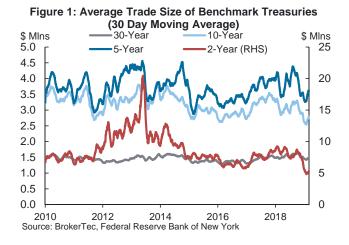
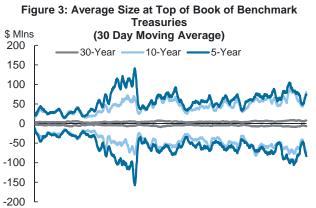


Treasury Market Liquidity Metrics and Fails





2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 Source: BrokerTec, Federal Reserve Bank of New York

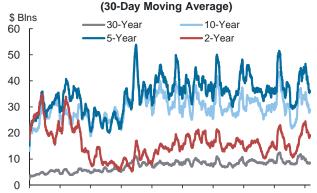
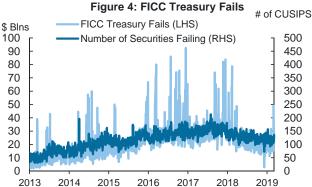


Figure 2: Daily Trade Volume of Benchmark Treasuries

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 Source: BrokerTec, Federal Reserve Bank of New York



Calculated from data provided to the Federal Reserve Bank of New York by Fixed Income Clearing Corporation, a subsidiary of The Depository Trust & Clearing Corporation.

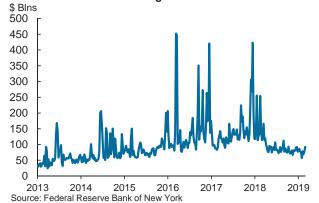
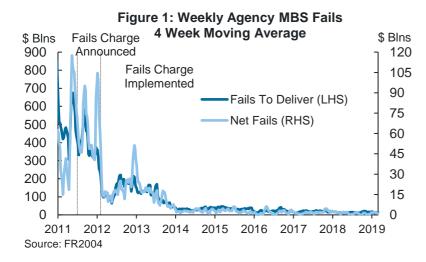


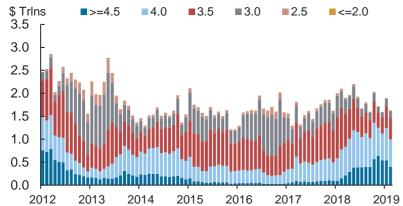
Figure 5: FR 2004 Treasury Fails; Cumulative For Week Covering Thurs to Wed



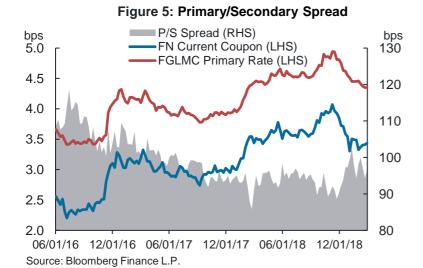
MBS and Agency Debt Market Liquidity Metrics







2012 2013 2014 2015 2016 2017 2018 2019 Note: Includes dealer-to-dealer outright sales and dealer-to-customer outright purchases and sales through 02/27/2019. Source: TRACE



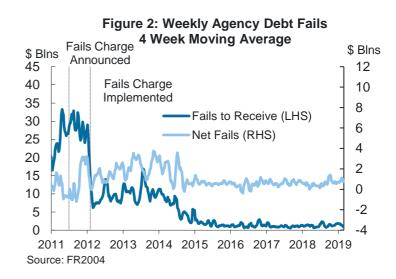


Figure 4: Monthly Average of Primary Dealer Agency

