



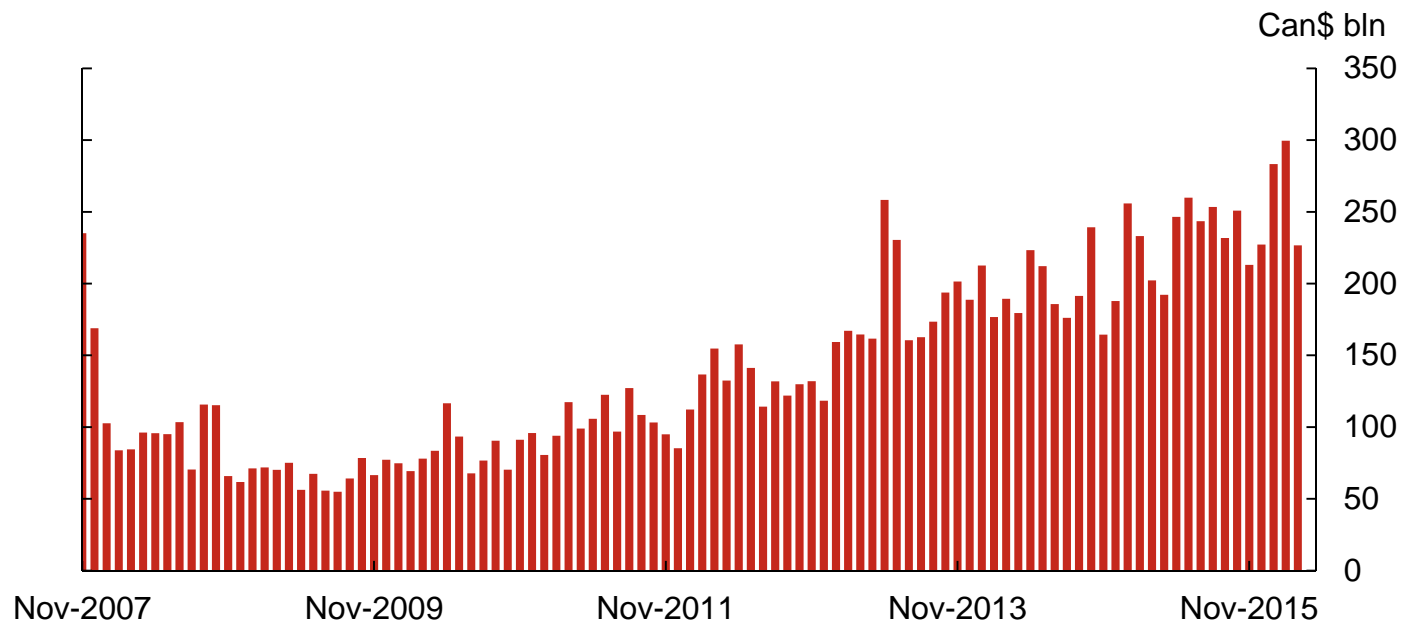
Trends in the CGBs

25 April 2016

Steady growth in CGB volumes

Chart 1: Monthly CGB trade volume (notional)

monthly sum



Notes: Sum of the notional of monthly quantity traded 6:00-16:30

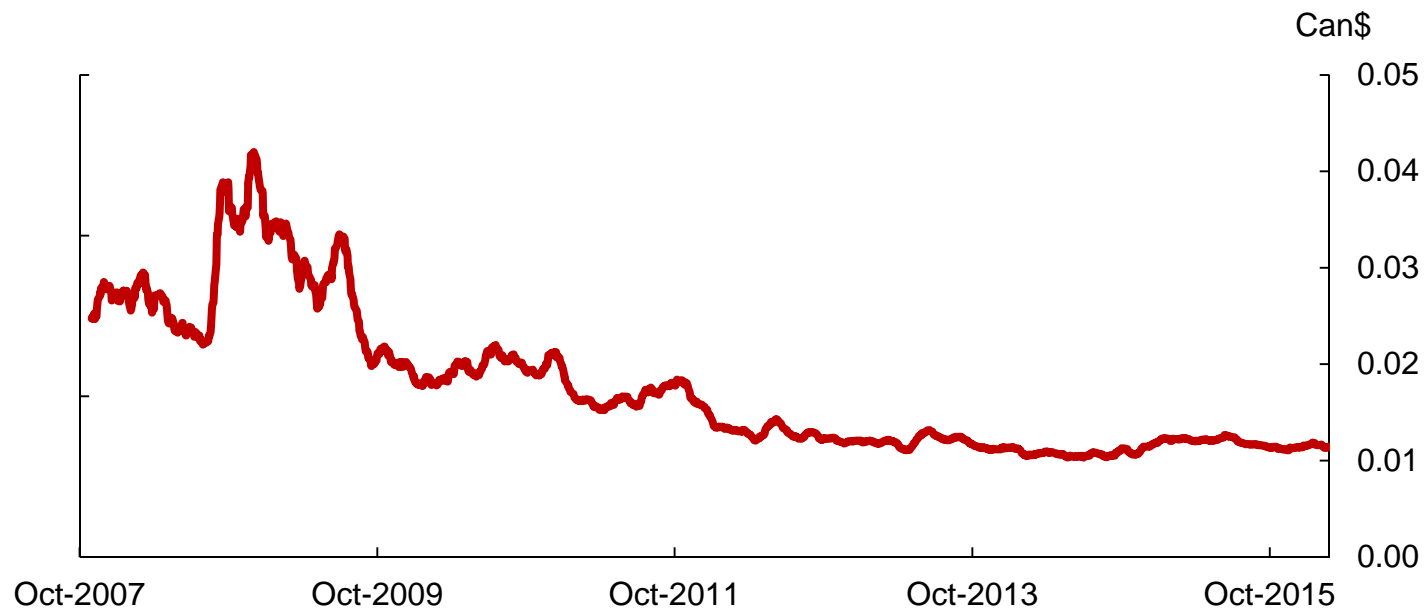
Source: Montreal Exchange, Bank of Canada calculations

Last observation: 31 December 2015

Bid-ask spread has converged to contract minimum

Chart 2: Daily average CGB bid-ask spread

20-day moving average



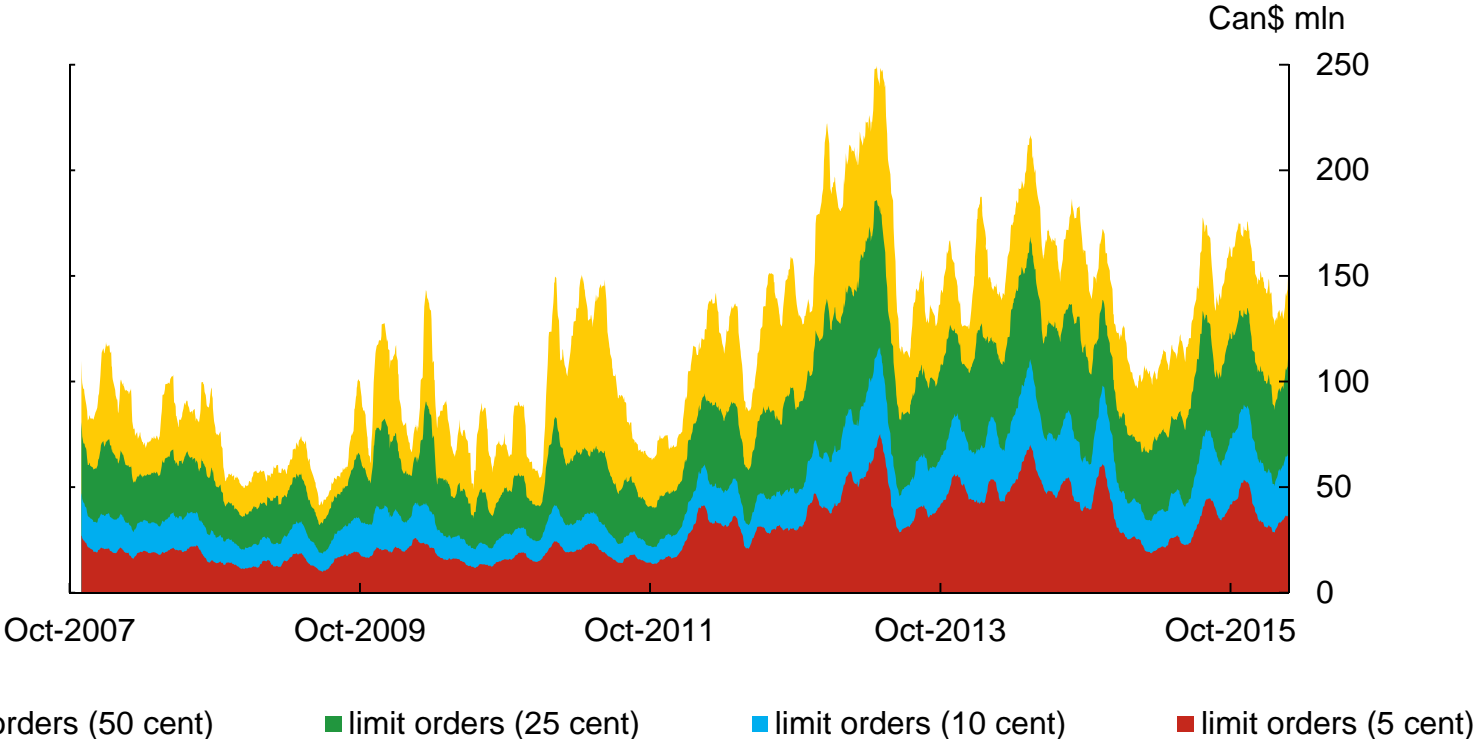
Notes: 20-day moving average of daily average bid-ask spread, 8:20-16:00

Source: Montreal Exchange, Bank of Canada calculations

Last observation: 23 March 2016

The MX order book has grown more populated

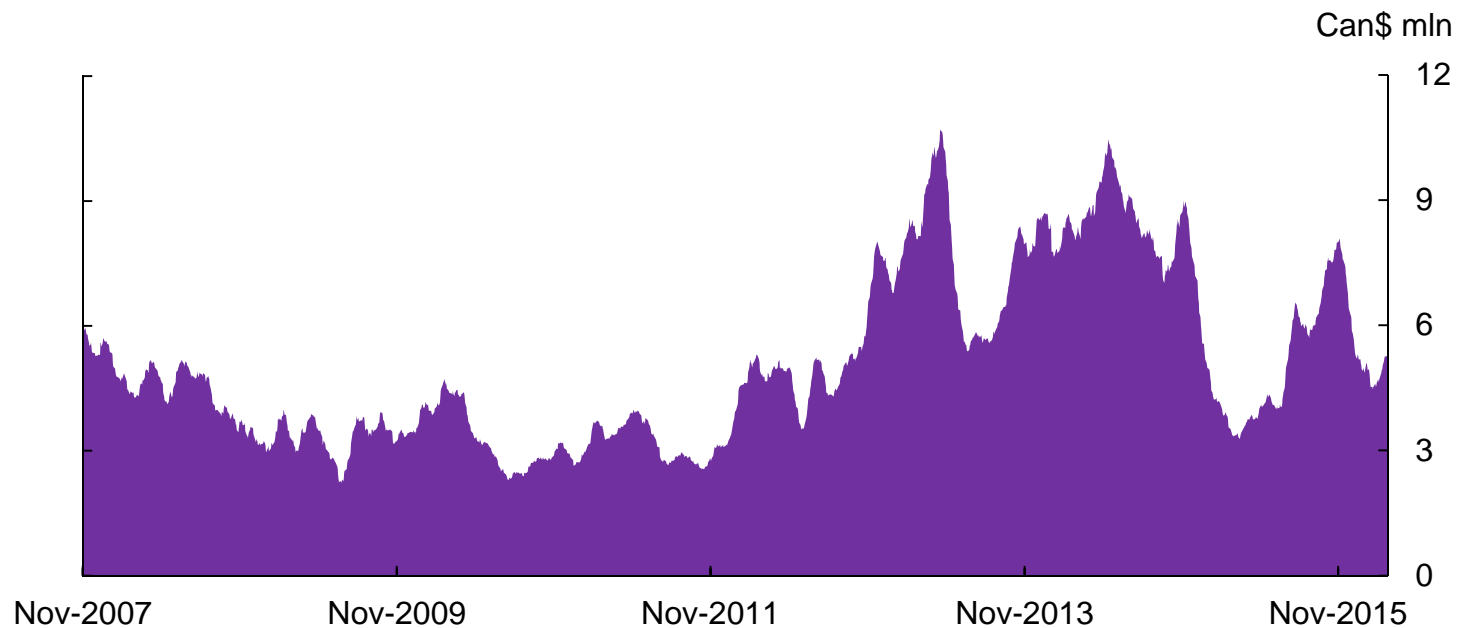
Chart 3: Notional value of visible CGB limit orders at four price ranges from the mid-quote
 rolling 20-day moving avg



Notes: 20-day moving average of daily average notional limit orders within four price ranges from the mid-quote, 8:20-16:00
 Source: Montreal Exchange, Bank of Canada calculations
 Last observation: 23 March 2016

Limit-order size at the inside market is unchanged

Chart 4: Notional value of visible CGB limit orders at the best bid and ask
20-day moving average



Notes: 20-day moving average of daily average notional limit orders at the best bid and ask, 8:20-16:00

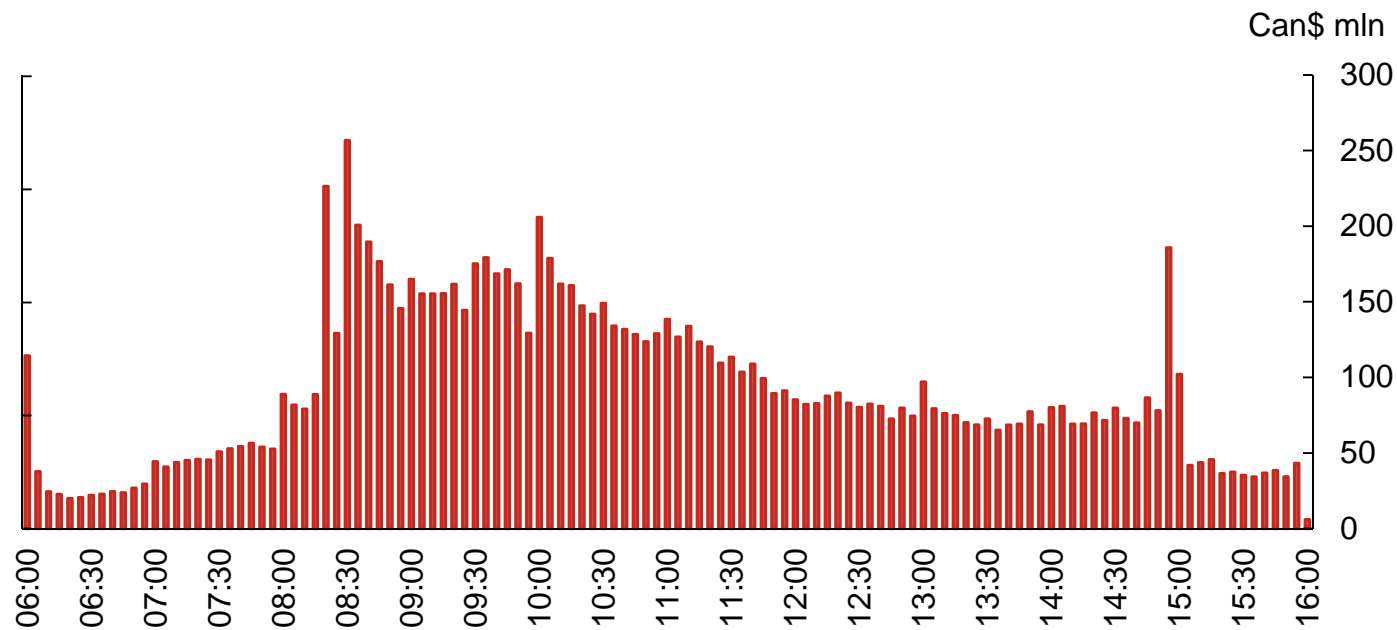
Source: Montreal Exchange, Bank of Canada calculations

Last observation: 23 March 2016

Highest trading volume occurs in the morning (ET)

Chart 5: Intraday CGB trade volume (notional)

five-minute intervals, 2015 data



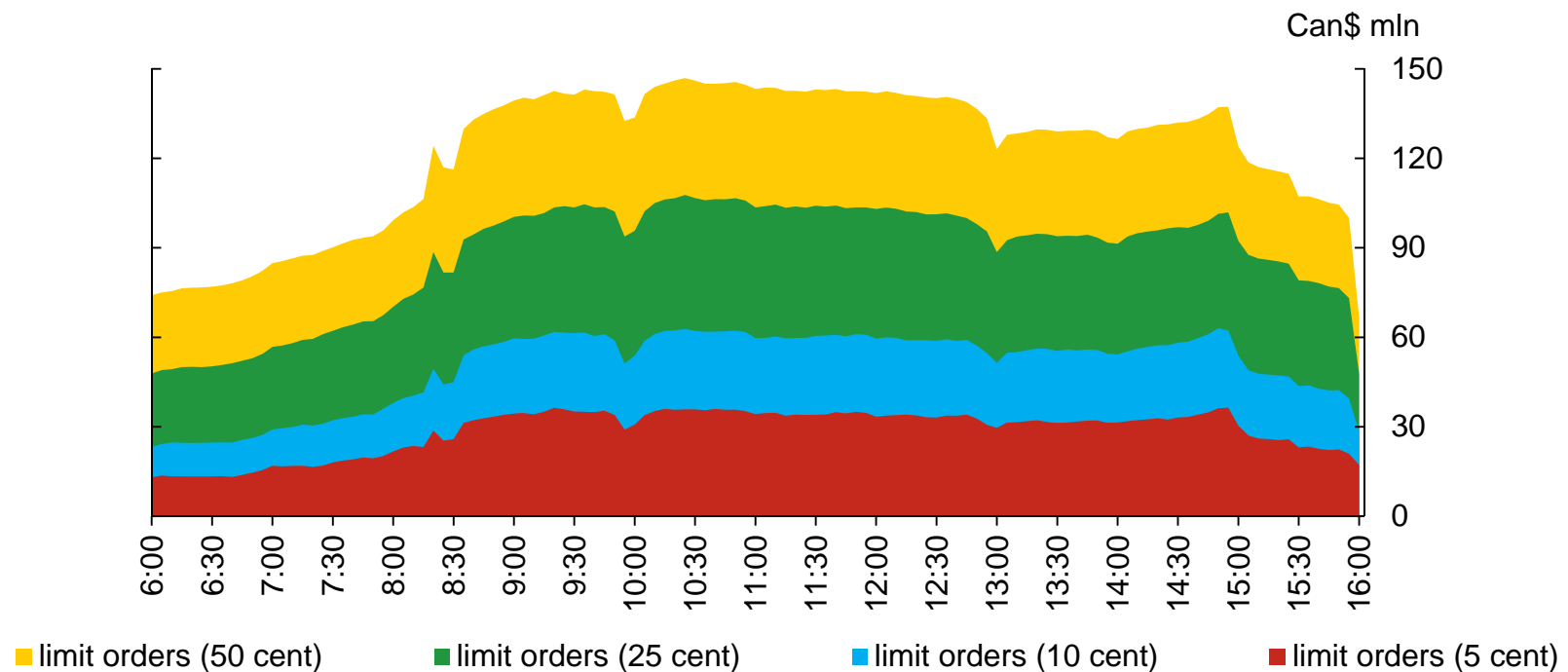
Notes: Five-minute sums of the notional of quantity traded, 6:00-16:30

Source: Montreal Exchange, Bank of Canada calculations

Last observation: 31 December 2015

The order book is relatively stable through the day

Chart 6: Notional value of visible CGB limit orders at four price ranges from the mid-quote
five-minute intervals, 2015 data



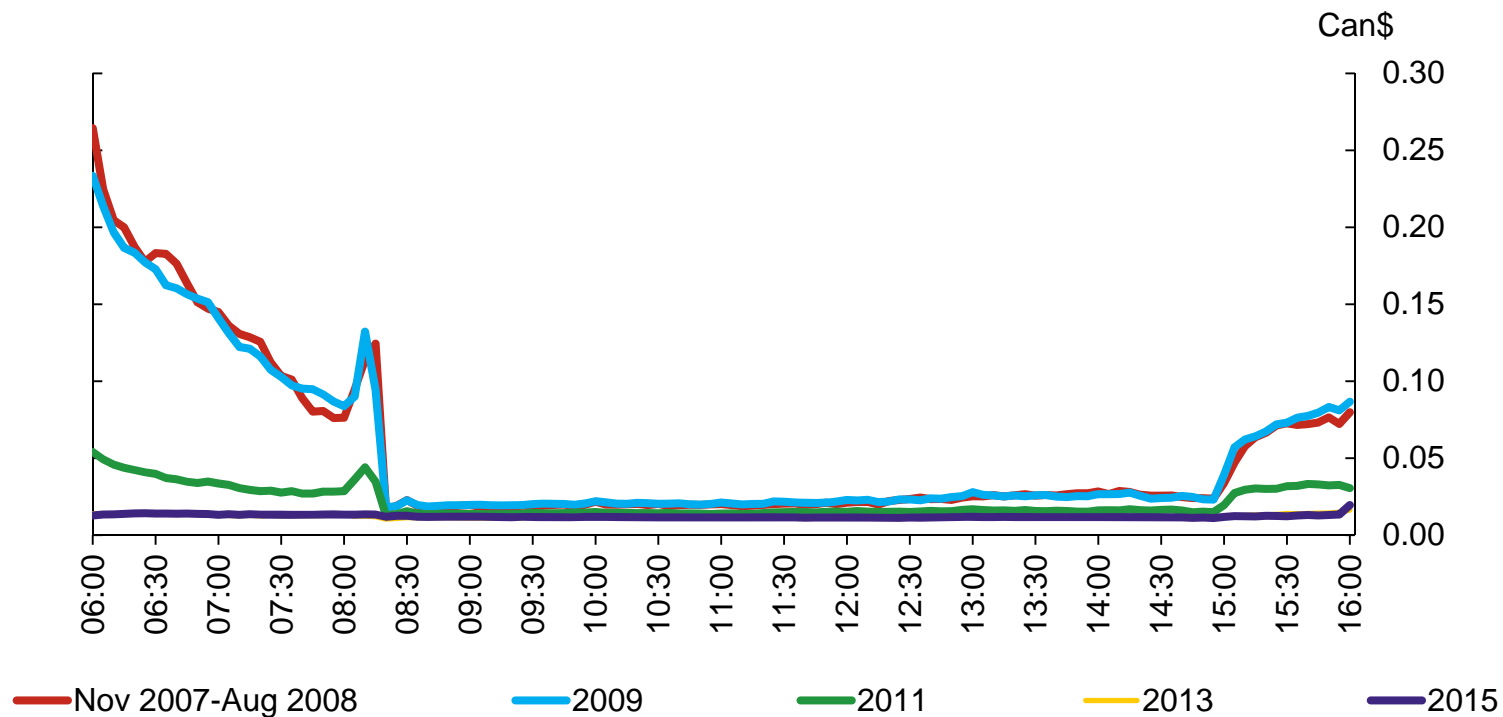
Notes: Five-minute averages of notional limit orders within four price ranges from the mid-quote, 8:20-16:00

Source: Montreal Exchange, Bank of Canada calculations

Last observation: 31 December 2015

Intraday bid-ask spread has become more stable

Chart 7: Intraday CGB bid-ask spread
average bid-ask spread, five-minute intervals



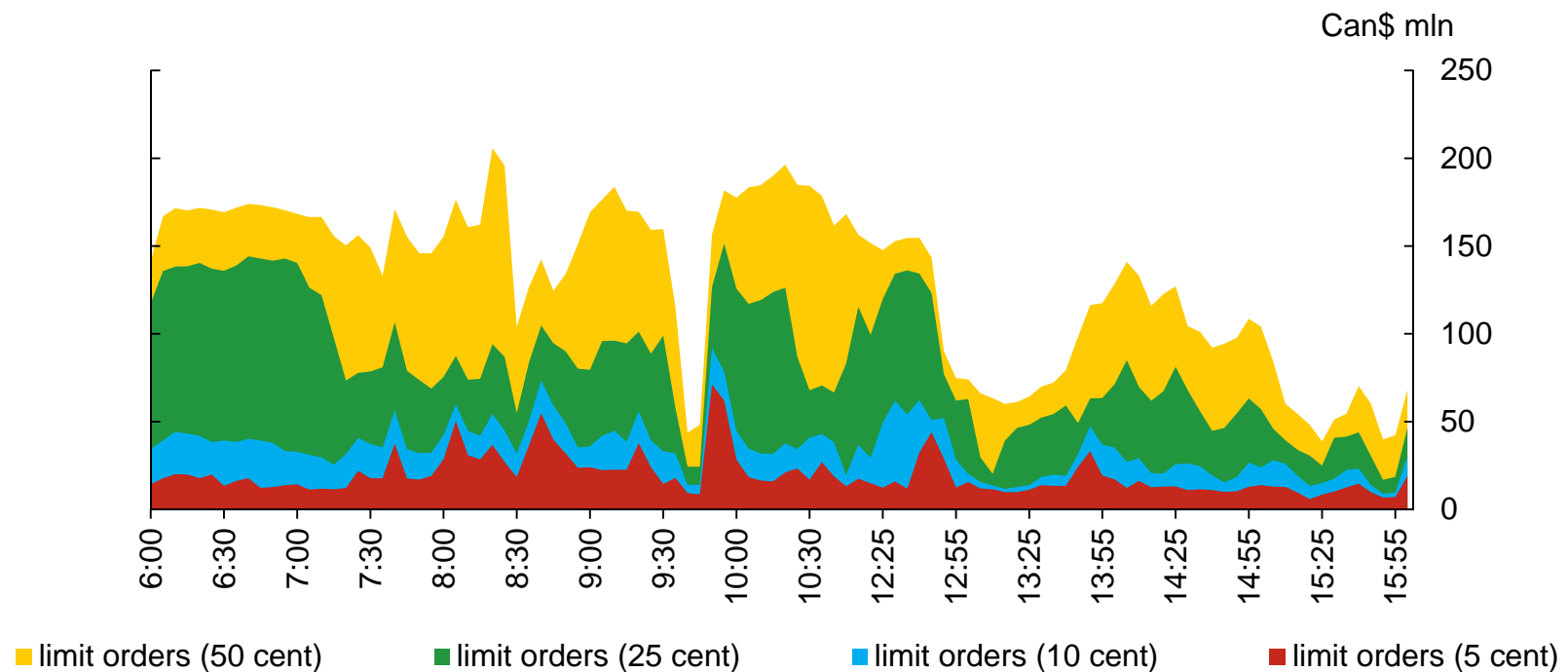
Notes: Five-minute averages of the bid-ask spread, 6:00-16:00

Source: Montreal Exchange, Bank of Canada calculations

Last observation: 31 December 2015

CGB intraday order book during the US Flash Rally

Chart 8: October 15, 2014 notional value of visible CGB limit orders at four price ranges from the mid-quote five-minute intervals, October 15, 2014



Notes: Five-minute averages of notional limit orders within four price ranges from the mid-quote, 8:20-16:00

Source: Montreal Exchange, Bank of Canada calculations

Last observation: 31 December 2015