

Monthly HG Market Review

Jan '24: More goldilocks

Jan '24: More goldilocks

Risk assets rallied and the Treasury yield curve steepened in January as US growth data surprised to the upside while inflation remained moderate. The December jobs report showed big 216K increase (see <u>US Watch: December employment</u>), Retail Sales were strong, although potentially impacted by seasonal factors (see <u>US Watch: Retail sales</u>), and the preliminary estimate of 4Q GDP growth came in at higher than expected +3.3% (see <u>US Watch: Still hot US economy</u>). At the same time inflation remained subdued, with December core PCE growing just +0.2% MoM and +2.9% YoY (see <u>US Watch: Soft inflation, strong spending keep a March cut in balance</u>). On a negative note, the conflict in the Middle East continued, disrupting shipping through the Red Sea and leading higher shipping costs, production disruptions, a potential uptick in inflation particularly in Europe and higher oil prices (see <u>Global Economic Viewpoint: Global rate cuts lost at (Red) Sea?</u>).

Strong US data = a hawkish Fed

The strong US growth data, a rally in stocks and some pushback against early cuts from Fed speakers (see <u>Global Rates Weekly: Longs on ice</u>) pushed long-term interest rates higher in January. Then at the January 31st FOMC, while acknowledging the progress on inflation, Chair Powell mostly ruled out a cut in March (see <u>US Watch: January FOMC: March is no longer the base case</u>). As a result, the probability of a March cut based on market pricing declined to 35% on January 31st from 84% on December 29th.

Stocks over bonds

Equities outperformed in January (+1.68%), followed leveraged loans (+0.68%), IG corporates (+0.15%) and HY (+0.02%), while Treasuries underperformed (-0.18%).

ICE BofA IG index spread 3bps tighter in January

The ICE BofA US IG index spread was 3bps tighter in January for an excess return of +42bps. January top performing sectors in terms of excess returns were P&C & Reinsurance (+113bps), Life Insurance (+70bps) and Pipelines (+67bps). Underperforming sectors were Aerospace/Defense (-2bps), Metals & Mining (+1bps) and Retail-Discounters (+2bps).

Outlook

While IG spreads are still about 20bps off mid-2021 levels, we see risks moderately skewed to the downside.

Supply

We look for February IG supply in \$160 - \$170bn range.

Fund flows

Net inflows to US HG totaled +1.11% of assets in January (based only on funds reporting daily), up from +0.52% of assets in December (based on all funds).

BofA Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Refer to important disclosures on page 16 to 18.

01 February 2024

High Grade Credit Strategy United States

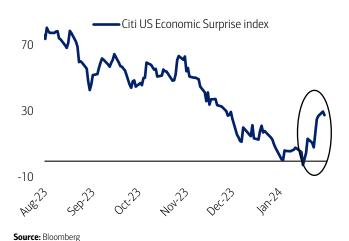
Yuri Seliger Credit Strategist BofAS +1 646 855 7209 yuri.seliger@bofa.com

Jean-Tiago Hamm Credit Strategist BofAS jean-tiago.hamm@bofa.com

Srini Talagadadeevi Credit Strategist BofAS sreenivasa.rao@bofa.com

Exhibit 1: US data surprised to the upside in January

The economic surprise index increased to 25.7 on January $31^{\rm st}$ from 8.2 on December 29.



BofA GLOBAL RESEARCH

Exhibit 3: Markets are pricing lower change of a March cut

Probability of a March cut based on market pricing declined to 35% on January 31st from 84% on December 29^{th} .

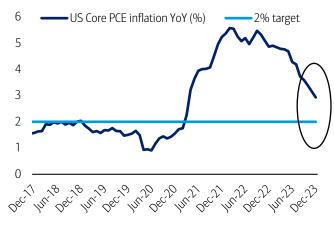


Source: Bloomberg

BofA GLOBAL RESEARCH

Exhibit 2: US Core PCE inflation slowed to 2.9% YoY in December

Core PCE inflation declined from the peak of 5.5% YoY in February 2022.

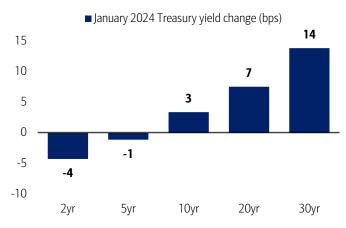


Source: Bureau of Economic Analysis, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 4: Treasury yield curve steepened in January

2yr Treasury yield declined 4bps in January, while 30yr Treasury yield increased 14bps.

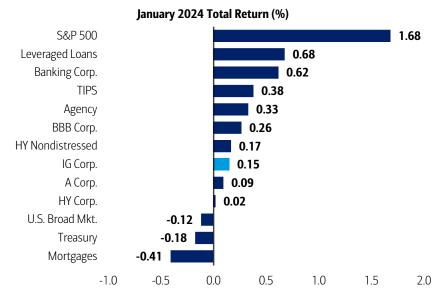


Source: BofA Global Research, Bloomberg.

January 2024 Returns

Exhibit 5: Broad Asset Class Total Return Performance, January 2024

Monthly total return for broad asset classes in Jan 2024. Stocks outperformed (+1.68%).

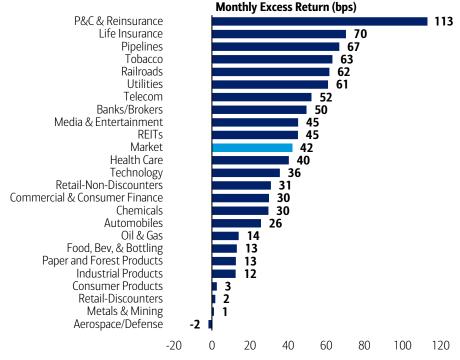


Source: ICE Data Indices, LLC, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 6: High grade sector excess return, January 2024

Market excess return: +42bps. P&C & Reinsurance (+113bps) was the top performer, Aerospace/Defense (-2bps) was the bottom performer.



Source: BofA Global Research, ICE Data Indices, LLC



Outlook

Based on

Credit Market Strategist: When the stars align 19 January 2024

When the stars align

Almost everything went right in January for IG credit. US data remained robust (U. Michigan Consumer Sentiment, December Retail Sales). The jump in Treasury yields further supported already strong demand, in addition to declining interest rate volatility and heavy inflows to HG funds / ETFs. That allowed investors to easily absorb the big \$193bn of IG supply in January. Such favorable conditions have pushed IG spreads to 102bps on the ICE US IG index. That's at the tight end of our expected 100 – 120bps range, and near record tights vs. comps such as the European IG. As a result, while IG spreads are still about 20bps off post-GFC tights, we see risks moderately skewed to the downside. We prefer rotating out of US into underperforming European industrials on relative value. We continue to prefer banks over industrials (see Situation Room: Bank risks vs the Fed), BBBs over single-A industrials, and front-end over 30yr (see Situation Room: New frontier in flatness).

Demand > supply

Strong investor demand has clearly supported US spreads in January. During the week of January 15th Treasury yields increased, supporting demand, without a corresponding rise in rate implied volatility, which could have been negative for demand (Exhibit 7). We are also tracking some of the strongest inflows to HG funds / ETFs in January since 2021 (Exhibit 8, see <u>Situation Room: Flipping flows</u>). At the same time supply has been relatively heavy, with \$192bn priced in January. Importantly, issuance should slow down seasonally until early March.

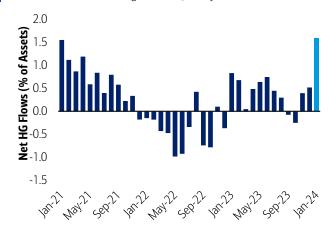
BofA GLOBAL RESEARCH

Exhibit 7: Higher yields, lower rates vol

10 yr Treasury yields are up, while implied interest rate volatility has declined so far in 2024.



Exhibit 8: We are tracking some of the highest inflows since 2021Daily flows through Jan 17 imply an inflow of about 1.6% of AUM for the full month. That would be the highest since January 2021.



Source: BofA Global Research, EPFR Global.

Supply

Based on

Situation Room: IG February supply: setting records 29 January 2024

IG February supply: setting records

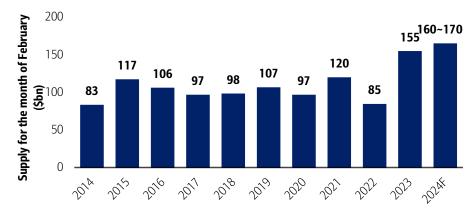
We look for February IG supply in \$160 - \$170bn range. That would be a record high for the calendar month, about 7% above the prior record of \$155bn from February of 2023. A number of factors should support heavy issuance volumes in February. First, we look for heavy M&A-related supply in February, potentially exceeding \$30bn. Second, investor demand is very strong, encouraging issuers to come to market now while conditions are unusually favorable. For example, the average IG new issue concession was close to zero last week (Exhibit 10). Third, borrowing costs are relatively attractive. IG index yield is about unchanged relative to a year ago, but is near the lower end of the range over the past 18 months, while spreads are much tighter (Exhibit 11, Exhibit 12).

January supply is smaller than it appears

Issuance has reached \$192bn so far in January. That would be the highest on record for the calendar month, ahead of the prior record of \$176bn for January 2017 (Exhibit 13). However, the IG index notional has increased 53% over the past seven years since 2017. Hence, adjusting for market size the MtD January 2024 supply was 2.21% as a share of the IG index, well below 3.09% in January 2017 and only 43rd percentile since 2010 (Exhibit 14). Still, January 2024 IG supply as a share of the index was about 20% above the average over the prior three years.

Exhibit 9: We expect February supply in \$160 - \$170bn range

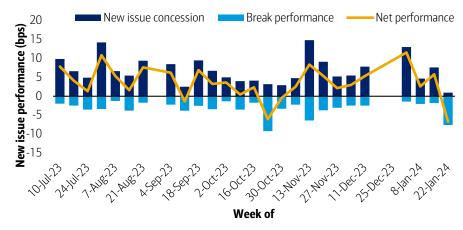
That would be higher than the prior record for the calendar month of \$155bn set in 2023.



Source: BofA Global Research

Exhibit 10: IG new issue concessions collapsed towards the end of January

The average new issue concession was less than 1bps for the week of January 22, while the average break performance was a strong 7.6bps tighter.

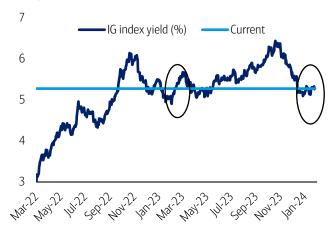


Source: BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 11: Yields are currently unchanged from Feb 2023

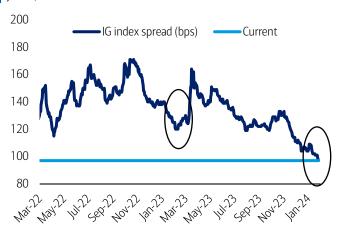
The US IG index yield averaged 5.31% in Feb 2023 – similar to 5.27%currently as of Jan 26, 2024.



Source: ICE Data Indices, LLC BofA GLOBAL RESEARCH

Exhibit 12: IG spreads are currently tighter than in Feb 2023

The US IG index spread averaged 124bps in Feb 2023, wider than 97bps as of Jan 26, 2024.



Source: ICE Data Indices, LLC



Exhibit 13: MtD January supply of \$192bn is record high

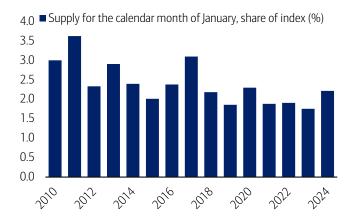
The MtD IG supply is the record high for the month of January, above the prior record of \$176 from January 2017.



BofA GLOBAL RESEARCH

Exhibit 14: MtD January supply of 2.21% of the index is typical

MtD IG supply is just 43^{rd} percentile since 2010, below 3.09% for January 2017, but 20% above the average over the past three years.



Source: BofA Global Research

BofA GLOBAL RESEARCH

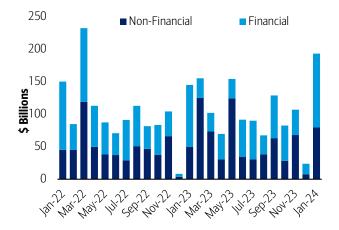
January supply review

IG gross supply totaled to 192.7bn in January up from \$144.6bn in Jan '23 and \$149.7bn in Jan '22. Jan '24 supply consisted of \$79.3bn non-financials and \$113.4bn financials.

IG new issue performance weakened in January. The average new issue concession increased to 7.2bps from 6.7bps in December, while the average break performance tightened to 2.1bps from 2.5bps tighter. As a result, the overall performance of new issue performance, which we define as new issue concession plus break performance, widened to +5.1bps in January from 4.2bps in December (Exhibit 17).

Exhibit 15: Monthly US IG supply volume

January supply consisted of \$113.4bn financials and \$79.3bn non-financials.

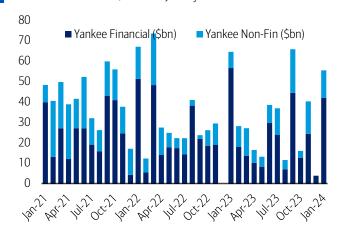


Source: Bloomberg. BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 16: US IG Yankee supply

US IG Yankee issuance = \$55.4bn in January

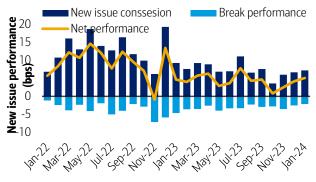


Source: Bloomberg, BofA Global Research



Exhibit 17: Monthly new issue supply performance

US IG new issue performance weakened in January.

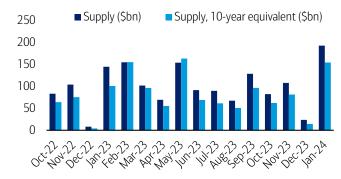


Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 18: Monthly gross and 10-year equivalent supply volumes

10-year equivalent supply = \$154.3bn in January



BofA Global Research, Bloomberg

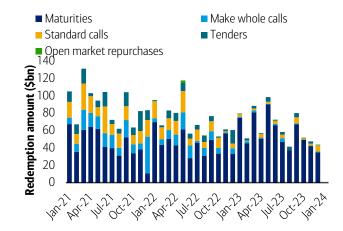
BofA GLOBAL RESEARCH

Redemptions

Redemptions totaled \$66.6bn in January, including \$64.1bn of contractual maturities and \$2.5bn of additional redemptions (Exhibit 19). Gross supply less all redemptions increased to +\$126.1bn in January from -\$20.0bn in December (Exhibit 20).

Exhibit 19: US IG maturities and additional redemptions

US IG redemptions = \$66.6bn in January.



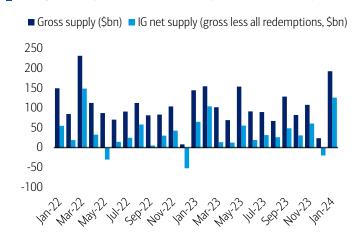
Note: Detailed redemption amounts data by type is grouped by effective dates.

Source: Bloomberg, ICE Data Indices, LLC, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 20: US IG gross and net supply

US IG gross supply = \$192.7bn and net supply = -\$126.1bn in January.



Source: BofA Global Research, Bloomberg

BofA GLOBAL RESEARCH

Exhibit 21: US IG gross supply and redemptions

Exhibit shows IG gross supply, maturities, additional redemptions and net supply by month

Month	Gross supply (\$bn)	Maturities	Make whole calls	Standard calls	Tenders	Open market repurchases	Total redemptions	IG net supply (gross less all redemptions, \$bn)	Coupons
Jan-18	133.3	72.4	4.1	5.3	6.9	0.0	88.7	44.6	24.4
Feb-18	98.4	46.4	2.0	5.8	4.1	0.0	58.2	40.1	22.0
Mar-18	125.2	65.6	15.4	4.2	14.1	1.6	100.8	24.4	28.4
Apr-18	124.3	74.3	20.0	1.7	1.7	0.0	97.7	26.5	22.7
May-18	127.6	80.6	3.5	18.3	3.1	0.0	105.5	22.1	24.9
Jun-18	120.4	43.9	10.9	9.3	5.7	1.8	71.6	48.8	22.5
Jul-18	67.3	47.9	6.3	5.9	0.2	0.2	60.5	6.8	24.4
Aug-18	91.8	36.3	2.9	2.8	1.3	0.3	43.6	48.2	22.0
Sep-18	146.2	29.0	6.0	4.1	8.9	1.8	49.7	96.4	28.4
Oct-18	96.2	29.7	7.4	4.0	3.8	0.4	45.4	50.7	22.7
Nov-18	97.4	52.6	6.8	1.4	3.9	0.2	64.8	32.5	24.9
Dec-18	9.1	31.2	16.9	3.5	12.8	0.8	65.1	-56.0	22.5
Jan-19	118.3	72.6	1.6	2.0	3.2	0.0	79.4	38.9	25.5

Exhibit 21: US IG gross supply and redemptionsExhibit shows IG gross supply, maturities, additional redemptions and net supply by month

Feb-19 106.6 49.7 3.2 4.9 21.5 0.0 79.3 Mar-19 121.7 65.8 16.1 5.0 7.1 0.2 94.2 Apr-19 95.9 52.3 5.8 3.5 5.6 0.6 67.8 May-19 110.8 66.8 6.3 3.8 3.6 0.0 80.5 Jun-19 85.5 42.9 5.4 4.2 6.6 0.2 59.2 Jul-19 101.4 44.3 5.2 1.1 6.6 0.0 57.2 Aug-19 84.9 42.6 5.4 2.8 12.3 0.6 63.6 Sep-19 166.5 72.9 15.4 10.9 14.2 0.3 113.8 Oct-19 85.2 55.1 19.2 6.3 12.7 0.0 93.2 Nov-19 104.2 39.2 8.5 9.1 7.6 0.4 64.9 Dec-19 24.0 26.6 18.0	27.3 27.5 28.2 30.3 26.3 44.2 21.3 52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8 33.1	22.4 31.8 25.1 27.3 24.5 25.5 22.4 31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Apr-19 95.9 52.3 5.8 3.5 5.6 0.6 67.8 May-19 110.8 66.8 6.3 3.8 3.6 0.0 80.5 Jun-19 85.5 42.9 5.4 4.2 6.6 0.2 59.2 Jul-19 101.4 44.3 5.2 1.1 6.6 0.0 57.2 Aug-19 84.9 42.6 5.4 2.8 12.3 0.6 63.6 Sep-19 166.5 72.9 15.4 10.9 14.2 0.3 113.8 Oct-19 85.2 55.1 19.2 6.3 12.7 0.0 93.2 Nov-19 104.2 39.2 8.5 9.1 7.6 0.4 64.9 Dec-19 24.0 26.6 18.0 26.6 11.2 0.0 82.4 Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9	28.2 30.3 26.3 44.2 21.3 52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	25.1 27.3 24.5 25.5 22.4 31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
May-19 110.8 66.8 6.3 3.8 3.6 0.0 80.5 Jun-19 85.5 42.9 5.4 4.2 6.6 0.2 59.2 Jul-19 101.4 44.3 5.2 1.1 6.6 0.0 57.2 Aug-19 84.9 42.6 5.4 2.8 12.3 0.6 63.6 Sep-19 166.5 72.9 15.4 10.9 14.2 0.3 113.8 Oct-19 85.2 55.1 19.2 6.3 12.7 0.0 93.2 Nov-19 104.2 39.2 8.5 9.1 7.6 0.4 64.9 Dec-19 24.0 26.6 18.0 26.6 11.2 0.0 82.4 Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4	30.3 26.3 44.2 21.3 52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	27.3 24.5 25.5 22.4 31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Jun-19 85.5 42.9 5.4 4.2 6.6 0.2 59.2 Jul-19 101.4 44.3 5.2 1.1 6.6 0.0 57.2 Aug-19 84.9 42.6 5.4 2.8 12.3 0.6 63.6 Sep-19 166.5 72.9 15.4 10.9 14.2 0.3 113.8 Oct-19 85.2 55.1 19.2 6.3 12.7 0.0 93.2 Nov-19 104.2 39.2 8.5 9.1 7.6 0.4 64.9 Dec-19 24.0 26.6 18.0 26.6 11.2 0.0 82.4 Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 </td <td>26.3 44.2 21.3 52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8</td> <td>24.5 25.5 22.4 31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3</td>	26.3 44.2 21.3 52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	24.5 25.5 22.4 31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Jun-19 85.5 42.9 5.4 4.2 6.6 0.2 59.2 Jul-19 101.4 44.3 5.2 1.1 6.6 0.0 57.2 Aug-19 84.9 42.6 5.4 2.8 12.3 0.6 63.6 Sep-19 166.5 72.9 15.4 10.9 14.2 0.3 113.8 Oct-19 85.2 55.1 19.2 6.3 12.7 0.0 93.2 Nov-19 104.2 39.2 8.5 9.1 7.6 0.4 64.9 Dec-19 24.0 26.6 18.0 26.6 11.2 0.0 82.4 Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 </td <td>26.3 44.2 21.3 52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8</td> <td>24.5 25.5 22.4 31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3</td>	26.3 44.2 21.3 52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	24.5 25.5 22.4 31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Jul-19 101.4 44.3 5.2 1.1 6.6 0.0 57.2 Aug-19 84.9 42.6 5.4 2.8 12.3 0.6 63.6 Sep-19 166.5 72.9 15.4 10.9 14.2 0.3 113.8 Oct-19 85.2 55.1 19.2 6.3 12.7 0.0 93.2 Nov-19 104.2 39.2 8.5 9.1 7.6 0.4 64.9 Dec-19 24.0 26.6 18.0 26.6 11.2 0.0 82.4 Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 5.6 11.2 0.0 55.6 May-20 261.9 59.2 7.7	21.3 52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	25.5 22.4 31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Aug-19 84.9 42.6 5.4 2.8 12.3 0.6 63.6 Sep-19 166.5 72.9 15.4 10.9 14.2 0.3 113.8 Oct-19 85.2 55.1 19.2 6.3 12.7 0.0 93.2 Nov-19 104.2 39.2 8.5 9.1 7.6 0.4 64.9 Dec-19 24.0 26.6 18.0 26.6 11.2 0.0 82.4 Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 5.6 11.2 0.0 55.6 May-20 261.9 59.2 7.7 17.8 11.9 0.0 96.6 Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 <td< td=""><td>21.3 52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8</td><td>22.4 31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3</td></td<>	21.3 52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	22.4 31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Sep-19 166.5 72.9 15.4 10.9 14.2 0.3 113.8 Oct-19 85.2 55.1 19.2 6.3 12.7 0.0 93.2 Nov-19 104.2 39.2 8.5 9.1 7.6 0.4 64.9 Dec-19 24.0 26.6 18.0 26.6 11.2 0.0 82.4 Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 5.6 11.2 0.0 55.6 May-20 261.9 59.2 7.7 17.8 11.9 0.0 96.6 Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 46.9 <td< td=""><td>52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8</td><td>31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3</td></td<>	52.7 -8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	31.8 25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Oct-19 85.2 55.1 19.2 6.3 12.7 0.0 93.2 Nov-19 104.2 39.2 8.5 9.1 7.6 0.4 64.9 Dec-19 24.0 26.6 18.0 26.6 11.2 0.0 82.4 Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 5.6 11.2 0.0 55.6 May-20 261.9 59.2 7.7 17.8 11.9 0.0 96.6 Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 46.9 14.3 11.5 9.2 0.0 81.9 Aug-20 143.5 35.3 1	-8.0 39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	25.1 27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Nov-19 104.2 39.2 8.5 9.1 7.6 0.4 64.9 Dec-19 24.0 26.6 18.0 26.6 11.2 0.0 82.4 Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 5.6 11.2 0.0 55.6 May-20 261.9 59.2 7.7 17.8 11.9 0.0 96.6 Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 46.9 14.3 11.5 9.2 0.0 81.9 Aug-20 143.5 35.3 11.1 9.4 14.7 0.6 71.2 Sep-20 168.4 45.7	39.3 -58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	27.3 24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Dec-19 24.0 26.6 18.0 26.6 11.2 0.0 82.4 Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 5.6 11.2 0.0 55.6 May-20 261.9 59.2 7.7 17.8 11.9 0.0 96.6 Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 46.9 14.3 11.5 9.2 0.0 81.9 Aug-20 143.5 35.3 11.1 9.4 14.7 0.6 71.2 Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 <	-58.4 69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1	24.5 27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Jan-20 152.3 65.6 7.9 7.3 2.3 0.0 83.0 Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 5.6 11.2 0.0 55.6 May-20 261.9 59.2 7.7 17.8 11.9 0.0 96.6 Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 46.9 14.3 11.5 9.2 0.0 81.9 Aug-20 143.5 35.3 11.1 9.4 14.7 0.6 71.2 Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	69.3 47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	27.2 23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Feb-20 96.7 36.6 6.9 2.9 2.7 0.0 49.0 Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 5.6 11.2 0.0 55.6 May-20 261.9 59.2 7.7 17.8 11.9 0.0 96.6 Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 46.9 14.3 11.5 9.2 0.0 81.9 Aug-20 143.5 35.3 11.1 9.4 14.7 0.6 71.2 Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	47.7 135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	23.0 32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Mar-20 261.4 73.2 22.4 16.0 14.2 0.4 126.2 Apr-20 297.4 36.7 2.2 5.6 11.2 0.0 55.6 May-20 261.9 59.2 7.7 17.8 11.9 0.0 96.6 Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 46.9 14.3 11.5 9.2 0.0 81.9 Aug-20 143.5 35.3 11.1 9.4 14.7 0.6 71.2 Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	135.2 241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	32.5 26.1 27.5 24.3 24.8 21.3 31.4 28.3
Apr-20 297.4 36.7 2.2 5.6 11.2 0.0 55.6 May-20 261.9 59.2 7.7 17.8 11.9 0.0 96.6 Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 46.9 14.3 11.5 9.2 0.0 81.9 Aug-20 143.5 35.3 11.1 9.4 14.7 0.6 71.2 Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	241.7 165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	26.1 27.5 24.3 24.8 21.3 31.4 28.3
May-20 261.9 59.2 7.7 17.8 11.9 0.0 96.6 Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 46.9 14.3 11.5 9.2 0.0 81.9 Aug-20 143.5 35.3 11.1 9.4 14.7 0.6 71.2 Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	165.4 69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	27.5 24.3 24.8 21.3 31.4 28.3
Jun-20 176.8 60.9 19.4 9.3 18.1 0.0 107.8 Jul-20 68.9 46.9 14.3 11.5 9.2 0.0 81.9 Aug-20 143.5 35.3 11.1 9.4 14.7 0.6 71.2 Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	69.0 -13.0 72.3 59.4 -23.4 10.1 -28.8	24.3 24.8 21.3 31.4 28.3
Jul-20 68.9 46.9 14.3 11.5 9.2 0.0 81.9 Aug-20 143.5 35.3 11.1 9.4 14.7 0.6 71.2 Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	-13.0 72.3 59.4 -23.4 10.1 -28.8	24.8 21.3 31.4 28.3
Aug-20 143.5 35.3 11.1 9.4 14.7 0.6 71.2 Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	72.3 59.4 -23.4 10.1 -28.8	21.3 31.4 28.3
Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	59.4 -23.4 10.1 -28.8	31.4 28.3
Sep-20 168.4 45.7 19.9 18.3 25.1 0.0 109.1 Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	-23.4 10.1 -28.8	28.3
Oct-20 87.0 65.9 14.6 18.8 11.0 0.1 110.4	-23.4 10.1 -28.8	28.3
	10.1 -28.8	
Nov-20 98.6 54.8 7.8 17.0 8.6 0.2 88.4	-28.8	
Dec-20 42.4 26.4 20.9 15.5 8.3 0.2 71.2		26.8
Jan-21 137.9 67.2 7.5 18.1 12.1 0.0 104.8		24.6
Feb-21 119.9 35.3 9.4 11.2 11.0 0.0 67.0	52.9	21.2
Mar-21 202.5 60.7 23.1 30.1 17.0 0.0 130.9	71.6	31.7
Apr-21 124.3 63.9 16.1 19.4 3.5 0.0 102.8	21.5	27.8
May-21 136.7 61.8 14.2 10.5 7.7 0.0 94.3	42.5	30.3
Jun-21 139.1 40.9 15.9 30.7 16.6 0.0 104.2	34.9	26.2
Jul-21 90.7 39.6 15.4 12.3 4.8 0.0 72.1	18.6	25.0
Aug-21 88.3 31.0 9.1 16.3 5.5 0.0 61.9	26.5	20.6
Sep-21 160.4 52.1 19.8 15.9 16.1 0.0 103.9	56.6	30.2
Oct-21 120.4 33.8 10.1 10.6 8.7 0.0 63.3	57.0	27.8
Nov-21 112.6 38.1 6.9 14.3 22.8 0.0 82.2	30.3	30.3
Dec-21 62.4 10.7 42.0 19.1 11.3 0.0 83.2	-20.8	26.2
Jan-22 149.7 69.5 4.5 19.6 1.1 0.0 94.8	55.0	24.4
Feb-22 84.6 43.3 6.6 13.8 2.1 0.0 65.8	18.8	21.4
Mar-22 231.8 50.5 9.9 13.5 9.0 0.0 82.9	148.9	32.2
Apr-22 112.6 42.6 12.5 15.8 9.1 0.0 80.1	32.5	28.4
	-30.4	29.6
·		
•	14.2	24.3
Jul-22 90.9 45.9 2.1 12.9 5.3 0.0 66.2	24.7	24.4
Aug-22 112.6 30.6 9.2 6.9 7.1 0.6 54.5	58.1	21.4
Sep-22 81.4 49.1 9.9 11.5 5.9 0.0 76.4	5.0	32.2
Oct-22 83.2 33.3 6.4 11.8 1.4 0.2 53.1	30.1	28.4
Nov-22 103.9 56.6 1.0 1.3 2.0 0.3 61.2	42.6	29.6
Dec-22 8.1 33.3 6.1 5.5 15.5 0.1 60.5	-52.5	24.3
Jan-23 144.6 74.4 1.2 3.3 0.5 0.0 79.5	65.0	26.1
Feb-23 154.8 45.0 2.4 0.9 2.6 0.0 50.9	103.9	23.9
Mar-23 101.7 80.6 2.4 2.2 2.9 0.1 88.2	13.5	35.0
Apr-23 69.4 50.5 1.3 4.0 0.5 0.5 56.8	12.5	31.1
May-23 153.9 89.8 0.9 2.4 5.3 0.0 98.3	55.5	29.6
Jun-23 91.3 65.7 1.7 3.9 1.0 0.1 72.3	19.0	25.1
Jul-23 89.7 46.6 4.4 4.1 3.1 0.0 58.2	31.6	26.1
Aug-23 67.2 37.4 0.0 0.0 3.9 0.0 41.3	25.9	23.9
Sep-23 128.6 67.2 0.9 7.0 4.8 0.1 80.0	48.6	35.0
Oct-23 82.3 49.2 0.0 1.6 0.4 0.4 51.6	30.6	31.1
Nov-23 107.8 41.9 0.9 2.0 2.6 0.0 47.3	60.5	29.6
Dec-23 23.6 34.6 1.2 7.1 0.6 0.0 43.6	-20.0	25.1
Jan-24 192.7 64.1 0.3 1.3 0.9 0.0 66.6	126.1	30.0

Source: Bloomberg, ICE Data Indices, LLC, BofA Global Research



Quantitative Review

Returns

Performance data include year-to-date sector returns, sector spreads, and a table summarizing a number of sector statistics such as size, performance and rating. At the issuer level, the top 25 names gained 91bps in terms of excess return in January while the bottom 25 large issuers lost 18bps in terms of excess return.

Ratings trends

Net upgrades (upgrades less downgrades, including Fallen Angels) for credits in ICE BofA US IG corporate index COAO declined to +\$8.3bn (net upgrade) in January from -\$66.4bn in December. Net LTM upgrades increased modestly to +5.8% of index notional in January from +5.7% of index notional in December. At the sector level Utilities and REITs contributed the most to the overall index negative rating actions in January (including watch (75% weight) and outlook (25% weight) changes), while Health Care, Technology and Oil & Gas contributed the most to positive rating actions.

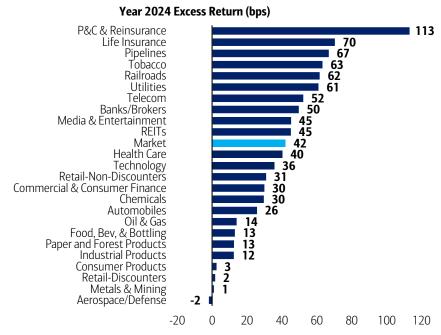
Fund flows

Net inflows to US IG bond funds and ETFs increased to +1.11% of assets in January (based only on funds reporting daily) from +0.52% of assets in December (based on all funds).

Appendix: Performance Data

Exhibit 22: High Grade YtD sector excess return

Year-to-date excess return for HG corporate market sectors, through January 31, 2024. Results include hybrid and subordinated securities.

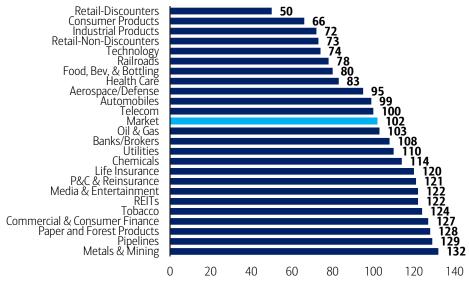


Source: BofA Global Research, ICE Data Indices, LLC



Exhibit 23: High grade spreads by sector (bps)

Sector spreads for BofA US IG Corporate Index COAO as of January 31 2023.



Note: Results include subordinated and hybrid securities.

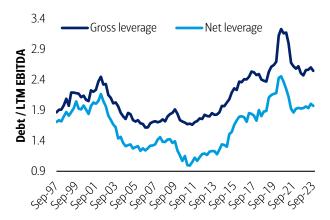
Source: ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Leverage and coverage

Exhibit 24: Net and gross leverage: ex. Utilities

US IG industrial (ex. financial & utility) leverage ratio was 2.55x on a gross basis and 1.97x on a net basis as of 3Q23.



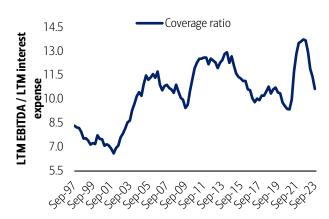
Note: Medians based on the US HG universe (ex. Fins and Utilities). Universe is rebalanced each quarter

Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Exhibit 25: Coverage: ex. Utilities

US IG industrial (ex. financial & utility) coverage ratio was 10.6x as of 3Q23.



Note: Medians based on the US HG universe (ex. Fins and Utilities). Universe is rebalanced each quarter.

Source: Bloomberg, BofA Global Research

BofA GLOBAL RESEARCH

Note: High grade market fundamental statistics are all median values for U.S. nonfinancial issuers in our benchmark USD high grade index COAO.

High grade sector historical performance

Exhibit 26: High Grade Sector Performance as of January 31, 2024

Sector spreads and performance for BofA HG U.S. Corporate Master COAO. Results include subordinated and hybrid securities

									Spread							
						Face	% Mkt	Excess Return (bps)	Change (bps)	Total Return						
Sector	Pating	OVE	Duration	Viold	Drico	race (\$bn)	% MKt Value	MTD	QTD	YTD	YOY	MTD	OTD	YTD	YOY	OTD
Aerospace/Defense	BBB2	95	7.8	5.08	94.5	154.5	1.79	-2	-2	-2	355	6	6	6	-18	-49
Automobiles	BBB1	99	3.9	5.09	97.1	249.9	2.97	26	26	26	333	-3	-3	-3	-6	46
Banks/Brokers	A2	108	4.6	5.29	95.7	1,947.1	22.77	50	50	50	290	-5	-5	-5	-15	62
Basic Materials	BBB2	122	7.0	5.31	94.2	339.5	3.92	19	19	19	378	1	1	1	-26	-9
Building Materials	BBB2	103	7.3	5.15	92.5	25.2	0.29	40	40	40	527	-1	-1	-1	-43	5
Chemicals	BBB2	114	7.4	5.26	92.4	124.0	1.40	30	30	30	351	-1	-1	-1	-26	-7
Homebuilders	BBB2	110	4.7	5.12	95.0	15.2	0.18	69	69	69	542	-4	-4	-4	-43	83
Metals & Mining	BBB1	132	7.5	5.39	96.0	128.6	1.51	1	1	1	364	4	4	4	-25	-31
Paper and Forest Products	BBB2	128	5.5	5.36	94.9	46.5	0.54	13	13	13	351	1	1	1	-21	12
Commercial Services	A3	86	8.3	4.96	90.2	114.4	1.26	66	66	66	472	-3	-3	-3	-35	5
Consumer Products	A2	66	6.5	4.72	94.3	80.3	0.93	3	3	3	278	1	1	1	-22	-17
Energy	BBB1	114	7.4	5.28	94.2	728.7	8.41	37	37	37	450	-1	-1	-1	-26	2
Oil & Gas	A3	103	7.6	5.15	92.7	410.0	4.65	14	14	14	412	3	3	3	-22	-28
Pipelines	BBB2	129	7.0	5.44	96.3	318.7	3.76	67	67	67	496	-4	-4	-4	-32	38
Finance	A3	111	5.2	5.24	94.0	446.7	5.13	36	36	36	353	-3	-3	-3	-20	35
Commercial & Consumer Finance	BBB1	127	3.8	5.41	96.4	164.0	1.93	30	30	30	314	-4	-4	-4	-17	53
Finance-Other Services	A3	102	6.1	5.14	92.6	282.8	3.20	40	40	40	374	-1	-1	-1	-22	24
Food, Bev, & Bottling	A3	80	7.7	4.90	93.3	321.2	3.66	13	13	13	379	2	2	2	-25	-29
Health Care	A3	83	8.4	4.97	92.0	835.7	9.41	40	40	40	361	-1	-1	-1	-20	-17
Industrial Products	A3	72	6.1	4.82	93.8	211.3	2.43	12	12	12	297	1	1	1	-21	-17
Insurance	A3	121	7.1	5.35	93.2	373.5	4.26	85	85	85	398	-7	-7	-7	-21	51
Insurance-Other	BBB1	116	8.0	5.24	92.9	38.1	0.43	81	81	81	455	-5	-5	-5	-25	27
Life Insurance	A2	120	6.3	5.36	93.4	234.4	2.68	70	70	70	344	-6	-6	-6	-20	50
Multi-Line Insurance	BBB1	134	8.9	5.58	95.3	22.6	0.26	137	137	137	528	-12	-12	-12	-19	77
P&C & Reinsurance	A3	121	8.4	5.34	92.1	78.5	0.20	113	113	113	492	-10	-10	-10	-27	58
Leisure	BBB2	119	3.8	5.25	95.6	29.8	0.35	4	4	4	318	2	2	2	-39	31
Media & Entertainment	BBB1	122	8.5	5.35	89.0	332.5	3.62	45	45	45	498	-2	-2	-2	-31	-18
Media-Cable	BBB1	131	9.2	5.45	87.7	158.3	1.70	37	37	37	447	-1	-1	-1	-23	-39
Media-Diversified	BBB1	114	7.9	5.25	90.1	174.2	1.92	52	52	52	543	-2	-2	-2	-38	1
Real Estate Dev & Mgt	A3	148	5.3	5.43	92.3	8.4	0.09	-7	-7	-7	377	5	5	5	-26	6
REITS	BBB1	122	5.6	5.26	91.4	284.3	3.17	45	45	45	366	-6	-6	-6	-31	46
Retail	A2	72	7.8	4.83	91.6	315.7	3.54	27	27	27	358	0	0	0	-21	-20
Food & Drug Retailers	BBB2	112	7.7	5.24	89.8	23.2	0.25	54	54	54	387	-2	-2	-2	-22	15
Retail-Discounters	A1	50	7.4	4.61	94.8	55.3	0.64	2	2	2	250	2	2	2	-15	-36
Retail-Non-Discounters	A3	73	7.9	4.84	91.0	237.2	2.64	31	31	31	381	0	0	0	-22	-19
Technology	A2	74	7.6	4.85	91.2	556.2	6.21	36	36	36	474	-1	-1	-1	-34	-10
Telecom	BBB2	100	8.5	5.10	90.5	336.9	3.74	52	52	52	505	-2	-2	-2	-37	-9
Tobacco	BBB1	124	7.0	5.35	94.1	87.8	1.02	63	63	63	645	-5	-5	-5	-47	38
Transportation	BBB1	97	9.1	5.14	91.7	192.6	2.16	42	42	42	456	-3	-3	-3	-32	-32
Railroads	A3	78	11.2	4.95	89.5	110.3	1.21	62	62	62	489	-2	-2	-2	-28	-53
Transportation-Other	BBB2	123	6.4	5.37	94.6	82.3	0.95	17	17	17	409	-2	-2	-2	-35	-6
Utilities	A3	110	8.3	5.23	92.1	812.6	9.16	61	61	61	398	-4	-4	-4	-26	7
Market	A3	102	6.8	5.16	93.3	8,759.6	100.00	42	42	42	380	-2	-2	-2	-23	15
		.02	0.0	5.10	55.5	5,7 55.0	. 55.55	.2		12	550			_		. 5

 $\textbf{Source:} \ \mathsf{ICE} \ \mathsf{Data} \ \mathsf{Indices,} \ \mathsf{LLC,} \ \mathsf{BofA} \ \mathsf{Global} \ \mathsf{Research}$



Exhibit 27: Summary of fallen angels, January 2024

Number of IG issuers downgraded to HY in January 2024: 4.

Ticker	Rating	N Bonds	Par, \$mn	Avg. Price	Avg. Yield	Avg. OAS
BRASKM	BB1	6	5,923	80.75	9.72	577
VNO	BB1	3	1,200	88.99	6.84	251
WBA	BB1	7	4,403	85.58	5.93	181
Total		16	11,526	83.53	7.93	388

Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 28: Summary of rising stars, January 2024

Number of HY issuers upgraded to IG in January 2024: 1.

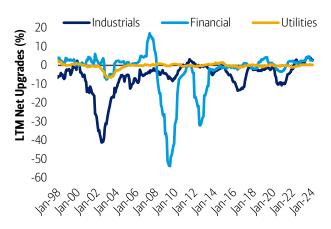
Ticker	Rating	N Bonds	Par, \$mn	Avg. Price	Avg. Yield	Avg. OAS
ICLR	BBB3	1	500	93.44	5.68	154
Total		1	500	93.44	5.68	154

Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 29: Net LTM upgrades and rising stars as percent of HG index notional.

LTM net downgrades as shares of index notional moderated for Industrials and Utilities in January



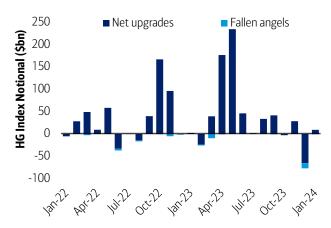
Note: Net upgrades equal to the total notional upgraded each month less the total notional that was downgraded. Rising stars are credit that migrated from HY Master (H0A0) to HG Master (C0A0) during the month.

Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 30: HG Index upgrade and fallen angel volumes.

Net upgrades for credits in the US IG corporate Index totaled +\$8.3bn in Jan.

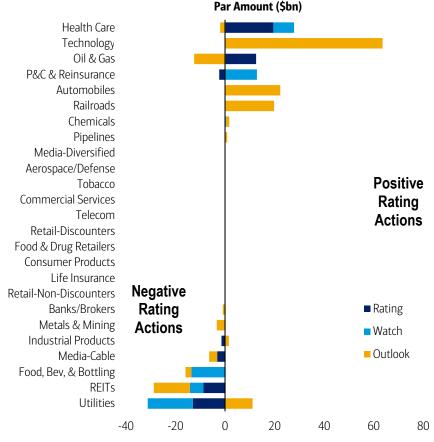


Note: Net upgrades equal to the total notional upgraded each month less the total notional that was downgraded. Fallen angels are credit that migrated from HG Master (COAO) to HY Master (HOAO) during the month.

Source: BofA Global Research, ICE Data Indices, LLC

Exhibit 31: January 2024 rating actions by sector, percent of HG index market value

Data include rating action by any of the three agencies (Moody's, S&P, Fitch).

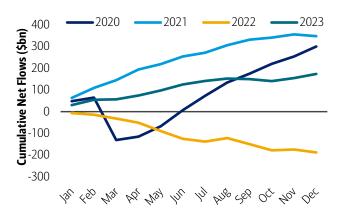


Source: BofA Global Research, ICE Data Indices, LLC

BofA GLOBAL RESEARCH

Exhibit 32: LTM mutual fund net flows in HG credit funds

Cumulative outflows in 2023 were stronger than in 2022, but weaker than in 2021.

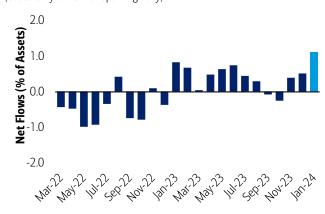


Note: Weekly-only mutual fund flows for the latest month, all-funds flows for earlier months. Source: BofA Global Research, EPFR

BofA GLOBAL RESEARCH

Exhibit 33: Monthly HG fund and ETF flows

Net inflows to US IG bond funds and ETFs = +1.11% of assets in January (based only on funds reporting daily)



Note: Weekly-only mutual fund flows for the latest month, all-funds flows for earlier months. Source: BofA Global Research, EPFR

BofA GLOBAL RESEARCH



14

Exhibit 34: Monthly top and bottom performersTop and bottom excess-return performers in BofA HG Master Index (COAO). Results include hybrids and subordinated securities

		Top 25 Credits	_	0.15				Bottom 25 Credits	_	0.45	
Rnk	Name	Ticker	Excess Return	OAS Chg	Weight	Rnk	Name	Ticker	Excess Return	OAS Chg	Weight
1	PG&E Corp	PCG	175	-17	0.40	1	Saudi Arabian Oil Co	ARAMCO	-203	28	0.23
2	TransCanada PipeLines Ltd.	TRPCN	149	-16	0.23	2	Boeing Co	BA	-92	19	0.54
3	Warner Bros. Discovery, Inc.	WBD	126	-9	0.45	3	Sinopec Group	SINOPE	-54	9	0.21
4	Consolidated Edison	ED	123	-7	0.22	4	The Coca-Cola Company	KO	-34	8	0.21
5	Altria Group	MO	118	-9	0.24	5	PepsiCo	PFP	-31	7	0.33
6	Kinder Morgan	KMI	103	-8	0.31	6	AerCap Holdings NV	AER	-27	7	0.29
7	Raytheon Technologies Corp	RTX	103	-7	0.42	7	Johnson & Johnson	JNJ	-24	4	0.28
8	Enbridge Inc	ENBCN	100	-9	0.30	8	Royal Bank of Canada	RY	-16	3	0.30
9	MPLX LP	MPLX	99	-8	0.23	9	Bayer US Finance II LLC	BAYNGR	-15	4	0.21
10	Enel SPA	ENELIM	95	-9	0.23	10	Deere	DE	-11	4	0.37
11	Williams Cos	WMB	94	-8	0.25	11	Toyota Motor Credit	TOYOTA	-10	5	0.40
12	Oracle Corp	ORCL	93	-5	0.85	12	American Honda Finance Corp) HNDA	-7	3	0.20
13	MidAmerican Energy Company	BRKHEC	91	-6	0.44	13	Charter Communications Inc	CHTR	-6	5	0.47
14	Enterprise Products Partners LP	EPD	87	-4	0.32	14	Wal-Mart Stores	WMT	-5	3	0.37
15	Wells Fargo	WFC	86	-8	1.42	15	Lockheed Martin Corporation	LMT	-5	4	0.21
16	Energy Transfer LP	ET	86	-5	0.47	16	Eversource Energy	ES	-2	5	0.21
17	Commonwealth Bank of Australia	CBAAU	84	-7	0.23	17	Merck & Co., Inc.	MRK	-1	4	0.34
18	American Electric Power Co	AEP	83	-6	0.36	18	AstraZeneca PLC	AZN	0	2	0.22
19	Southern Co	SO	82	-7	0.44	19	The Toronto-Dominion Bank	TD	0	1	0.32
20	AT&T Corp	T	81	-3	0.95	20	CVS	CVS	1	3	0.63
21	Lowe's Companies, Inc.	LOW	80	-3	0.39	21	Walt Disney Co	DIS	2	2	0.42
22	Bank of America	BAC	74	-9	2.10	22	Intel Corporation	INTC	4	4	0.54
23	Goldman Sachs Group	GS	74	-9	1.19	23	Caterpillar	CAT	8	1	0.23
24	Burlington Northern Santa Fe, LLC	BNSF	73	-5	0.23	24	Cigna Holding Company	CI	8	6	0.31
25	Xcel Energy	XEL	72	-4	0.25	25	Home Depot	HD	10	3	0.46
	Average (Market Weighted)		91	-7	12.93		Average (Market Weighted))	-18	6	8.30

Source: BofA Global Research, ICE Data Indices, LLC

Disclosures

Important Disclosures

BofA Global Research Credit Opinion Key

BofA Global Research provides recommendations on an issuer's bonds (including corporate and sovereign external debt securities), loans, capital securities, equity preferreds and CDS as described below. Convertible securities are not rated. An issuer level recommendation may also be provided for an issuer as explained below. BofA Global Research credit recommendations are assigned using a three-month time horizon.

Issuer Recommendations: If an issuer credit recommendation is provided, it is applicable to bonds and capital securities of the issuer except bonds and capital securities specifically referenced in the report with a different credit recommendation. Where there is no issuer credit recommendation, only individual bonds and capital securities with specific recommendations are covered. Loans, CDS and equity preferreds are rated separately and issuer recommendations do not apply to them.

BofA Global Research credit recommendations are assigned using a three-month time horizon:

Overweight: Spreads and /or excess returns are likely to outperform the relevant and comparable market over the next three months. **Marketweight:** Spreads and/or excess returns are likely to perform in-line with the relevant and comparable market over the next three months. **Underweight:** Spreads and/or excess returns are likely to underperform the relevant and comparable market over the next three months.

BofA Global Research uses the following rating system with respect to Credit Default Swaps (CDS):

Buy Protection: Buy CDS, therefore going short credit risk. **Neutral:** No purchase or sale of CDS is recommended. **Sell Protection:** Sell CDS, therefore going long credit risk.

Due to the nature of strategic analysis, the issuers or securities recommended or discussed in this report are not continuously followed. Accordingly, investors must regard this report as providing stand-alone analysis and should not expect continuing analysis or additional reports relating to such issuers and/or securities.

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

BofA Securities fixed income analysts regularly interact with sales and trading desk personnel in connection with their research, including to ascertain pricing and liquidity in the fixed income markets

Other Important Disclosures

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

This report may refer to fixed income securities or other financial instruments that may not be offered or sold in one or more states or jurisdictions, or to certain categories of investors, including retail investors. Readers of this report are advised that any discussion, recommendation or other mention of such instruments is not a solicitation or offer to transact in such instruments. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor for information relating to such instruments. Rule 144A securities may be offered or sold only to persons in the U.S. who are Qualified Institutional Buyers within the meaning of Rule 144A under the Securities Act of 1933, as amended. SECURITIES OR OTHER FINANCIAL INSTRUMENTS DISCUSSED HEREIN MAY BE RATED BELOW INVESTMENT GRADE AND SHOULD THEREFORE ONLY BE CONSIDERED FOR INCLUSION IN ACCOUNTS QUALIFIED FOR SPECULATIVE INVESTMENT.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

The securities or other financial instruments discussed in this report may be traded over-the-counter. Retail sales and/or distribution of this report may be made only in states where these instruments are exempt from registration or have been qualified for sale.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments.

This report, and the securities or other financial instruments discussed herein, may not be eligible for distribution or sale in all countries or to certain categories of investors, including retail investors.

Information relating to Affiliates of BofAS, MLPF&S and Distribution of Affiliate Research Reports:

Refer to BofA Global Research policies relating to conflicts of interest.

'BofA Securities' includes BofA Securities, Inc. ('BofAS') and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. 'BofA Securities' is a global brand for BofA Global Research.

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Hong Kong): Merr (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch Canada Inc, regulated by the Canadian Investment Regulatory Organization; Merrill Lynch (Mexico): Merrill Lynch Mexico, SA de CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (International (DIFC Branch), regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch (S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch (S.A. Corretora de Títulos e Valores Mobiliários)



Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securities entities, i

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

This report may contain a trading idea or recommendation which highlights a specific identified near-term catalyst or event impacting a security, issuer, industry sector or the market generally that presents a transaction opportunity, but does not have any impact on the analyst's particular "Overweight" or "Underweight" rating (which is based on a three month trade horizon). Trading ideas and recommendations may differ directionally from the analyst's rating on a security or issuer because they reflect the impact of a near-term catalyst or event.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned in this report. Investors in such securities and instruments

effectively assume currency risk.

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing

such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies.

Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

