End of the Line: Behavior of Credit-constrained HELOC Borrowers

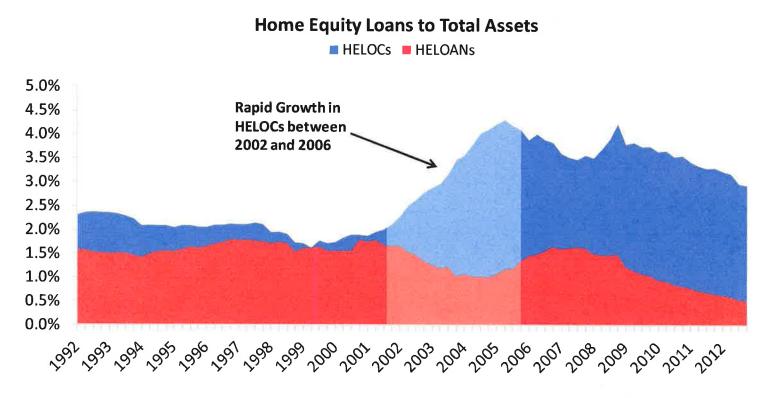
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Disclaimer

The opinions expressed here do not necessarily represent the views of the Federal Reserve Board or the Federal Reserve System.

Rapid growth in HELOC balances between 2002 and 2006



Source: FR Y-9C, all BHCs.

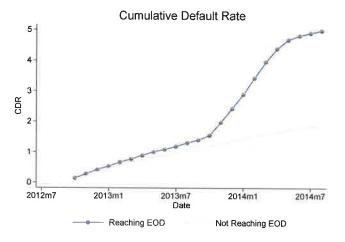
▶ Under a typical HELOC, borrowers make only interest payments on outstanding debt during the draw period, and the loan converts to closed-end amortizing loans at the end of the draw period.

Effect of payment change on default

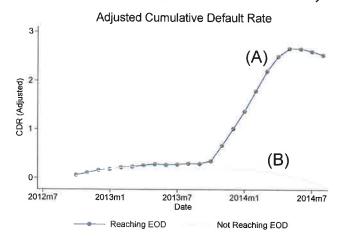
- Nearly 60 percent of outstanding HELOCs will reach the end of their draw (EOD) periods in the next several years
 - required payments will increase for many borrowers, and
 - renewed demand for credit if borrowers wish to maintain same household leverage.
- Often borrowers repay or refinance just prior to end of draw
 - but may have insufficient income or assets to repay
 - or may not be able to refinance
- ► How will payment increase affect default rates?
 - ▶ Will the effect be different for different types of borrowers?

Our approach

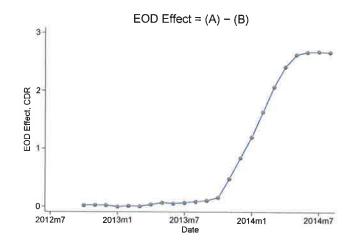
Step 1: Calculate cum. default rates (CDRs)



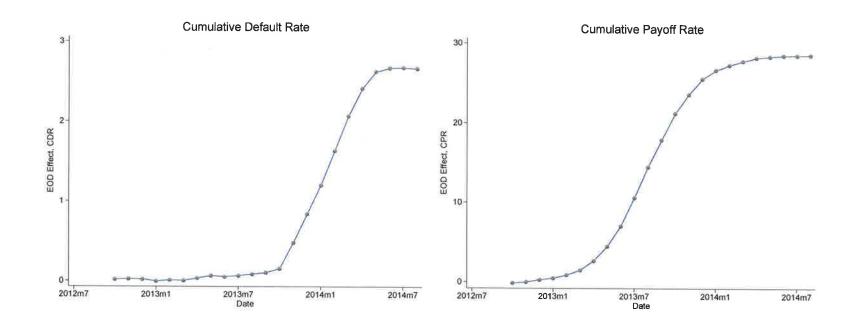
Step 2: Subtract predicted CDRs (estimated with competing hazard model)



Step 3: EOD effect is difference between adjusted CDR curves

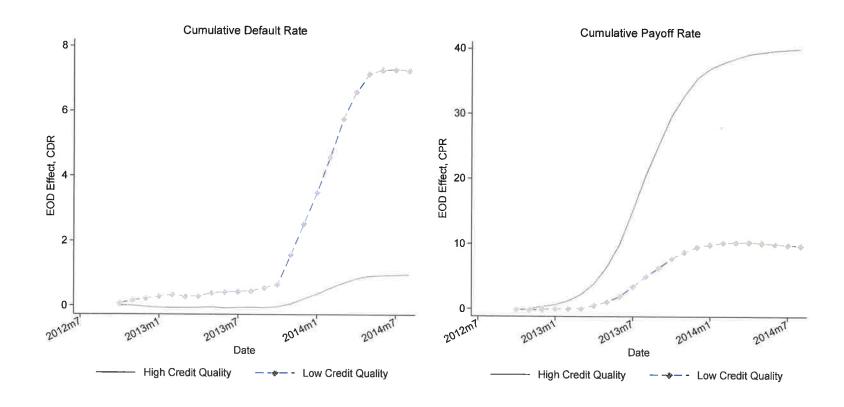


Overall effect



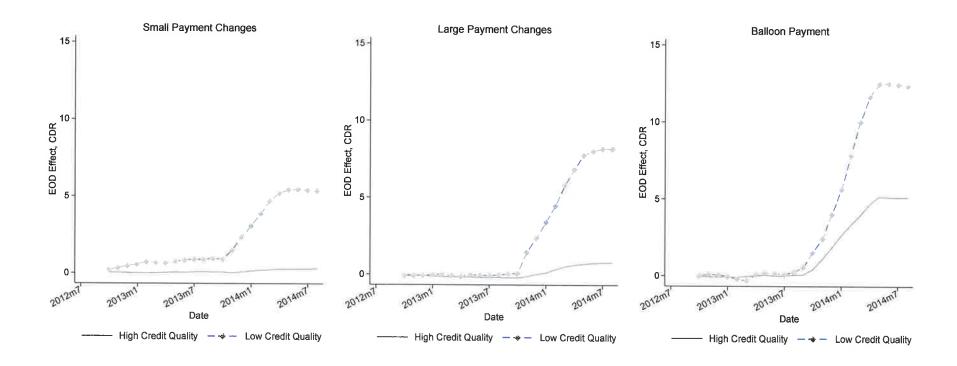
► Higher default and payoff rates for loans reaching EOD

Does borrower credit quality matter?



 $^{\blacktriangleright}$ "Low Quality" HELOCs (FICO <725 and CLTV >80) default at higher rate than "High Quality" HELOCs (FICO >725 and CLTV <80)

What is the role of the size of the payment change?



"Low Quality" HELOCs more sensitive to size of payment increase

Thank you

Please send any feedback you have to Kathleen Johnson (kathleen.w.johnson@frb.gov) or Rob Sarama (robert.f.sarama@frb.gov).