

# **Market Transparency Report**

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

**January 2019** 

### www.tradeweb.com

1177 Avenue of the Americas New York, NY 10036 212.852.1234

### 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**

#### Monthly Change Table for January 2019

	Median Yield (bps)	Daily Trade Volume	Buy/Sell Ratio
Agency	-16	5.6%	0.4
CD	-17	3.3%	2.8
Corp	-15	5.8%	0.4
Municipal	-16	-0.2%	0.2
Treasury	-2	10.8%	0.6

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



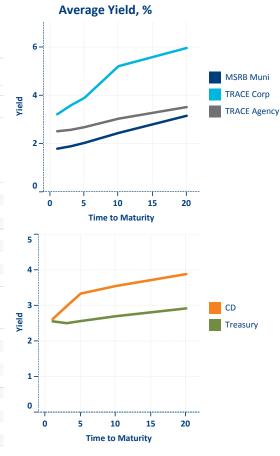
### **Yield Matrix**

#### Average Yield, % for January 2019

			TTM			Median
Market	1	3	5	10	20	Maturity (Years)
MSRB Muni	1.8	1.9	2.0	2.5	3.2	11
TRACE Corp	3.2	3.6	3.9	5.2	6.0	3
TRACE Agency	2.5	2.6	2.7	3.0	3.5	2
CD	2.6	3.0	3.4	3.6	3.9	1
Treasury	2.6	2.5	2.6	2.7	2.9	0

#### **Asset Class**

Market	Category (Filtered)	Rating Key	1	3	5	10	20	Median Maturity (Years)
		AA	2.7	2.9	3.3			2
	Financial	Α	2.9	3.2	3.5	3.9	4.6	3
	Financial	BBB	4.0	4.2	4.3	5.0	6.0	4
TRACE -		HY	3.4	4.3	4.5	8.8	7.3	4
Corp		AAA		2.3	2.8	3.3	3.9	2
согр		AA	2.7	2.9	3.7	3.6	4.1	1
	Non-Financial	A	2.7	3.0	3.1	3.9	4.4	3
		BBB	3.4	4.6	4.8	5.9	6.4	5
		HY	12.0	4.8	9.1	10.3	17.5	8
			1	2	-	10	20	Median
			1	3	5	10	20	Maturity (Years)
		AAA	1.7	1.8	1.9	2.3	3.1	9
		AA	1.7	1.8	2.0	2.4	3.2	10
	GO	A	1.8	2.0	2.3	2.7	3.3	8
		BBB	2.9	2.9	3.1	3.6	4.1	10
MSRB		HY	4.4	3.1	7.1	4.2	5.0	5
Muni		AAA	1.8	1.8	1.9	2.3	2.9	9
		AA	1.8	1.9	2.0	2.4	3.0	12
	Revenue	A	1.9	2.0	2.2	2.6	3.2	14
		BBB	2.3	2.6	2.7	3.2	3.9	17
		HY	4.2	5.8	5.3	5.7	6.0	12



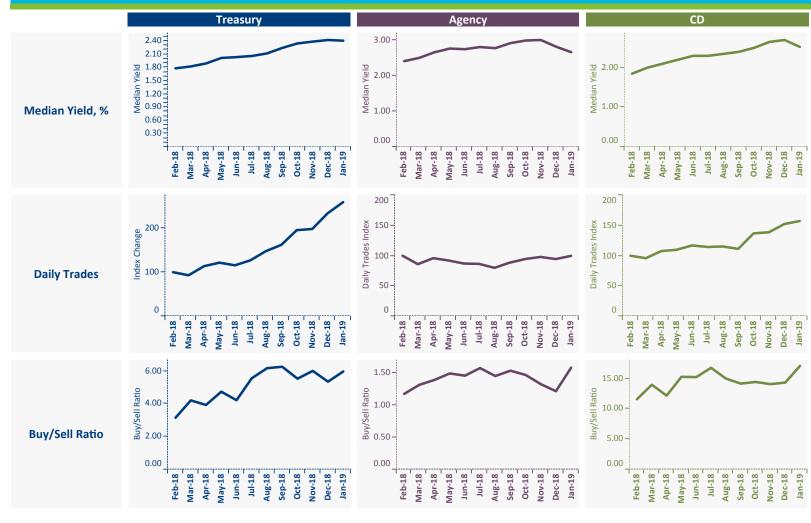
WA Yield = "Weighted Average Yield"

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 Transaction Trend Summary



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



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

<sup>-</sup>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



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

<sup>-</sup>Median yields and spreads are based on all odd-lot customer buy transactions...

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



Daily Trades: First month = 100

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



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

<sup>-</sup>Median yields and spreads are based on all odd-lot customer buy transactions.

<sup>-</sup>Spread for each transaction is calculated against the Treasury yield for the same maturity.

## Corporate Bonds: Top 20 Most Active Issuers

#### January 2019

Index	Ticker	Company	Rating Key (Med)	Issues Traded	% of Total Trades	Trades	Buy/Sell Ratio	Dollar Vol. Traded (MM)	1Y Yield (Buy)	3Y Yield (Buy)	5Y Yield (Buy)	10Y Yield (Buy)	20Y Yield (Buy)
1	GS	GOLDMAN SACHS	BBB	903	3.7%	20,403	2.1	413	3.1	3.6	4.0	4.6	5.1
2	JPM	JP MORGAN CHASE	A	516	3.3%	18,257	1.9	373	2.9	3.3	3.6	4.1	4.6
3	С	CITIGROUP	ВВВ	375	3.0%	16,607	1.6	337	2.9	3.4	3.7	4.4	4.9
4	GE	GENERAL ELEC CAP CORP MEDIUM TERM NTS BO	ВВВ	331	2.7%	15,089	1.9	270	3.4	4.3	5.0	6.2	6.1
5	BAC	BANK OF AMERICA	A	392	2.4%	13,401	1.8	267	3.0	3.4	3.8	4.3	4.7
6	WFC	WELLS FARGO	A	214	2.0%	11,107	2.0	234	2.9	3.3	3.8	4.1	4.7
7	Т	AT&T	ВВВ	99	1.8%	9,995	1.5	189	3.1	3.4	3.8	4.4	5.3
8	MS	MORGAN STANLEY	ВВВ	719	1.7%	9,607	1.7	208	3.0	3.4	3.8	4.4	4.7
9	GM	GENERAL MOTORS FINANCIAL COMPANY INC	ВВВ	98	1.6%	8,921	4.1	189	3.3	4.1	4.8	5.5	6.5
10	AAPL	APPLE INC	AA	56	1.3%	7,441	1.3	141	2.5	2.8	3.1	3.6	4.0
11	BRK	BERKSHIRE HATHAWAY	A	163	1.2%	6,755	1.5	153	2.9	3.0	3.2	4.4	5.3
12	F	FORD	ВВВ	242	1.2%	6,518	3.9	133	3.5	4.8	5.5	6.4	6.8
13	BUD	ANHEUSER BUSCH INBEV WORLDWIDE INC	ВВВ	48	1.1%	6,018	2.5	123	3.1	3.3	3.7	4.3	5.1
14	CVS	CVS CAREMARK CORP	ВВВ	43	0.9%	5,209	1.6	111	3.1	3.4	3.7	4.3	5.0
15	AXP	AMERICAN EXPRESS	ВВВ	39	0.9%	4,907	1.9	106	2.9	3.2	3.6	3.5	4.3
16	VZ	VERIZON	BBB	121	0.9%	4,802	1.1	94	2.8	3.1	3.5	4.0	4.6
17	PCG	PACIFIC GAS & ELEC CO	С	29	0.8%	4,468	0.3	74		9.4	7.9	6.7	7.2
18	CMCS	COMCAST	A	63	0.8%	4,440	1.4	90	2.9	3.1	3.4	3.8	4.4
19	MSFT	MICROSOFT CORP	AAA	39	0.8%	4,420	1.3	92	2.6	2.7	2.8	3.3	3.8
20	ORCL	ORACLE CORP	AA	31	0.8%	4,252	1.2	76	2.5	2.9	3.2	3.6	4.1



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

<sup>-</sup>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 Highest Buy/Sell Ratio

#### January 2019

ARCC   ARES CAP CORP   B8B   5   0.2%   1,378   1,301   77   16.9   9   3.4   3.6   4.7	Index	Ticker	Company	Rating Key (Med)	Issues Traded	% of Total Trades	Trades	Trades (Buy)	Trades (Sell)	Buy/Sell Ratio	Dollar Vol. Traded (MM)	1Y Yield (Buy)	3Y Yield (Buy)	5Y Yield (Buy)	10Y Yield (Buy)	20Y Yield (Buy)
3   X	1	ARCC	ARES CAP CORP	BBB	5	0.2%	1,378	1,301	77	16.9	9	3.4	3.6	4.7		
MO ALTRIA GROUP INC   BBB   15   0.4%   2,394   1,988   406   4.9   52   3.0   3.6   4.1   4.5   5.7	2	MYL	MYLAN INC	BBB	10	0.2%	1,374	1,293	81	16.0	25		4.1	4.7	5.3	6.3
5         BTI         BAT INTERNATIONAL FINANCE PLC         BBB         31         0.3%         1,406         1,136         270         4.2         34         3.4         4.2         4.3         5.2         6.1           6         GM         GENERAL MOTORS FINANCIAL COMPANY INC         BBB         98         1.6%         8,921         7,158         1,763         4.1         189         3.3         4.1         4.8         5.5         6.5           7         F         FORD         BBB         242         1.2%         6,518         5,189         1,329         3.9         133         3.5         4.8         5.5         6.4         6.8           8         MAR         MARRIOTI INTLINC NEW         BBB         22         0.2%         1,300         1,008         292         3.5         24         5.7         3.4         3.8         4.4         5.1           9         D         DOMINION RES INC VA NEW         BBB         59         0.4%         2,061         1,562         499         3.1         36         3.1         3.5         3.7         3.7         4.5           10         HMC         AMERICAN HONDA FIN CORP MED TERM NTS BOO         A         30         0.2% </td <td>3</td> <td>Х</td> <td>UNITED STS STL CORP NEW</td> <td>В</td> <td>3</td> <td>0.2%</td> <td>1,307</td> <td>1,175</td> <td>132</td> <td>8.9</td> <td>17</td> <td></td> <td></td> <td></td> <td></td> <td>8.9</td>	3	Х	UNITED STS STL CORP NEW	В	3	0.2%	1,307	1,175	132	8.9	17					8.9
6 GM GENERAL MOTORS FINANCIAL COMPANY INC BBB 98 1.6% 8,921 7,158 1,763 4.1 189 3.3 4.1 4.8 5.5 6.5  7 F FORD BBB 242 1.2% 6,518 5,189 1,329 3.9 133 3.5 4.8 5.5 6.4 6.8  8 MAR MARRIOTT INTL INC NEW BBB 22 0.2% 1,300 1,008 292 3.5 24 5.7 3.4 3.8 4.4 5.1  9 D DOMINION RES INC VA NEW BBB 59 0.4% 2,061 1,562 499 3.1 36 3.1 3.5 3.7 3.7 4.5  10 HMC AMERICAN HONDA FIN CORP MED TERM NTS BOO A 30 0.2% 1,293 973 320 3.0 26 2.8 3.0 3.4 3.6  11 ABBV ABBVIE INC BBB 16 0.5% 2,654 1,996 658 3.0 56 3.1 3.3 3.6 4.4 5.1  12 SO GEORGIA POWER CO BBB 66 0.4% 2,305 1,729 576 3.0 48 3.0 3.4 3.5 4.1 5.2  13 EIX EDISON MISSION BBB 29 0.4% 2,063 1,537 526 2.9 41 4.3 3.7 3.7 5.5 4.9  14 TWX TIME WARNER BBB 26 0.3% 1,619 1,203 416 2.9 32 3.4 3.9 4.3 5.3  15 PSEC PROSPECT CAP CORP INTERNOTES BOOK ENTRY BBB 188 0.2% 1,340 987 353 2.8 21 4.1 5.2 5.5 6.5 7.1  16 PRU PRUDENTIAL A 4 1 0.3% 1,824 1,331 969 362 2.7 20 5.5 5.5 6.7 7.0  18 COF CAPITAL ONE FINL CORP BBB 32 0.6% 3,418 2,472 946 2.6 68 3.1 3.6 3.8 4.6  19 M MACYS RETAIL HLDGS INC BBB 20 0.3% 1,582 1,136 446 2.6 32 4.2 5.3 6.1 6.7	4	МО	ALTRIA GROUP INC	BBB	15	0.4%	2,394	1,988	406	4.9	52	3.0	3.6	4.1	4.5	5.7
F FORD BBB 242 1.2% 6,518 5,189 1,329 3.9 133 3.5 4.8 5.5 6.4 6.8  MAR MARRIOTT INTL INC NEW BBB 22 0.2% 1,300 1,008 292 3.5 24 5.7 3.4 3.8 4.4 5.1  D D DOMINION RES INC VA NEW BBB 59 0.4% 2,061 1,562 499 3.1 36 3.1 3.5 3.7 3.7 4.5  MMC AMERICAN HONDA FIN CORP MED TERM NTS BOO A 30 0.2% 1,293 973 320 3.0 26 2.8 3.0 3.4 3.6  MBB 16 0.5% 2,654 1,996 658 3.0 56 3.1 3.3 3.6 4.4 5.1  SO GEORGIA POWER CO BBB 66 0.4% 2,305 1,729 576 3.0 48 3.0 3.4 3.5 4.1 5.2  MELL SDISON MISSION BBB 29 0.4% 2,063 1,537 526 2.9 41 4.3 3.7 3.7 5.5 4.9  MELL SDISON MISSION BBB 26 0.3% 1,619 1,203 416 2.9 32 3.4 3.9 4.3 5.3  SEX EDISON MISSION BBB 188 0.2% 1,340 987 353 2.8 21 4.1 5.2 5.5 6.5 7.1  MUR PRUDENTIAL A 41 0.3% 1,824 1,334 490 2.7 35 3.0 3.2 3.3 3.7 4.8  MAR MARRIOTT INTL INC NEW BBB 18 0.2% 1,331 969 362 2.7 20 5.5 5.5 6.7 7.0  MM MACYS RETAIL HLDGS INC BBB 20 0.3% 1,582 1,136 446 2.6 32 4.2 5.3 6.1 6.7	5	BTI	BAT INTERNATIONAL FINANCE PLC	BBB	31	0.3%	1,406	1,136	270	4.2	34	3.4	4.2	4.3	5.2	6.1
8         MAR         MARRIOTT INTLINC NEW         BBB         22         0.2%         1,300         1,008         292         3.5         24         5.7         3.4         3.8         4.4         5.1           9         D         DOMINION RES INC VA NEW         BBB         59         0.4%         2,061         1,562         499         3.1         36         3.1         3.5         3.7         3.7         4.5           10         HMC         AMERICAN HONDA FIN CORP MED TERM NTS BOO         A         30         0.2%         1,293         973         320         3.0         26         2.8         3.0         3.4         3.6           11         ABBV ABBVIE INC         BBB         16         0.5%         2,654         1,996         658         3.0         56         3.1         3.3         3.6         4.4         5.1           12         SO         GEORGIA POWER CO         BBB         66         0.4%         2,305         1,729         576         3.0         48         3.0         3.4         3.5         4.1         5.2           13         EIX         EDISON MISSION         BBB         29         0.4%         2,063         1,537         526	6	GM	GENERAL MOTORS FINANCIAL COMPANY INC	BBB	98	1.6%	8,921	7,158	1,763	4.1	189	3.3	4.1	4.8	5.5	6.5
D DOMINION RES INC VA NEW BBB 59 0.4% 2,061 1,562 499 3.1 36 3.1 3.5 3.7 3.7 4.5  10 HMC AMERICAN HONDA FIN CORP MED TERM NTS BOO A 30 0.2% 1,293 973 320 3.0 26 2.8 3.0 3.4 3.6  11 ABBV ABBVIE INC BBB 16 0.5% 2,654 1,996 658 3.0 56 3.1 3.3 3.6 4.4 5.1  12 SO GEORGIA POWER CO BBB 66 0.4% 2,305 1,729 576 3.0 48 3.0 3.4 3.5 4.1 5.2  13 EIX EDISON MISSION BBB 29 0.4% 2,063 1,537 526 2.9 41 4.3 3.7 3.7 5.5 4.9  14 TWX TIME WARNER BBB 26 0.3% 1,619 1,203 416 2.9 32 3.4 3.9 4.3 5.3  15 PSEC PROSPECT CAP CORP INTERNOTES BOOK ENTRY BBB 188 0.2% 1,340 987 353 2.8 21 4.1 5.2 5.5 6.5 7.1  16 PRU PRUDENTIAL A 41 0.3% 1,824 1,334 490 2.7 35 3.0 3.2 3.3 3.7 4.8  17 MUR MURPHY OIL CORP BB 8 8 0.2% 1,331 969 362 2.7 20 5.5 5.5 6.7 7.0  18 COF CAPITAL ONE FINL CORP BBB 32 0.6% 3,418 2,472 946 2.6 68 3.1 3.6 3.8 4.6  19 M MACYS RETAIL HLDGS INC BBB 20 0.3% 1,582 1,136 446 2.6 32 4.2 5.3 6.1 6.7	7	F	FORD	BBB	242	1.2%	6,518	5,189	1,329	3.9	133	3.5	4.8	5.5	6.4	6.8
10         HMC         AMERICAN HONDA FIN CORP MED TERM NTS BOO         A         30         0.2%         1,293         973         320         3.0         26         2.8         3.0         3.4         3.6           11         ABBV         ABBVIE INC         BBB         16         0.5%         2,654         1,996         658         3.0         56         3.1         3.3         3.6         4.4         5.1           12         SO         GEORGIA POWER CO         BBB         66         0.4%         2,305         1,729         576         3.0         48         3.0         3.4         3.5         4.1         5.2           13         EIX         EDISON MISSION         BBB         29         0.4%         2,063         1,537         526         2.9         41         4.3         3.7         3.7         5.5         4.9           14         TWX         TIME WARNER         BBB         26         0.3%         1,619         1,203         416         2.9         32         3.4         3.9         4.3         5.3           15         PSEC         PROSPECT CAP CORP INTERNOTES BOOK ENTRY         BBB         188         0.2%         1,340         987         3	8	MAR	MARRIOTT INTL INC NEW	BBB	22	0.2%	1,300	1,008	292	3.5	24	5.7	3.4	3.8	4.4	5.1
11         ABBV         ABBVIE INC         BBB         16         0.5%         2,654         1,996         658         3.0         56         3.1         3.3         3.6         4.4         5.1           12         SO         GEORGIA POWER CO         BBB         66         0.4%         2,305         1,729         576         3.0         48         3.0         3.4         3.5         4.1         5.2           13         EIX         EDISON MISSION         BBB         29         0.4%         2,063         1,537         526         2.9         41         4.3         3.7         3.7         5.5         4.9           14         TWX         TIME WARNER         BBB         26         0.3%         1,619         1,203         416         2.9         32         3.4         3.9         4.3         5.3           15         PSEC         PROSPECT CAP CORP INTERNOTES BOOK ENTRY         BBB         188         0.2%         1,340         987         353         2.8         21         4.1         5.2         5.5         6.5         7.1           16         PRU         PRUDENTIAL         A         41         0.3%         1,824         1,334         490	9	D	DOMINION RES INC VA NEW	BBB	59	0.4%	2,061	1,562	499	3.1	36	3.1	3.5	3.7	3.7	4.5
12 SO GEORGIA POWER CO  BBB 66 0.4% 2,305 1,729 576 3.0 48 3.0 3.4 3.5 4.1 5.2  13 EIX EDISON MISSION  BBB 29 0.4% 2,063 1,537 526 2.9 41 4.3 3.7 3.7 5.5 4.9  14 TWX TIME WARNER  BBB 26 0.3% 1,619 1,203 416 2.9 32 3.4 3.9 4.3 5.3  15 PSEC PROSPECT CAP CORP INTERNOTES BOOK ENTRY  BBB 188 0.2% 1,340 987 353 2.8 21 4.1 5.2 5.5 6.5 7.1  16 PRU PRUDENTIAL  A 41 0.3% 1,824 1,334 490 2.7 35 3.0 3.2 3.3 3.7 4.8  17 MUR MURPHY OIL CORP  BB 8 0.2% 1,331 969 362 2.7 20 5.5 5.5 6.7 7.0  18 COF CAPITAL ONE FINL CORP  BBB 32 0.6% 3,418 2,472 946 2.6 68 3.1 3.6 3.8 4.6  19 M MACYS RETAIL HLDGS INC  BBB 20 0.3% 1,582 1,136 446 2.6 32 4.2 5.3 6.1 6.7	10	HMC	AMERICAN HONDA FIN CORP MED TERM NTS BOO	Α	30	0.2%	1,293	973	320	3.0	26	2.8	3.0	3.4	3.6	
13         EIX         EDISON MISSION         BBB         29         0.4%         2,063         1,537         526         2.9         41         4.3         3.7         3.7         5.5         4.9           14         TWX         TIME WARNER         BBB         26         0.3%         1,619         1,203         416         2.9         32         3.4         3.9         4.3         5.3           15         PSEC         PROSPECT CAP CORP INTERNOTES BOOK ENTRY         BBB         188         0.2%         1,340         987         353         2.8         21         4.1         5.2         5.5         6.5         7.1           16         PRU         PRUDENTIAL         A         41         0.3%         1,824         1,334         490         2.7         35         3.0         3.2         3.3         3.7         4.8           17         MUR         MURPHY OIL CORP         BB         8         0.2%         1,331         969         362         2.7         20         5.5         5.5         6.7         7.0           18         COF         CAPITAL ONE FINL CORP         BBB         32         0.6%         3,418         2,472         946         2.	11	ABBV	ABBVIE INC	BBB	16	0.5%	2,654	1,996	658	3.0	56	3.1	3.3	3.6	4.4	5.1
14         TWX         TIME WARNER         BBB         26         0.3%         1,619         1,203         416         2.9         32         3.4         3.9         4.3         5.3           15         PSEC         PROSPECT CAP CORP INTERNOTES BOOK ENTRY         BBB         188         0.2%         1,340         987         353         2.8         21         4.1         5.2         5.5         6.5         7.1           16         PRU         PRUDENTIAL         A         41         0.3%         1,824         1,334         490         2.7         35         3.0         3.2         3.3         3.7         4.8           17         MUR         MURPHY OIL CORP         BB         8         0.2%         1,331         969         362         2.7         20         5.5         5.5         6.7         7.0           18         COF         CAPITAL ONE FINL CORP         BBB         32         0.6%         3,418         2,472         946         2.6         68         3.1         3.6         3.8         4.6           19         M         MACYS RETAIL HLDGS INC         BBB         20         0.3%         1,582         1,136         446         2.6	12	so	GEORGIA POWER CO	BBB	66	0.4%	2,305	1,729	576	3.0	48	3.0	3.4	3.5	4.1	5.2
15         PSEC         PROSPECT CAP CORP INTERNOTES BOOK ENTRY         BBB         188         0.2%         1,340         987         353         2.8         21         4.1         5.2         5.5         6.5         7.1           16         PRU         PRUDENTIAL         A         41         0.3%         1,824         1,334         490         2.7         35         3.0         3.2         3.3         3.7         4.8           17         MUR         MURPHY OIL CORP         BB         8         0.2%         1,331         969         362         2.7         20         5.5         5.5         6.7         7.0           18         COF         CAPITAL ONE FINL CORP         BBB         32         0.6%         3,418         2,472         946         2.6         68         3.1         3.6         3.8         4.6           19         M         MACYS RETAIL HLDGS INC         BBB         20         0.3%         1,582         1,136         446         2.6         32         4.2         5.3         6.1         6.7	13	EIX	EDISON MISSION	BBB	29	0.4%	2,063	1,537	526	2.9	41	4.3	3.7	3.7	5.5	4.9
16         PRU         PRUDENTIAL         A         41         0.3%         1,824         1,334         490         2.7         35         3.0         3.2         3.3         3.7         4.8           17         MUR         MURPHY OIL CORP         BB         8         0.2%         1,331         969         362         2.7         20         5.5         5.5         6.7         7.0           18         COF         CAPITAL ONE FINL CORP         BBB         32         0.6%         3,418         2,472         946         2.6         68         3.1         3.6         3.8         4.6           19         M         MACYS RETAIL HLDGS INC         BBB         20         0.3%         1,582         1,136         446         2.6         32         4.2         5.3         6.1         6.7	14	TWX	TIME WARNER	BBB	26	0.3%	1,619	1,203	416	2.9	32		3.4	3.9	4.3	5.3
17         MUR         MURPHY OIL CORP         BB         8         0.2%         1,331         969         362         2.7         20         5.5         5.5         6.7         7.0           18         COF         CAPITAL ONE FINL CORP         BBB         32         0.6%         3,418         2,472         946         2.6         68         3.1         3.6         3.8         4.6           19         M         MACYS RETAIL HLDGS INC         BBB         20         0.3%         1,582         1,136         446         2.6         32         4.2         5.3         6.1         6.7	15	PSEC	PROSPECT CAP CORP INTERNOTES BOOK ENTRY	BBB	188	0.2%	1,340	987	353	2.8	21	4.1	5.2	5.5	6.5	7.1
18         COF         CAPITAL ONE FINL CORP         BBB         32         0.6%         3,418         2,472         946         2.6         68         3.1         3.6         3.8         4.6           19         M         MACYS RETAIL HLDGS INC         BBB         20         0.3%         1,582         1,136         446         2.6         32         4.2         5.3         6.1         6.7	16	PRU	PRUDENTIAL	Α	41	0.3%	1,824	1,334	490	2.7	35	3.0	3.2	3.3	3.7	4.8
19 M MACYS RETAIL HLDGS INC BBB 20 0.3% 1,582 1,136 446 2.6 32 4.2 5.3 6.1 6.7	17	MUR	MURPHY OIL CORP	ВВ	8	0.2%	1,331	969	362	2.7	20		5.5	5.5	6.7	7.0
	18	COF	CAPITAL ONE FINL CORP	BBB	32	0.6%	3,418	2,472	946	2.6	68	3.1	3.6	3.8	4.6	
	19	M	MACYS RETAIL HLDGS INC	BBB	20	0.3%	1,582	1,136	446	2.6	32		4.2	5.3	6.1	6.7
20 LUK JEFFERIES GROUP INC NEW BBB 35 0.3% 1,539 1,098 441 2.5 29 3.0 4.1 4.9 5.5 6.5	20	LUK	JEFFERIES GROUP INC NEW	BBB	35	0.3%	1,539	1,098	441	2.5	29	3.0	4.1	4.9	5.5	6.5



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

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

<sup>-</sup>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

#### January 2019

Index	Ticker	Company	Rating Key (Med)	Issues Traded	% of Total Trades	Trades	Trades (Buy)	Trades (Sell)	Buy/Sell Ratio	Dollar Vol. Traded (MM)	1Y Yield (Sell)	3Y Yield (Sell)	5Y Yield (Sell)	10Y Yield (Sell)	20Y Yield (Sell)
1	ASCMA	Null	С	1	0.3%	1,411	182	1,229	0.15	5	168.3				
2	PCG	PACIFIC GAS & ELEC CO	С	29	0.8%	4,468	928	3,540	0.26	74		12.1	8.4	7.1	7.6
3	PTRB	PETROBRAS	ВВ	23	0.6%	3,236	1,429	1,807	0.79	115		4.2	5.1	6.2	6.9
4	EDP	ENTERPRISE PRODS OPER LLC	BBB	34	0.3%	1,512	725	787	0.92	27	3.2	3.3	3.6	4.1	5.1
5	VALEF	Null	BBB	8	0.2%	1,272	608	664	0.92	42		4.8		5.4	6.1
6	FTR	FRONTIER COMMUNICATIONS CORP	С	24	0.2%	1,379	678	701	0.97	20	18.3	23.6	23.5	9.0	17.3
7	HD	HOME DEPOT	Α	26	0.4%	2,224	1,106	1,118	0.99	39	2.8	2.9	3.0	3.4	4.2
8	USB	U S BANCORP MEDIUM TERM NTS- BOOK ENTRY	Α	31	0.4%	2,157	1,079	1,078	1.00	40	3.0	3.2	3.6	3.6	
9	НВС	HSBC	N/R	397	0.5%	2,588	1,312	1,276	1.03	64	3.2	3.5	4.3	5.0	4.8
10	csco	CISCO	AA	20	0.5%	2,560	1,320	1,240	1.06	44	2.8	2.9	3.1	3.4	4.2
11	VZ	VERIZON	BBB	121	0.9%	4,802	2,479	2,323	1.07	94	3.0	3.2	3.5	4.0	4.7
12	GILD	GILEAD SCIENCES INC	Α	22	0.3%	1,930	1,007	923	1.09	33	3.1	3.1	3.6	3.8	4.6
13	PEP	PEPSICO	Α	37	0.3%	1,738	910	828	1.10	40	2.8	2.9	3.0	3.5	4.1
14	KMI	KINDER MORGAN ENERGY PARTNERS L P	BBB	65	0.4%	1,982	1,062	920	1.15	41	3.4	3.8	4.1	5.0	5.5
15	ORCL	ORACLE CORP	AA	31	0.8%	4,252	2,273	1,979	1.15	76	2.8	3.0	3.3	3.6	4.2
16	BBT	BB&T CORP SR MEDIUM TERM NTS BOOK ENTRY	Α	26	0.3%	1,414	760	654	1.16	30	3.1	3.2	3.5	3.9	
17	BCS	BARCLAYS	Α	425	0.4%	1,981	1,066	915	1.17	46	3.1	3.8	4.1	4.5	4.5
18	RDS	SHELL	AA	28	0.4%	1,963	1,057	906	1.17	40	2.9	3.1	3.2	3.5	4.2
19	CTL	CENTURYLINK	В	34	0.5%	2,656	1,437	1,219	1.18	54	5.3	5.8	6.8	8.6	9.7
20	DELL	DELL	ВВ	10	0.2%	1,266	686	580	1.18	26	4.3	4.3	5.3	6.3	7.2



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

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

<sup>-</sup>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 Bought Issues

#### January 2019

Index	Ticker	Company	Maturity	Rating Key (Med)	Coupon	Trades (Buy)	Trades (Sell)	Trades	Dollar Vol. Traded (MM)	Yield (Buy)	Yield (Sell)	Price (Buy)	Price (Sell)
1	GE	GENERAL ELEC CAP CORP MEDIUM TERM NTS BO	Null	BBB	5.000	1,376	753	2,129	26	6.0	6.0	83.5	83.1
2	ARCC	ARES CAP CORP	Feb-22	BBB	3.750	1,097	15	1,112	4	3.6	3.7	100.3	100.0
3	JPM	JP MORGAN CHASE	Jan-20	Α	2.250	956	211	1,167	27	2.9	3.1	99.4	99.2
4	С	CITIGROUP	Oct-23	BBB	3.875	823	81	904	14	3.7	3.7	100.9	100.6
5	Х	UNITED STS STL CORP NEW	Jun-37	В	6.650	769	57	826	6	8.9	8.6	79.8	82.0
6	F	FORD	Dec-26	BBB	4.346	734	146	880	18	6.2	6.2	88.7	88.4
7	JPM	JP MORGAN CHASE	Null	BBB	0.000	733	227	960	11	6.0	6.0	100.4	99.9
8	F	FORD	Jul-31	BBB	7.450	729	117	846	20	7.2	7.3	102.4	101.3
9	GS	GOLDMAN SACHS	Dec-19	BBB	2.300	724	61	785	19	3.0	3.2	99.4	99.2
10	MS	MORGAN STANLEY	Jan-20	BBB	2.650	716	61	777	19	3.0	3.3	99.7	99.4
11	GS	GOLDMAN SACHS	Oct-19	BBB	2.550	657	144	801	19	2.9	3.1	99.7	99.6
12	GM	GENERAL MOTORS FINANCIAL COMPANY INC	Null	ВВ	5.750	653	139	792	11	6.7	7.0	85.6	83.0
13	МО	ALTRIA GROUP INC	Jan-24	BBB	4.000	645	76	721	16	4.1	4.3	99.7	98.8
14	AKS	AK STL CORP	Jul-23	В	7.500	626	22	648	6	7.1	7.0	100.9	101.2
15	GS	GOLDMAN SACHS	Null	ВВ	4.000	586	96	682	10	5.4	5.5	74.3	73.1
16	BAC	BANK OF AMERICA	Aug-24	BBB	4.200	572	167	739	14	4.1	4.1	100.7	100.6
17	GS	GOLDMAN SACHS	Jan-23	BBB	3.625	572	154	726	15	3.7	3.9	99.7	98.8
18	FLR	FLUOR CORP NEW	Dec-24	BBB	3.500	571	17	588	11	3.9	4.0	97.8	97.4
19	BAC	BANK OF AMERICA	Jan-23	A	3.300	567	198	765	15	3.5	3.6	99.3	98.9
20	JPM	JP MORGAN CHASE	Dec-26	BBB	4.125	564	85	649	11	4.2	4.3	99.5	99.1



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

<sup>-</sup>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 Sold Issues

#### January 2019

Inde	x Ticker	Company	Maturity	Rating Key (Med)	Coupon	Trades (Buy)	Trades (Sell)	Trades	Dollar Vol. Traded (MM)	Yield (Buy)	Yield (Sell)	Price (Buy)	Price (Sell)
1	ASCMA	Null	Apr-20	С	9.125	182	1,229	1,411	5	164.7	168.3	27.8	27.0
2	PCG	PACIFIC GAS & ELEC CO	Oct-20	С	3.500	263	835	1,098	18	9.8	15.6	90.1	82.6
3	BRK	BERKSHIRE HATHAWAY	Jun-22	BBB	3.500	149	770	919	16	3.5	3.7	99.9	99.4
4	GE	GENERAL ELEC CAP CORP MEDIUM TERM NTS BO	Null	BBB	5.000	1,376	753	2,129	26	6.0	6.0	83.5	83.1
5	С	CITIGROUP	Feb-20	BBB	2.400	240	741	981	20	3.0	3.0	99.4	99.3
6	Т	AT&T	Feb-22	BBB	3.000	399	657	1,056	9	3.4	3.4	98.7	98.8
7	BUD	ANHEUSER BUSCH INBEV WORLDWIDE INC	Feb-23	BBB	3.300	330	608	938	20	3.6	3.6	98.9	98.7
8	PCG	PACIFIC GAS & ELEC CO	Jun-25	С	3.500	54	556	610	6	6.3	6.9	85.4	82.4
9	JPM	JP MORGAN CHASE	Oct-26	Α	2.950	318	551	869	6	3.9	3.9	93.4	93.5
10	AAPL	APPLE INC	Feb-26	AA	3.250	291	499	790	7	3.4	3.4	98.8	99.1
11	VZ	VERIZON	Nov-24	BBB	3.500	323	479	802	8	3.5	3.5	100.0	99.9
12	GILD	GILEAD SCIENCES INC	Feb-25	Α	3.500	315	464	779	6	3.7	3.7	99.2	99.1
13	PCG	PACIFIC GAS & ELEC CO	Nov-23	С	3.850	74	461	535	10	8.0	8.4	83.5	82.2
14	VZ	VERIZON	Sep-23	BBB	5.150	285	456	741	17	3.4	3.4	107.3	107.4
15	CVS	CVS CAREMARK CORP	Mar-20	BBB	3.125	380	435	815	16	3.1	3.4	100.0	99.7
16	AAPL	APPLE INC	May-23	AA	2.400	345	428	773	17	3.1	3.1	97.4	97.2
17	ORCL	ORACLE CORP	Nov-27	AA	3.250	290	426	716	6	3.6	3.6	97.3	97.3
18	HD	HOME DEPOT	Sep-26	Α	2.125	253	418	671	3	3.4	3.4	91.3	91.3
19	BAC	BANK OF AMERICA	Jul-23	Α	2.816	166	398	564	3			97.3	97.4
20	csco	CISCO	Sep-26	AA	2.500	182	368	550	2	3.4	3.4	94.0	94.0



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

<sup>-</sup>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, A, 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 AA by both rating agencies.
- -Corporate A: 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 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 not rated 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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