

# Market Transparency Report

Monthly Guide to the U.S. Retail Fixed Income Markets

### July 2022

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### **Overview**

### About the Market Transparency Report

The data and analysis contained in this monthly report are intended to provide transparency into the dynamics of the U.S. Fixed Income markets for retail investors. The report presents the important trends in the market, including trade volumes, most active issuers, yield/spread movements and buy/sell ratios. Retail trades are defined as odd-lot transactions under 100 bonds (i.e. less than \$100,000 par value). The retail market is much smaller than the institutional market on a par value basis, but it accounts for more than 2/3 of the trades that occur in the marketplace.

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# **Market Commentary**

|           | Median Yield (bps) | Daily Trade Volume | Buy/Sell Ratio |
|-----------|--------------------|--------------------|----------------|
| Agency    | -9                 | -16.0%             | 0.7            |
| CD        | 45                 | 7.2%               | -0.3           |
| Corp      | -8                 | -14.1%             | 0.0            |
| Municipal | -16                | -20.4%             | 0.0            |
| Treasury  | 37                 | 4.2%               | 0.0            |

#### Monthly Change Table for July 2022

For monthly security trend data, see slides 5, 6 and 7



## Yield Matrix

| verage Y    | ield, % for July 202 | 2          |            |            |            |            |            |                     | 4     | Verage Yie | ld, %    |          |
|-------------|----------------------|------------|------------|------------|------------|------------|------------|---------------------|-------|------------|----------|----------|
|             |                      |            |            |            | TTM        |            |            | Median              | 8     |            |          |          |
| Market      |                      |            | 1          | 3          | 5          | 10         | 20         | Maturity            |       |            |          |          |
| MSRB Muni   |                      |            | 1.7        | 2.0        | 2.2        | 2.8        | 3.6        | (Years)             |       |            |          |          |
| TRACE Corp  |                      |            | 3.3        | 3.9        | 4.5        | 5.7        | 5.6        | 10<br>3             | 6     |            |          |          |
| TRACE Agend | су                   |            | 2.9        | 3.1        | 3.1        | 3.2        | 3.9        | 1                   |       |            |          | MSRB M   |
| 20          |                      |            | 2.0        | 2.2        | 2.5        | 2.0        | 4.2        |                     | -     |            |          | TRACE C  |
| CD          |                      |            | 2.8<br>2.9 | 3.3<br>3.1 | 3.5<br>3.0 | 3.8<br>2.9 | 4.2<br>3.4 | 1<br>1              | Aield |            |          | TRACE A  |
| Freasury    |                      |            | 2.9        | 3.1        | 3.0        | 2.9        | 3.4        | 1                   | >     |            |          | TRACE A  |
| sset Clas   | 22                   |            |            |            |            |            |            |                     | -     |            |          |          |
| 5500 0103   | 33                   |            |            |            |            |            |            |                     | 2     |            |          |          |
|             |                      |            |            | _          | _          |            |            | Median              |       |            |          |          |
| Market      | Category (Filtered)  | Rating Key | 1          | 3          | 5          | 10         | 20         | Maturity            |       |            |          |          |
|             |                      |            |            |            |            |            |            | (Years)             | 0     |            |          |          |
| TRACE       |                      | AA         | 2.6        | 3.5        | 4.0        | 4.3        | 4.0        | 3                   | °⊣-+  |            |          |          |
|             | Financial            | A          | 3.0        | 3.6        | 3.8        | 4.2        | 4.9        | 1                   | 0     | 5 10       | 15 20    | )        |
|             |                      | BBB        | 3.4        | 4.1        | 4.3        | 5.1        | 5.4        | 3                   |       | Time to N  | Aaturity |          |
|             |                      | HY         | 11.8       | 6.7        | 7.3        | 9.4        | 2.0        | 1                   |       |            |          |          |
| Corp        |                      | AAA        | 2.3        | 2.2        | 2.4        | 2.7        | 3.9        | /                   | 5     |            |          |          |
|             | Non-Financial        | AA         | 2.8        | 3.2        | 3.4        | 3.7        | 4.0        | 2                   |       |            |          |          |
|             |                      | A          | 3.0        | 3.6        | 3.8        | 3.9        | 6.0        | 3                   |       |            |          |          |
|             |                      | BBB        | 3.5        | 4.3        | 4.8        | 5.0        | 6.3        | 3                   | 4 -   |            |          |          |
|             |                      | HY         | 5.1        | 6.3        | 10.4       | 11.0       | 7.1        | 8                   |       |            |          |          |
|             |                      |            |            |            |            |            |            | Median              | 3-    |            |          | -        |
|             |                      |            | 1          | 3          | 5          | 10         | 20         | Maturity<br>(Years) | Yield |            |          | CD       |
|             |                      | AAA        | 1.5        | 1.9        | 2.1        | 2.6        | 3.3        | 7                   |       |            |          | Treasury |
|             |                      | AA         | 1.6        | 2.0        | 2.2        | 2.8        | 3.5        | 9                   | 2     |            |          |          |
|             | GO                   | A          | 1.8        | 2.1        | 2.3        | 2.8        | 3.4        | 8                   |       |            |          |          |
|             |                      | BBB        | 2.3        | 2.9        | 2.9        | 3.5        | 4.0        | 9                   |       |            |          |          |
| MSRB        |                      | HY         | 3.0        | 4.2        |            | 4.6        | 4.9        | 16                  | 1     |            |          |          |
| Muni        |                      | AAA        | 1.6        | 1.9        | 2.2        | 2.6        | 3.3        | 8                   |       |            |          |          |
|             |                      | AA         | 1.6        | 2.0        | 2.2        | 2.8        | 3.5        | 11                  | 0     |            |          |          |
|             | Revenue              | A          | 1.8        | 2.2        | 2.4        | 3.0        | 3.8        | 18                  |       | ····i      | ii       |          |
|             |                      | BBB        | 2.4        | 2.8        | 2.9        | 3.8        | 4.1        | 15                  | 0     | 5 10       | 15 20    | )        |
|             |                      | HY         | 5.1        | 5.5        | 4.7        | 4.9        | 5.0        | 14                  |       | Time to M  | aturity  |          |

WA Yield = "Weighted Average Yield"

Source: TRACE, RTRS (MSRB's Real-time Transactional Reporting System) and Tradeweb Direct

-The yields in each cell for Corporate/Agency/Municipal are the weighted average yield based on odd-lot customer buy transcations reported in TRACE/MSRB.

-The yields in each cell for Treasury/CD are the weighted average yield based on buy transactions on the Tradeweb Direct Platform.

-The weights are based on transaction size.

-Yield summaries for Corporate and Agency exclude transactions in callable or floating-rate coupon bonds.

-Yield summaries for Municipal exclude transactions in taxable bonds.

-See appendix for the definition of maturity and rating buckets.



#### Treasury Agency CD 2.40 2.10 1.80 1.50 1.20 0.90 3.00 3.00 -Aedian Yield 1.00 -Median Yield 2.00 Median Yield, % 1.00 0.60 0.30 0.00 0.00 Dec-21 Jan-22 Feb-22 Mar-22 Apr-22 Jun-22 Jul-22 Jun-22 Jul-22 Sep-21 Oct-21 Nov-21 May-22 Sep-21 Oct-21 Nov-21 Dec-21 Jan-22 Feb-22 Mar-22 Apr-22 May-22 Aug-21 Sep-21 Oct-21 Nov-21 Dec-21 Jan-22 Feb-22 Mar-22 Apr-22 May-22 Jun-22 Jul-22 Aug-21 Aug-21 600 400 200 Daily Trades Index Daily Trades Index 300 - 004 Change 200 -200 100 **Daily Trades** 100 0 0 0 May-22 Jun-22 Jul-22 Aug-21 Sep-21 Oct-21 Jun-22 Jul-22 Nov-21 Dec-21 Jan-22 Feb-22 Mar-22 Apr-22 May-22 Jun-22 Jul-22 Aug-21 Sep-21 Oct-21 Nov-21 Dec-21 Jan-22 Feb-22 Mar-22 Apr-22 Aug-21 Sep-21 Oct-21 Nov-21 Dec-21 Jan-22 Feb-22 Mar-22 Apr-22 May-22 20. 3.00 6 Buy/Sell Ratio 1.00 Buy/Sell Ratio 15 **Buy/Sell Ratio** 2.00 4. 10-**Buy/Sell Ratio** 2 0 0.00 0 Aug-21 Nov-21 Jul-22 Aug-21 Oct-21 Dec-21 Jan-22 Feb-22 Apr-22 May-22 Jun-22 Jul-22 Aug-21 Dec-21 Jan-22 Feb-22 Mar-22 Apr-22 May-22 Jun-22 Sep-21 Oct-21 Nov-21 May-22 Jun-22 Jul-22 Sep-21 Mar-22 Sep-21 Oct-21 Nov-21 Dec-21 Jan-22 Feb-22 Mar-22 Apr-22

### Treasury, Agency, CD Transaction Trend Summary

Daily Trades: First month = 100

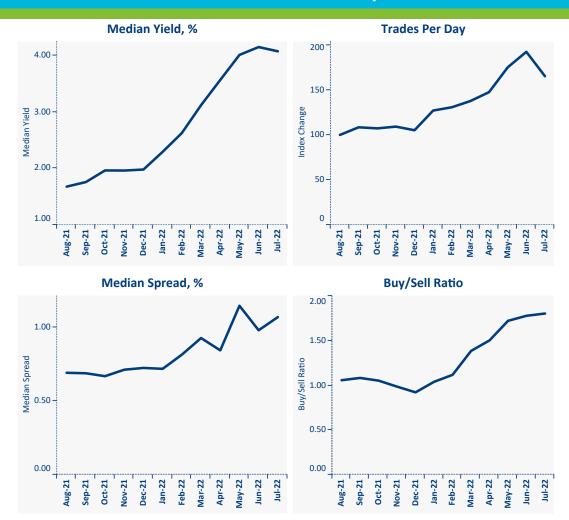
Source: TRACE and Tradeweb Direct

-Treasury and CD are based on transactions on the Tradeweb Direct Platform. Median yields are based on all customer buy transactions.

-Agency is based on odd-lot customer transactions (<100M) reported in TRACE. Median yields are based on all odd-lot customer buy transactions.



# **Corporate Bonds: Odd-Lot Customer Transaction Trend Summary**



Daily Trades: First month = 100 Source: TRACE and Tradeweb Direct

-Based on odd-lot customer transactions (<100M) reported in TRACE.

-Median yields and spreads are based on all odd-lot customer buy transactions...



# **Municipal Bonds: Odd-Lot Customer Transaction Trend Summary**



Median Spread, %

**Buy/Sell Ratio** 



Daily Trades: First month = 100

Source: RTRS (MSRB's Real-time Transaction Reporting System) and Tradeweb Direct

-Based on odd-lot customer transactions (<100M) reported in MSRB.

-Median yields and spreads are based on all odd-lot customer buy transactions.

-Spread for each transaction is calculated against the Treasury yield for the same maturity.



# **Corporate Bonds: Top 20 <u>Most Active</u> Issuers**

### July 2022

| Index | Ticker | Company                                 | Rating Key<br>(Med) | Issues Traded | % of Total<br>Trades | Trades | Buy/Sell<br>Ratio | Dollar Vol.<br>Traded<br>(MM) | 1Y Yield<br>(Buy) | 3Y Yield<br>(Buy) | 5Y Yield<br>(Buy) | 10Y Yield<br>(Buy) | 20Y Yield<br>(Buy) |
|-------|--------|---|---------------------|---------------|----------------------|--------|-------------------|-------------------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| 1     | JPM    | JP MORGAN CHASE                         | А                   | 646           | 3.2%                 | 20,739 | 1.4               | 361                           | 3.1               | 3.7               | 4.1               | 4.5                | 5.0                |
| 2     | GS     | GOLDMAN SACHS                           | A                   | 882           | 3.1%                 | 19,913 | 1.7               | 333                           | 3.3               | 4.0               | 4.3               | 4.8                | 5.2                |
| 3     | NOC    | NORTHROP GRUMMAN CORP                   | BBB                 | 17            | 2.8%                 | 18,117 | 35.5              | 54                            | 3.4               | 3.7               | 3.8               | 4.2                | 4.9                |
| 4     | С      | CITIGROUP                               | BBB                 | 612           | 2.6%                 | 16,809 | 1.6               | 295                           | 3.3               | 4.0               | 4.4               | 5.1                | 5.2                |
| 5     | BAC    | BANK OF AMERICA                         | А                   | 290           | 2.2%                 | 14,074 | 1.6               | 307                           | 3.0               | 3.9               | 4.3               | 4.7                | 5.0                |
| 6     | MS     | MORGAN STANLEY                          | А                   | 668           | 2.0%                 | 12,828 | 1.5               | 233                           | 3.2               | 4.0               | 4.4               | 4.6                | 4.9                |
| 7     | WFC    | WELLS FARGO                             | А                   | 134           | 1.8%                 | 11,621 | 1.3               | 185                           | 3.4               | 4.0               | 4.3               | 4.8                | 5.3                |
| 8     | GM     | GENERAL MOTORS FINANCIAL COMPANY INC    | BBB                 | 77            | 1.4%                 | 9,123  | 3.1               | 191                           | 3.8               | 4.6               | 5.1               | 5.5                | 6.3                |
| 9     | VZ     | VERIZON                                 | BBB                 | 126           | 1.4%                 | 8,773  | 1.1               | 122                           |                   | 3.5               | 4.0               | 4.3                | 4.8                |
| 10    | AAPL   | APPLE INC                               | AA                  | 50            | 1.3%                 | 8,363  | 1.4               | 141                           | 2.8               | 3.2               | 3.3               | 3.6                | 4.1                |
| 11    | BA     | BOEING CO                               | BBB                 | 53            | 1.1%                 | 7,093  | 4.5               | 146                           | 3.7               | 4.8               | 5.0               | 5.4                | 6.1                |
| 12    | CMCS   | COMCAST                                 | А                   | 55            | 1.1%                 | 6,978  | 0.9               | 96                            |                   | 3.6               | 3.8               | 4.1                | 4.6                |
| 13    | ORCL   | ORACLE CORP                             | BBB                 | 34            | 1.0%                 | 6,455  | 1.6               | 113                           | 3.4               | 4.0               | 4.6               | 5.1                | 5.8                |
| 14    | т      | AT&T                                    | BBB                 | 97            | 1.0%                 | 6,349  | 0.9               | 96                            | 2.3               | 4.0               | 4.1               | 4.5                | 5.1                |
| 15    | CVS    | CVS CAREMARK CORP                       | BBB                 | 41            | 1.0%                 | 6,187  | 1.1               | 87                            | 3.5               | 3.8               | 4.2               | 4.5                | 5.0                |
| 16    | COF    | CAPITAL ONE FINL CORP                   | BBB                 | 29            | 1.0%                 | 6,100  | 2.9               | 106                           | 3.8               | 4.2               | 4.6               |                    |                    |
| 17    | BRK    | BERKSHIRE HATHAWAY                      | AA                  | 145           | 0.8%                 | 5,225  | 1.3               | 105                           | 2.6               | 3.4               | 3.9               | 4.0                | 4.8                |
| 18    | AXP    | AMERICAN EXPRESS                        | Α                   | 29            | 0.8%                 | 4,975  | 1.0               | 78                            | 3.1               | 3.5               | 3.9               |                    | 4.7                |
| 19    | DIS    | DISNEY WALT CO NEW MEDIUM TERM NTS BOOK | A                   | 68            | 0.8%                 | 4,961  | 1.0               | 70                            | 3.3               | 3.5               | 3.9               | 4.1                | 4.6                |
| 20    | TGT    | TARGET CORP                             | A                   | 17            | 0.8%                 | 4,903  | 7.5               | 30                            |                   | 3.2               | 3.3               | 3.9                | 4.3                |
|       |        |   |                     |               |                      |        |                   |                               |                   |                   |                   |                    |                    |

Source: TRACE and Tradeweb Direct -Based on odd-lot customer transactions (<100M) reported in TRACE.

-Issuer ratings are based on median rating of traded bonds from each issuer. Bond ratings are from Moody's and S&P.



# Corporate Bonds: Top 20 Issuers with <u>Highest</u> Buy/Sell Ratio

### July 2022

| Index | Ticker | Company                                  | Rating<br>Key<br>(Med) | Issues<br>Traded | % of Total<br>Trades | Trades | Trades<br>(Buy) | Trades<br>(Sell) | Buy/Sell<br>Ratio | Dollar Vol.<br>Traded<br>(MM) | 1Y Yield<br>(Buy) | 3Y Yield<br>(Buy) | 5Y Yield<br>(Buy) | 10Y Yield<br>(Buy) | 20Y Yield<br>(Buy) |
|-------|--------|--|------------------------|------------------|----------------------|--------|-----------------|------------------|-------------------|-------------------------------|-------------------|-------------------|-------------------|--------------------|--------------------|
| 1     | NOC    | NORTHROP GRUMMAN CORP                    | BBB                    | 17               | 2.8%                 | 18,117 | 17,620          | 497              | 35.5              | 54                            | 3.4               | 3.7               | 3.8               | 4.2                | 4.9                |
| 2     | CE     | CELANESE US HLDGS LLC                    | BBB                    | 8                | 0.3%                 | 1,867  | 1,737           | 130              | 13.4              | 44                            |                   | 5.6               | 5.7               | 6.1                |                    |
| 3     | FIS    | FIDELITY NATL INFORMATION SVCS INC       | BBB                    | 14               | 0.3%                 | 1,627  | 1,500           | 127              | 11.8              | 17                            | 3.5               | 4.4               | 4.7               | 4.9                | 5.2                |
| 4     | TGT    | TARGET CORP                              | А                      | 17               | 0.8%                 | 4,903  | 4,324           | 579              | 7.5               | 30                            |                   | 3.2               | 3.3               | 3.9                | 4.3                |
| 5     | BMO    | BANK MONTREAL MEDIUM TERM SR NTS BOOK EN | А                      | 122              | 0.7%                 | 4,746  | 4,054           | 692              | 5.9               | 52                            | 3.3               | 4.0               | 4.2               | 4.6                |                    |
| 6     | QCOM   | QUALCOMM                                 | А                      | 14               | 0.5%                 | 3,225  | 2,746           | 479              | 5.7               | 24                            | 2.6               | 3.3               | 3.5               | 3.8                | 4.4                |
| 7     | ICE    | IntercontinentalExchange Group Inc       | А                      | 15               | 0.4%                 | 2,311  | 1,950           | 361              | 5.4               | 23                            |                   | 3.7               | 4.2               | 4.3                | 4.6                |
| 8     | PM     | PHILIP MORRIS INTL INC                   | A                      | 25               | 0.3%                 | 2,116  | 1,756           | 360              | 4.9               | 41                            | 3.1               | 3.8               | 4.5               | 4.9                | 5.7                |
| 9     | MO     | ALTRIA GROUP INC                         | BBB                    | 24               | 0.5%                 | 3,350  | 2,779           | 571              | 4.9               | 71                            | 3.6               | 4.5               | 4.6               | 5.7                | 6.5                |
| 10    | BA     | BOEING CO                                | BBB                    | 53               | 1.1%                 | 7,093  | 5,808           | 1,285            | 4.5               | 146                           | 3.7               | 4.8               | 5.0               | 5.4                | 6.1                |
| 11    | PCG    | PACIFIC GAS & ELEC CO                    | BBB                    | 47               | 0.3%                 | 2,043  | 1,656           | 387              | 4.3               | 44                            | 4.3               | 5.5               | 5.9               | 6.3                | 6.5                |
| 12    | LUV    | SOUTHWEST AIRLS CO                       | BBB                    | 10               | 0.3%                 | 1,881  | 1,519           | 362              | 4.2               | 33                            | 3.5               | 4.2               | 4.6               | 5.0                |                    |
| 13    | SAN    | ABBEY NATL TREAS SVCS PLC                | BBB                    | 42               | 0.3%                 | 1,815  | 1,445           | 370              | 3.9               | 43                            | 3.2               | 4.7               | 4.9               | 5.8                |                    |
| 14    | HCA    | HCA INC                                  | BBB                    | 24               | 0.4%                 | 2,608  | 2,047           | 561              | 3.7               | 52                            | 3.8               | 5.1               | 5.2               | 5.6                | 6.1                |
| 15    | NEE    | FPL GROUP CAP INC                        | BBB                    | 52               | 0.6%                 | 3,878  | 3,043           | 835              | 3.6               | 45                            | 3.2               | 3.7               | 4.2               | 4.4                | 4.5                |
| 16    | ALLY   | ALLY FINANCIAL                           | BBB                    | 35               | 0.5%                 | 3,124  | 2,439           | 685              | 3.6               | 60                            | 4.1               | 4.6               | 5.4               | 6.2                |                    |
| 17    | EIX    | EDISON MISSION                           | A                      | 49               | 0.4%                 | 2,572  | 1,994           | 578              | 3.5               | 52                            | 3.4               | 4.0               | 4.6               | 4.6                | 5.4                |
| 18    | SLM    | SLM CORP                                 | В                      | 86               | 0.3%                 | 1,607  | 1,242           | 365              | 3.4               | 21                            | 5.1               | 8.3               | 9.0               | 9.5                |                    |
| 19    | CS     | CREDIT SUISSE                            | A                      | 206              | 0.2%                 | 1,535  | 1,182           | 353              | 3.4               | 28                            | 3.8               | 4.4               | 4.5               | 5.4                | 6.0                |
| 20    | GM     | GENERAL MOTORS FINANCIAL COMPANY INC     | BBB                    | 77               | 1.4%                 | 9,123  | 6,916           | 2,207            | 3.1               | 191                           | 3.8               | 4.6               | 5.1               | 5.5                | 6.3                |

Source: TRACE and Tradeweb Direct

-Based on odd-lot customer transactions (<100M) reported in TRACE.

-The top 20 issuers are selected among the top 100 most active issuers in odd-lot TRACE.

-Issuer ratings are based on median rating of traded bonds from each issuer. Bond ratings are from Moody's and S&P.



# Corporate Bonds: Top 20 Issuers with Lowest Buy/Sell Ratio

#### July 2022

| Index | Ticker | Company                                  | Rating<br>Key<br>(Med) | Issues<br>Traded | % of Total<br>Trades | Trades | Trades<br>(Buy) | Trades<br>(Sell) | Buy/Sell<br>Ratio | Dollar Vol.<br>Traded<br>(MM) | 1Y Yield<br>(Sell) | 3Y Yield<br>(Sell) | 5Y Yield<br>(Sell) | 10Y Yield<br>(Sell) | 20Y Yield<br>(Sell) |
|-------|--------|--|------------------------|------------------|----------------------|--------|-----------------|------------------|-------------------|-------------------------------|--------------------|--------------------|--------------------|---------------------|---------------------|
| 1     | RDS    | SHELL                                    | AA                     | 24               | 0.4%                 | 2,802  | 930             | 1,872            | 0.50              | 33                            | 3.1                | 3.6                | 3.7                | 4.0                 | 4.8                 |
| 2     | SBUX   | STARBUCKS CORP                           | BBB                    | 18               | 0.3%                 | 1,854  | 748             | 1,106            | 0.68              | 26                            | 3.3                | 3.7                | 4.1                | 4.4                 | 5.1                 |
| 3     | HD     | HOME DEPOT                               | А                      | 33               | 0.4%                 | 2,611  | 1,146           | 1,465            | 0.78              | 40                            | 3.1                | 3.4                | 3.4                | 3.9                 | 4.5                 |
| 4     | CMCS   | COMCAST                                  | А                      | 55               | 1.1%                 | 6,978  | 3,258           | 3,720            | 0.88              | 96                            |                    | 3.7                | 3.9                | 4.1                 | 4.6                 |
| 5     | т      | AT&T                                     | BBB                    | 97               | 1.0%                 | 6,349  | 3,026           | 3,323            | 0.91              | 96                            | 2.8                | 4.1                | 4.2                | 4.6                 | 5.2                 |
| 6     | PEP    | PEPSICO                                  | А                      | 36               | 0.3%                 | 1,627  | 797             | 830              | 0.96              | 28                            | 3.0                | 3.2                | 3.3                | 3.7                 | 4.1                 |
| 7     | V      | VIVENDI                                  | AA                     | 13               | 0.3%                 | 1,757  | 859             | 898              | 0.96              | 28                            |                    | 3.5                | 3.5                | 3.7                 | 4.1                 |
| 8     | EDP    | ENTERPRISE PRODS OPER LLC                | BBB                    | 32               | 0.5%                 | 2,928  | 1,438           | 1,490            | 0.97              | 34                            | 3.5                | 4.0                | 4.2                | 4.6                 | 5.5                 |
| 9     | AMZN   | AMAZON COM INC                           | AA                     | 34               | 0.7%                 | 4,309  | 2,138           | 2,171            | 0.98              | 73                            | 3.0                | 3.2                | 3.5                | 3.8                 | 4.2                 |
| 10    | DIS    | DISNEY WALT CO NEW MEDIUM TERM NTS BOOK  | А                      | 68               | 0.8%                 | 4,961  | 2,451           | 2,510            | 0.98              | 70                            | 3.8                | 3.7                | 3.9                | 4.1                 | 4.6                 |
| 11    | AXP    | AMERICAN EXPRESS                         | А                      | 29               | 0.8%                 | 4,975  | 2,525           | 2,450            | 1.03              | 78                            | 3.2                | 3.6                | 3.9                |                     | 5.2                 |
| 12    | ко     | COCA COLA CO                             | А                      | 29               | 0.2%                 | 1,514  | 778             | 736              | 1.06              | 28                            | 3.7                | 2.8                | 3.4                | 3.7                 | 4.0                 |
| 13    | INTC   | INTEL CORP                               | А                      | 29               | 0.4%                 | 2,278  | 1,175           | 1,103            | 1.07              | 39                            | 3.3                | 3.4                | 3.5                | 4.0                 | 4.6                 |
| 14    | CVS    | CVS CAREMARK CORP                        | BBB                    | 41               | 1.0%                 | 6,187  | 3,231           | 2,956            | 1.09              | 87                            | 3.8                | 3.8                | 4.3                | 4.5                 | 5.1                 |
| 15    | TMUS   | T-MOBILE USA INC                         | BBB                    | 29               | 0.3%                 | 1,927  | 1,012           | 915              | 1.11              | 44                            | 4.8                | 4.5                | 4.6                | 4.8                 | 5.0                 |
| 16    | VZ     | VERIZON                                  | BBB                    | 126              | 1.4%                 | 8,773  | 4,678           | 4,095            | 1.14              | 122                           |                    | 3.5                | 4.0                | 4.3                 | 4.8                 |
| 17    | USB    | U S BANCORP MEDIUM TERM NTS- BOOK ENTRY  | А                      | 25               | 0.5%                 | 3,497  | 1,897           | 1,600            | 1.19              | 45                            | 3.2                | 3.6                | 3.9                | 4.2                 |                     |
| 18    | ВК     | BANK NEW YORK INC MEDIUM TERM SR NTS BOO | А                      | 49               | 0.6%                 | 3,531  | 1,958           | 1,573            | 1.24              | 63                            | 3.3                | 3.7                | 4.0                | 4.2                 |                     |
| 19    | WFC    | WELLS FARGO                              | А                      | 134              | 1.8%                 | 11,621 | 6,538           | 5,083            | 1.29              | 185                           | 3.6                | 3.9                | 4.3                | 5.4                 | 5.3                 |
| 20    | BRK    | BERKSHIRE HATHAWAY                       | AA                     | 145              | 0.8%                 | 5,225  | 2,964           | 2,261            | 1.31              | 105                           | 3.1                | 3.5                | 4.3                | 4.0                 | 4.8                 |
|       |        |  |                        |                  |                      |        |                 |                  |                   |                               |                    |                    |                    |                     |                     |

Source: TRACE and Tradeweb Direct

-Based on odd-lot customer transactions (<100M) reported in TRACE.

-The top 20 issuers are selected among top 100 most active issuers in odd-lot TRACE.

-Issuer ratings are based on median rating of traded bonds from each user. Bond ratings are from Moody's and S&P.



# **Corporate Bonds: Top 20 Most <u>Bought</u> Issues**

July 2022

| Index | Ticker | Company                                  | Maturity | Rating Key<br>(Med) | Coupon | Trades (Buy) | Trades (Sell) | Trades | Dollar Vol.<br>Traded<br>(MM) | Yield (Buy) | Yield (Sell) | Price (Buy) | Price (Sell) |
|-------|--------|--|----------|---------------------|--------|--------------|---------------|--------|-------------------------------|-------------|--------------|-------------|--------------|
| 1     | NOC    | NORTHROP GRUMMAN CORP                    | Jan-28   | BBB                 | 3.250  | 16,905       | 179           | 17,084 | 33                            | 3.8         | 4.1          | 97.1        | 95.8         |
| 2     | TGT    | TARGET CORP                              | Jan-27   | А                   | 1.950  | 3,693        | 40            | 3,733  | 12                            | 3.3         | 3.3          | 94.5        | 94.3         |
| 3     | BMO    | BANK MONTREAL MEDIUM TERM SR NTS BOOK EN | Mar-27   | А                   | 2.650  | 2,498        | 22            | 2,520  | 11                            | 4.2         | 4.1          | 93.4        | 94.1         |
| 4     | QCOM   | QUALCOMM                                 | May-32   | Α                   | 1.650  | 2,275        | 53            | 2,328  | 4                             | 3.8         | 3.8          | 82.7        | 82.4         |
| 5     | RY     | ROYAL BANK OF CANADA                     | Oct-23   | Α                   | 0.500  | 1,492        | 214           | 1,706  | 17                            | 2.9         | 3.2          | 97.0        | 96.7         |
| 6     | ICE    | IntercontinentalExchange Group Inc       | May-25   | А                   | 3.650  | 1,290        | 151           | 1,441  | 6                             | 3.7         | 3.7          | 100.0       | 99.8         |
| 7     | SO     | GEORGIA POWER CO                         | Jul-23   | BBB                 | 2.950  | 1,173        | 437           | 1,610  | 13                            | 3.4         | 3.6          | 99.6        | 99.4         |
| 8     | CE     | CELANESE US HLDGS LLC                    | Jul-24   | BBB                 | 5.900  | 1,122        | 37            | 1,159  | 28                            | 5.6         | 5.6          | 100.6       | 100.5        |
| 9     | BA     | BOEING CO                                | May-25   | BBB                 | 4.875  | 1,089        | 94            | 1,183  | 28                            | 4.8         | 4.9          | 100.2       | 100.0        |
| 10    | BA     | BOEING CO                                | May-23   | BBB                 | 4.508  | 1,072        | 122           | 1,194  | 25                            | 3.8         | 4.2          | 100.5       | 100.2        |
| 11    | NEE    | FPL GROUP CAP INC                        | Jun-25   | BBB                 | 4.450  | 1,069        | 24            | 1,093  | 6                             | 3.7         | 3.9          | 102.2       | 101.4        |
| 12    | FIS    | FIDELITY NATL INFORMATION SVCS INC       | Jul-25   | BBB                 | 4.500  | 1,025        | 17            | 1,042  | 5                             | 4.4         | 4.2          | 100.3       | 100.9        |
| 13    | JPM    | JP MORGAN CHASE                          | Jan-23   | Α                   | 3.200  | 1,019        | 110           | 1,129  | 11                            | 3.1         | 3.1          | 100.1       | 100.1        |
| 14    | AAPL   | APPLE INC                                | Nov-27   | AA                  | 3.000  | 1,011        | 294           | 1,305  | 9                             | 3.3         | 3.4          | 98.3        | 98.1         |
| 15    | WFC    | WELLS FARGO                              | Jul-27   | BBB                 | 4.300  | 917          | 282           | 1,199  | 14                            | 4.3         | 4.4          | 99.8        | 99.4         |
| 16    | COF    | CAPITAL ONE FINL CORP                    | Jan-24   | BBB                 | 3.900  | 883          | 86            | 969    | 15                            | 3.9         | 3.9          | 100.0       | 100.0        |
| 17    | FITB   | FIFTH THIRD BANCORP                      | Jan-24   | BBB                 | 3.650  | 880          | 213           | 1,093  | 15                            | 3.7         | 3.9          | 99.9        | 99.7         |
| 18    | BAC    | BANK OF AMERICA                          | Jul-49   | BBB                 | 6.125  | 867          | 70            | 937    | 26                            |             |              | 100.0       | 100.1        |
| 19    | UTX    | UNITED TECHNOLOGIES CORP                 | Aug-25   | BBB                 | 3.950  | 850          | 430           | 1,280  | 9                             | 3.6         | 3.7          | 101.1       | 100.8        |
| 20    | HPQ    | HEWLETT PACKARD                          | Oct-25   | BBB                 | 4.900  | 842          | 386           | 1,228  | 10                            | 4.2         | 4.2          | 102.1       | 101.9        |
|       |        |  |          |                     |        |              |               |        |                               |             |              |             |              |

Source: TRACE and Tradeweb Direct -Based on odd-lot customer transactions (<100M) reported in TRACE.

-Ratings (AAA, AA, A, BBB, BB, B, C) are based on aggregate ratings from Moody's and S&P (when available).



# **Corporate Bonds: Top 20 Most <u>Sold</u> Issues**

July 2022

| Index | Ticker | Company                                 | Maturity | Rating Key<br>(Med) | Coupon | Trades (Buy) | Trades (Sell) | Trades | Dollar Vol.<br>Traded<br>(MM) | Yield (Buy) | Yield (Sell) | Price (Buy) | Price (Sell) |
|-------|--------|---|----------|---------------------|--------|--------------|---------------|--------|-------------------------------|-------------|--------------|-------------|--------------|
| 1     | CVS    | CVS CAREMARK CORP                       | Mar-28   | BBB                 | 4.300  | 817          | 1,484         | 2,301  | 15                            | 4.3         | 4.3          | 100.0       | 99.8         |
| 2     | CMCS   | COMCAST                                 | Oct-28   | А                   | 4.150  | 571          | 1,156         | 1,727  | 13                            | 4.0         | 4.0          | 100.9       | 100.7        |
| 3     | AXP    | AMERICAN EXPRESS                        | Feb-24   | А                   | 3.400  | 299          | 1,128         | 1,427  | 11                            | 3.4         | 3.6          | 100.0       | 99.7         |
| 4     | DIS    | DISNEY WALT CO NEW MEDIUM TERM NTS BOOK | Jan-26   | А                   | 1.750  | 120          | 1,109         | 1,229  | 7                             | 3.6         | 3.7          | 93.9        | 93.6         |
| 5     | VZ     | VERIZON                                 | Mar-27   | BBB                 | 4.125  | 747          | 1,040         | 1,787  | 18                            | 4.0         | 4.0          | 100.6       | 100.4        |
| 6     | GS     | GOLDMAN SACHS                           | Mar-30   | А                   | 3.800  | 440          | 1,013         | 1,453  | 11                            | 4.7         | 4.8          | 94.1        | 93.6         |
| 7     | RDS    | SHELL                                   | Sep-26   | AA                  | 2.500  | 165          | 906           | 1,071  | 4                             | 3.6         | 3.7          | 95.9        | 95.4         |
| 8     | WFC    | WELLS FARGO                             | May-28   | А                   | 3.584  | 111          | 858           | 969    | 5                             |             |              | 95.3        | 95.2         |
| 9     | AMZN   | AMAZON COM INC                          | Jun-30   | AA                  | 1.500  | 272          | 807           | 1,079  | 5                             | 3.7         | 3.8          | 85.0        | 84.5         |
| 10    | JPM    | JP MORGAN CHASE                         | Dec-29   | А                   | 4.452  | 281          | 768           | 1,049  | 6                             |             |              | 98.6        | 98.0         |
| 11    | С      | CITIGROUP                               | Jan-28   | BBB                 | 3.887  | 203          | 764           | 967    | 5                             |             |              | 96.8        | 96.6         |
| 12    | MS     | MORGAN STANLEY                          | Jul-28   | А                   | 3.591  | 154          | 705           | 859    | 4                             |             |              | 95.6        | 95.3         |
| 13    | Т      | AT&T                                    | Dec-33   | BBB                 | 2.550  | 265          | 665           | 930    | 5                             | 4.5         | 4.6          | 83.0        | 82.2         |
| 14    | EDP    | ENTERPRISE PRODS OPER LLC               | Feb-42   | BBB                 | 5.700  | 320          | 476           | 796    | 3                             | 5.3         | 5.5          | 105.2       | 102.4        |
| 15    | TFC    | Null                                    | Jun-49   | BBB                 | 5.125  | 60           | 476           | 536    | 9                             | 6.0         | 6.2          | 85.0        | 83.1         |
| 16    | С      | CITIGROUP                               | Oct-23   | BBB                 | 3.875  | 642          | 468           | 1,110  | 7                             | 3.1         | 3.0          | 101.0       | 101.0        |
| 17    | С      | CITIGROUP                               | Jul-28   | BBB                 | 3.668  | 330          | 460           | 790    | 5                             |             |              | 95.2        | 95.1         |
| 18    | SBUX   | STARBUCKS CORP                          | Oct-23   | BBB                 | 3.850  | 91           | 445           | 536    | 5                             | 3.1         | 3.3          | 100.7       | 100.5        |
| 19    | SO     | GEORGIA POWER CO                        | Jul-23   | BBB                 | 2.950  | 1,173        | 437           | 1,610  | 13                            | 3.4         | 3.6          | 99.6        | 99.4         |
| 20    | UTX    | UNITED TECHNOLOGIES CORP                | Aug-25   | BBB                 | 3.950  | 850          | 430           | 1,280  | 9                             | 3.6         | 3.7          | 101.1       | 100.8        |

Source: TRACE and Tradeweb Direct

-Based on odd-lot customer transactions (<100M) reported in TRACE.

-Ratings (AAA, AA, A, BBB, BB, B, C) are based on aggregate ratings from Moody's and S&P (when available).



### Appendix

### **Maturity**

We consider the following maturity ranges for maturity buckets. TTM is Time to Maturity in years.

1Y: 0.5 <= TTM <= 1.5 3Y: 2 <= TTM <= 4 5Y: 4 < TTM <= 6 10Y: 7.5 <= TTM <= 12.5 20Y: 15 <= TTM <=25

### Rating

Rating buckets (AAA, AA, AA, BBB, HY) in yield matrix are based on agggregate ratings from Moody's and S&P (when available).

For Corporate, we only consider transactions in bonds that are rated by both rating agencies.
-Corporate AAA: Bonds rated AAA by both rating agencies.
-Corporate AA: Bonds rated A by both rating agencies.
-Corporate BBB: Bonds rated BBB by both rating agencies.
-Corporate High Yield: Bonds rated High Yield by both rating agencies.
(Transactions in corporate bonds that are rated as AA by one agency and as A by another agency are excluded.)

-Municipal AAA: Bonds rates AAA by both rating agencies, or AAA by one agency and not rated by another agency.
-Municipal AA: Bonds rated AA by both rating agencies, or AA by one agency and not rated by another agency.
-Municipal A: Bonds rated A by both rating agencies, or A by ones agency and not rated by another agency.
-Municipal BBB: Bonds rated High Yield by both rating agencies, or BBB by one agency and not rated by another agency.
-Municipal High Yield: Bonds rated High Yield by both rating agencies, or BBB by one agency and not rated by another agency.
-Municipal High Yield: Bonds rated High Yield by both rating agencies, or High Yield by one agency and not rated by another agency.
(Transactions in municipal bonds that are rated as AA by one agency and as A by another agency are excluded.)
(Transactions in municipal bonds that are rated as AA by one agency and <u>not rated</u> by the other agency are included.)



### **Disclosures**

This report represents certain customer trades in securities that have been reported by dealers to FINRA's Trade Reporting and Compliance Engine ("TRACE"), and the Municipal Securities Rulemaking Board ("MSRB"). The report does not necessarily reflect all transactions that were effected on dates noted. There is the possibility of errors or delays in the trade submission process. Prices for transactions vary with market conditions and can be affected by trade size and other factors. The information provided has been obtained from sources deemed to be reliable, however Tradeweb Direct does not guarantee the accuracy of the information contained in this report.

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