What Drives Depositor Heterogeneity? Customer Characteristics, Technology, and Bank Size

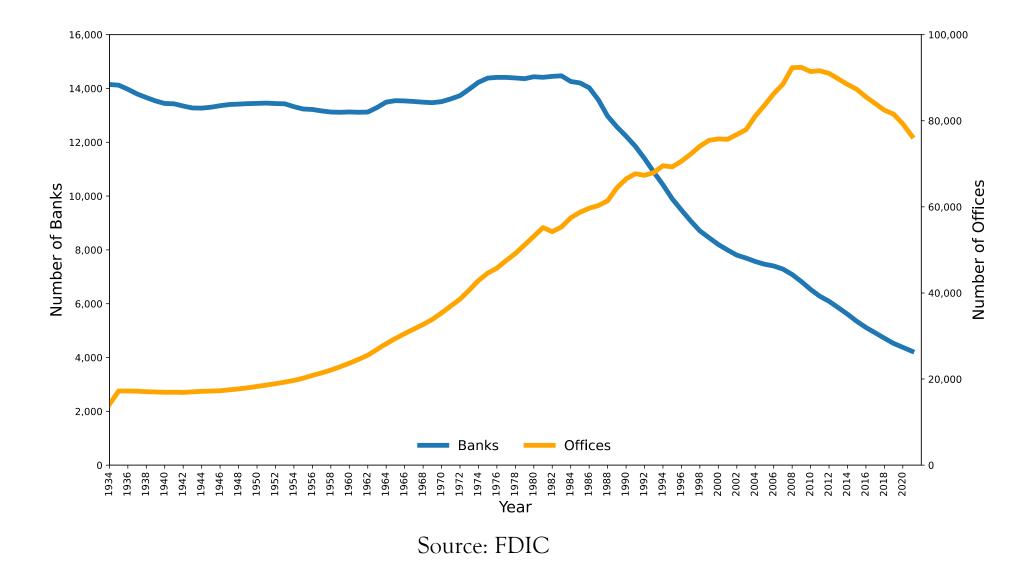
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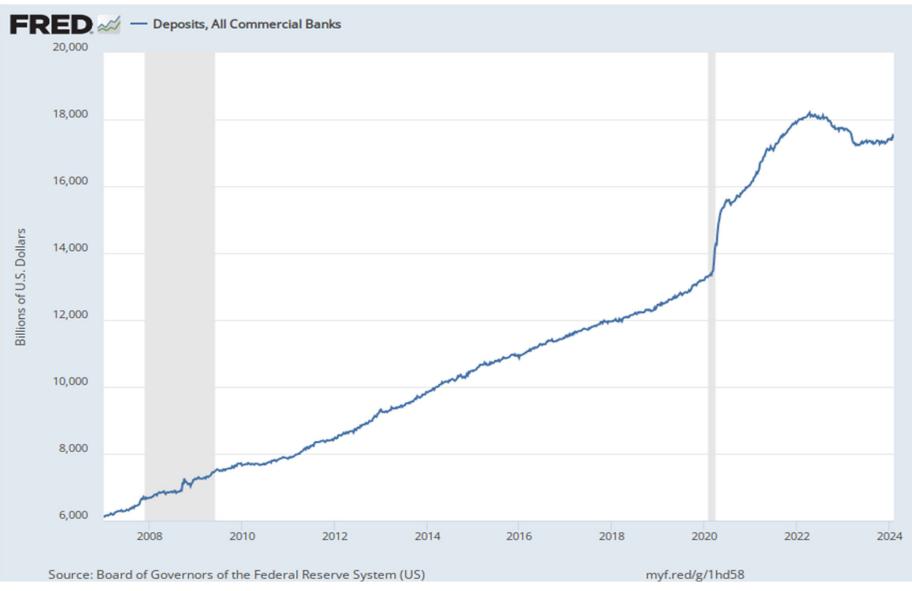
Some Basic Facts

- Deposits have grown rapidly
 - As bank branches have started to crater
- Deposits declined when
 - Interest rates rose
 - And when SVB failed...
- But not that much (puzzle)!
 - How confident are we that this will continue?
 - Meanwhile, spreads have flattened out

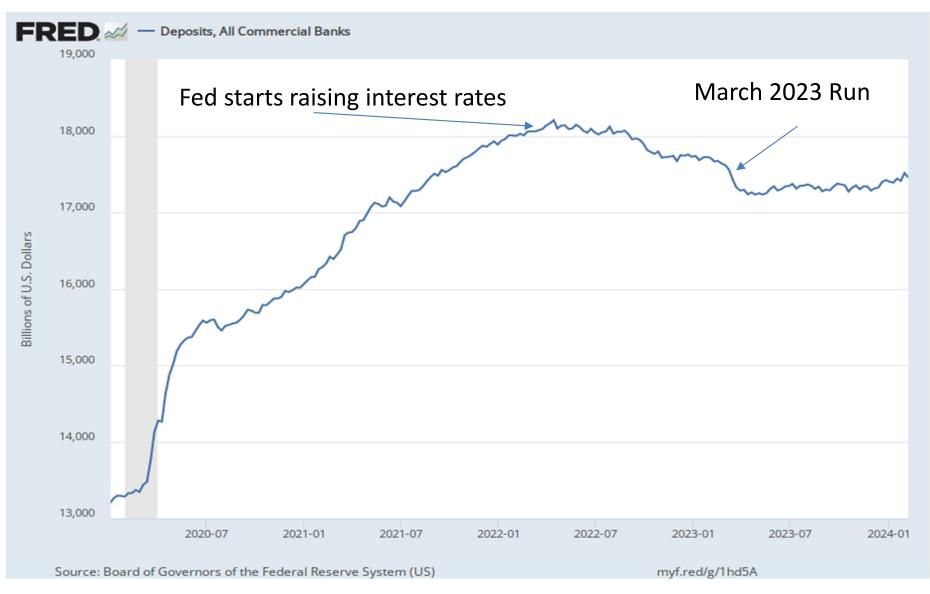
Number of Banks and Branches

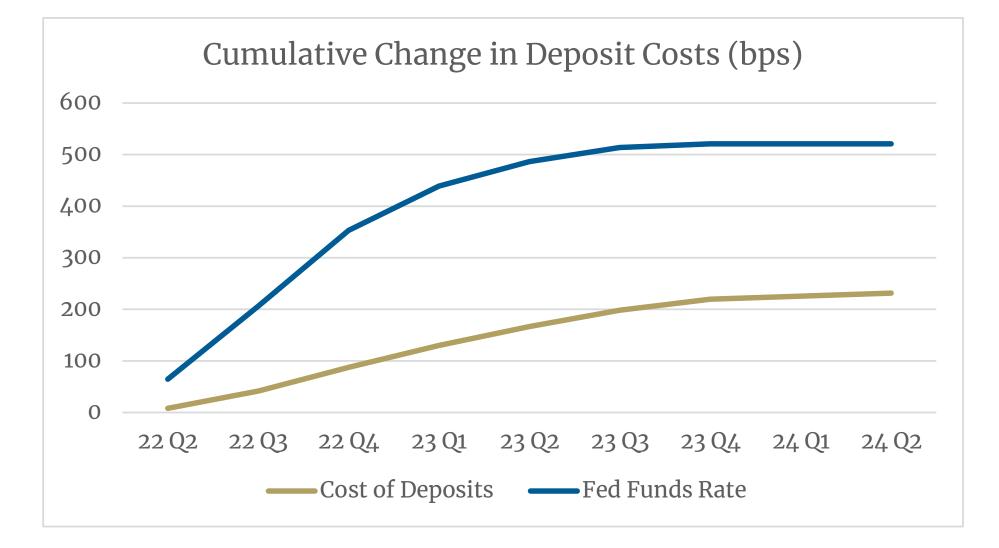


What about Deposits?



Deposits in Recent Years...

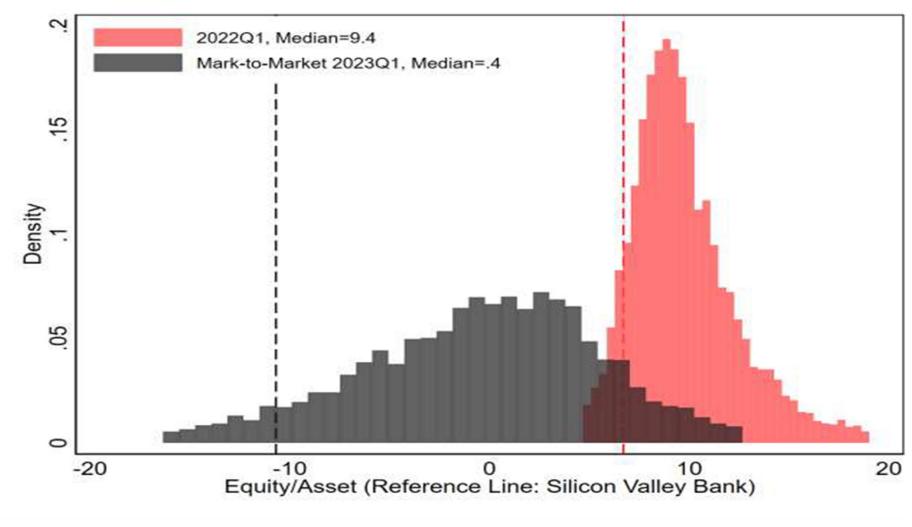




Why is this an Important Topic?

- SVB crisis emphasized:
 - The importance of bank solvency
 - The fragility of the value of the Deposit Franchise

Many banks are insolvent! (Ignoring deposit franchise value)



Source: Jiang et al., 2023

How Valuable is the Deposit Franchise?

• Drechsler et al. (2023) offer a simple framework:

$$DF = D(1-w) * [(1-\beta) - c/r]$$
$$r_d = \beta * r$$

- Two core issues
 - How much value is gained by underpricing deposits (how far is β below 1 i.e., how inelastic is deposit demand?)
 - How stable/sticky are deposit (how close is *w* to zero?)

Key issues

- How does deposit franchise (DF) value vary across banks (e.g., large v. small)
- How does *stability* of DF value vary with bank-type and customer-type?
- How does technology affect DF level & stability
- (We already know how uninsured deposits affect DF stability...)

What are we learning from these papers?

- Large-bank customers are more sophisticated, urban, and tech-savvy (NR & Wallace)
- Large-banks pay lower rates on deposits (Wallace et al.)
- What about elasticity?
 - Wallace: Large-banks have lower elasticity (and lower βs?)
 - NR: Large-banks have higher β

Who's right?

- NR: Funding betas from 12/21 to 12/23
 - Combines/confounds two factors
 - Sharp increase in Fed Funds rate
 - SVB crisis / Bank runs
- Wallace: Elasticities measured over 2001-2019 period
 - Big changes over this time!
 - More analysis of changes over time
 - Add evidence from the post-Pandemic period

What else affects DF stability?

- Lu et al. suggest transaction cost reduce depositor 'sleepiness'
 - Fast transfer increases deposit turnover (i.e, raises w)
 - Raises sensitivity to interest rates (i.e., raises β)
- This seems to conflict with Wallace!

What else can these papers do?

- NR:
 - Separate the effect of interest rate change from the effect of bank runs
- Wallace:
 - Relate your elasticity measure to DSS-style estimates of deposit beta
 - Consider time-variation in elasticities!
- Lu et al.:
 - What kinds of banks are on your sample?
 - How does transfer behavior w.r.t. interest rate variation differ by customer type?

What else can these papers do?

- All:
 - Can you say something about the decline in bank branches
 - Customer type (NR & Wallace)
 - Size & deposit elasticity (Wallace)
 - Liquidity/transaction speed (Lu)
 - Does the demise of branching change deposit pricing behavior?

Conclusion

• For many banks, solvency hinges on the value of DF!

- (Let's hope interest rates go back down...)

- So, we need to understand
 - What affects the value of DF?
 - What affects the stability of DF?
- These papers speak to these questions
 But: we need more work on this topic!