

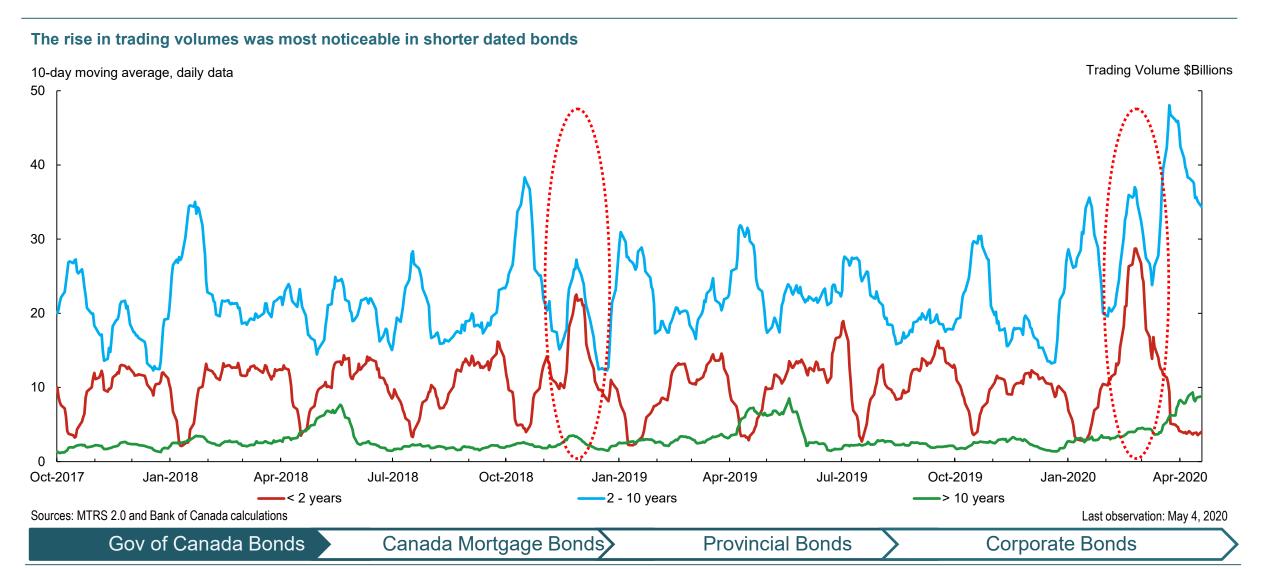


Liquidity Conditions in Canadian Fixed-Income Markets During the Covid-19 Shock

May 13th, 2020



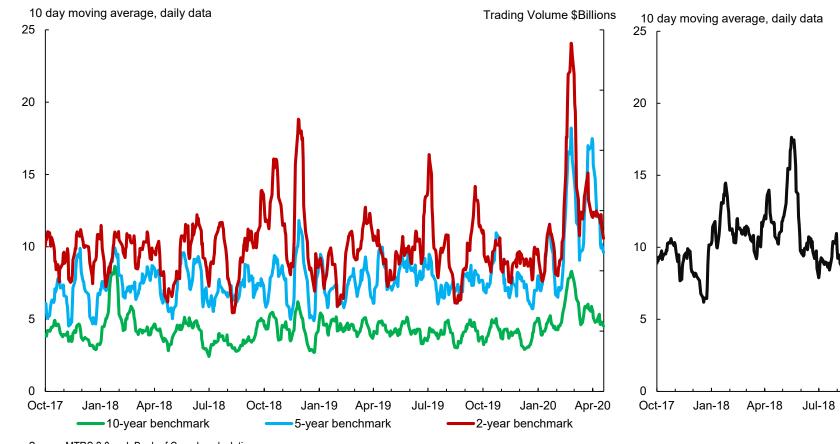
GoC trading volumes increased for all maturities

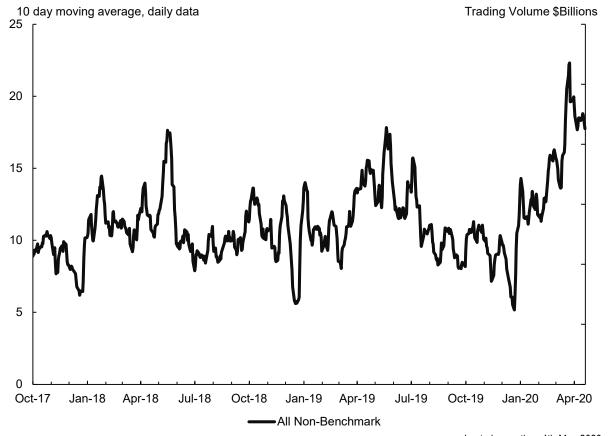


Both benchmark & non-benchmark GoC trading volumes rose

Increase in trading-volume was most noticeable for 2- and 5-year benchmarks

Non-benchmark GoC volumes rose past recent records





Source: MTRS 2.0 and Bank of Canada calculations

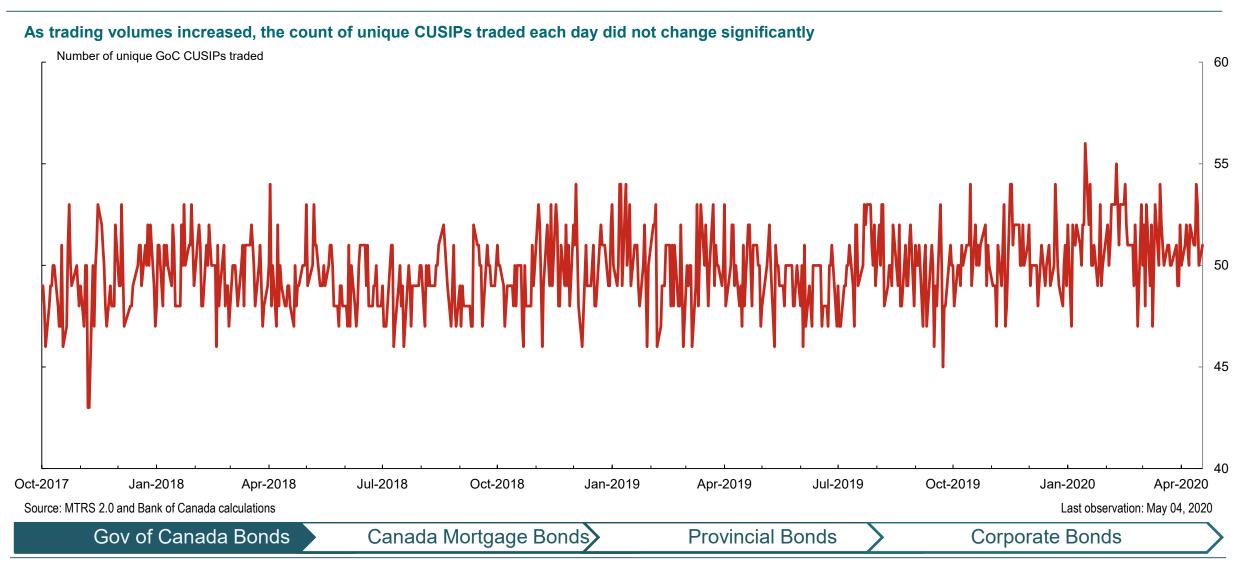
Gov of Canada Bonds

Last observation: 4th May 2020

Canada Mortgage Bonds

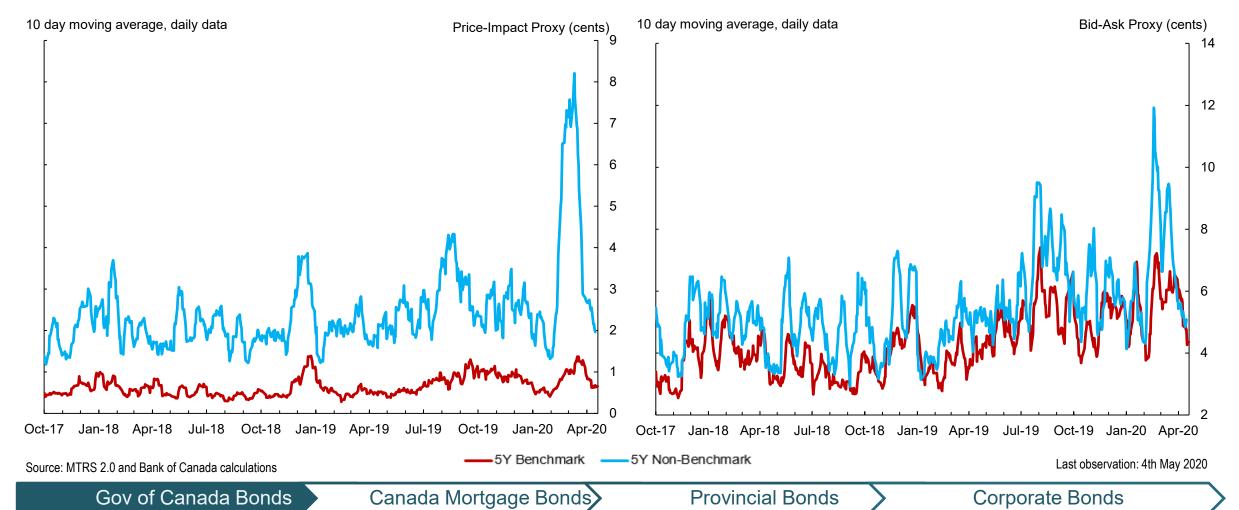
Provincial Bonds

The increase in trading volume did not change trading concentration



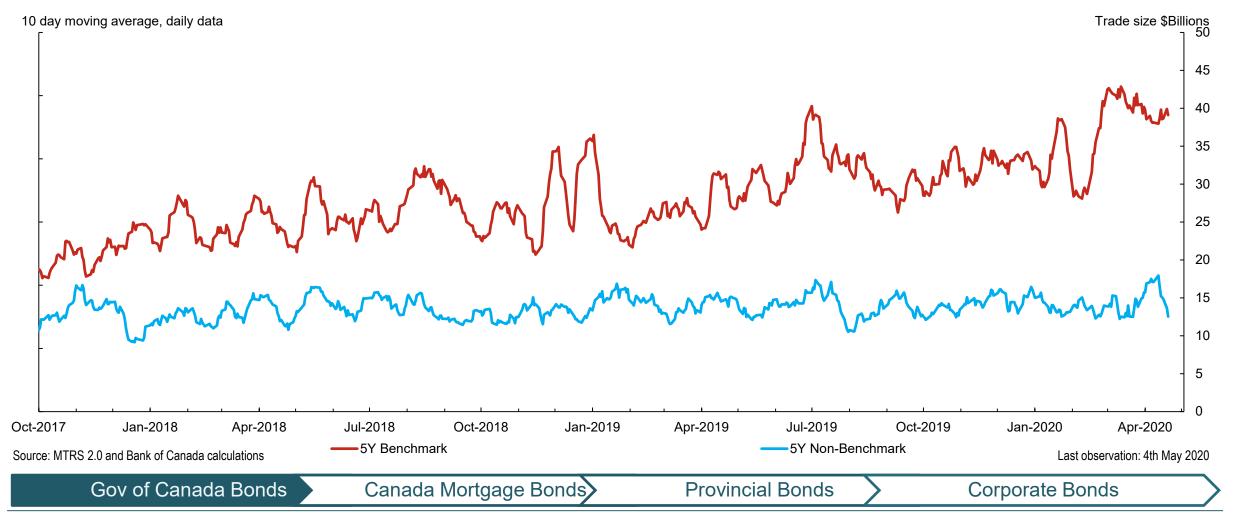
As GoC trading volumes increased, so did the cost of liquidity



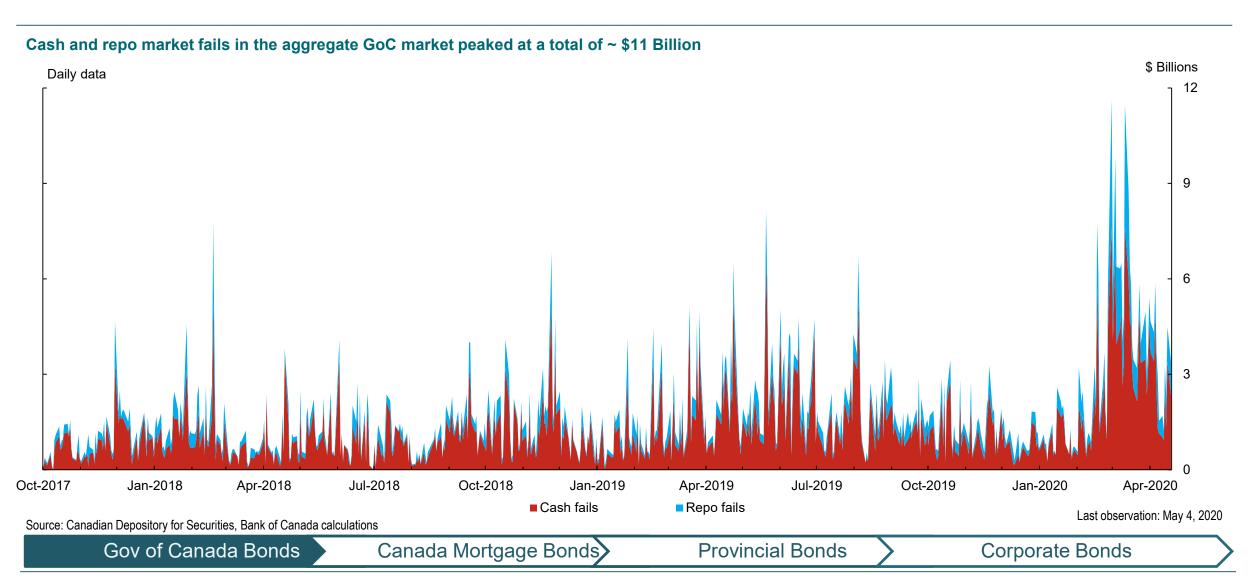


While GoC market liquidity declined, trade sizes were unaffected





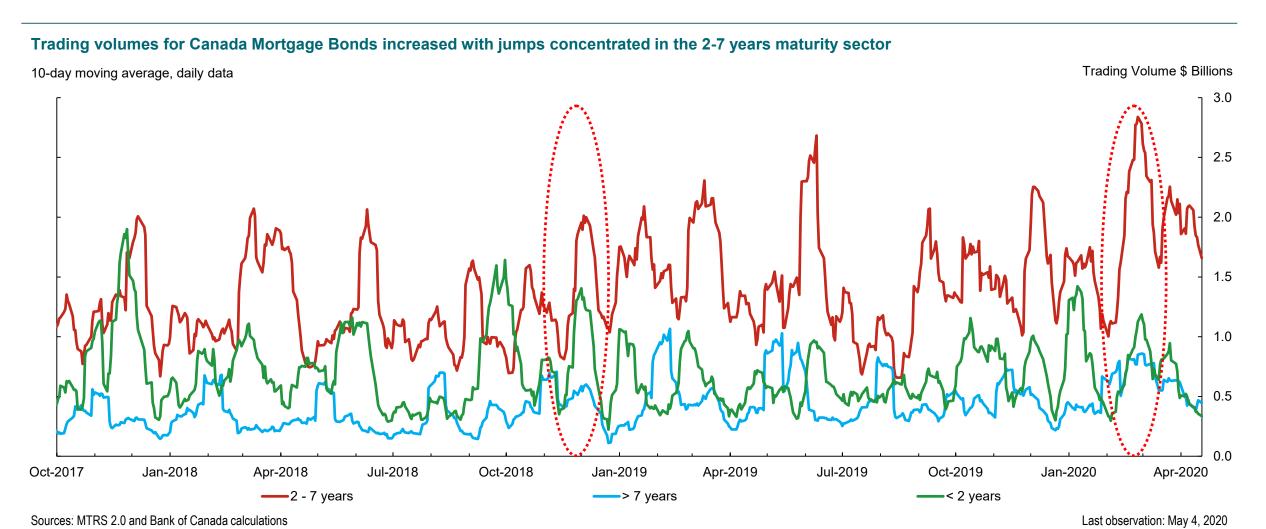
Cash and repo fails in GoCs shot up as trading volumes increased



Similar to GoCs, trading volumes for CMBs increased

Canada Mortgage Bonds

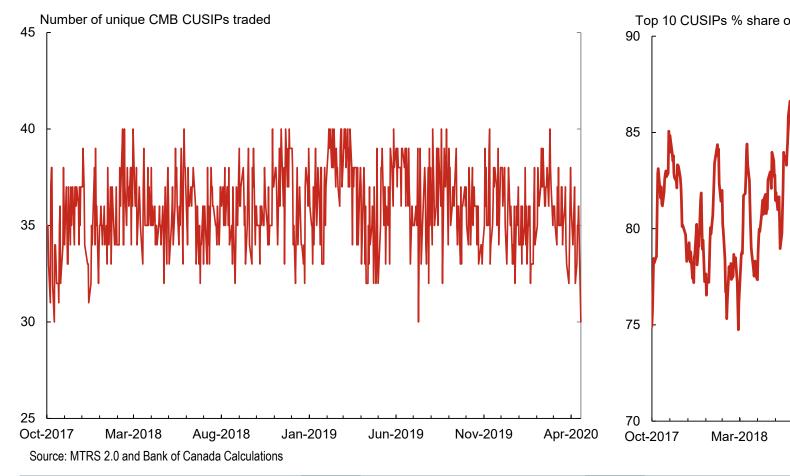
Gov of Canada Bonds

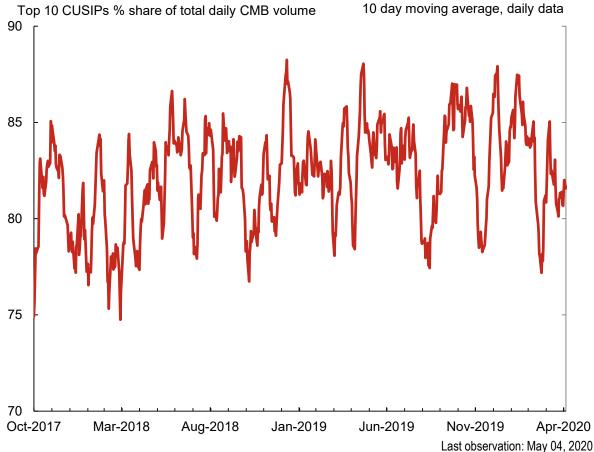


Provincial Bonds

Changes in trading volumes for CMBs did not alter trade concentrations

Even as trading volumes changed, the number of unique CUSIPs traded and the volume share of top 10 CMB CUSIPs did not markedly shift





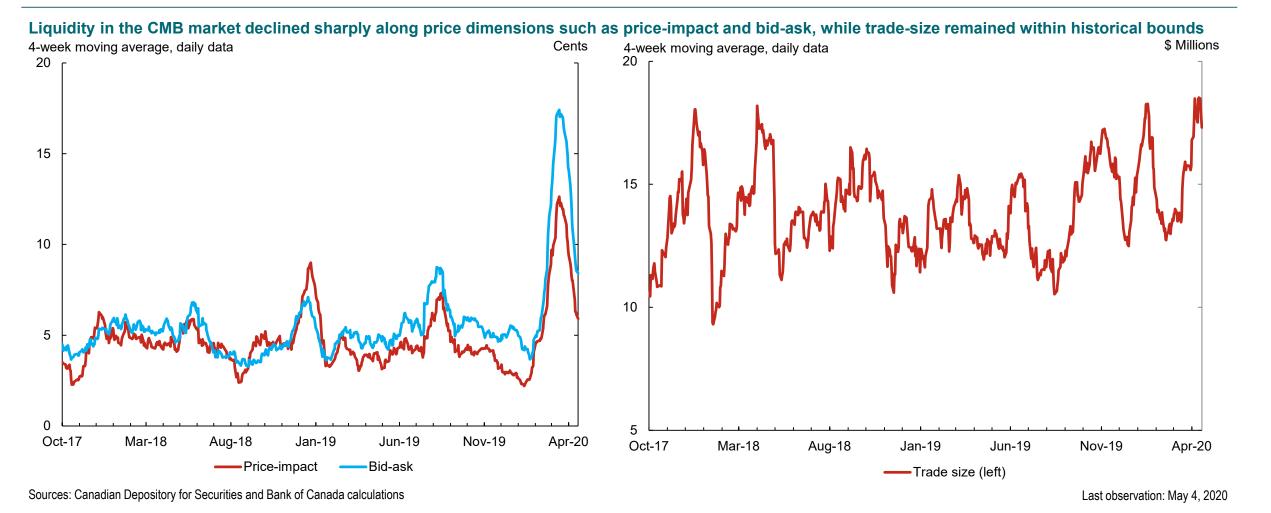
Gov of Canada Bonds

Canada Mortgage Bonds

Provincial Bonds

The cost of liquidity also increased for CMBs

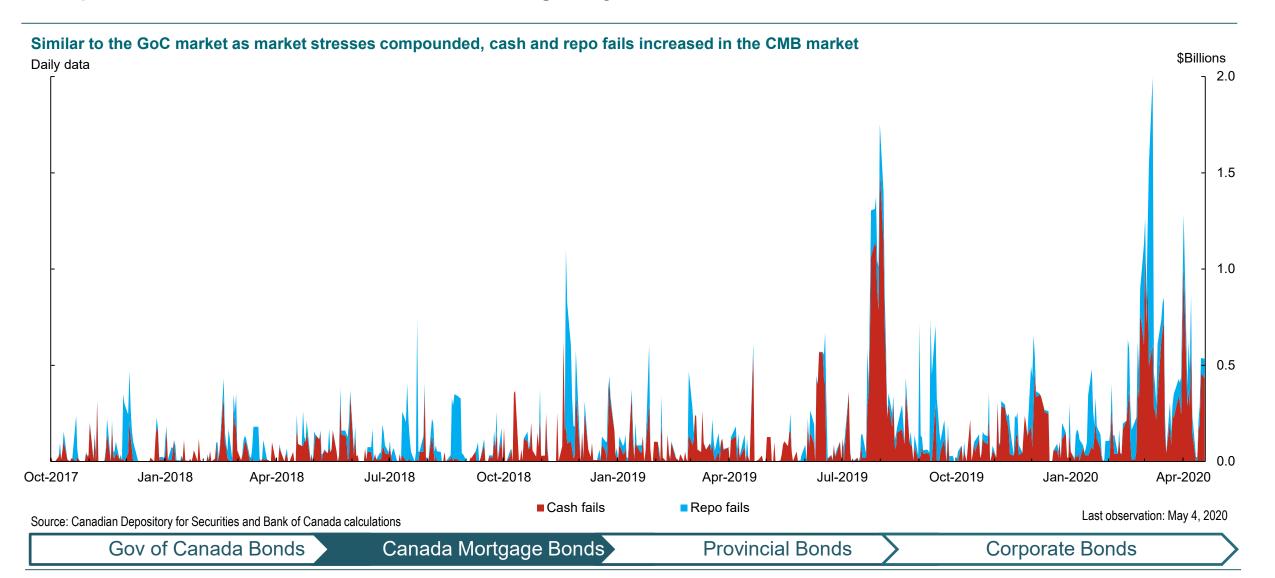
Gov of Canada Bonds



Provincial Bonds

Canada Mortgage Bonds

Repo fails accounted for the majority of settlement fails in the CMB market



Trading volume in provincial bonds rose across all maturities

Canada Mortgage Bonds

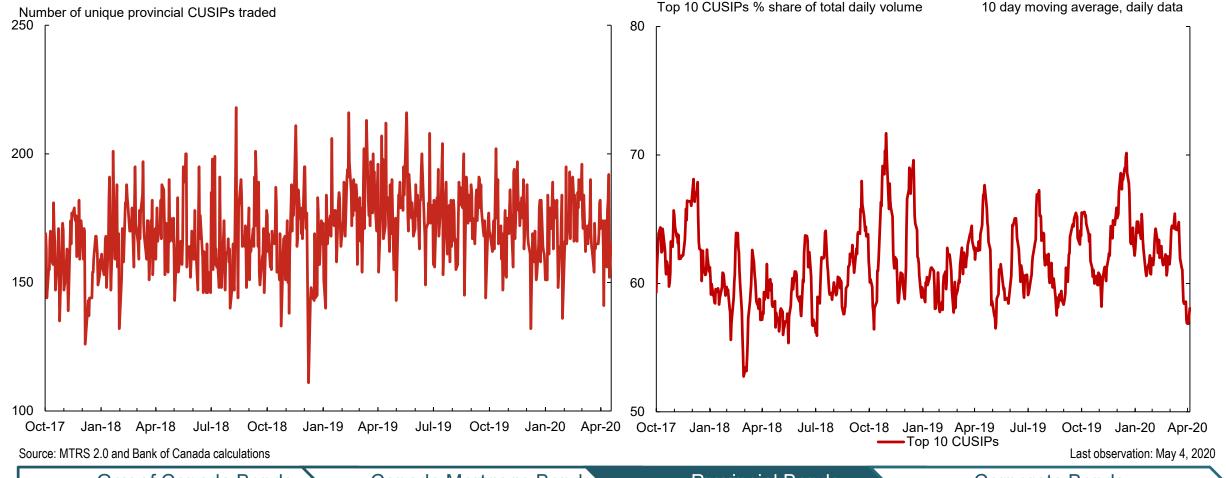
Gov of Canada Bonds

Similar to the GOC & CMB market, trading volumes rose for provincial bonds across all maturity spectrums with the largest increase in shorter tenors 10-day moving average, daily data Trading Volume \$Billions Jan-2020 Oct-2017 Jan-2018 Apr-2018 Jul-2018 Oct-2018 Jan-2019 Apr-2019 Jul-2019 Oct-2019 Apr-2020 < 2 years</p> -2 - 10 years ----> 10 years Sources: MTRS, Bank of Canada calculations Last observation: May 4, 2020

Provincial Bonds

Trading concentrations remained unaffected in the provincial bond market



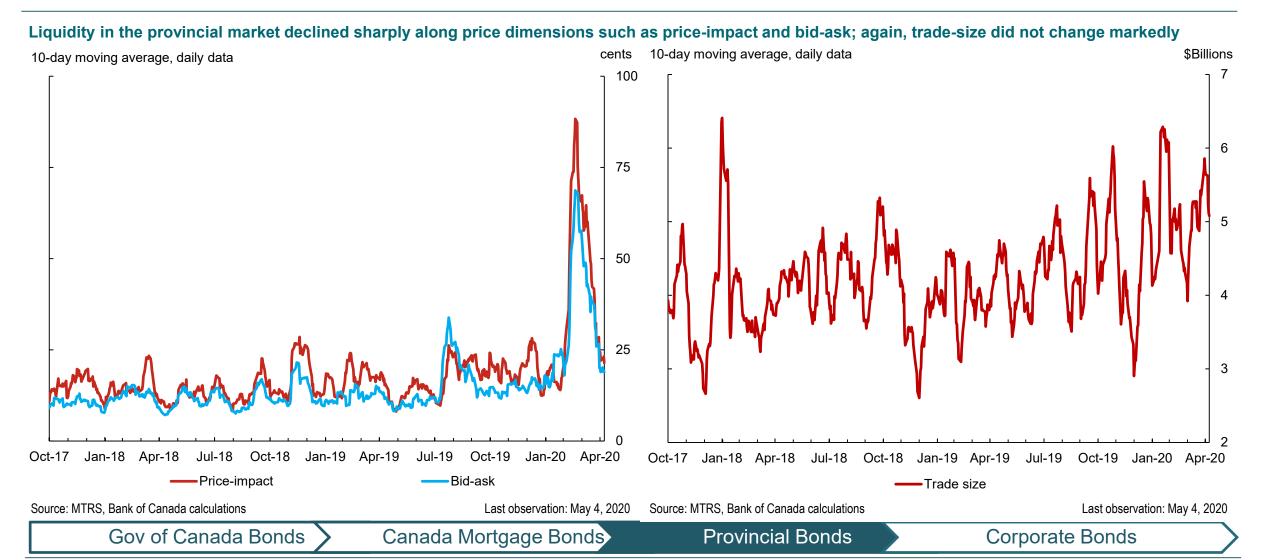


Gov of Canada Bonds

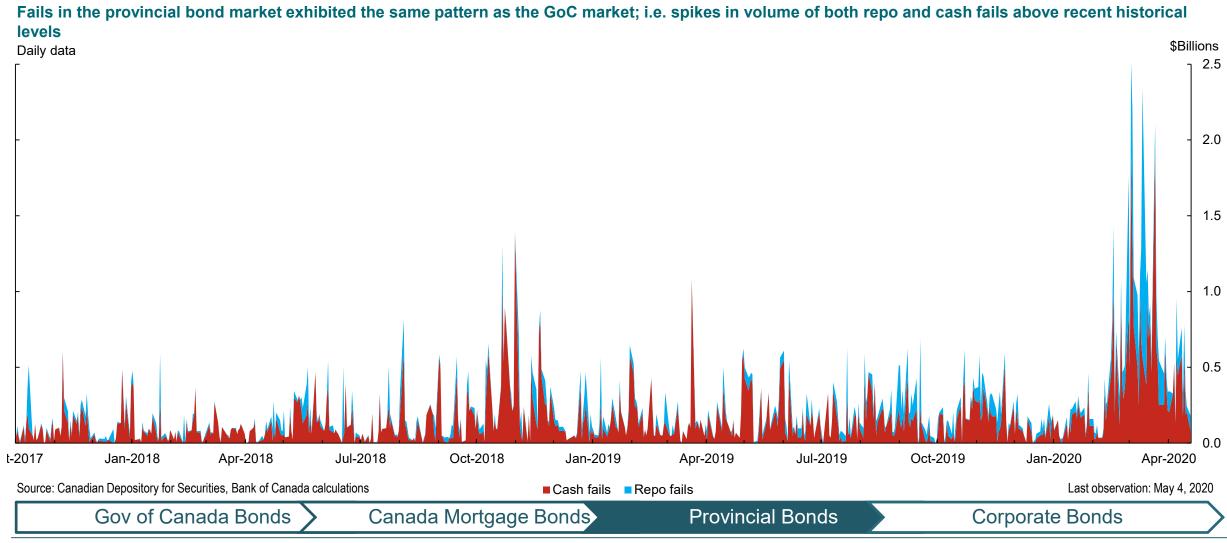
Canada Mortgage Bonds

Provincial Bonds

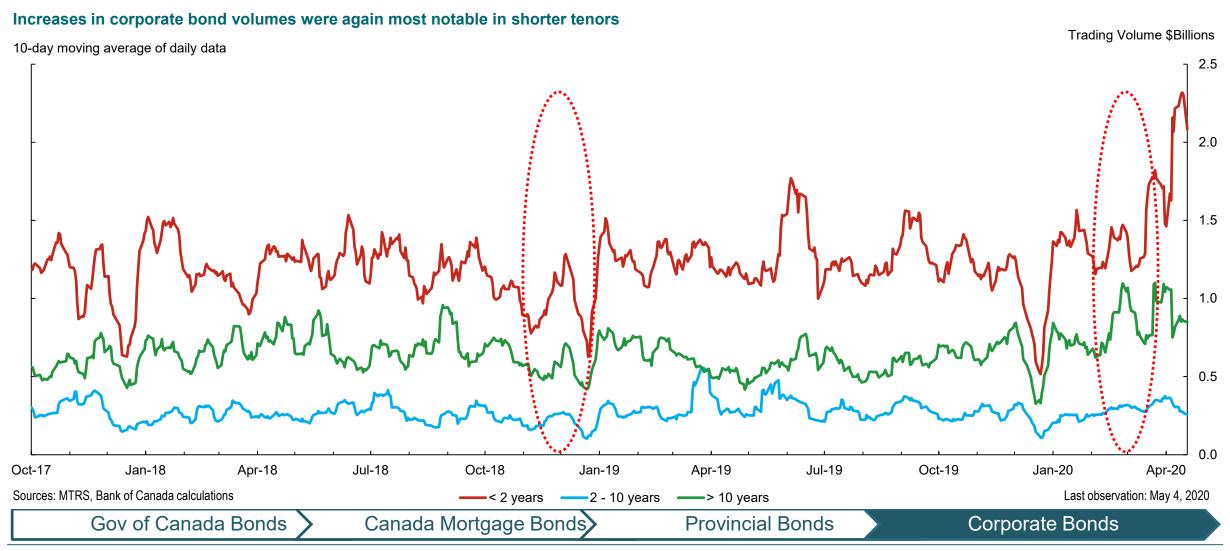
Similar to other markets liquidity declined sharply along price dimensions



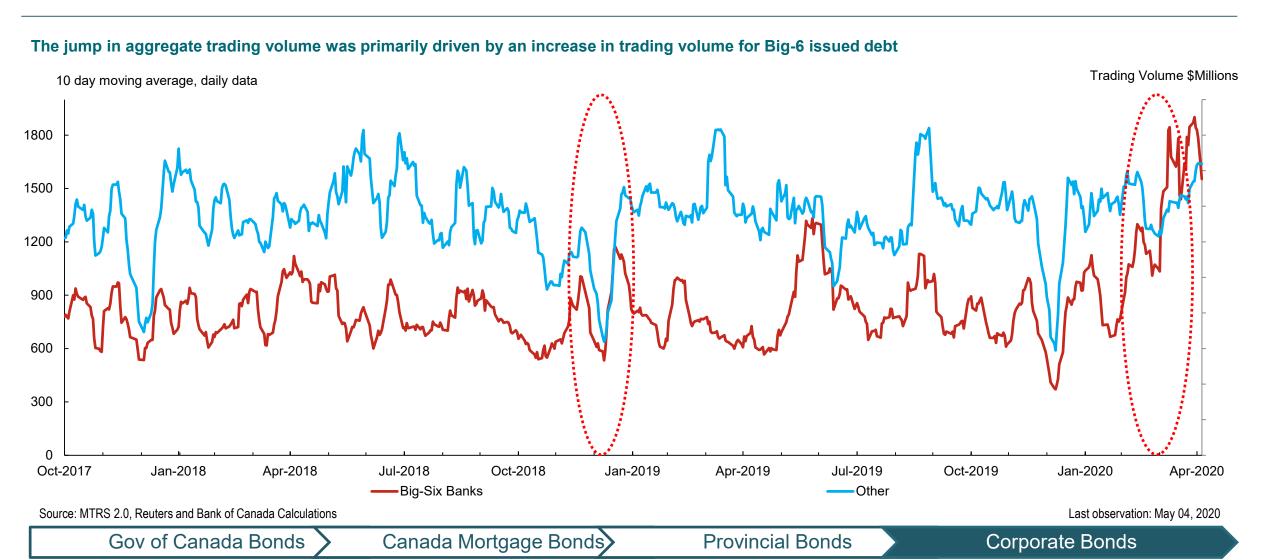
Fails in the provincial bond market peaked in March



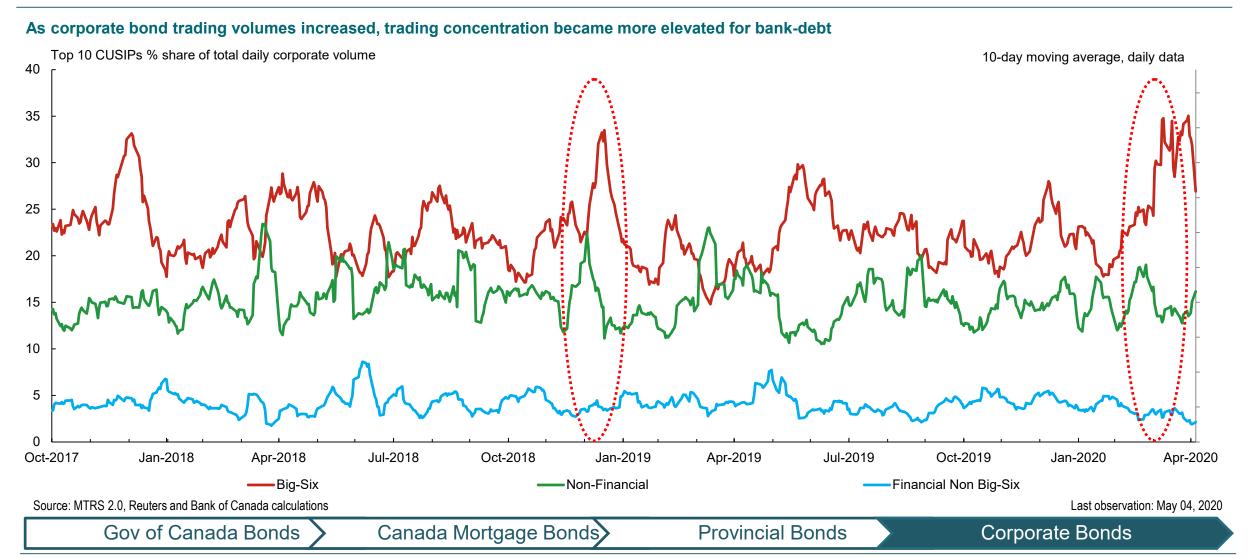
Corporate bond volumes increased slightly during Covid-19



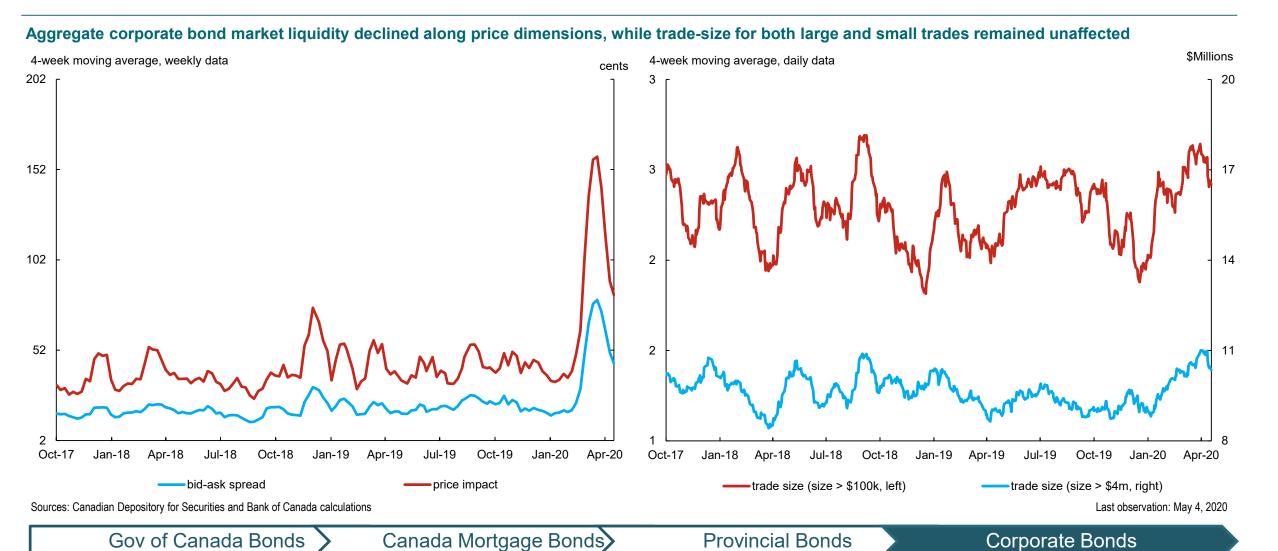
The increase in aggregate trading volume was driven by deposit notes



Trading became noticeably more concentrated in bank-debt

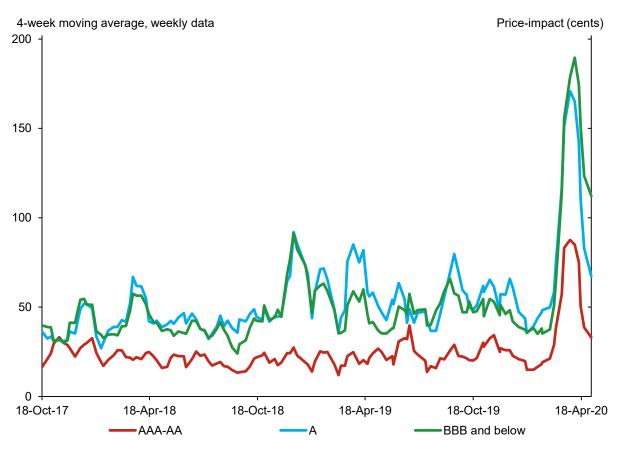


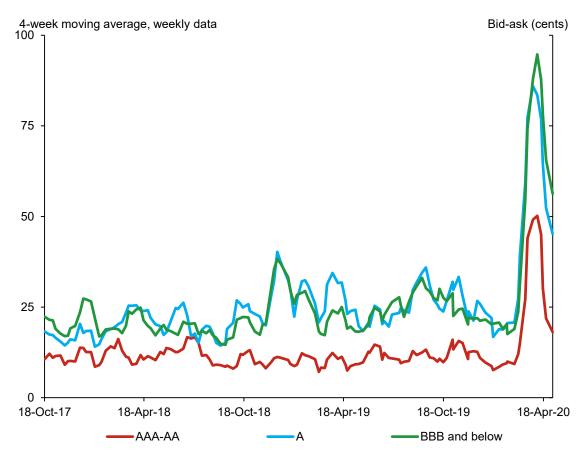
Aggregate corporate liquidity deteriorated sharply



The decline in corporate liquidity was worse for lower-rated debt

The decline in corporate bond market liquidity was concentrated in "BBB and below" and "A" rated debt





Sources: Canadian Depository for Securities and Bank of Canada calculations

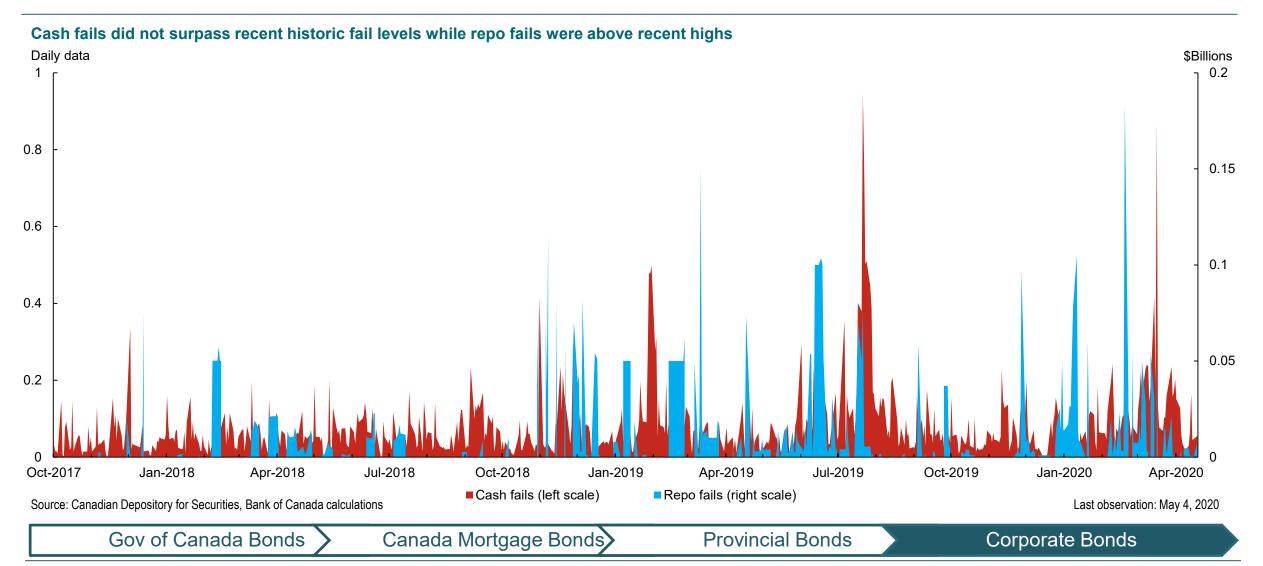
Last observation: May 4, 2020

Gov of Canada Bonds

Canada Mortgage Bonds

Provincial Bonds

Cash fails increased more than repo fails in the corporate bond market

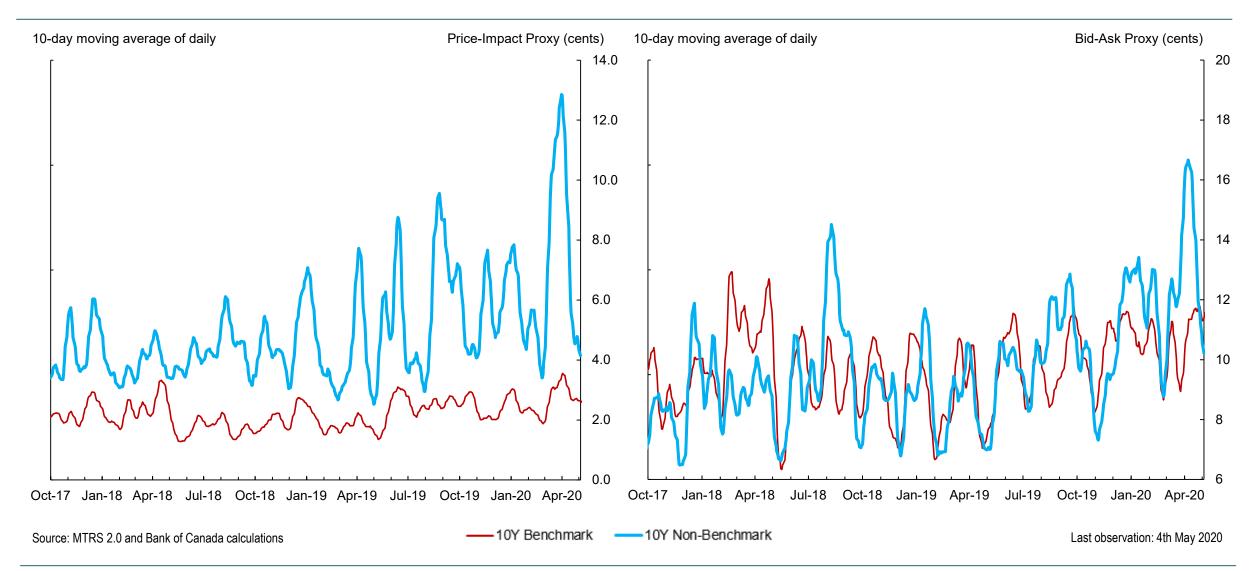




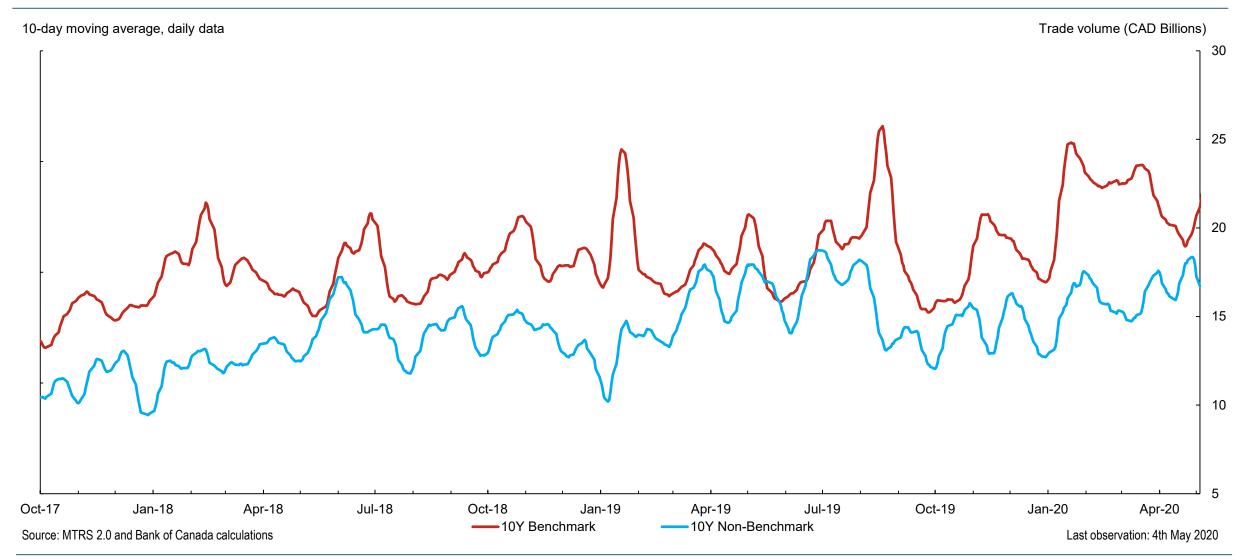
Appendix Slides



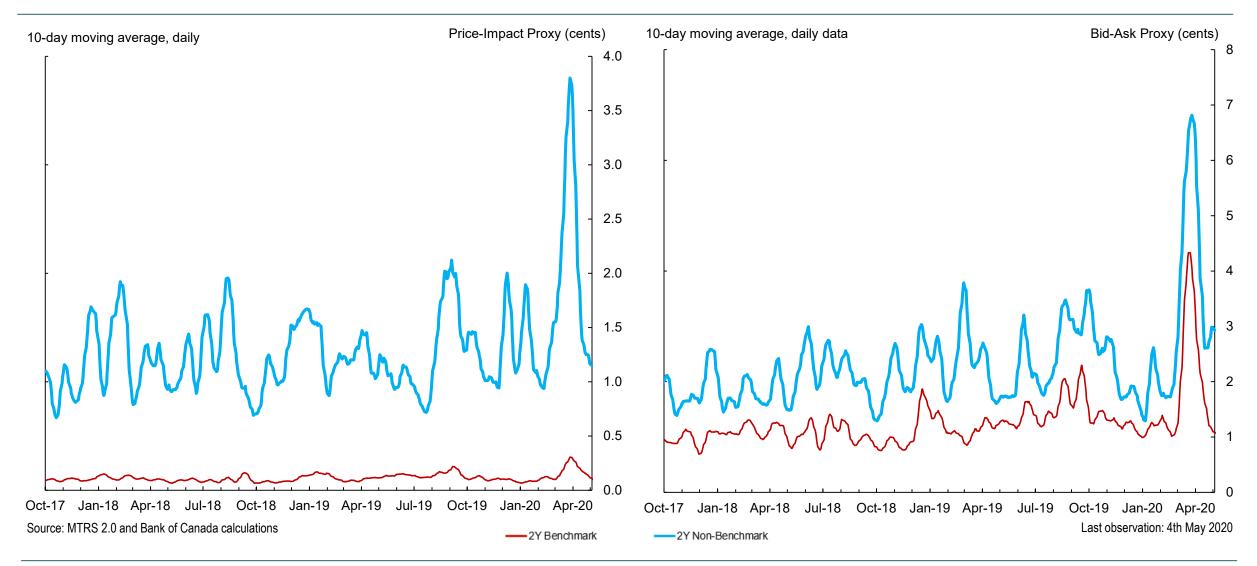
Price impact & bid-ask proxies for 10-year GoCs



Trade-size for 10-year GoCs



Price impact & bid-ask proxies for 2-year GoCs



Trade-size for 2-year GoCs

