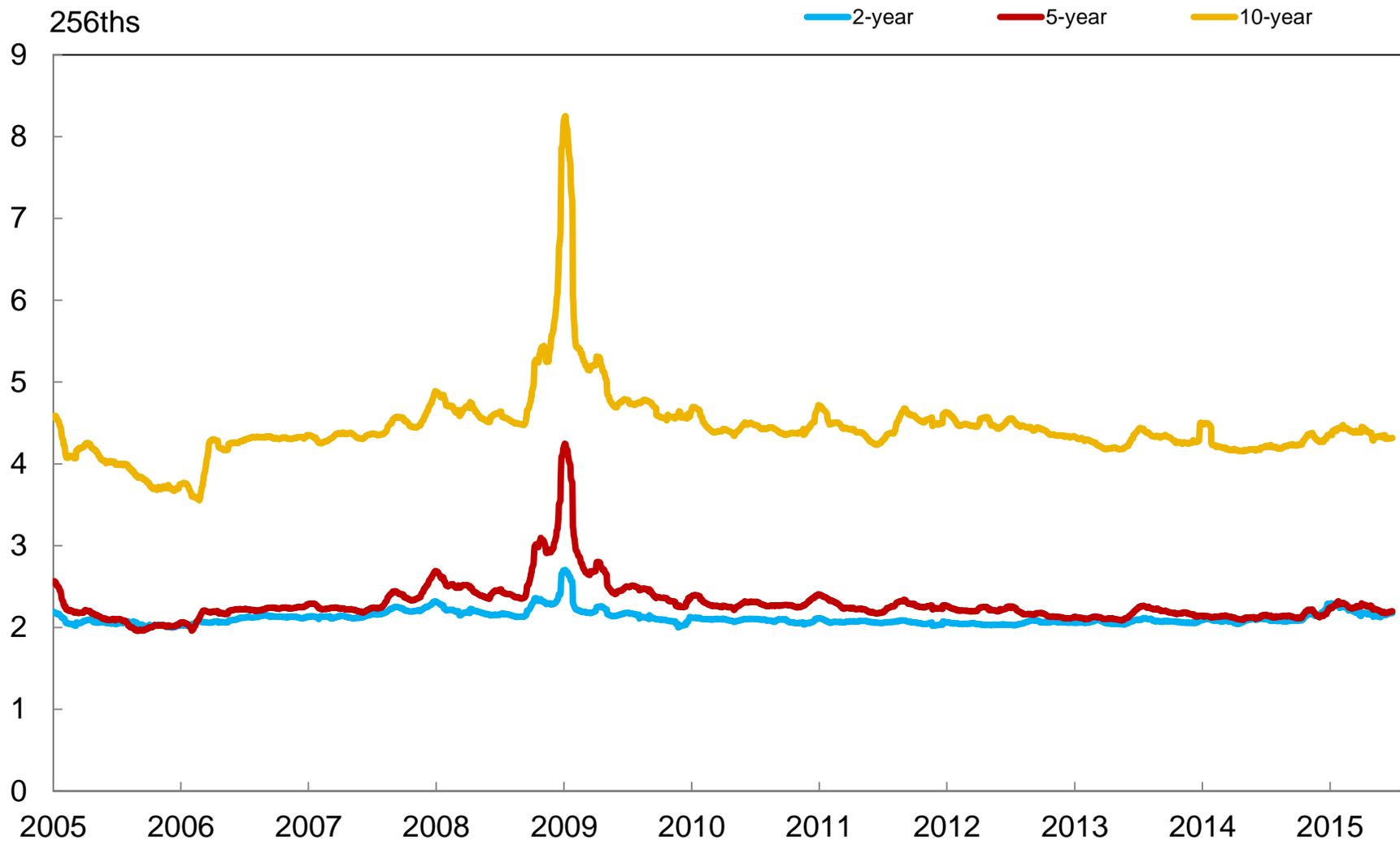


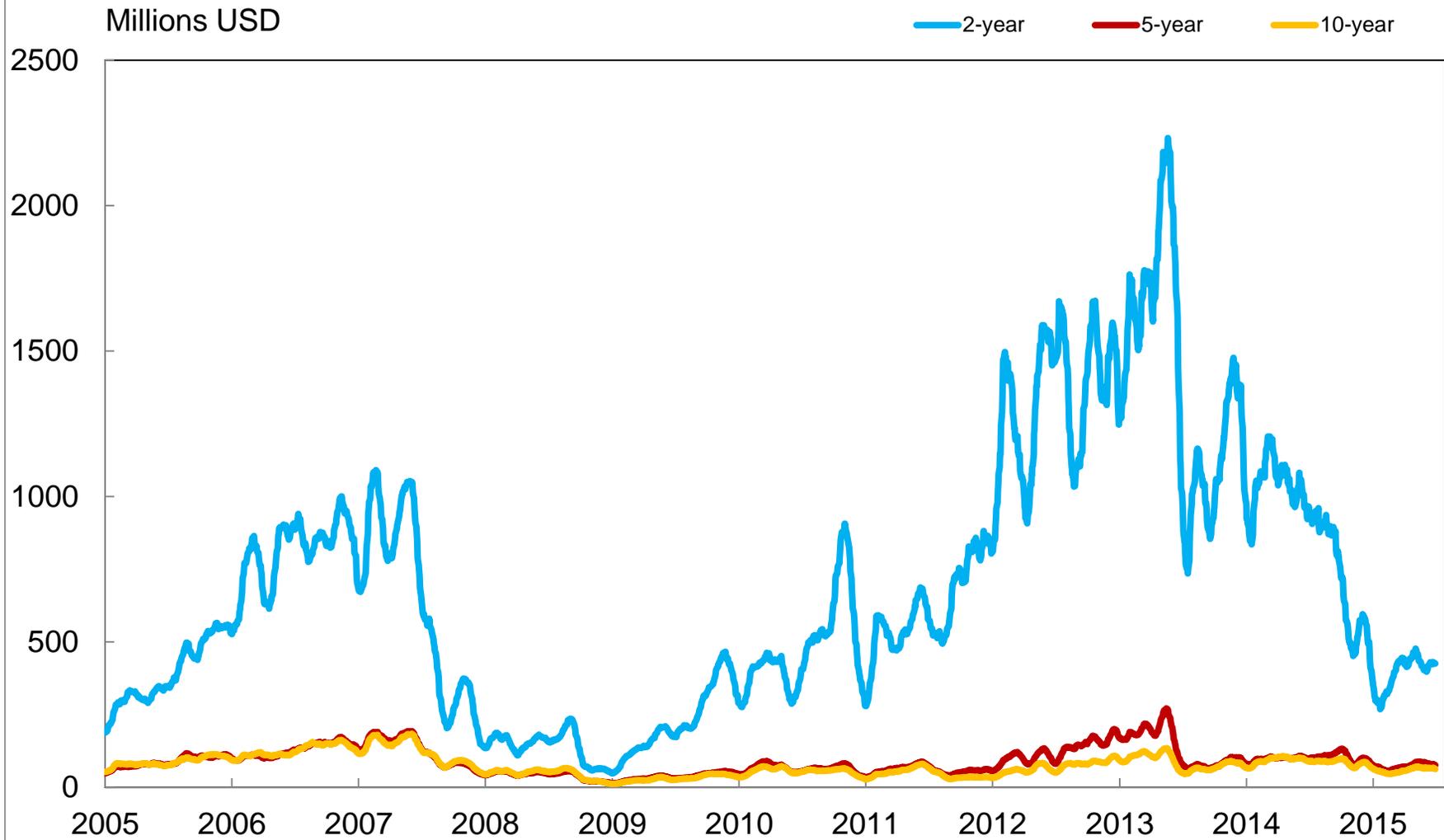
Exhibit 1: Treasury Bid-Ask Spreads



Source: FRBNY staff calculations, based on data from BrokerTec.

Notes: The exhibit plots 21-day moving averages of average daily bid-ask spreads for on-the-run notes. Spreads are measured in 256ths of a point, where a point equals one percent of par.

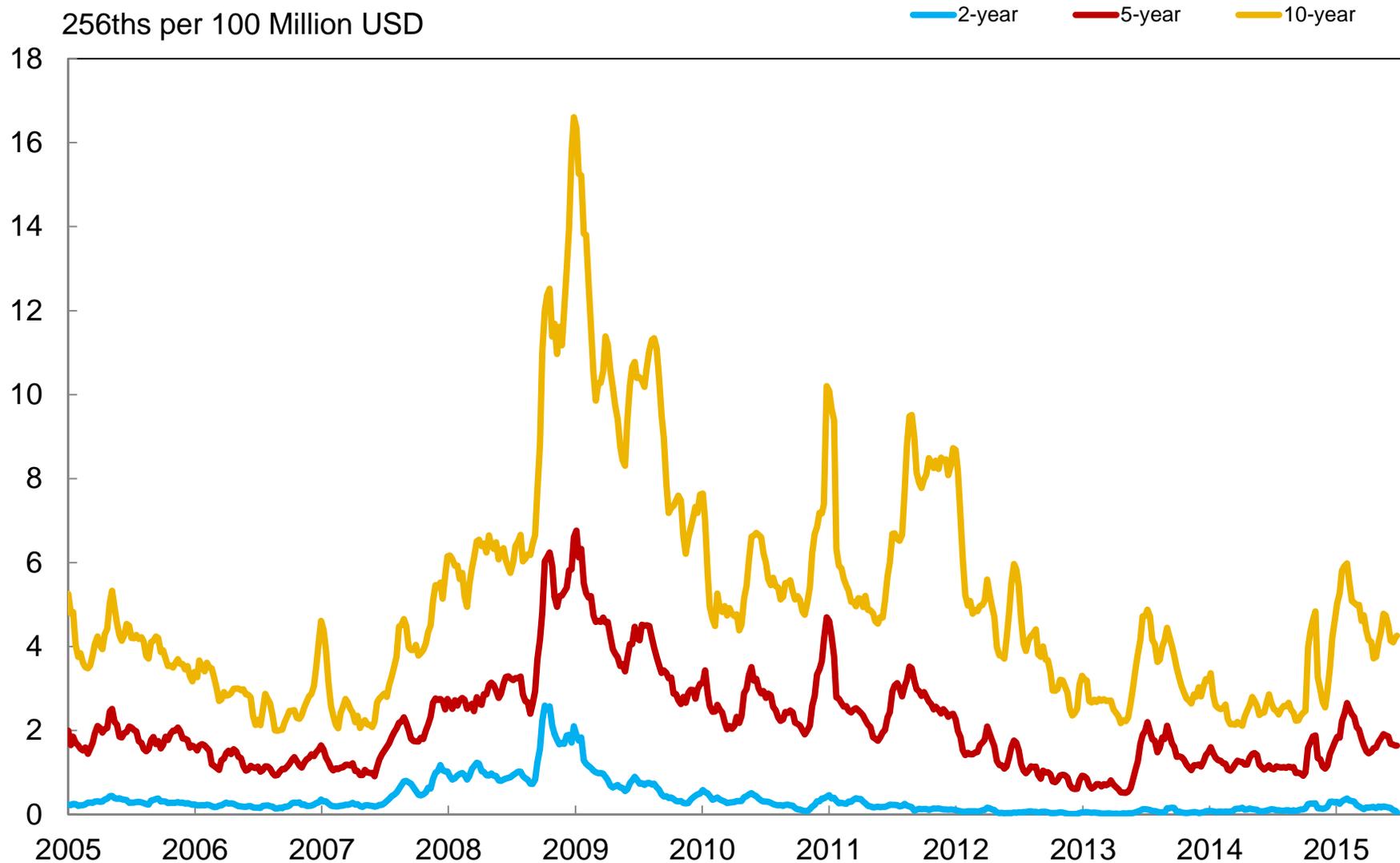
Exhibit 2: Treasury Depth



Source: FRBNY staff calculations, based on data from BrokerTec.

Notes: The exhibit plots 21-day moving averages of average daily depth for on-the-run notes. Depth is defined as the sum of all bid and ask orders at the first level (lowest ask, highest bid) of the order book.

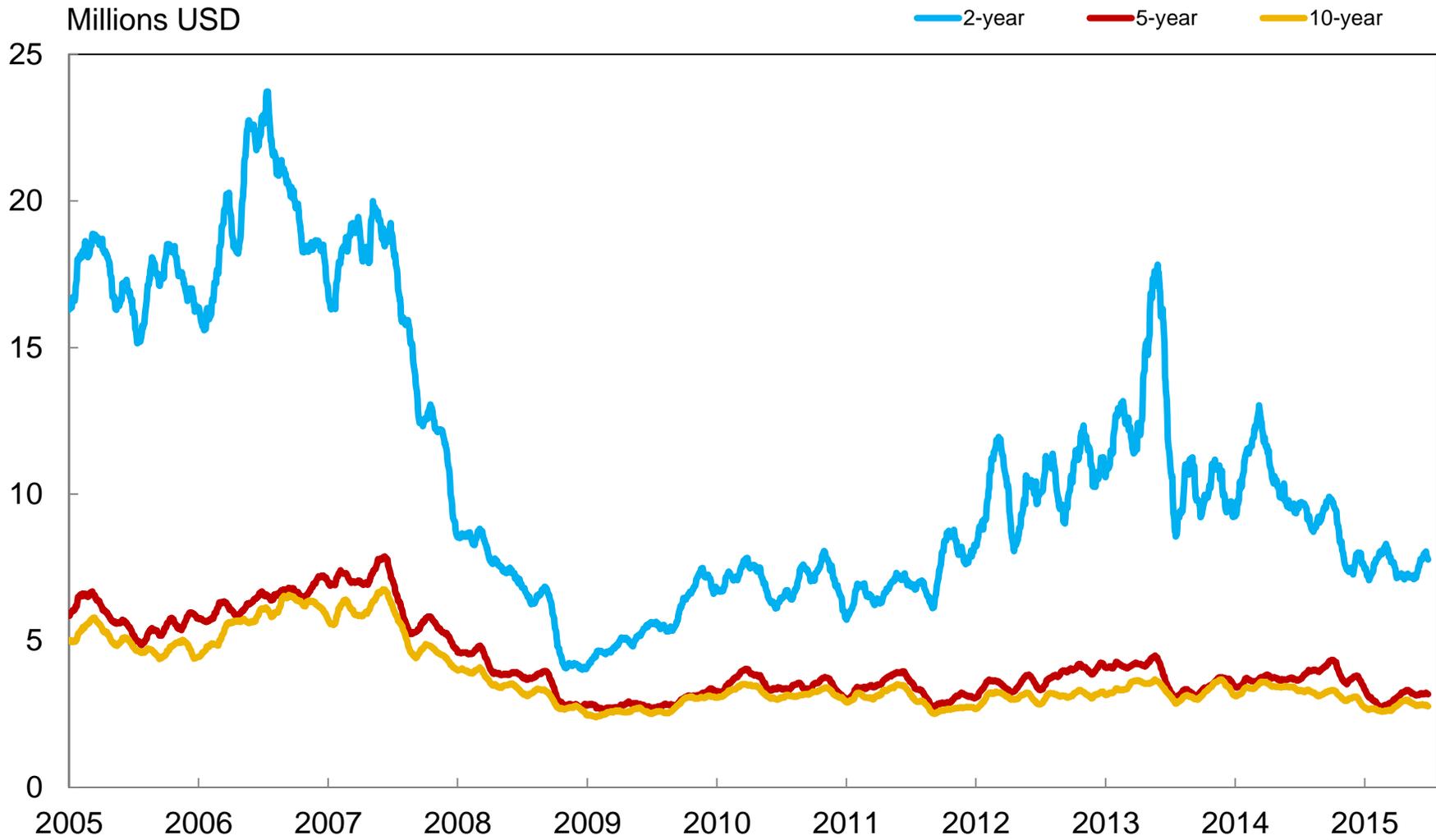
Exhibit 3: Treasury Price Impact



Source: FRBNY staff calculations, based on data from BrokerTec.

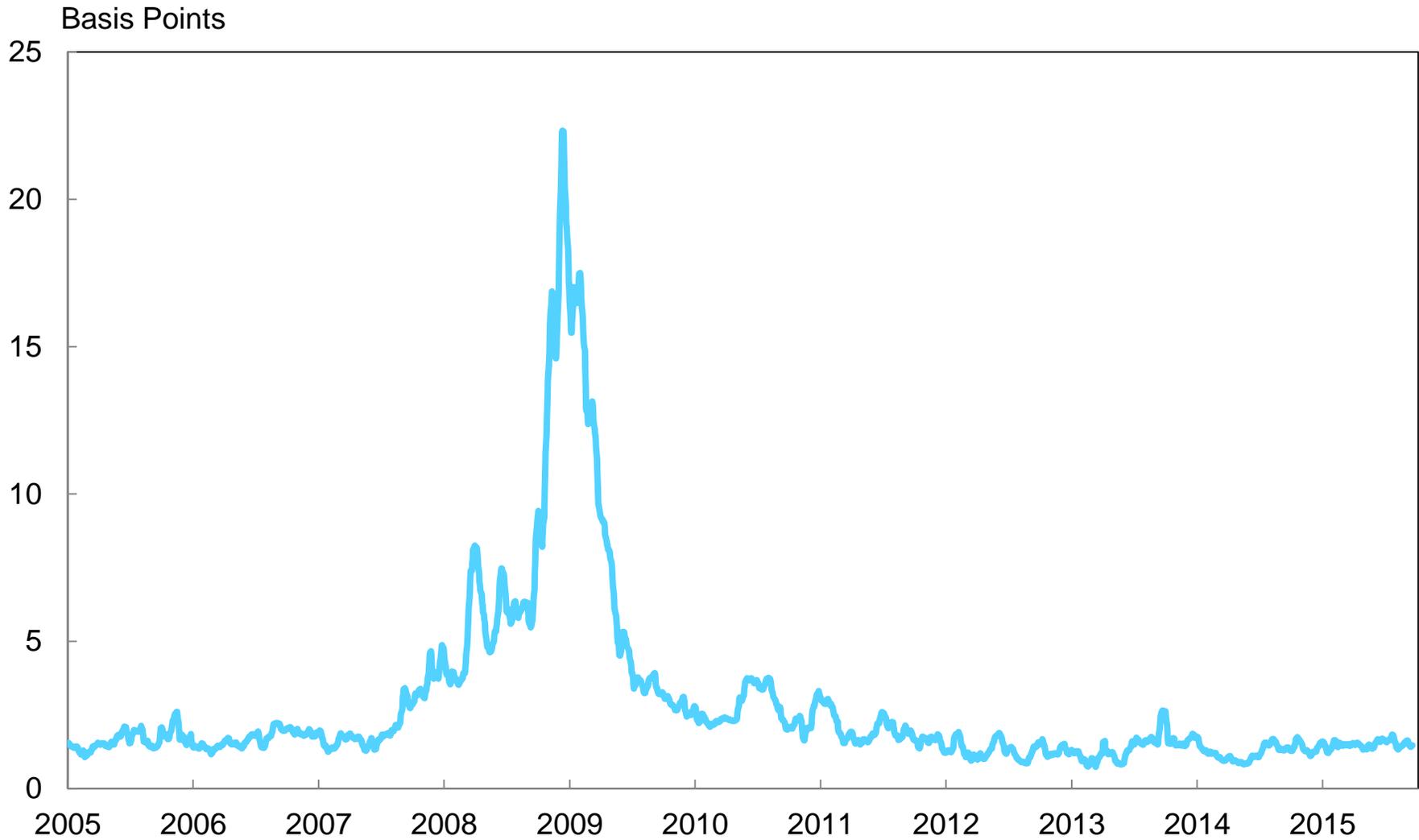
Notes: The exhibit plots four-week moving averages of price impact coefficients for on-the-run notes. The coefficients are estimated from weekly regressions of five-minute price changes on five-minute signed trading volume.

Exhibit 4: Treasury Trade Size



Source: FRBNY staff calculations, based on data from BrokerTec.
Note: The exhibit plots 21-day moving averages of average daily trade size for on-the-run notes.

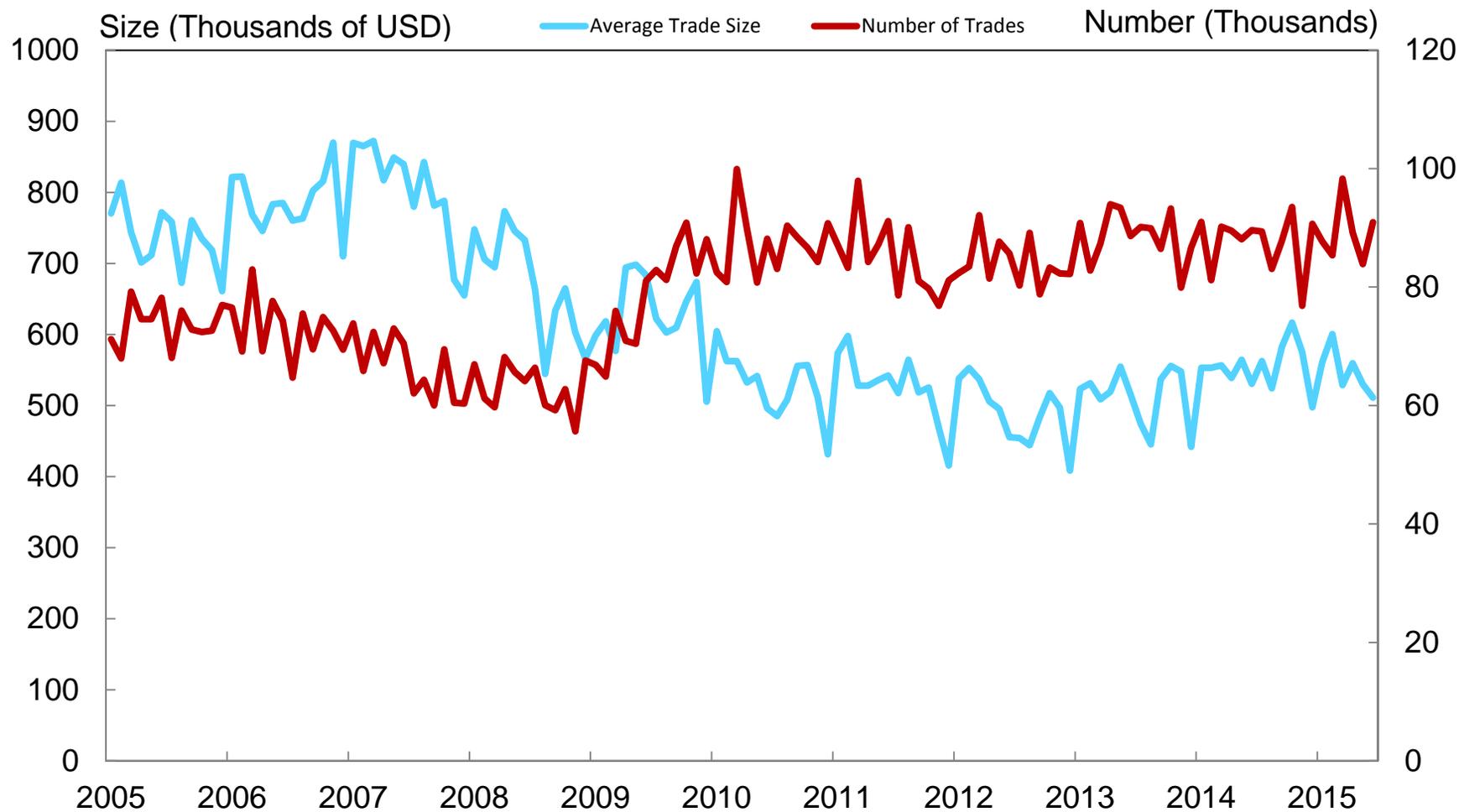
Exhibit 5: Treasury Yield Curve Fitting Errors



Source: FRBNY staff calculations, based on data from the Federal Reserve Board.

Notes: The exhibit plots the 21-day moving average of absolute yield curve fitting errors for two- to ten-year coupon securities from the Nelson-Siegel-Svensson model of Gurkaynak, Sack, and Wright (described in "The U.S. Treasury Yield Curve: 1961 to Present," *Journal of Monetary Economics* 54, [2007]).

Exhibit 6: Corporate Trade Size

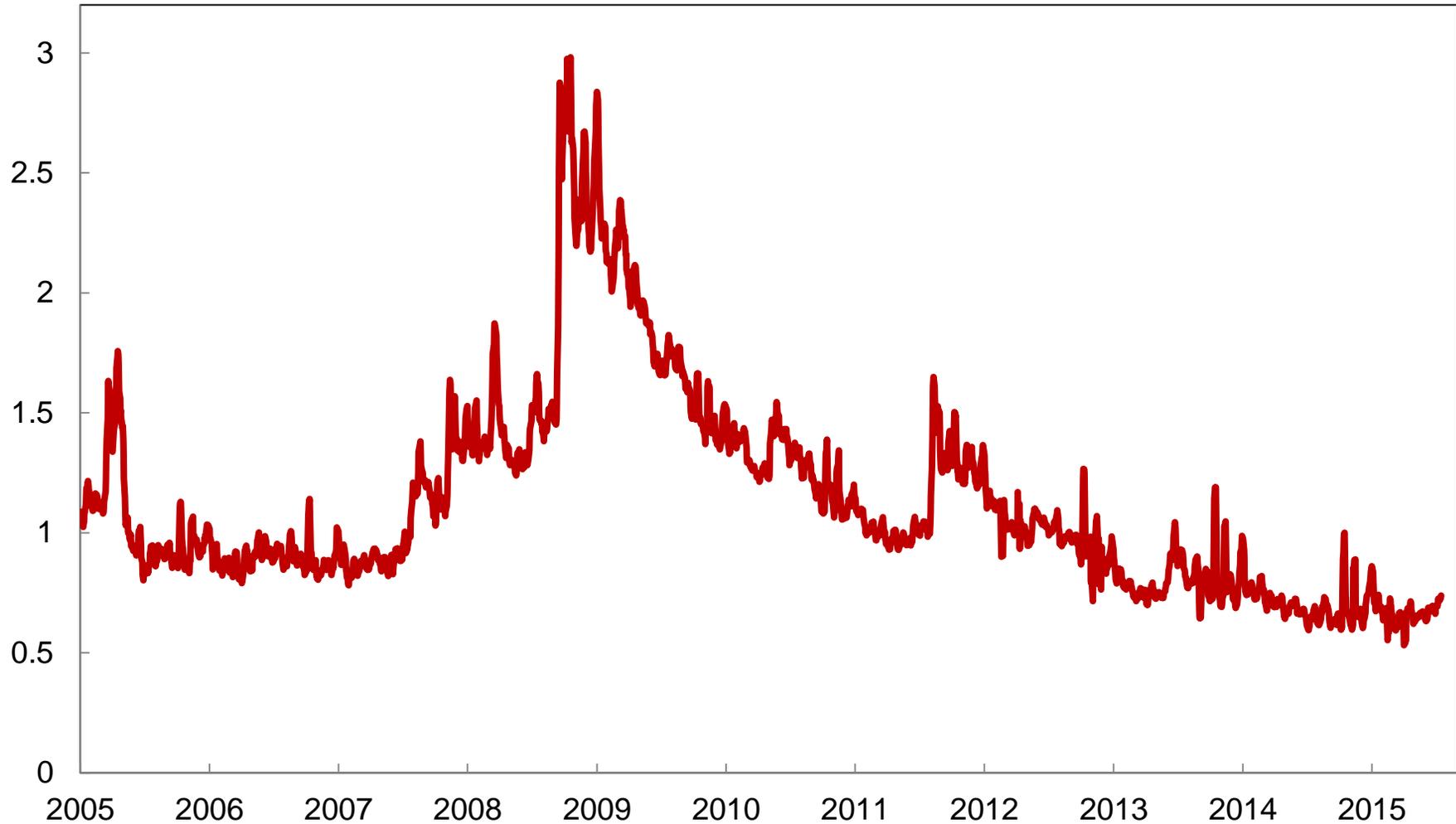


Source: FRBNY staff calculations, based on data from FINRA.

Notes: Trade size is calculated at a daily frequency, averaged over bonds underlying the investment grade 5-year CDX index, and averaged over the month. Number of trades is the daily sum of all trades for bonds underlying the investment grade 5-year CDX index, averaged over the month.

Exhibit 7: Corporate Effective Bid-Ask Spreads

Percent

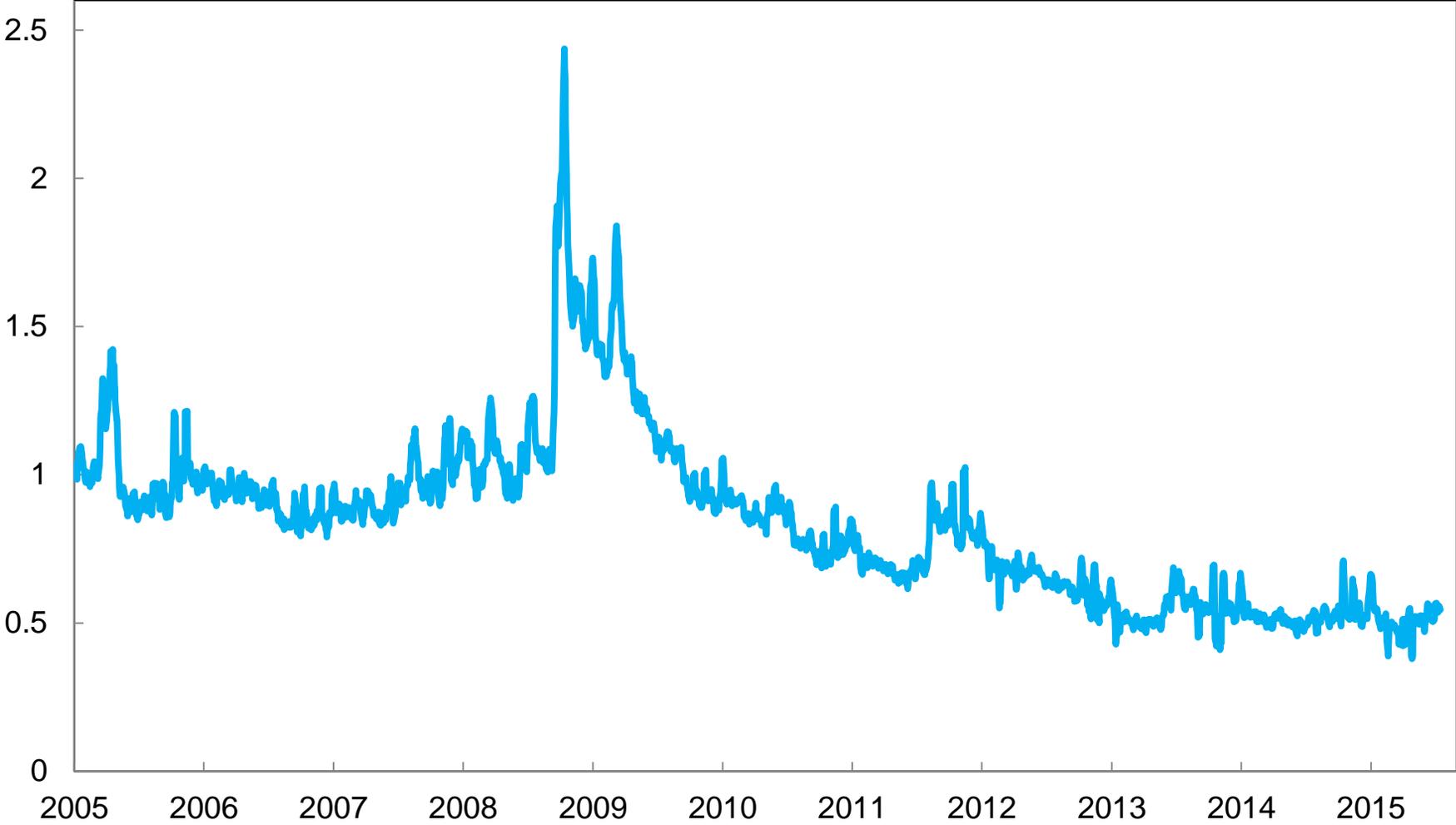


Source: FRBNY staff calculations, based on data from FINRA.

Notes: Effective bid-ask spreads are calculated at the daily frequency and averaged over bonds underlying the investment grade 5-year CDX index. Spreads are expressed as a percent of par. Five-day moving averages are plotted.

Exhibit 8: Corporate Price Impact

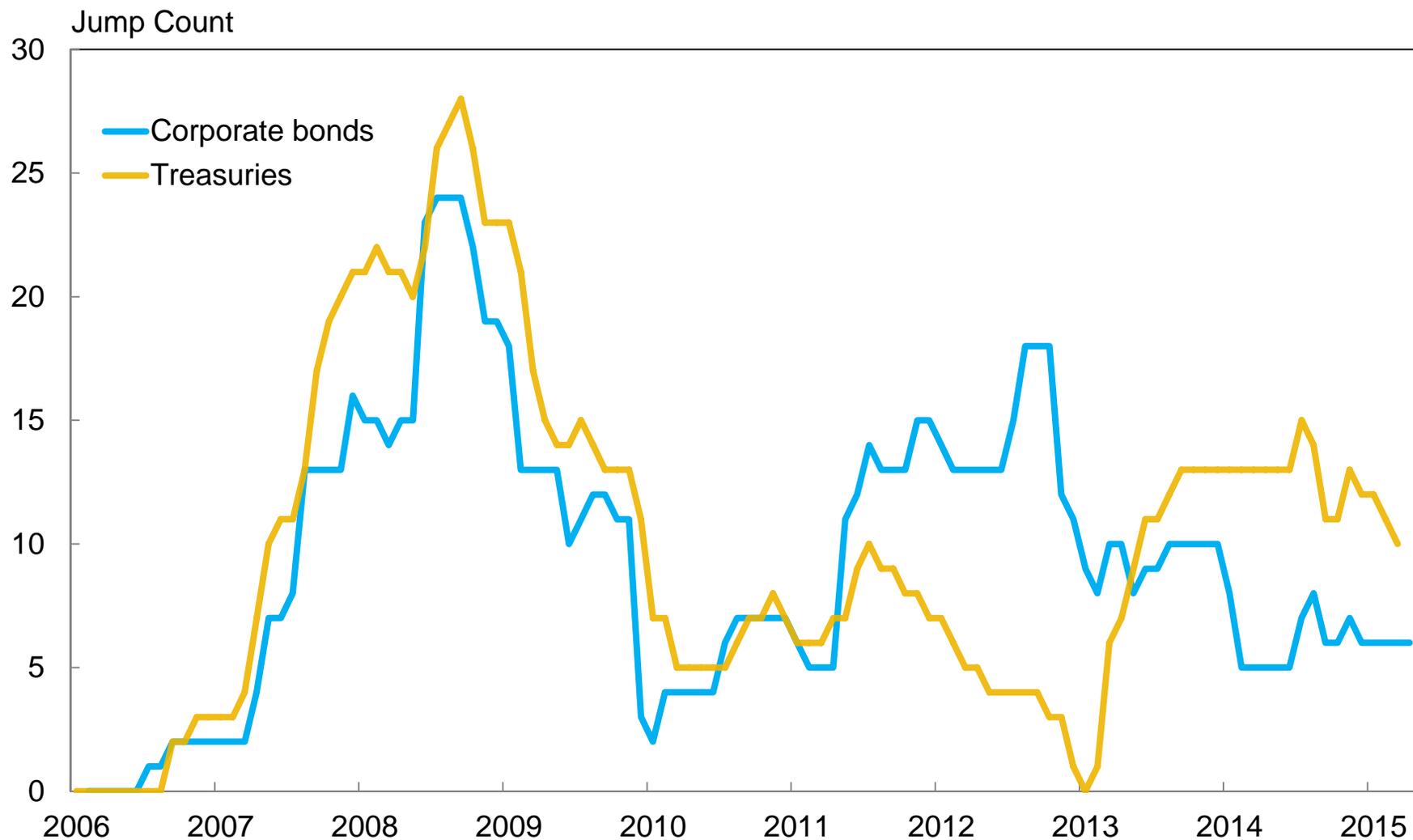
Percent per 100 Million USD



Source: FRBNY staff calculations, based on data from FINRA.

Notes: Price impact is calculated at the daily frequency and averaged over bonds underlying the investment grade 5-year CDX index. Price impact is defined as the absolute percent return divided by dollar volume. Five-day moving averages are plotted.

Exhibit 9: Corporate and Treasury Liquidity Risk



Source: FRBNY staff calculations, based on data from BrokerTec and FINRA.

Notes: Liquidity risk is defined as the number of jumps in a liquidity index in a trailing 18-month window. The liquidity index is the first principal component of several liquidity metrics. Jumps are calculated relative to a local estimate of continuous variation.