MARTKET NEWS

- The continued spread of the coronavirus forced many businesses to temporarily close and, coupled with a dispute among OPEC members, exacerbated an already delicate market environment
  - US jobless claims surged to almost 3.3 million, far surpassing the highest level of 665,000 in the financial crisis, and up from 282,000 the prior week
  - Oil fell from $45 to almost $20 a barrel, as Saudi Arabia abandoned output restraints and flooded the market
  - Treasury yields across the curve plummeted to below 1%, with the exception of the 30-year Treasury, which closed at 1.32%
  - The Federal Reserve (Fed) and US Government implemented emergency monetary and fiscal measures to help prevent the US economy from spiraling into a recession and financial markets from potentially collapsing
    - In addition to cutting the fed funds target range to 0.00-0.25%, the Fed will purchase “in amounts as needed” Treasuries, agency-backed securitized, investment-grade corporates and municipal bonds
    - A $2 trillion stimulus package was passed to help support struggling households, businesses, and state and local governments, far surpassing the $800 billion that was provided during the financial crisis
  - Liquidity across fixed income markets was challenged as dealers were unwilling to take on risk, with bid/ask spreads widening significantly and odd-lot sized trades struggling to receive bids
    - However, policy measures markedly improved risk appetite for investors; corporate spreads initially widened to 373bps from 122bps in February, before tightening by 101bps in the final six trading days, to close at 272bps
    - Despite the softer tone, corporate issuance totaled over $259 billion, the highest monthly total on record
  - Mortgage-backed securities benefited from Fed operations, which included purchasing up to a pre-determined amount of mortgages per day; operations focused on lower-coupon bonds, but drifted toward higher coupons towards the end of March
  - The 10-year muni/Treasury ratio reached as high as 365% – a new record – before ending the month at 215%

MARTKET STATISTICS

**Treasury Yield Curve**

<table>
<thead>
<tr>
<th>Maturity</th>
<th>2-year</th>
<th>5-year</th>
<th>10-year</th>
<th>30-year</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/31/2020</td>
<td>0.25</td>
<td>0.38</td>
<td>0.67</td>
<td>1.32</td>
</tr>
<tr>
<td>MTD Change</td>
<td>-0.67</td>
<td>-0.56</td>
<td>-0.48</td>
<td>-0.36</td>
</tr>
</tbody>
</table>

**MTD Returns**

<table>
<thead>
<tr>
<th>Category</th>
<th>Excess Return</th>
<th>Total Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short IG Corporates</td>
<td>-10.40</td>
<td>-7.09</td>
</tr>
<tr>
<td>IG Corporates</td>
<td>-15.10</td>
<td>-9.92</td>
</tr>
<tr>
<td>Long IG Corporates</td>
<td>-11.19</td>
<td>-7.70</td>
</tr>
<tr>
<td>IG Financials</td>
<td>-8.39</td>
<td>-5.62</td>
</tr>
<tr>
<td>IG Industrials</td>
<td>-12.30</td>
<td>-8.19</td>
</tr>
<tr>
<td>IG Utilities</td>
<td>-11.19</td>
<td>-7.70</td>
</tr>
<tr>
<td>MBS Pass-Throughs</td>
<td>-8.19</td>
<td>-0.22</td>
</tr>
<tr>
<td>ABS</td>
<td>-3.42</td>
<td>-2.07</td>
</tr>
<tr>
<td>CMBS</td>
<td>-5.74</td>
<td>-3.13</td>
</tr>
<tr>
<td>HY Corporates</td>
<td>-13.30</td>
<td>-11.46</td>
</tr>
</tbody>
</table>

As of: 3/31/20. Sources: Bloomberg, Bloomberg Barclays, Citigroup

*Excess returns are the curve-adjusted excess return of a given index relative to a term structure-matched position in Treasuries.

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MARKET THEMES

- Spreads across all investment-grade sectors dramatically widened over the month: corporates by 150bps, RMBS by 6bps, ABS by 176bps and CMBS by 115bps
  - Levels remained well below those seen in 2008 when corporate spreads reached over 600bps, but the pace of widening was much faster
- Some ETFs came under pressure, with NAV discounts of 5% at times, highlighting potential liquidity issues
- However, Fed policies appeared to help spreads, with most sectors below peaks
- RMBS spreads tightened to below February levels, as the Fed offered to purchase $30-50 billion of mortgages each day, and mortgage purchases totaled almost $300 billion

- Investment-grade corporate issuance totaled $259 billion in March, while issuance in many other sectors was limited
  - High-yield corporate issuance totaled $4 billion, ABS totaled $9 billion, and CMBS totaled $4 billion
- Many corporate issuers remained sidelined amid heightened volatility and a lack of liquidity, however; they quickly emerged with any sign of a supportive tone
- Cash flow concerns and issues with the Commercial Paper market forced many companies to issue long-duration corporate bonds, or tap existing lines of credit for liquidity
- New issue concessions averaged over 28bps in March – versus 3bps in January/February – and re-priced many secondary spreads wider when price discovery was limited and only the highest-quality issuers were receiving bids

- The pace of downgrades accelerated over the past few weeks, with 20 to 66 investment-grade issuers downgraded by major rating agencies, primarily with energy companies
- Fallen angels totaled roughly $89 billion, with the majority concentrated in Ford ($36 billion) and Occidental Petroleum ($29 billion)
  - $175-200 billion of fallen angels are expected in 2020
- Bloomberg will remove fallen angels from investment-grade indices at month-end, whereas ICE BofA indices cancelled the monthly index roll
  - Bonds issued in March will also not be included in the April index for ICE BofA indices
  - Bonds maturing within 1-year will not be removed from either index


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