

Market Transparency Report

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

April 2024

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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

	Median Yield (bps)	Daily Trade Volume	Buy/Sell Ratio
Agency	16	13.3%	0.6
CD	2	-2.8%	-0.4
Corp	28	-5.4%	-0.2
Municipal	29	15.6%	0.0
Treasury	2	18.0%	0.0

Monthly Change Table for April 2024

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



Yield Matrix

Average \	Yield, % for April 20	24							Average Yield, %
					TTM			Median	
Market			1	3	5	10	20	Maturity (Years)	
MSRB Muni			3.6	3.3	3.2	3.3	4.0	8	
TRACE Corp			5.5	5.3	5.4	5.4	5.6	3	5-
TRACE Agen	су		5.1	4.8	4.6	4.7	5.1	4	MSRB Muni
CD			5.2	5.0	4.9	4.7	4.9	1	TRACE Corp
Treasury			5.2	4.8	4.6	4.5	4.8	0	TRACE COLD
Asset Cla	SS								4
								Median	
Market	Category (Filtered)	Rating Key	1	3	5	10	20	Maturity	
								(Years)	
		AA	4.4	5.0	5.1		5.5	5	
	Financial	A	5.3	5.1	5.0	5.2	5.5	3	0 5 10 15 20
	Financial	BBB	5.7	5.5	5.9	5.6	6.2	3	Time to Maturity
TRACE -		HY		7.3	8.2	8.7		4	Time to Maturity
	Non-Financial	AAA			4.6		4.9	16	
Corp		AA		4.9	4.6	4.7	5.2	16	5.2-
		A	4.9	5.0	5.0	5.1	5.6	4	5.2
		BBB	5.6	5.3	5.3	5.5	6.4	4	
		HY	7.9	7.0	16.5			4	
								Median	5.0 -
			1	3	5	10	20	Maturity (Years)	CD Treasury
		AAA	3.5	3.2	3.1	3.2	3.9	6	4.8
		AA	3.6	3.3	3.2	3.3	3.9	7	4.0
	GO	A	3.8	3.5	3.4	3.5	4.1	6	
		BBB	4.3	3.8	4.1	4.2	4.6	8	
MSRB		HY		5.1	7.0	6.8	5.4	19	4.6
Muni		AAA	3.6	3.3	3.2	3.3	3.9	8	
		AA	3.6	3.3	3.2	3.3	3.9	8	
	Revenue	А	3.8	3.6	3.4	3.5	4.1	9	······································
		BBB	4.2	4.2	4.2	4.3	4.8	13	0 5 10 15 20
		HY	18.8	7.1	6.7	7.0	5.4	14	Time to Maturity

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 5.80-5.40-5.40-**Median Yield** 5.60 Median Yield Median Yield 5.30· 5.20 5.40 Median Yield, % 5.20 5.20 5.00-Apr-24 May-23 Jun-23 Jul-23 Aug-23 Sep-23 Oct-23 Nov-23 Dec-23 Jan-24 Feb-24 Mar-24 Apr-24 May-23 Jun-23 Jul-23 Aug-23 Sep-23 Oct-23 Nov-23 Dec-23 Jan-24 Feb-24 Mar-24 May-23 Jun-23 Jul-23 Aug-23 Sep-23 Oct-23 Nov-23 Dec-23 Jan-24 Feb-24 Mar-24 Apr-24 100 150 Daily Trades Index Daily Trades Index 100 change 50 100 50 **Daily Trades** 50 -50 0 0 0 May-23 Jun-23 Jul-23 Aug-23 Sep-23 Oct-23 Nov-23 Dec-23 Jan-24 Feb-24 Mar-24 Apr-24 May-23 Jun-23 Jul-23 Aug-23 Sep-23 Oct-23 Nov-23 Dec-23 Jan-24 Feb-24 Mar-24 Apr-24 May-23 Jun-23 Jul-23 Aug-23 Sep-23 Oct-23 Nov-23 Dec-23 Jan-24 Feb-24 Mar-24 Apr-24 7.00 **Buy/Sell Ratio** Buy/Sell Ratio Buy/Sell Ratio 8 20. 6.00 7 **Buy/Sell Ratio** 5.00 15 -6 4.00 May-23 May-23 Jul-23 Sep-23 Oct-23 Nov-23 Dec-23 Jan-24 Feb-24 Mar-24 Apr-24 May-23 Aug-23 Sep-23 Oct-23 Nov-23 Jan-24 Feb-24 Mar-24 Apr-24 Jul-23 Sep-23 Nov-23 Jan-24 Feb-24 Mar-24 Apr-24 Jun-23 Aug-23 Jun-23 Jul-23 Dec-23 Jun-23 Aug-23 Oct-23 Dec-23

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



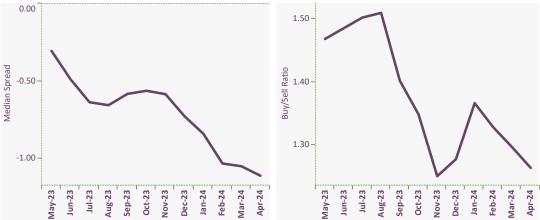
Daily Trades: First month = 100 Source: TRACE and Tradeweb Direct

-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





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

April 2024

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	JPM	JP MORGAN CHASE	А	1,202	3.2%	35,616	1.7	632	5.4	5.3	5.2	5.7	5.5
2	TFC	Null	А	39	2.9%	32,587	10.2	175	5.5	5.3	5.7		
3	GS	GOLDMAN SACHS	А	1,431	2.7%	29,857	1.7	527	5.5	5.4	5.4	5.5	5.5
4	С	CITIGROUP	BBB	892	2.3%	25,695	1.5	471	5.6	5.4	5.4	5.7	5.7
5	BAC	BANK OF AMERICA	А	536	2.1%	23,311	1.4	460	5.5	5.2	5.4	5.7	5.5
6	WFC	WELLS FARGO	А	230	1.9%	20,697	1.6	319	5.5	5.4	5.4	5.6	5.9
7	MS	MORGAN STANLEY	А	1,046	1.6%	17,679	1.3	309	5.4	5.3	5.4	5.2	5.6
8	GM	GENERAL MOTORS FINANCIAL COMPANY INC	BBB	88	1.3%	14,358	1.5	271	5.7	5.6	5.6	6.0	6.3
9	ORCL	ORACLE CORP	BBB	38	1.3%	14,116	1.6	232	5.6	5.4	5.3	5.6	5.9
10	AAPL	APPLE INC	AA	52	1.1%	12,536	1.9	197	5.2	4.9	4.8	4.9	5.2
11	CVS	CVS CAREMARK CORP	BBB	45	1.1%	11,934	1.6	167	5.6	5.4	5.3	5.7	6.0
12	т	AT&T	BBB	106	1.1%	11,848	1.4	164	5.8	5.3	5.4	5.6	5.9
13	VZ	VERIZON	BBB	153	1.0%	11,479	1.4	156	5.4	5.3	5.3	5.4	5.7
14	BRK	BERKSHIRE HATHAWAY	А	150	1.0%	11,029	2.5	228	5.4	5.2	5.2	5.5	5.5
15	CMCS	COMCAST	А	67	1.0%	11,016	1.5	162	5.4	5.1	5.2	5.4	5.7
16	SCHW	SCHWAB CHARLES CORP NEW	А	34	1.0%	10,875	4.4	123	5.3	5.3	5.1	5.4	
17	UNH	UNITEDHEALTH	А	62	0.9%	10,195	2.2	184	5.3	5.1	5.1	5.3	5.5
18	NEE	FPL GROUP CAP INC	BBB	71	0.8%	9,281	2.7	165	5.6	5.3	5.3	5.3	5.5
19	BA	BOEING CO	BBB	48	0.8%	9,162	2.6	179	5.9	5.9	6.0	6.2	6.7
20	AMGN	AMGEN INC	BBB	42	0.8%	9,101	2.1	135	5.5	5.3	5.3	5.4	5.7

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

April 2024

Ficker	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)
TFC	Null	А	39	2.9%	32,587	29,679	2,908	10.2	175	5.5	5.3	5.7		
MU	MICRON TECHNOLOGY INC	BBB	12	0.5%	5,021	4,293	728	5.9	48		5.2	5.3	5.6	6.0
SCHW	SCHWAB CHARLES CORP NEW	А	34	1.0%	10,875	8,843	2,032	4.4	123	5.3	5.3	5.1	5.4	
PSX	PHILLIPS 66	BBB	25	0.3%	3,156	2,521	635	4.0	62	5.5	5.3	5.3	5.3	5.8
AEP	AMERICAN ELEC PWR CO INC	BBB	76	0.3%	3,621	2,673	948	2.8	76	5.7	5.4	5.4	5.7	6.1
NEE	FPL GROUP CAP INC	BBB	71	0.8%	9,281	6,751	2,530	2.7	165	5.6	5.3	5.3	5.3	5.5
ΓRP	TRANSCANADA PIPELINES LTD	BBB	31	0.2%	2,764	1,997	767	2.6	49	5.7	5.6	5.6	5.8	6.1
ИО	ALTRIA GROUP INC	BBB	22	0.3%	3,828	2,759	1,069	2.6	72	5.5	5.4	5.3	5.8	6.1
ВА	BOEING CO	BBB	48	0.8%	9,162	6,583	2,579	2.6	179	5.9	5.9	6.0	6.2	6.7
JTX	UNITED TECHNOLOGIES CORP	BBB	57	0.7%	8,233	5,906	2,327	2.5	121	5.4	5.2	5.3	5.6	5.8
ГМ	ΤΟΥΟΤΑ	А	85	0.6%	6,775	4,850	1,925	2.5	152	5.3	5.1	5.1	5.2	5.7
NOC	NORTHROP GRUMMAN CORP	BBB	22	0.4%	4,207	3,009	1,198	2.5	47	5.6	5.2	5.0	5.4	5.6
BRK	BERKSHIRE HATHAWAY	А	150	1.0%	11,029	7,875	3,154	2.5	228	5.4	5.2	5.2	5.5	5.5
csco	CISCO	AA	12	0.3%	3,264	2,326	938	2.5	69	5.2	5.0	5.0	5.3	5.4
EIX	EDISON MISSION	А	60	0.5%	5,329	3,786	1,543	2.5	103	5.8	5.4	5.5	5.6	5.9
SBUX	STARBUCKS CORP	BBB	20	0.3%	3,062	2,162	900	2.4	60	5.4	5.2	5.1	5.3	5.6
MET	METLIFE	А	22	0.4%	3,958	2,785	1,173	2.4	60	5.4		5.1	5.4	5.7
HD	HOME DEPOT	А	37	0.6%	7,077	4,956	2,121	2.3	104	5.2	5.1	5.1	5.1	5.5
HON	HONEYWELL INTL INC	A	23	0.3%	2,921	2,045	876	2.3	62	5.2	5.0	5.0	5.2	5.4
NTC	INTEL CORP	А	41	0.7%	7,761	5,428	2,333	2.3	162	5.4	5.2	5.2	5.3	5.7
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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

April 2024

Index	Ticker	Company	Rating Key (Med)	lssues 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	BMO	BANK MONTREAL MEDIUM TERM SR NTS BOOK EN	A	331	0.5%	5,739	2,348	3,391	0.69	101	5.6	5.5	5.4	6.1	
2	CHTR	CCO HOLDINGS LLC	BBB	45	0.3%	3,105	1,304	1,801	0.72	60	6.0	6.1	6.4	6.8	7.5
3	FANG	Diamondback Energy, Inc.	BBB	12	0.3%	2,927	1,434	1,493	0.96	27		5.3	5.4	5.7	
4	RDS	SHELL	AA	22	0.3%	3,096	1,581	1,515	1.04	45	5.4	5.1	5.1	5.3	5.6
5	BTI	BAT INTERNATIONAL FINANCE PLC	BBB	37	0.4%	4,266	2,284	1,982	1.15	92	5.9	5.6	5.7	6.1	6.7
6	APC	ANADARKO PETE CORP	BBB	68	0.3%	3,540	1,918	1,622	1.18	67	5.8	5.9	5.7	6.1	6.4
7	AMT	AMERICAN TOWER CORP NEW	BBB	34	0.3%	3,362	1,856	1,506	1.23	63	5.8	5.6	5.6	5.8	
8	DELL	DELL	BBB	25	0.3%	3,485	1,945	1,540	1.26	73	5.6	5.6	5.4	5.7	6.1
9	MS	MORGAN STANLEY	А	1,046	1.6%	17,679	9,946	7,733	1.29	309	5.6	5.4	5.9	5.4	5.6
10	TMUS	T-MOBILE USA INC	BBB	40	0.5%	5,844	3,309	2,535	1.31	116	5.8	5.4	5.5	5.6	5.8
11	CAT	CATERPILLAR	А	55	0.3%	3,249	1,856	1,393	1.33	64	5.4	5.1	5.1	5.2	5.5
12	GE	GENERAL ELEC CAP CORP MEDIUM TERM NTS BO	BBB	205	0.4%	4,323	2,472	1,851	1.34	72	6.4	5.6	5.7	5.6	5.7
13	EXC	EXELON GENERATION CO LLC	BBB	91	0.3%	2,860	1,642	1,218	1.35	63	5.6	5.4	5.4	5.6	5.9
14	т	AT&T	BBB	106	1.1%	11,848	6,862	4,986	1.38	164	6.3	5.4	5.4	5.6	5.9
15	BAC	BANK OF AMERICA	А	536	2.1%	23,311	13,553	9,758	1.39	460	5.7	5.3	5.8	5.6	5.5
16	VZ	VERIZON	BBB	153	1.0%	11,479	6,698	4,781	1.40	156	5.7	5.3	5.4	5.5	5.8
17	EDP	ENTERPRISE PRODS OPER LLC	А	35	0.4%	4,827	2,836	1,991	1.42	67	5.6	5.2	5.3	5.4	5.8
18	RY	ROYAL BANK OF CANADA	А	303	0.4%	4,678	2,758	1,920	1.44	93	5.6	5.3	6.1	5.5	6.1
19	VIA	VIACOM INC NEW	BBB	26	0.3%	3,150	1,857	1,293	1.44	54	6.8	6.6	7.0	7.8	8.0
20	ANTM	Null	А	27	0.3%	3,628	2,158	1,470	1.47	55	5.7	5.3	5.4	5.5	5.7

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

April 2024

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	TFC	Null	Jun-34	А	5.867	25,023	125	25,148	49			98.1	97.9
2	SCHW	SCHWAB CHARLES CORP NEW	Aug-34	А	6.136	5,387	49	5,436	15			101.4	101.6
3	CVS	CVS CAREMARK CORP	Mar-28	BBB	4.300	2,599	1,220	3,819	29	5.4	5.4	96.1	96.0
4	GS	GOLDMAN SACHS	Null	ВВ	7.500	2,036	135	2,171	71			101.4	101.0
5	CMCS	COMCAST	Oct-28	А	4.150	1,977	910	2,887	20	5.2	5.2	96.0	96.0
6	UTX	UNITED TECHNOLOGIES CORP	Aug-25	BBB	3.950	1,747	562	2,309	11	5.4	5.5	98.2	98.1
7	BP	BP	Sep-27	А	3.279	1,745	528	2,273	11	5.2	5.2	94.1	94.0
8	HPQ	HEWLETT PACKARD	Oct-25	BBB	4.900	1,722	607	2,329	15	5.7	5.7	98.9	98.9
9	LOW	LOWES COS INC	Apr-26	BBB	2.500	1,685	515	2,200	11	5.3	5.3	94.8	94.8
10	MU	MICRON TECHNOLOGY INC	Nov-29	BBB	6.750	1,685	123	1,808	12	5.3	5.5	106.9	105.6
11	AAPL	APPLE INC	Nov-27	AA	3.000	1,626	527	2,153	11	4.9	4.9	93.9	93.9
12	ORCL	ORACLE CORP	Mar-28	BBB	2.300	1,549	126	1,675	18	5.4	5.4	89.0	89.2
13	JPM	JP MORGAN CHASE	Null	BBB	6.875	1,546	102	1,648	52			103.0	102.1
14	HCA	HCA INC	Mar-32	BBB	3.625	1,539	46	1,585	12	5.8	5.8	86.6	86.1
15	DWDP	Null	Nov-28	BBB	4.725	1,520	486	2,006	13	5.1	5.2	98.3	98.3
16	JPM	JP MORGAN CHASE	Null	BBB	4.600	1,488	655	2,143	34	4.7	4.7	98.4	98.0
17	HD	HOME DEPOT	Sep-32	А	4.500	1,481	221	1,702	11	5.1	5.1	95.9	96.0
18	PFE	PFIZER	Mar-29	А	3.450	1,437	376	1,813	11	5.0	5.0	93.3	93.3
19	NOC	NORTHROP GRUMMAN CORP	Mar-33	BBB	4.700	1,302	201	1,503	7	5.4	5.4	95.2	95.3
20	BUD	ANHEUSER BUSCH INBEV WORLDWIDE INC	Jun-30	А	3.500	1,298	378	1,676	12	5.2	5.2	91.3	91.3

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

April 2024

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	BMO	BANK MONTREAL MEDIUM TERM SR NTS BOOK EN	Jun-24	А	2.500	20	2,083	2,103	23	5.3	6.0	99.4	99.2
2	GM	GENERAL MOTORS FINANCIAL COMPANY INC	Mar-62	BB	5.750	336	1,396	1,732	13	6.1	6.1	94.5	94.5
3	CVS	CVS CAREMARK CORP	Mar-28	BBB	4.300	2,599	1,220	3,819	29	5.4	5.4	96.1	96.0
4	FANG	Diamondback Energy, Inc.	Dec-26	BBB	3.250	23	1,174	1,197	5	5.0	5.3	95.8	95.1
5	ORCL	ORACLE CORP	Nov-32	BBB	6.250	454	968	1,422	17	5.6	5.8	104.5	103.2
6	CMCS	COMCAST	Oct-28	А	4.150	1,977	910	2,887	20	5.2	5.2	96.0	96.0
7	JPM	JP MORGAN CHASE	Null	BBB	0.000	19	840	859	9	8.8	8.8	100.0	99.9
8	JPM	JP MORGAN CHASE	Jul-25	А	3.900	967	677	1,644	16	5.4	5.3	98.2	98.3
9	VZ	VERIZON	Mar-27	BBB	4.125	834	661	1,495	14	5.2	5.3	97.0	96.9
10	JPM	JP MORGAN CHASE	Null	BBB	4.600	1,488	655	2,143	34	4.7	4.7	98.4	98.0
11	т	AT&T	Mar-29	BBB	4.350	1,039	637	1,676	14	5.3	5.3	95.8	95.8
12	WFC	WELLS FARGO	May-28	А	3.584	494	611	1,105	8			94.3	94.2
13	GS	GOLDMAN SACHS	Mar-30	А	3.800	977	607	1,584	15	5.4	5.5	92.1	91.8
14	HPQ	HEWLETT PACKARD	Oct-25	BBB	4.900	1,722	607	2,329	15	5.7	5.7	98.9	98.9
15	С	CITIGROUP	Jul-28	BBB	3.668	281	565	846	9			94.3	94.2
16	UTX	UNITED TECHNOLOGIES CORP	Aug-25	BBB	3.950	1,747	562	2,309	11	5.4	5.5	98.2	98.1
17	BP	BP	Sep-27	А	3.279	1,745	528	2,273	11	5.2	5.2	94.1	94.0
18	AAPL	APPLE INC	Nov-27	AA	3.000	1,626	527	2,153	11	4.9	4.9	93.9	93.9
19	LOW	LOWES COS INC	Apr-26	BBB	2.500	1,685	515	2,200	11	5.3	5.3	94.8	94.8
20	CHTR	CCO HOLDINGS LLC	Feb-34	BBB	6.650	71	505	576	11	6.8	6.8	99.2	98.6

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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