1.040	4.980
Bitcoin price ($)	1,091	45,230.03	21,628.71	15,787.28	106,146.30
Ether price ($)	1,091	2,429.25	860.46	1,038.19	4,812.08

Note: Daily data ranging from January 8, 2021 to March 14, 2025. Cryptocurrency data feature a larger sample size because they are also observed over weekends. Stablecoin flows are the sum the flows from the following six dollar-backed stablecoins: USDT, USDC, TUSD, BUSD, FDUSD, and PYUSD. US yields refer to US Treasury securities. Flows are calculated as the 5-day change in stablecoin market capitalization.
Sources: CoinMarketCap, FRED, Yahoo Finance.

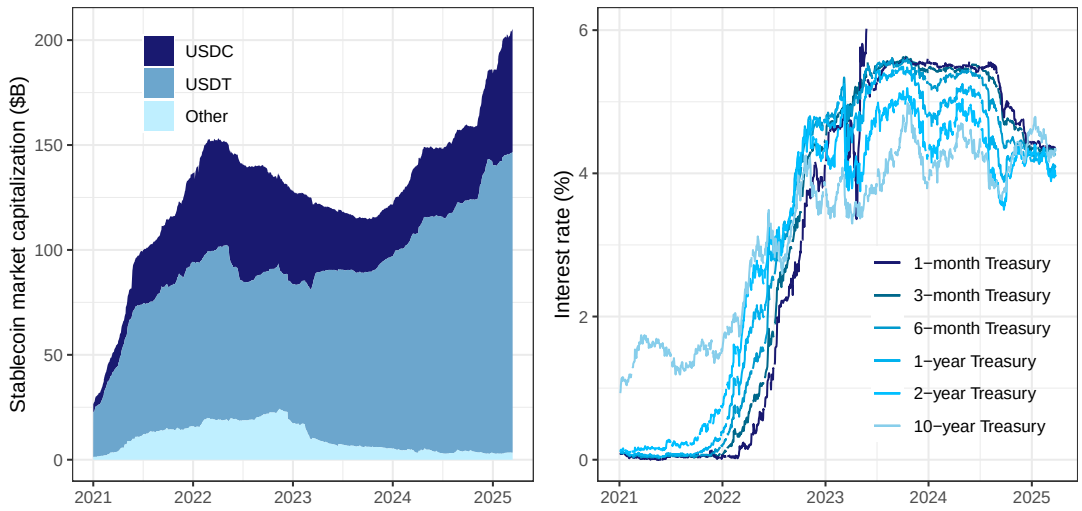
Figure 2 shows USD-backed stablecoin market capitalization and US Treasury yields over the sample period. Since the second half of 2023 stablecoin market capitalization has been on the rise, with a notable increase in early and late 2024. The sector is very highly concentrated. The two largest stablecoins (USDT and USDC) account for over 95% of outstanding amounts. Treasury yields in our sample capture both the hiking cycle as well as the pause and subsequent easing period that began around mid-2024. The sample period also covers an episode of a clear curve inversion, as seen most notably through the dark blue line going from the bottom to the top of the yield complex.

2.2 Variable construction

We seek to estimate the effect of stablecoin flows on short-term Treasury yields. To this end, we use the market capitalization variable to compute a 5-day stablecoin flow measure as the difference in market capitalization, in order to

curities, including T-bills, come from the Treasury International Capital (TIC) database. Data on US government money market funds are from the Office of Financial Research (OFR).

Figure 2: Stablecoin market capitalization and US Treasury yields



Note: The left-panel plots the daily market capitalization of six USD-backed stablecoins: USDT and USDC, with 'Other' containing the sum of TUSD, BUSD, FDUSD, and PYUSD. The right-panel plots daily US Treasury yields for several maturities.

capture weekly liquidity movements:

$$Flow(5d)_t = MC_t - MC_{t-5}, \tag{1}$$

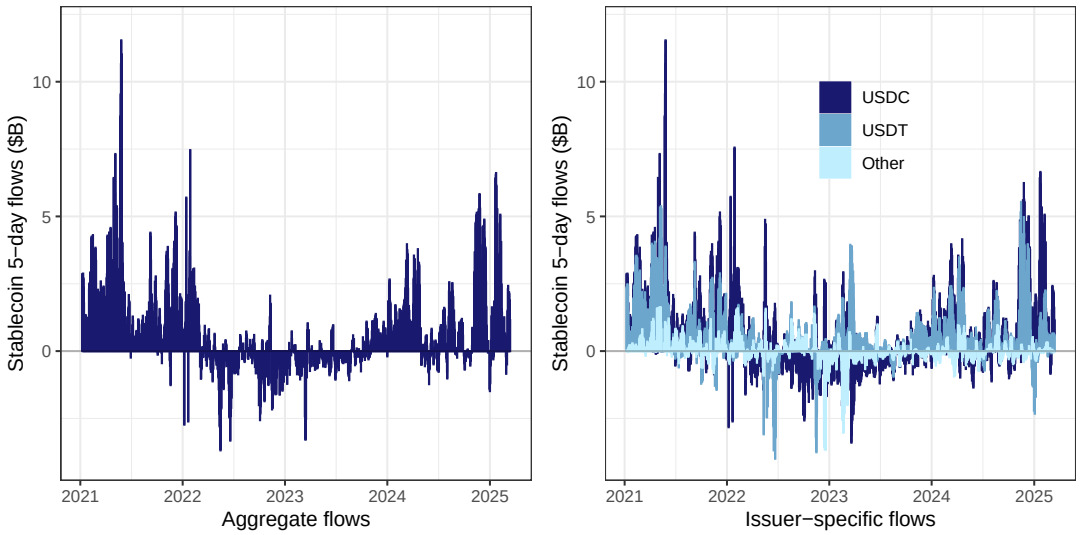
where MC_t is stablecoin market capitalization on day t. Note that MC_t can be expressed as the product of the stablecoin price and outstanding supply: $P_t \times S_t$, where flows are inferred from changes in S_t. Therefore, Equation (1) makes the simplifying assumption that stablecoins maintain their peg of $P_t = \$1 \; \forall \; t$. Empirically, these USD-backed stablecoins have maintained relatively tight pegs over time, with a few exceptions of substantial peg deviations that have typically been short-lived (most notably the de-peg of USDC around the collapse of Silicon Valley Bank in March 2023).[10]

Figure 3 plots $Flow(5d)_t$ over the sample period along with flow measures for USDT and USDC. Stablecoin flows are positive on average during the sample period, with average 5-day flows of \$0.82B. They are also highly volatile, with a standard deviation of \$1.747B. The right-panel of Figure 3 shows that

[10] As mentioned above, we validate our measure of stablecoin flows using blockchain-level transaction data. We find that aggregate stablecoin supply constructed from blockchain minting and burning has a correlation greater than 0.99 with the measure based on market capitalization. We show that our main results are robust to using either approach to measure flows.

the largest contributors to total stablecoin flows are USDT and USDC – the largest USD-backed stablecoins with a market capitalization exceeding $140B and $55B respectively as of March 2025.

Figure 3: 5-day aggregate and issuer-specific stablecoin flows



Note: The left-panel plots aggregate 5-day stablecoin flows ($Flow(5d)_t$) of six USD-backed stablecoins. The right-panel plots issuer-specific $Flow(5d)_t$ for USDT and USDC, with 'Other' containing the sum of TUSD, BUSD, FDUSD, and PYUSD flows.

2.3 Stablecoin flows, T-bill yields and endogeneity

Our analysis investigates the relationship between stablecoin flows and US T-bill yields. As our benchmark outcome variable, we consider the 3-month T-bill yield for two reasons. First, this is likely to be the most representative tenor for the preferred habitat of stablecoin issuers.[11] Second, because this tenor is the most liquid and widely quoted among short-term Treasuries.

We begin by providing a simple univariate local projection specification, to help illustrate the estimation biases that need to be considered:

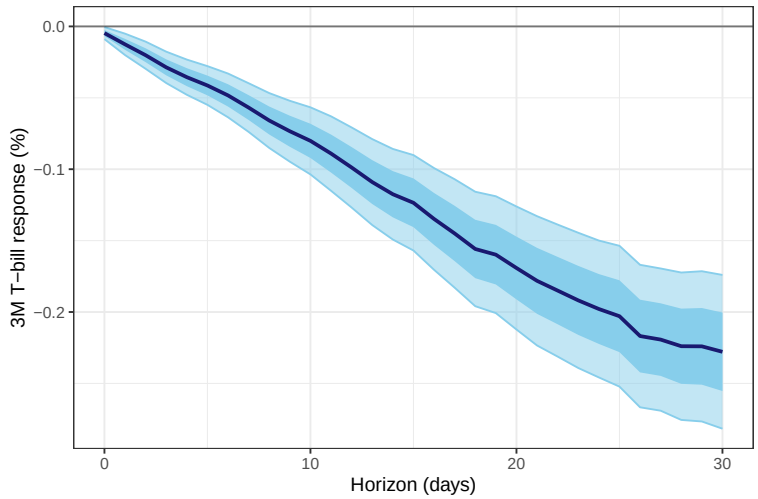
$$y^{3M}_{t+h} - y^{3M}_{t-1} = \alpha_h + \beta_h Flow(5d)_t + e_{t+h}, \qquad h = \{0, ..., 30\}, \tag{2}$$

which provides a sequence of β_h estimates that trace the raw impulse response

[11] USDC reserve disclosures provide securities positions at the CUSIP level and rarely report holdings with maturities beyond three months. While USDT's reserve disclosures are less transparent, Tether's CEO has publicly stated that the issuer focuses on T-bill investments maturing no later than 90 days; see for example the interview in the Odd Lots podcast.

function (IRF) of 5-day stablecoin flows, $Flow(5d)_t$, on h-day changes in 3-month T-bill yields, $y^{3M}_{t+h} - y^{3M}_{t-1}$, absent any controls. In our setting, local projections are advantageous over standard regression models because they allow for asynchronous effects of flows on yields. Such effects could arise due to stablecoin issuers minting coins in advance before circulating them.[12] Asynchronous effects could also arise if stablecoin issuers facing inflows choose to re-allocate these proceeds from cash or bank deposits to T-bills with a lag. Figure 4 reports the IRF, with estimates scaled to a $3.5B stablecoin inflow (approximately 2 standard deviations).

Figure 4: IRF of $3.5B stablecoin inflow on 3-month T-bill yields (no controls)



Note: IRF estimate produced from local projection specified in Equation (2). A $3.5B inflow is approximately a 2-standard deviation flow. Darker and lighter shaded regions correspond to 68% and 95% Newey-West confidence bands, respectively.

The local projection estimates suggest that a $3.5B inflow into stablecoins is associated with 3-month T-bills compressing up to 25 bps over the following 30 days. These estimates are implausibly large, as they imply an impact on short-term yields similar to that of a Federal Reserve interest rate cut.

The large estimates are likely explained by the presence of endogeneity. Endogeneity from simultaneity, for example, may be at play. Because stablecoins pay zero interest, the opportunity cost of holding them increases with interest rates. As a result, it is possible for high interest rates to negatively im-

[12]Tether has publicly disclosed its practice of advanced minting. One instance occured in July 2025 when Tether minted $1 billion on both Ethereum and Tron. The CEO clarifying that these coins were minted in advance but were not yet circulating, because they anticipated increased demand.

pact stablecoin flows and for large stablecoin flows to negatively impact interest rates at the same time. Left unaddressed (as in Figure 4) and under simple but plausible assumptions, such simultaneity biases the IRF estimates downward, making them larger and more negative than the true effect of flows on yields.[13] The lag structure of the local projection specification in Equation (2) may alleviate some simultaneity concerns, but it cannot eliminate it on its own because of the forward-looking nature of financial markets. Moreover, because stablecoin flows do not occur in a vacuum, it is possible that the IRF estimates in Figure 4 are also subject to endogeneity from omitted variable bias. For example, macroeconomic conditions can jointly impact the demand for cryptocurrencies and stablecoins while also impacting Treasury yields.[14]

3 The effect of stablecoin flows on Treasury yields

We next present our empirical strategy to address the sources of endogeneity discussed above. This helps us sharpen our estimates of the effect of stablecoin flows on T-bill yields.

3.1 Extended local projection regressions

First, we extend Equation (2) to a local projection specification with controls:

$$y^{3M}_{t+h} - y^{3M}_{t-1} = \alpha_h + \beta_h Flow(5d)_t + \sum_{k \in K} \gamma_h [y^k_{t+h} - y^k_{t-1}] + \sum_{p \in P} B^p_h X(5d)_{p,t} + e_{t+h}, \quad (3)$$

[13] See Ahmed and Rebucci (2024) for an in-depth analysis of signing the bias when estimating the flow effect on Treasury yields.

[14] E.g., inflation reduces the real return to holding stablecoins and typically pushes nominal Treasury yields higher. For evidence of how stablecoins react to monetary policy shocks, see Aldasoro et al. (2025). On the macroeconomic drivers of of cryptocurrency adoption, see Ahmed et al. (2024). For a discussion of how adoption of crypto and stablecoins depends on Bitcoin prices (and how retail investors chase past returns), see Auer et al. (2025).

where

$$\sum_{p \in P} B_h^p X(5d)_{p,t} =$$
$$\sum_{k' \in P} B_h^{k'} [y_t^{k'} - y_{t-5}^{k'}] + B_h^0 [\ln BTC_t - \ln BTC_{t-5}] + B_h^1 [\ln ETH_t - \ln ETH_{t-5}],$$

with $h = \{0, ..., 30\}$, $k = \{6M, 1Y\}$, and $k' = \{1M, 3M, 6M, 1Y, 2Y, 10Y\}$.

As specified, Equation (3) introduces two sets of control variables. The first controls for the forward evolution of money market yields aside from the 3-month yield. Specifically, we control for proximate, but potentially *untreated* bill tenors: the 6-month and 1-year yield. These maturities are close to the 3-month tenor, but they likely fall outside the preferred habitat of stablecoin issuers.[15] Therefore, estimates of β_h would now be interpreted as the effect of stablecoin flows on 3-month T-bill yields in excess of changes to T-bill yields of proximate maturities.

The second set of control variables condition on 5-day changes in interest rates (including both T-bill and T-bond yields) and crypto asset prices. We do this to further isolate the plausibly exogenous component of 5-day stablecoin flows that are unrelated to changing macro-financial and crypto market conditions over the same 5-day period. We include a wide range of Treasury yields to control for macro-financial conditions, and we include Bitcoin and Ether prices to control for crypto market conditions. Macro-financial conditions can impact stablecoins directly, because interest rate changes affect the opportunity cost of holding stablecoins, and indirectly by affecting aggregate demand and risk appetite. Cryptocurrency booms and busts, which are functions of a host of endogenous factors, can influence demand for stablecoins because stablecoins facilitate crypto market activity.

3.2 Exploiting variation in cryptoasset booms and busts

While carefully selected controls may help reduce endogeneity bias in β_h, it's unlikely that they fully eliminate it. Therefore, in addition to introducing controls, we consider an instrumental variable (IV) for $Flows(5d)_t$ in Equation (3) using a measure of plausibly exogenous variation in cryptocurrency prices.

[15] The current draft of the GENIUS Act restricts reserve positions in Treasury securities to those maturing in 93 days or less.

We construct a daily version of the crypto shocks in Aldasoro et al. (2025). This shocks series is constructed as the unforecastable component of the Bloomberg Galaxy Crypto Index (BCGI).[16] Concretely, we purge financial market developments from the BGCI through the elastic net, a simple supervised learning algorithm. We estimate the following model:

$$\min_{\beta_0,\beta} \left[\frac{1}{2N} \sum_{t=1}^{N} \left(S_t - \beta_0 - X_t^T \beta \right)^2 + \lambda P_\alpha (\beta) \right], \tag{4}$$

with the penalization function:

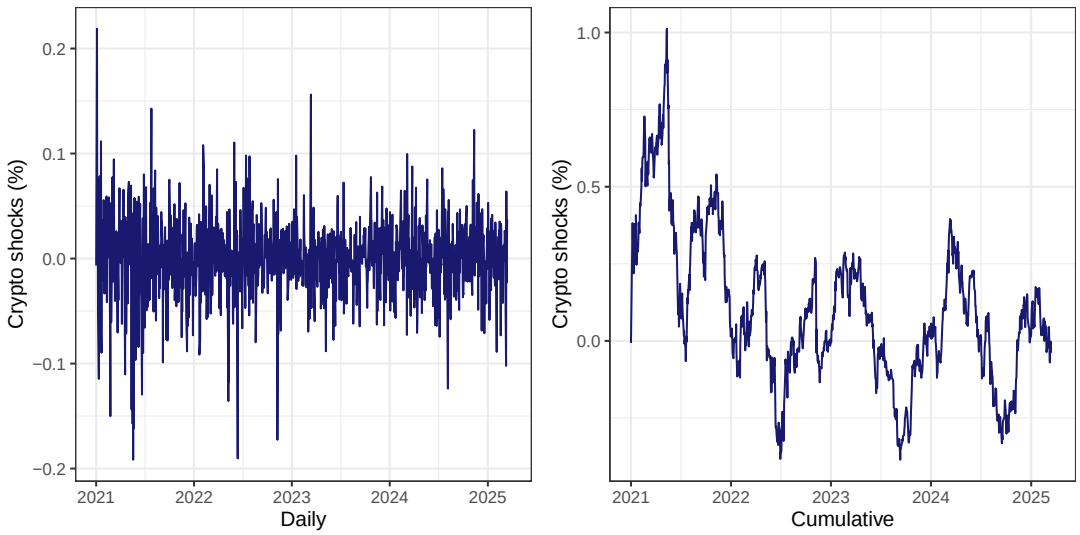
$$P_\alpha (\beta) = \frac{(1-\alpha)}{2} ||\beta||^2 + \alpha ||\beta||. \tag{5}$$

in Equation (4), S_t is the (log) change in the index at week t and X a matrix of candidate controls including the contemporaneous and lagged values of: the change in the US 3-month yield, the (log) gold price, the Citigroup economic surprise index, the (log) of the VIX, the (log) of the oil price, the (log) of the US dollar nominal effective exchange rate (NEER), the (log) of the S&P 500 and the term spread. We also include the lag of the (log) change in the BGCI. β_0 is the loading of the constant and β is a vector of loadings for each variable in X, whereas α and λ are scaling parameters that govern the size of the penalty for including more regressors. We estimate Equation (4) following Zou and Hastie (2005) and Hastie et al. (2009). For further details, see Aldasoro et al. (2025).

Figure 5 presents the crypto shock series. The left-hand panel presents the daily series. As discussed in Aldasoro et al. (2025) (Appendix A), this series captures relevant events in crypto markets. The daily series, however, are inadequate for our purposes. The series is rather volatile, with little or no autocorrelation. These features suggest that the shocks are plausibly exogenous. But, if used in their raw form, they may not adequately reflect periods of persistent crypto booms and busts that are typically associated with large changes in the demand for cryptocurrencies and hence stablecoins (Adams et al., 2024). Moreover, lead-lag correlations between crypto shocks and stablecoin flows may be irregular and change over time. Therefore, it may be

[16] Importantly, the BGCI does not include stablecoins among its constituents. See the documentation page and the Bloomberg Galaxy Crypto Index factsheet for more information on the BCGI.

Figure 5: Daily and cumulative idiosyncratic cryptocurrency price shocks



Note: the left panel presents our raw crypto shock series, whereas the right panel presents the cumulative sum of the crypto shocks.

difficult to capture correlations between crypto shocks and stablecoin flows using the crypto shocks in raw form. The right-hand panel Figure 5 presents in turn a cumulative summed version of the crypto shocks.[17] The cumulative series does not exhibit trending behavior, while persistent booms and busts are clearly present.

These cumulative crypto shocks serve as a useful instrument for stablecoin flows because they satisfy both instrument relevance and exogeneity conditions. With regards to relevance, crypto shocks should be positively correlated with stablecoin flows because stablecoin demand is primarily linked to its use as a facilitator of cryptocurrency trading and decentralized finance (DeFi) activities. We show this statistically through a first-stage regression of stablecoin flows on cumulative crypto shocks, reported in Table 2. Column 1 reports the first stage regression using aggregate stablecoin flows, while columns 2 and 3 show that crypto shocks are significantly associated with issuer-specific flows of USDC and USDT, respectively. Overall, cumulative crypto shocks are significantly and positively correlated with stablecoin flows. The reported robust F statistics are generally large, indicating that the risk of a weak instrument is low. Notably, the sensitivity of USDT flows to crypto shocks is stronger than

[17] We choose to take the cumulative sum of crypto shocks due to the additive properties of log returns over multiple periods.

that of USDC flows (2.28 vs 0.61 and 0.365, respectively), consistent with the size difference between the stablecoin issuers. That said, the positive coefficients suggest that crypto shocks encourage inflows across stablecoin issuers, rather than merely reallocating flows between them. These results are consistent with cryptocurrency booms generating demand for stablecoins, as stablecoins facilitate cryptocurrency activities.

Table 2: First stage IV regressions of stablecoin flows on crypto shocks

	Dependent variable:			
	Aggregate $Flow(5d)_t$	USDC $Flow(5d)_t$	USDT $Flow(5d)_t$	Other $Flow(5d)_t$
	(1)	(2)	(3)	(4)
Intercept	0.479*** (0.063)	0.185*** (0.043)	0.322*** (0.050)	−0.028 (0.022)
Cumulative crypto shocks	3.261*** (0.254)	0.611*** (0.176)	2.286*** (0.167)	0.365*** (0.087)
Observations	1,091	1,091	1,091	1,091
Adjusted R^2	0.207	0.016	0.215	0.025
F Statistic	164.710***	11.962***	187.07***	17.337***

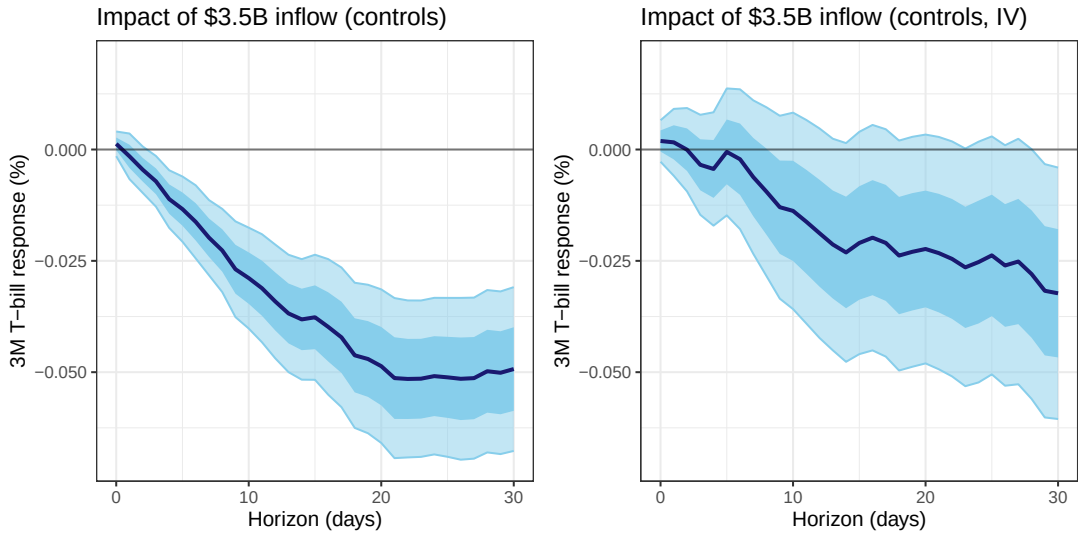
Note: Daily data. Aggregate stablecoin flows are the sum the flows from the following six dollar-backed stablecoins: USDT, USDC, TUSD, BUSD, FDUSD, and PYUSD. The series of crypto shocks are constructed as in Aldasoro et al. (2025). Newey-West standard errors with '*', '**', '***' referring to significance at the 10%, 5%, and 1% level, respectively. F-statistics are adjusted for heteroskedasticity and autocorrelation.

We argue that crypto shocks also satisfy the exogeneity condition. While the crypto market has grown to roughly $3 trillion as of 2024, it is still dwarfed by traditional financial markets, suggesting that shocks in cryptocurrency markets are unlikely to have a systemic impact in the market for US Treasuries, which stands at roughly $35 trillion. To further support the exogeneity condition, it is worth noting that these crypto shocks are constructed from the unforecastable component of cryptocurrency prices. Therefore, it is unlikely for these shocks to have any meaningful causal impact on Treasury bill pricing, *except* through the stablecoin demand channel.

3.3 Results

Figure 6 presents local projection IRFs after including controls (left-panel) and incorporating cumulative cryptocurrency price shocks as an IV (right-panel). After including controls, we estimate that a $3.5B aggregate stablecoin inflow compresses 3-month T-bill yields by about 2.5 bps within 10 days, and up to 5 bps within 20 days. The IV estimate suggests an impact of about 2-2.5 bps within 10 days and thereafter.

Figure 6: IRF of $3.5B stablecoin inflow on 3-month T-bill yields



Note: IRF estimate produced from local projection specified in Equation (3). A $3.5B inflow is approximately a 2-standard deviation flow. Darker and lighter shaded regions correspond to 68% and 95% Newey-West confidence bands, respectively. The right-panel instruments 5-day stablecoin flows in the local projection with a measure of idiosyncratic crypto price shocks.

Overall, the results point to substantially smaller effects when endogeneity concerns are addressed. Compared to Figure 4, the effect size is considerably attenuated after including controls, and it is further (if only slightly) attenuated after including the IV. This is consistent with our previous predictions on the sign of the bias when estimating β_h without controls or proper identification.

Additional analyses. To test the robustness of the stablecoin flows measure based on stablecoin market capitalization, we also construct a measure of stablecoin flows directly from blockchain transaction data. We use mint and burn data for the following stablecoins (and blockchains): USDT (Ethereum, Tron, Omni), USDC (Ethereum), TUSD (Ethereum), BUSD (Ethereum), and PYUSD (Ethereum). We calculate daily net stablecoin mints as the difference between gross mints and burns, aggregate them across stablecoins, and cumulate them over time to arrive at a measure of outstanding stablecoin supply. The correlation between this measure and our baseline indicator based on market capitalization is above 0.99. We then proceed to compute flows as the 5-day change. Figure 11 reproduces the baseline IRF results using this alternative measure of stablecoin flows. The estimated effects of stablecoin flows on 3-month yields are very similar to the baseline results of Figure 6.

One potential concern regarding our results is that the T-bill tenors we use as controls in Equation (3) are highly correlated with the dependent variable. We use an alternative specification where we only include the longer tenors as controls (2 and 10-year yields), i.e. $k = k' = \{2Y, 10Y\}$. Figure 12 in Appendix A presents the results for both non-instrumented and instrumented versions of this local projection. The IRFs are qualitatively similar in terms of direction, while the estimated coefficient size is stronger, i.e. more negative.

A second issue relates to whether effects on yields are limited to the tenor associated with stablecoin issuers' preferred habitat. We test the effects of stablecoin flows on other yields by replacing the 3-month yield as dependent variable in Equation (3) with yields of other maturities. For most tenors, we do not make any other regression specification changes. For the 6-month yield regression we need to remove the 6-month yield from the set of k controls, so $k = \{1Y\}$, and for the 1-year yield we remove the 1-year yield from the set of k controls, so $k = \{6M\}$. Figure 13 reports instrumented IRFs for the 1-month, 6-month, 1-year, 2-year, 5-year, and 10-year yield following a \$3.5B stablecoin inflow. The 1-month yield, which falls within the investment set for stablecoins, declines but the effect is statistically insignificant. There is little impact of stablecoin flows on all other yield tenors beyond 3-months, and we do not find any meaningful effect on 10-year yields over the first 10 to 15 days. These results are consistent with the impact of stablecoin flows being concentrated among T-bills within their preferred habitat, the securities that stablecoins directly purchase. The estimates point however to some impact on the 10-year yield after about 15-20 days, suggesting the possibility of some indirect spillover effects to select maturities.[18]

Equation (3) does not explicitly control for the supply of 3-month T-bills, under the assumption that the US Treasury issues debt in a predictable and inelastic manner. Under this assumption, controlling for T-bill quantities should not materially impact 3-month yields at a relatively high frequency (e.g. daily). However, the rapid growth of US debt and the rising cost of servicing that debt has investors paying greater attention to supply dynamics. Therefore as a robustness test, we estimate a set of local projection regressions that additionally control for 3-month T-bill issuance.

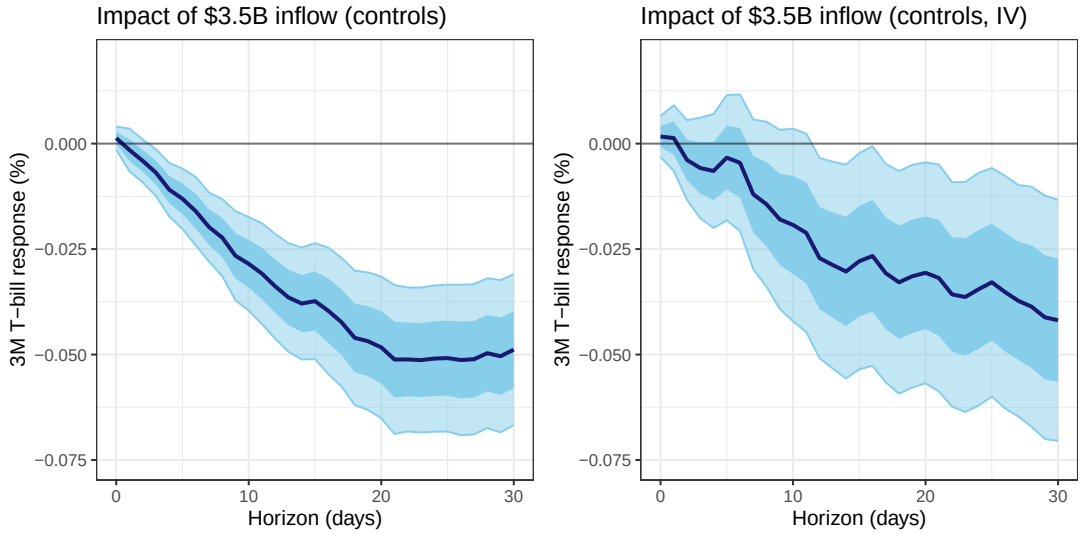
[18]One possible mechanism to explain the effect on 10-year yields is through stablecoin reverse repo positions collateralized with long-term Treasuries, although transparent data across stablecoin issuers is limited.

T-bills have auctions roughly once per week or two, so the daily frequency issuance data has several zeroes. To account for the high density of zeroes in the daily data, we estimate the following specification:

$$y^{3M}_{t+h} - y^{3M}_{t-1} = \alpha_h + \beta_h Flow(5d)_t + \sum_{k \in K} \gamma_h [y^k_{t+h} - y^k_{t-1}] + \sum_{p \in P} B^p_h X(5d)_{p,t} + \theta_{1h} Q^{3M}_t + \theta_{2h} \mathbf{1}_{[Q^{3M}_t > 0]} + e_{t+h}, \quad (6)$$

where Q_t is 3-month T-bill issuance in billions of USD, and $\mathbf{1}_{[Q^{3M}_t > 0]}$ is an indicator variable equal to 1 on days with positive 3-month T-bill issuance (i.e., issuance > 0) and 0 otherwise. Figure 7 reports the results, which are broadly similar to those in Figure 6 with the exception that the instrumented IRF is estimated more precisely and grows slightly larger in magnitude (roughly 3 to 4 bps impact on 3-month yields following a 2-standard deviation stablecoin inflow).

Figure 7: IRF of $3.5B stablecoin inflow on 3-month T-bill yields, controlling for 3-month T-bill issuance



Note: IRF estimate produced from local projection specified in Equation (6). A $3.5B inflow is approximately a 2-standard deviation flow. Darker and lighter shaded regions correspond to 68% and 95% Newey-West confidence bands, respectively. The right-panel instruments 5-day stablecoin flows in the local projection with a measure of idiosyncratic crypto price shocks.

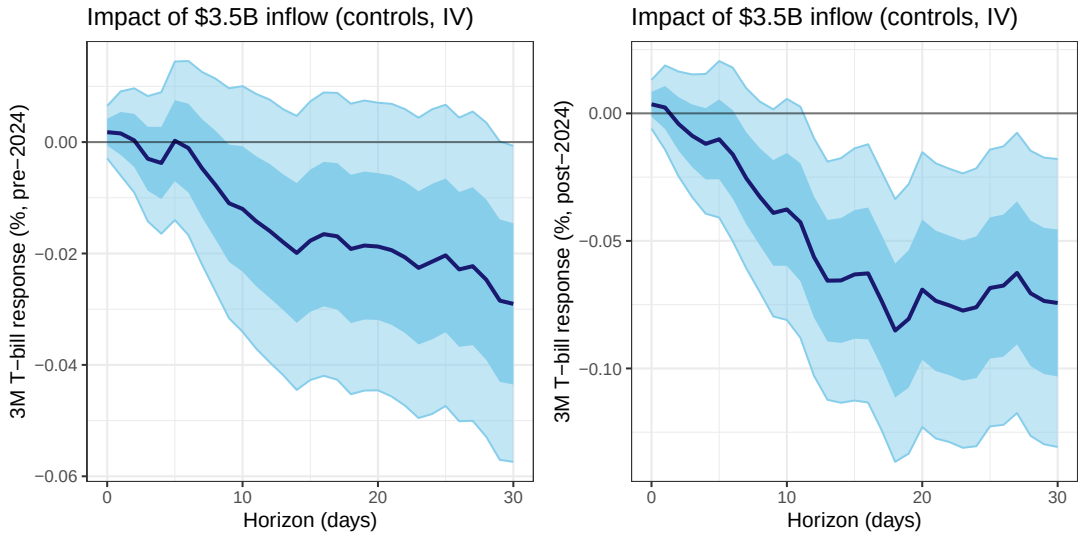
The effects of crypto shocks on T-bill yields via the stablecoin demand channel could become stronger as the stablecoin sector grows larger, so long as stablecoins continue to facilitate crypto market activity. To test for this, we modify Equation (3) to allow for differential impacts on 3-month T-bill yields

starting January 2024 onward, a period of robust stablecoin growth:

$$y^{3M}_{t+h} - y^{3M}_{t-1} = \alpha_h + \beta_{1h} IV_t + \beta_{2h} IV_t \mathbf{1}_{[\text{Date} \geq 1.1.2024]} + \sum_{k \in K} \gamma_h [y^k_{t+h} - y^k_{t-1}] + \sum_{p \in P} B^p_h X(5d)_{p,t} + e_{t+h}. \quad (7)$$

Equation (7) is the second-stage local projection, where as before IV_t is the 5-day stablecoin flows instrumented with cumulative crypto shocks. This specification allows inflows to impact h-horizon T-bill yields differentially from 2024 onward. Figure 8 shows that the effect of instrumented stablecoin flows on 3-month T-bill yields have strengthened since 2024, with a $3.5 billion inflow lowering 3-month yields by roughly 7 basis points, compared to 2.5 basis points over the 2021-2024 period. Moreover, the effect is much more precisely estimated.

Figure 8: IRF of $3.5B stablecoin inflow on 3-month T-bill yields, before and after January 2024



Note: IRF estimate produced from local projection specified in Equation (7). A $3.5B inflow is approximately a 2-standard deviation flow. Darker and lighter shaded regions correspond to 68% and 95% Newey-West confidence bands, respectively. The right-panel instruments 5-day stablecoin flows in the local projection with a measure of idiosyncratic crypto price shocks.

Our baseline analysis does not account for the possibility that the effect of stablecoin flows on Treasury yields may be asymmetric. Stablecoin issuers can invest inflows into Treasuries at their discretion, i.e. there is some leeway in the timing of purchases following an inflow. But outflows caused by redemptions may require forced sales of reserves to provide sufficient and

timely liquidity to stablecoin holders, i.e. there is likely no such scope for discretionary timing of sales under stress. As a result, it is not unreasonable to assume that sales occur in a less price sensitive environment than reserve purchases, and therefore have a larger market impact on Treasury bill yields. We test this hypothesis by extending the local projection from Equation (3) to allow stablecoin inflows and outflows to have different effects on T-bill yields:

$$y^{3M}_{t+h} - y^{3M}_{t-1} = \alpha_h + \beta_{1h} IV_t + \beta_{2h} IV_t \mathbf{1}_{[Flow(5d)_t<0]} + \sum_{k\in K} \gamma_h [y^k_{t+h} - y^k_{t-1}] + \sum_{p\in P} B^p_h X(5d)_{p,t} + e_{t+h}. \quad (8)$$

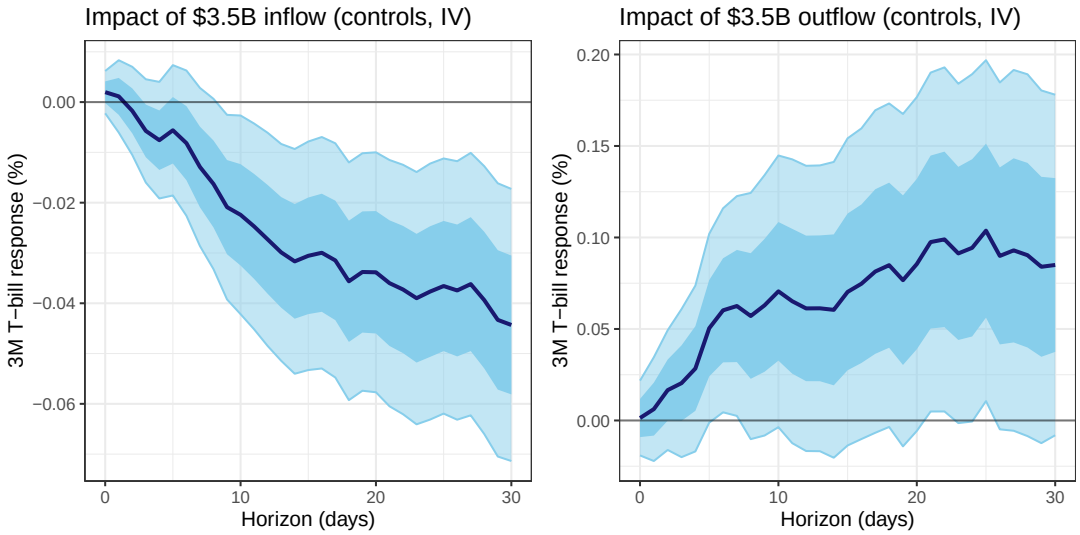
Equation (8) is the second-stage local projection regression, where as before IV_t is the 5-day stablecoin flows instrumented with cumulative crypto shocks. This specification allows stablecoin inflows to impact h-horizon T-bill yields by β_{1h} while outflows impact h-horizon T-bill yields by $\beta_{1h} + \beta_{2h}$. The left and right panels in Figure 9 plot the IRF of 3-month T-bill yields following a \$3.5 billion inflow and outflow, respectively. After allowing for asymmetry, the effect of inflows strengthens modestly to about 3 bps after 10 days and 4 bps thereafter, and is statistically significant over most horizons. In turn, an outflow of the same magnitude raises T-bill yields by 6-10 bps. These outflow effects, however, are less precisely estimated, as can be seen by their marginal (in)significance at the 95% level. This evidence points to the existence of asymmetric effects, which may become more prominent (and more precisely estimated) if the market continues to grow.

3.4 Issuer-specific contributions

Using the issuer-specific first stage IV estimates from Table 2, we decompose the average impact of aggregate flows on T-bill yields into the contribution of specific issuers: USDT, USDC, and others. We can do this because the first stage coefficient for aggregate flows (3.26) is approximately the sum of coefficients across the disaggregated flows reported in columns 2, 3 and 4. For example, we can estimate the contribution of USDT flows on T-bill yields by multiplying the total impact by the quotient of their first stage coefficient over the aggregate first stage coefficient ($\frac{2.286}{3.261}$).

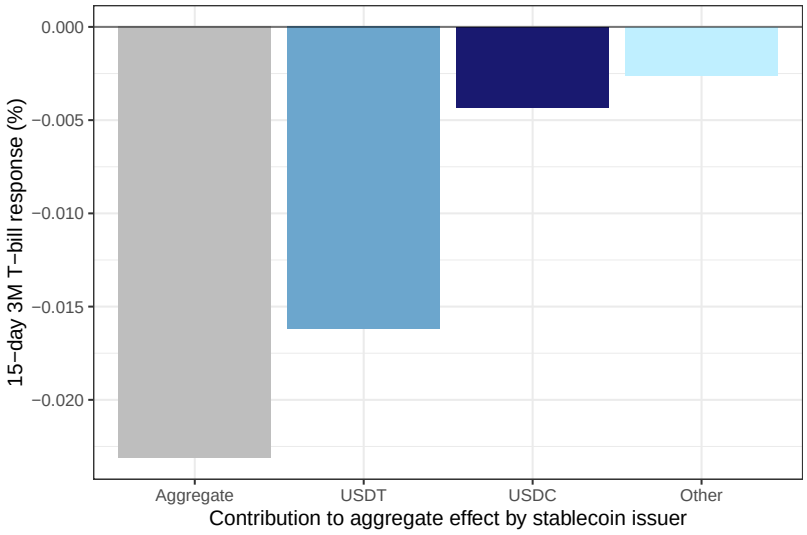
Figure 10 considers the 15-day impact of aggregate stablecoin flows on 3-

Figure 9: Instrumented IRF of $3.5B stablecoin inflow (left) and outflow (right) on 3-month T-bill yields from asymmetric local projection regressions



Note: IRF estimate produced from instrumented local projection specified in Equation (8). A $3.5B inflow is approximately a 2-standard deviation flow. Darker and lighter shaded regions correspond to 68% and 95% Newey-West confidence bands, respectively.

Figure 10: IRF of $3.5B stablecoin inflow on 3-month T-bill yields



Note: Aggregate bar is the 15-day cumulative impact of aggregate stablecoin inflows on 3-month T-bill yields from IRF estimates produced from the local projection specified in Equation (3) instrumenting 5-day stablecoin flows with crypto price shocks. A $3.5B inflow is approximately a 2-standard deviation flow. Issuer-specific bars report estimated contributions by stablecoin issuer using coefficient estimates from Table 2.

month yields, which is about -2.3bps per $3.5 billion inflow (right-panel of Figure 6). USDT's contribution stands at about -1.61bps or 70%, consistent with its size and relatively larger share of T-bills ($140 billion market cap with 69% of their December 2024 reserves in T-bills). USDC's contribution is also meaningful at about 19% ($50 billion market cap with 44% of their December 2024 reserves in T-bills). The 'Other' issuers have the smallest contribution on average, of about 11%, but this is still sizable relative to their current market capitalization.

4 Discussion and policy implications

Magnitude. The estimated -2 to -2.5 bp yield impact results from a $3.5 billion (or 2 standard deviation) stablecoin inflow for a sector that is roughly $200 billion in size as of end-2024. As the stablecoin sector continues to grow, it is not unreasonable to expect their footprint in Treasury markets to also increase. Suppose the stablecoin sector grows 10-fold to $2 trillion by 2028 (as suggested by the Treasury Borrowing Advisory Committee) and the variance of 5-day flows increases proportionally. Then, a 2-standard deviation flow would amount to roughly $11 billion, with an estimated impact of -6.28 to -7.85 bps on T-bill yields.[19] These estimates suggest that a growing stablecoin sector may eventually suppress short-term yields to an extent that meaningfully influences the transmission of Fed monetary policy to market-based yields.

Mechanisms. There are at least three channels through which stablecoin flows can impact Treasury market pricing. The first is through direct demand, as stablecoin purchases reduce available bill supply so long as the flows into stablecoins would not have otherwise made their way into T-bills. The second channel is indirect, as demand for Treasuries from stablecoins could relieve dealer balance sheet constraints. This, in turn, impacts asset prices, as it would reduce the quantity of Treasury supply that dealers need to absorb. Another indirect channel arises through stablecoins' reverse repo positions

[19]The sample variance of 5-day stablecoin flows is about ($1.75 billion USD)^2 = 3.06. If multiplied by 10, this results in a standard deviation of flows of $30.6^{1/2} = 5.53$, or a 2-standard deviation flow of about $11 billion if we assume that the variance of flows increases 10-fold when the size of the stablecoin sector increases 10-fold. A similar calculation using Citigroup's prediction of $1.6 trillion by 2030 implies a yield impact of -5.7 to -7.15 bps following a 2-standard deviation inflow.

collateralized by Treasury securities, which at least theoretically could impact the supply of Treasuries available to the market. The third channel is through signaling effects, as large inflows may serve as a signal for institutional risk appetite or lack thereof, which investors then price into markets.

Policy implications. Policies around reserve transparency are set to interact with stablecoins' growing footprint in Treasury markets. For example, USDC's granular reserve disclosures enhance market predictability, whereas USDT's opacity complicates analysis. Regulatory mandates for standardized reporting could mitigate systemic risks arising from concentrated ownership of Treasury securities by making some of these flows more transparent and predictable. While the stablecoin market is still comparatively small, stablecoin issuers are already a meaningful player in Treasury markets, and our results point to some effect in yields already at this early stage.

Monetary policy is also set to interact with the role of stablecoins as Treasury investors. For example, in a scenario where stablecoins become very large, stablecoin-driven yield compression may weaken the Fed's control over short-term rates, potentially necessitating coordination among regulators for monetary policy to effectively influence financial conditions. This idea is not merely theoretical – 'Greenspan's Conundrum' of the early 2000's, for instance, rose out of the observation that the Fed's monetary policy was not transmitting as expected to long-term Treasury yields. At the time, it was largely attributed to outsized foreign investor demand for Treasury securities affecting Treasury market pricing. Moreover, demand from a large and growing stablecoin sector may push short-term rates below the floor set by the Fed under an 'ample reserves' regime. The Fed's overnight reverse repo facility ameliorated similar issues with money market funds, but stablecoin issuers currently do not have access to Fed facilities.

Finally, there are clear financial stability implications that arise from stablecoins becoming large investors in Treasury markets. As discussed in the literature on stablecoins, they remain runnable, with their balance sheets subject to both liquidity and interest rate risk, as well as some credit risk exposures. As such, concentrated positions in T-bills, particularly those which are not set to immediately mature, may subject the market to fire sales if a major stablecoin were to face severe redemption stress, not least given the absence of discount window or lender-of-last-resort access. The evidence we present

on asymmetric effects suggests that the impact of stablecoins on the Treasury market is likely to be larger in such environments characterized by large and sharp outflows. In this regard, the magnitudes suggested by our estimates are likely to be a lower bound since they are obtained based on a sample that includes mostly a growing market, where there is more leeway in the timing of purchases. The financial stability impact of such fire sales may not be significant while the stablecoin sector is small, but this may change as the stablecoin sector grows, contributing to growing concerns about the stability of the Treasury market and spillovers from the crypto ecosystem.[20]

Limitations. Our analysis presents some of the first evidence of stablecoins' emerging footprint in Treasury markets. However, our results should be interpreted with caution. First, we face data constraints in our analysis, as the maturity disclosure of USDT's reserve portfolio is incomplete, thereby complicating identification. As a result, we must make assumptions about which T-bill tenor is most likely to be affected by stablecoin flows.

Second, we control for financial market volatility by including Bitcoin and Ether returns, along with yield changes for a variety of Treasury maturities. However, these variables may not fully capture risk sentiment, macroeconomic conditions, or non-linearities that jointly affect stablecoin flows and T-bill yields. We try to address these issues with an IV strategy and several robustness checks, but we are aware that our IV may itself be subject to limitations, including mis-specification in our local projection model.[21] Moreover, due to data limitations and the high concentration in the stablecoin sector, our estimates rely almost exclusively on time-series variation, as the cross-section is too limited to be exploited in any meaningful way.

[20] See e.g. Financial Times: How the Treasury market got hooked on hedge fund leverage.

[21] For example, our baseline local projection specification assumes a constant and linear relationship between stablecoin flows and horizon h T-bill yields, which may not necessarily be the case – especially if structural breaks arise in the relationship as stablecoins continue to grow. If this were to happen, however, estimated effects will likely be larger than we currently find, and consistent with our finding of stronger effects after 2024. An additional potential issue is T-bill convexity effects – we do not think this is a concern in our analysis given the short maturity we focus on, which implies that the relationship between T-bill price and yield is nearly linear.

5 Conclusion

Stablecoins have already established themselves as significant players in Treasury markets, with measurable and significant effects on short-term yields. Their growth blurs the lines between cryptocurrency and traditional finance, demanding regulatory attention to reserve practices, potential implication for monetary policy transmission and financial stability risks. Future research could explore cross-border spillovers and interactions with money market funds, particularly during liquidity crises.

References

Adams, A., M. Ibert, and G. Liao (2024). What drives crypto asset prices? *Available at SSRN*.

Ahmed, R., I. Aldasoro, and C. Duley (2025). Public information and stablecoin runs. *BIS Working Paper 91*(1164).

Ahmed, R., S. Karolyi, and L. Pour Rostami (2024). Does sovereign default risk explain cryptocurrency adoption? International evidence from mobile apps. *Avilable at SSRN*.

Ahmed, R. and A. Rebucci (2024). Dollar reserves and U.S. yields: Identifying the price impact of official flows. *Journal of International Economics 152*, 103974.

Aldasoro, I., G. Cornelli, M. Ferrari Minesso, L. Gambacorta, and M. M. Habib (2025). Stablecoins, money market funds and monetary policy. *Economics Letters 247*, 112203.

Aldasoro, I. and S. Doerr (2023). Who borrows from money market funds? *BIS Quarterly Review* (December).

Aldasoro, I. and S. Doerr (2025). Money market funds and sponsored repo: An update. *SSRN* (April).

Arner, D., R. Auer, and J. Frost (2020). Stablecoins: Potential, risks and regulation. *Revista de Establidad Financiera, Bank of Spain (Fall)*.

Auer, R., G. Cornelli, S. Doerr, J. Frost, and L. Gambacorta (2025). Crypto trading and Bitcoin prices: Evidence from a new database of retail adoption. *IMF Economic Review forthcoming*.

Barthelemy, J., P. Gardin, and B. Nguyen (2023, February). Stablecoins and the financing of the real economy. *Banque de France Working Paper* (908).

Bertsch, C. (2023, May). Stablecoins: Adoption and Fragility. Working Paper Series 423, Sveriges Riksbank (Central Bank of Sweden).

Bullmann, D., J. Klemm, and A. Pinna (2019, August). In search for stability in crypto-assets: Are stablecoins the solution? *ECB Occasional Paper* (230).

D'Avernas, A., V. Maurin, and Q. Vandeweyer (2023, October). Can Stablecoins Be Stable? Working paper, (available at SSRN).

D'Avernas, A. and Q. Vandeweyer (2024). Treasury bill shortages and the pricing of short-term assets. *The Journal of Finance 79*(6), 4083–4141.

Doerr, S., E. Eren, and S. Malamud (2023). Money market funds and the pricing of near-money assets. *BIS Working Paper* (1096).

D'Amico, S. and T. B. King (2013). Flow and stock effects of large-scale treasury purchases: Evidence on the importance of local supply. *Journal of Financial Economics 108*(2), 425–448.

Goel, T., U. Lewrick, and I. Agarwal (2025). Making stablecoins stable(r): Can regulation help? *Available at SSRN: https://ssrn.com/abstract=5070116*.

Gorton, G. B., E. C. Klee, C. P. Ross, S. Y. Ross, and A. P. Vardoulakis (2022). Leverage and stablecoin pegs. Technical report, National Bureau of Economic Research.

Greenwood, R., S. G. Hanson, and J. C. Stein (2015). A comparative-advantage approach to government debt maturity. *The Journal of Finance 70*(4), 1683–1722.

Griffin, J. M. and A. Shams (2020). Is Bitcoin really untethered? *Journal of Finance 75*(4), 1913–1964.

Hastie, T., R. Tibshirani, and J. Friedman (2009). *The Elements of Statistical Learning*. Springer.

Kim, S. (2025a). How the cryptocurrency market is connected to the financial market. *working paper*.

Kim, S. (2025b). Macro-financial impact of stablecoin's demand for treasuries. *working paper*.

Kosse, A., M. Glowka, I. Mattei, and T. Rice (2023). Will the real stablecoin please stand up? BIS Papers No 141, November.

Krishnamurthy, A. and A. Vissing-Jorgensen (2011). The effects of quantitative easing on interest rates: Channels and implications for policy. Technical report, National Bureau of Economic Research.

Krishnamurthy, A. and A. Vissing-Jorgensen (2012). The aggregate demand for treasury debt. *Journal of Political Economy 120*(2), 233–267.

Liao, G., D. Fishman, and J. Fox-Geen (2024). Risk-based capital for stable value tokens. *Available at SSRN*.

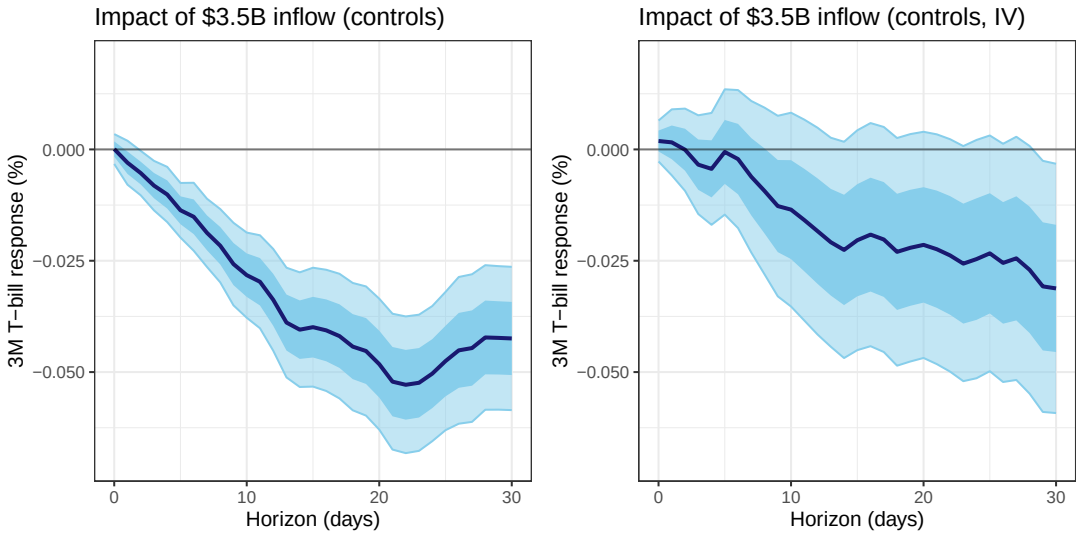
Lyons, R. K. and G. Viswanath-Natraj (2023). What keeps stablecoins stable? *Journal of International Money and Finance 131*, 102777.

Ma, Y., Z. Yeng, and A. L. Zhang (2023, April). Stablecoin runs and the centralization of arbitrage. Working paper, (available at SSRN).

Zou, H. and T. Hastie (2005). Regularization and variable selection via the elastic net. *Journal of the Royal Statistical Society 67*(2), 301–320.

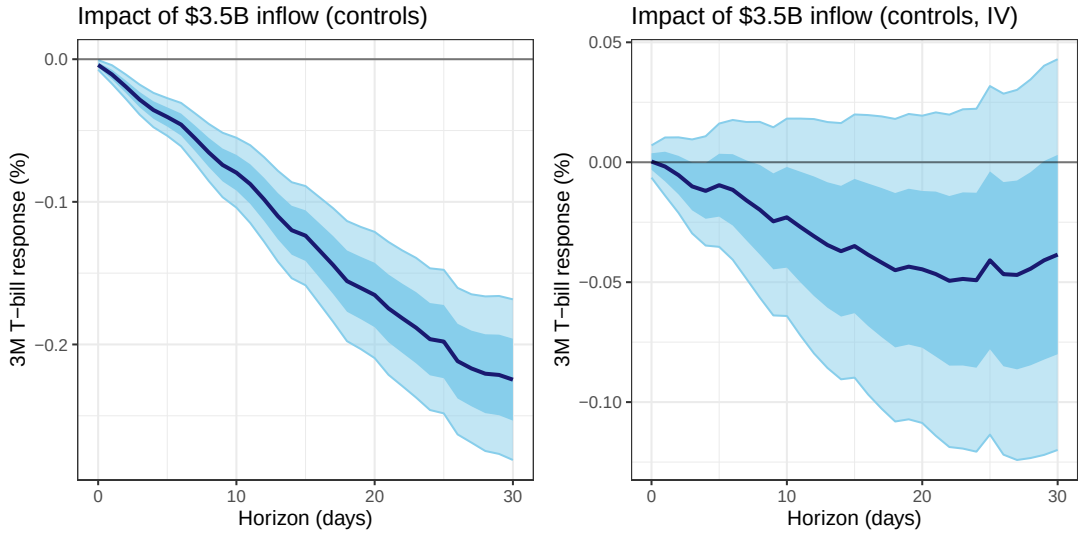
A Additional figures

Figure 11: IRF of $3.5B stablecoin inflow on 3-month T-bill yields, using flows constructed from blockchain mint and burn data



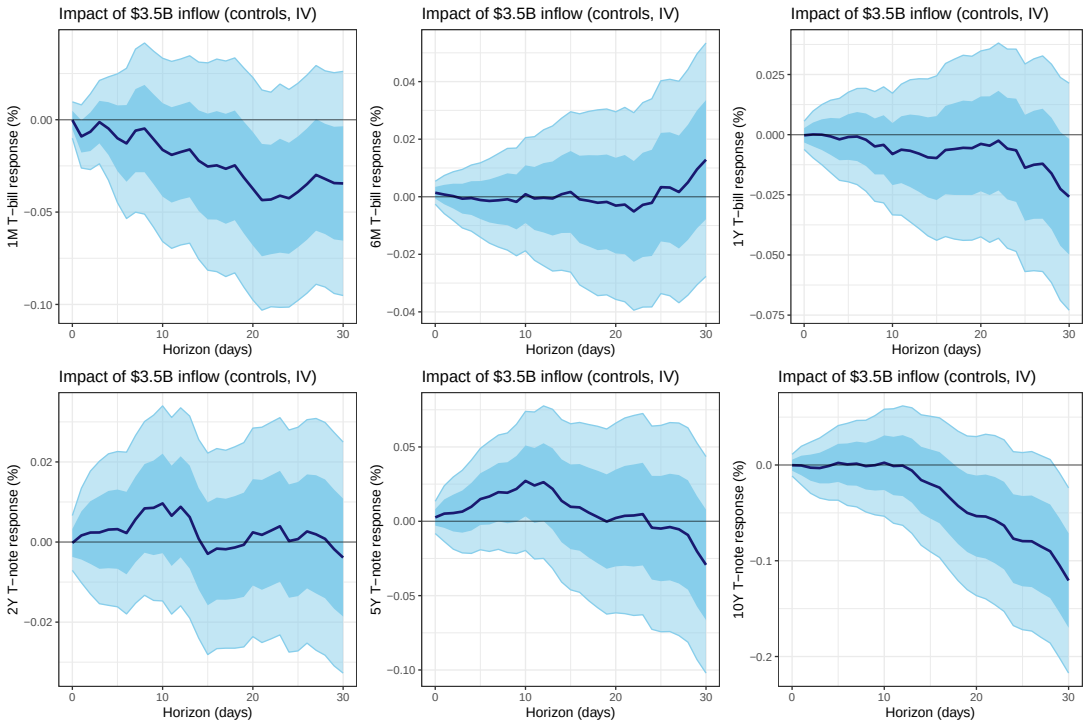
Note: IRF estimate produced from local projection specified in Equation (3), but with stablecoin flows constructed from blockchain-level stablecoin mint and burn data, for USDT (Ethereum, Tron, Omni), USDC (Ethereum), TUSD (Ethereum), BUSD (Ethereum), and PYUSD (Ethereum). A $3.5B inflow is approximately a 2-standard deviation flow. Darker and lighter shaded regions correspond to 68% and 95% Newey-West confidence bands, respectively. The right-panel instruments 5-day stablecoin flows in the local projection with a measure of idiosyncratic crypto price shocks.

Figure 12: IRF of $3.5B stablecoin inflow on 3-month T-bill yields, excluding controls for proximate T-bill yields and including controls for long-term T-bond yields



Note: IRF estimate produced from local projection specified in Equation (3), but with $k = k' = \{2Y, 10Y\}$. A $3.5B inflow is approximately a 2-standard deviation flow. Darker and lighter shaded regions correspond to 68% and 95% Newey-West confidence bands, respectively. The right-panel instruments 5-day stablecoin flows in the local projection with a measure of idiosyncratic crypto price shocks.

Figure 13: Instrumented IRF of $3.5B stablecoin inflow on yields other than the 3-month tenor



Note: IRF estimate produced from local projection specified in Equation (3) instrumented with crypto price shocks, with 1-month, 6-month, 1-year, 2-year, 5-year, and 10-year Treasury yields as dependent variables, respectively. A $3.5B inflow is approximately a 2-standard deviation flow. Darker and lighter shaded regions correspond to 68% and 95% Newey-West confidence bands, respectively.