

## Market Update - Daily Fixed Income Trading Liquidity Update 8 May 2020

In the current markets, volatility has been elevated and liquidity has become reduced across many fixed income instruments including government bond markets. Liquidity management has been a heightened focus for AllianceBernstein for years, as we recognized the reduced liquidity in the marketplace after the 2008-2009 financial crisis. We view liquidity management as a business imperative.

In an effort to provide timely updates for our clients on fixed income market trading liquidity, we have developed the following update, aggregated from our traders towards the end of the New York trading day.

Sector	Liquidity Trading Comment	Bid-Ask Spreads
US Treasuries	<ul> <li>The open-ended bond purchase program enacted by the US Federal Reserve (Fed) is having a positive effect on liquidity and market functionality. The Fed has reduced their purchases of US Treasuries to \$7bn per day during the week of May 11 (from \$8bn per day the week of May 4).</li> <li>Two factors were important in the US rates market this week:         <ol> <li>The US Treasury Refunding Announcement:</li></ol></li></ul>	Bid-offer spreads for on-the-run benchmark 2- through 10-year US Treasury notes has improved significantly and are in line with precrisis conditions.  For the 30-year note, bid/ask is ~2x wider vs pre-crisis.  Off-the-run Treasury bonds still trade significantly wider than on-the run bonds, but bid/offer has compressed.  TIPs bid/ask is 2-3x wider vs pre-crisis levels
Investment Grade (IG) Corporates	<ul> <li>US IG</li> <li>US IG cash bonds pushed wider during May 6-8 as heavy new issue supply began to weigh on the secondary market.</li> <li>New issue supply remains busy with \$54 bn in new issues coming to market between May 6 and 8. The market continues to see some companies that issued last month return to the market. Concessions ticked up and investors are being selective by</li> </ul>	US IG spreads are generically 4x wider vs normal market conditions  AT1/Preferreds are 2-3x wider vs normal market conditions

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issuer/deal.  • Bid/ask spreads remain wider than pre-crisis levels.  European IG  • Supply levels have begun to pick up in the European IG market, with both well-known and niche issuers continuing to tap primary markets. Liquidity tailed	id-Ask Spreads
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off toward the end of the week ending May 8 as	
holidays in the UK led to lower volumes in the latter	
half of the week.	
Liquidity in the AT1 (subordinated financial) market	
remains incredibly technical and very bond-/issuer-	
specific. In spots such as core high-quality issuers,	
bid/offer spreads were back to pre-selloff levels, but	
in more niche and second-tier names where dealers have no agenda, it remains wide. Volumes were	
very low in the latter part of the week.	
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REIT Preferreds	
Liquidity in the REIT preferred market is limited	
under more normal conditions, but has improved	
from 1-1.5 months ago.	
Dealers are only providing balance sheet capacity on	
select issuers, so for many issuers, trades must be	
done on an agency basis; trading is therefore limited.	
Trading volume is trending low since valuations have	
recovered a good amount.	
	ids are 1 point
Corporates • The tone of high yield in recent weeks has been tied wider	than normal times
to equities—with high yield closely following equity   for BI	B-rated securities
market moves.	
	ds are 1-2 points
1, 55 1	than normal times rated securities
The new issue market remains topical with \$9.8 bn pricing this week.	rateu securities
	ids are 2-4 points
	than normal times
	CC-rated and below
After several weeks of outperformance in cash secur	ities
bonds, the market has begun to lag modestly.	
	HY bid/ask is 2-3x vs
	al conditions.
Idiosyncratic risk is in focus as potential  defaults (restructurings loans)	
<ul><li>defaults/restructurings loom.</li><li>Technicals remain broadly constructive, as flows are</li></ul>	
generally positive, investors are more conservatively	
positioned and primary issuance remains light.	

Sector	Liquidity Trading Comment	Bid-Ask Spreads
	The market continues to see healthy two-way flows but bid/ask spreads remain elevated.	
	CDX HY	
	<ul> <li>CDX HY slightly underperformed the broader macro tone, mainly due to heavy supply in both investment</li> </ul>	
	<ul><li>grade and high yield markets.</li><li>Trading volumes remain light as volatility is at the</li></ul>	
	<ul><li>lowest levels in over a month.</li><li>Bid/ask spreads have declined but remain elevated</li></ul>	
	relative to pre-crisis levels.	
Emerging-	Hard Currency EM	
Market Debt	<ul> <li>Hard currency EM debt traded firm all week,</li> </ul>	EM IG sovereigns are
(EMD)	tracking global macro risk as the JP Morgan index	1.5x wider vs normal
	tightened ~30bp to close at a spread of 582bp, the	market conditions
	first sub-600bp close in 3 weeks and the tightest	
	level since mid-March.	EM HY sovereigns are 2x
	<ul> <li>Oil exporters continued to outperform across the index.</li> </ul>	wider vs normal market conditions
	As expected, issuance shifted down in quality as	
	Bahrain printed the first large-cap high-yield	EM IG corporates are 2x
	sovereign deal which was 5x oversubscribed and had	wider vs normal market
	a marginal (~5-15bps) new issue premium, an	conditions
	indication of healthy investor risk appetite.	5M 111/
	Supply continues to come to market with 5 deals     I and the price of this week, all 24.7% are grown as side of	EM HY corporates are 3x wider vs normal market
	already priced this week, all ~4-7x oversubscribed	conditions
	<ul><li>even with limited new issue premiums.</li><li>Liquidity continues to improve as transaction costs</li></ul>	Conditions
	have slightly narrowed over the last week.	
	Local Currency EM	
	Local EM rates continue to track macro risk and the	
	moves in currencies.	
	Liquidity is close to normal	
Securitized	CMBS	
	The first new CMBS issue since March priced on  Thursday May 7. Beyond for all translations.	
	Thursday May 7. Demand for all tranches was	
	robust and classes were multiple times oversubscribed. Strong demand led the deal to price	
	well inside of initial guidance. The 10-year AAA-	
	rated tranche tightened 10 basis points, the A-rated	
	class tightened 115 bps, and the BBB-rated class was	
	tighter by 90 bps.	
	We saw a fair amount of selling in the secondary	
	market in AAA-rated down to A-rated securities.	
	The selling continues to be well absorbed and	
	demand remains firm.	
	It appears bid/offer spreads have compressed but	

Sector	Liquidity Trading Comment	Bid-Ask Spreads
	remain elevated. CMBS AAA, AA/A, and BBB bid/offer spreads are approximately 3x, 3x, and 4x pre-COVID levels.  • Volumes in CMBX.6 remain depressed. As a result, the index is trading in a very narrow range. Due to the lack of transacting, liquidity has not improved, and bid/offer remains unchanged. Bid/offer spread for CMBX A.6 is ~2x, BBB6 is ~3 x and BB.6 ~5x the normal bid/offer spread.	
	<ul> <li>ABS</li> <li>The ABS primary market priced two deals—one student loan and one auto—totaling \$1.2bn for the week ending May 8. Year-to-date ABS supply stands at \$56.9bn compared to \$84.6bn in the previous year.</li> <li>There is currently \$1.2bn in pre-marketing across prime and non-prime auto loan ABS, which will price by the week ending May 15.</li> <li>Indicative benchmark ABS spreads tightened by 5bp across credit card, 5bp-40bp across nonprime auto loan, and 15bp-80bp across equipment ABS, mostly reflecting better flows in secondary. While FFELP and private credit student loan ABS remained unchanged on the week, prime auto loan ABS tightened, except for 3-year A- and BBB-rated credit widening by 5bp, to reflect the current new issue pricing.</li> </ul>	
	<ul> <li>CRTs</li> <li>The CRT market continues to plug along. The wall of money looking to invest in the space seems to be driving spreads tighter. This technical seems to have moved in one direction since early April.</li> <li>Investment-grade rated last cash flow bonds seem particularly well bid. Spreads have tightened the most in these bonds, which ended the week in the low 300 bp range. Newer vintage last cash flow bonds that do not have the benefit of the investment-grade rating are not far behind. They are currently trading in the 400-500 bp range.</li> <li>Equity tranches are trading in the 800-1100 bp range. B1 bonds with some credit enhancement are at the tighter end of that range and older Bs that represent the 0-100 slice of 2015 and 2016 deals trade just north of 1000 bp.</li> </ul>	

Sector	Liquidity Trading Comment	Bid-Ask Spreads
	norm. T-bill bid/ask spreads remain 2-3bp.  • There is good liquidity in the repo market, with repo rates holding tight in the middle of the 0.00 to 0.10% range.	
US Municipals  Canadian	<ul> <li>It was a strong and busy week for municipal bonds. The muni/Treasury ratio is still over 200%, which is attracting crossover buyers. That combined with the Fed lending program (which could provide \$500bn in short-term relief to State and Local governments) pushed benchmark yields lower as the week progressed, which ended the week 20bp tighter for short maturities and 15bp tighter for longer maturities.</li> <li>In the primary market, there's still a distinction in demand between higher- and lower-rated credits. Higher rated credits (A- and above, like Penn State University and the NY City Metropolitan Transportation Authority which came with deals this week) are seeing strong demand, while lower-rated credits are still receiving limited interest.</li> <li>In terms of liquidity, odd lots remain difficult to sell without taking a significant concession from round lot pricing. In general, &lt;1mm pieces are still receiving bids anywhere from 2 to 6 points below round lot bidside evaluations, with the smallest pieces at the top end of that range or wider.</li> <li>High yield odd lot liquidity remains challenged with it very difficult to solicit a bid.</li> <li>For context, high grade odd-lots typically trade 0.10-1 points below round lot bid-side evaluations under more normal market conditions.</li> </ul>	Endoral: hid/ack typically
Canadian Market	Federal     Liquidity is best in benchmark issues for block sizes of <=CAD25m; limited liquidity in off-the-run, high coupon bonds but the Bank of Canada buying program will help liquidity in the sector.   Provincial	Federal: bid/ask typically +1 to +2bp but for the long end of the curve, it can be more depending on volatility
	<ul> <li>Liquidity is best in benchmark bonds from Quebec,         Ontario and British Columbia</li> <li>Concessions are requested so dealers will take less         liquid positions.</li> <li>Very limited secondary-market liquidity in oil-         generating provinces (Newfoundland, Alberta,         Saskatchewan) with Western Canadian Select oil         price trading at low levels.</li> <li>Most dealers will not bid on off-the-run, high         coupon provincial issues, they will do agency trades.</li> </ul>	Provincial: concession of +1 to +2bp and more on size > CAD 25m, particularly at the longer end

Sector	Liquidity Trading Comment	Bid-Ask Spreads
	The Bank of Canada's C\$50bn buying program of	
	provincial debt should support liquidity.	
	IG Corporates	
	Limited liquidity; many dealers are maintaining low	
	balance sheet inventories, so will not provide bids in	
	many sectors.	
	Trading on an agency basis for high-beta issuers.	
	However, the market has improved in telco and	
	bank sectors.	
	The Bank of Canada's buying program of corporate	
	debt should support liquidity in the secondary	
	markets for BBB and higher-rated securities; BBB-	
	are trading by appointment.	
	Real Return Bonds (RRBs)	
	Trading "by appointment", similar to private	
	placement market	

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