

Market Transparency Report

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

October 2023

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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

Monthly Change Table for October 2023

	Median Yield (bps)	Daily Trade Volume	Buy/Sell Ratio
Agency	20	1.2%	-0.3
CD	0	13.5%	1.3
Corp	30	4.6%	-0.1
Municipal	35	34.2%	-0.1
Treasury	4	34.1%	0.4

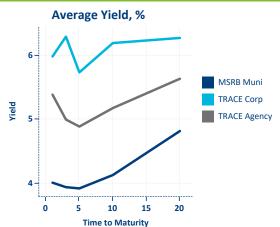
For monthly security trend data, see slides 5, 6 and 7



Yield Matrix

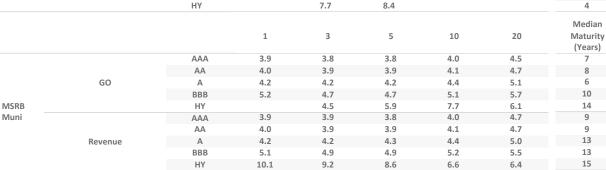
Average Yield, % for October 2023

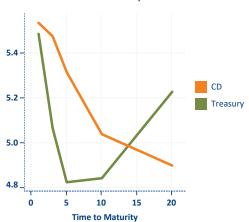
			TTM			Median Maturity
Market	1	3	5	10	20	(Years)
MSRB Muni	4.0	3.9	3.9	4.1	4.8	9
TRACE Corp	6.0	6.3	5.7	6.2	6.3	3
TRACE Agency	5.4	5.0	4.9	5.2	5.6	3
CD	5.5	5.5	5.3	5.0	4.9	1
Treasury	5.5	5.1	4.8	4.8	5.2	1



Asset Class

Market	Category (Filtered)	Rating Key	1	3	5	10	20	Median Maturity (Years)
		AA	5.7	5.6	5.6			5
	Financial	Α	5.7	5.5	5.4	5.7	6.3	3
		BBB	6.6	6.5	7.4	6.5	7.6	3
TRACE —		HY		11.5	12.0	10.6		5
Corp		AAA			4.8		5.4	17
Corp		AA	5.4	5.1	5.0	5.5	5.7	6
	Non-Financial	Α	5.0	5.2	5.3	5.9	6.3	5
		BBB	6.0	5.9	5.9	6.2	7.2	4
		HY		7.7	8.4			4
			1	3	5	10	20	Median Maturity





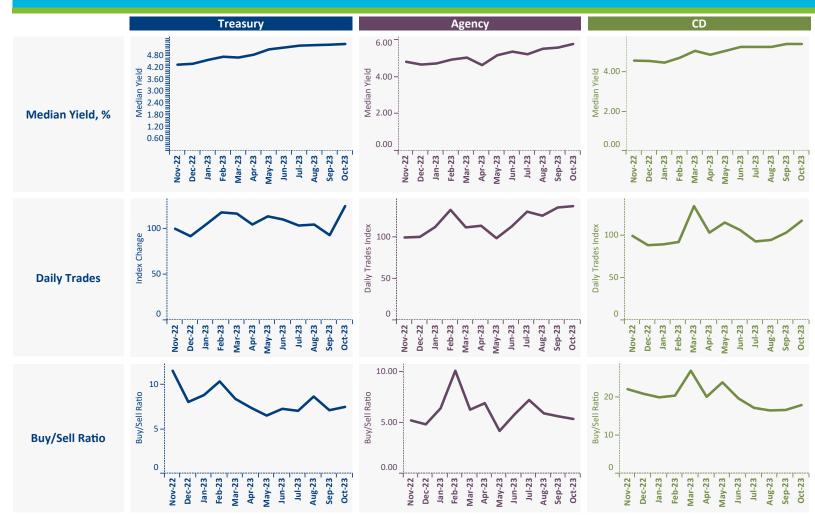
WA Yield = "Weighted Average Yield"

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 Transaction Trend Summary



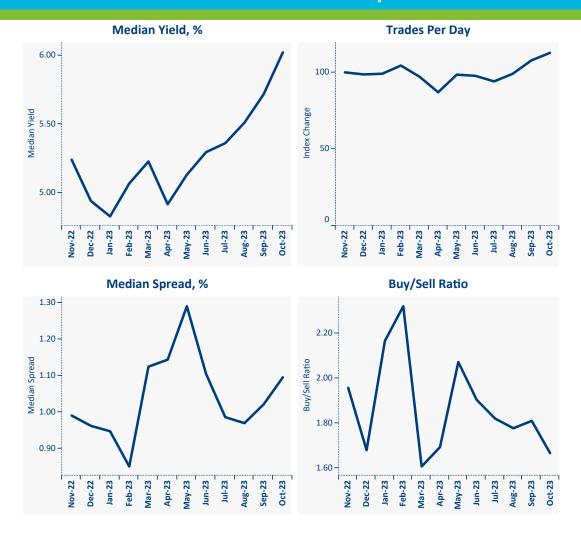
Daily Trades: First month = 100 Source: TRACE and Tradeweb Direct



⁻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 Most Active Issuers

October 2023

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	С	CITIGROUP	BBB	838	3.3%	32,335	2.0	525	6.0	6.2	6.4	6.5	6.7
2	GS	GOLDMAN SACHS	A	1,243	3.2%	31,673	1.9	538	6.0	6.1	6.1	6.1	6.3
3	JPM	JP MORGAN CHASE	A	1,042	3.1%	30,419	1.5	521	6.0	5.9	5.8	6.2	6.3
4	BAC	BANK OF AMERICA	A	504	2.4%	23,727	1.6	478	6.1	6.1	6.2	6.1	6.3
5	WFC	WELLS FARGO	A	182	1.9%	18,912	1.5	296	6.0	6.2	6.0	6.7	6.9
6	MS	MORGAN STANLEY	A	920	1.8%	17,222	1.4	286	5.9	6.1	6.2	6.0	6.4
7	CVS	CVS CAREMARK CORP	BBB	46	1.5%	14,605	2.7	140	5.9	5.8	5.9	6.2	6.6
8	AAPL	APPLE INC	AA	53	1.4%	13,447	1.9	215	5.4	5.2	5.2	5.2	5.7
9	ORCL	ORACLE CORP	ВВВ	38	1.3%	12,762	1.8	213	5.9	5.8	5.8	6.2	6.6
10	VZ	VERIZON	ВВВ	151	1.3%	12,733	1.4	168	5.8	5.7	5.9	6.2	6.4
11	Т	AT&T	ВВВ	110	1.1%	10,997	1.3	147	20.9	5.9	6.1	6.3	6.7
12	BRK	BERKSHIRE HATHAWAY	A	148	1.1%	10,688	2.9	201	5.7	5.3	5.7	6.1	6.5
13	GM	GENERAL MOTORS FINANCIAL COMPANY INC	ВВВ	90	1.1%	10,451	1.6	209	6.3	6.3	6.4	6.9	7.5
14	USB	U S BANCORP MEDIUM TERM NTS- BOOK ENTRY	A	30	1.0%	9,989	2.0	127	6.2	6.1	6.5		
15	CMCS	COMCAST	Α	66	1.0%	9,848	1.3	148	5.5	5.5	5.6	5.9	6.3
16	DUK	DUKE ENERGY	BBB	125	1.0%	9,819	2.2	145	5.9	5.8	5.8	6.2	6.4
17	UNH	UNITEDHEALTH	A	57	0.9%	8,796	2.2	152	5.4	5.4	5.4	5.8	6.1
18	AMZN	AMAZON COM INC	AA	34	0.9%	8,448	1.7	146	5.5	5.2	5.2	5.4	5.8
19	TFC	Null	A	39	0.8%	8,242	1.5	126	6.2	6.1	6.9		
20	COF	CAPITAL ONE FINL CORP	BBB	31	0.8%	8,239	1.7	123	6.4	6.8	6.9		

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 Highest Buy/Sell Ratio

October 2023

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)
1	MU	MICRON TECHNOLOGY INC	BBB	11	0.3%	3,016	2,482	534	4.7	53		6.1	6.3	6.9	6.8
2	TRP	TRANSCANADA PIPELINES LTD	BBB	33	0.3%	2,911	2,258	653	3.5	45	6.1	6.2	6.1	6.5	6.7
3	FITB	FIFTH THIRD BANCORP	BBB	19	0.7%	6,735	5,150	1,585	3.3	67	6.4	6.8	6.5		
4	PM	PHILIP MORRIS INTL INC	Α	31	0.6%	5,460	4,171	1,289	3.2	115	5.7	5.6	5.8	6.3	6.6
5	AEP	AMERICAN ELEC PWR CO INC	BBB	72	0.3%	2,808	2,142	666	3.2	57		5.9	5.9	6.3	6.5
6	вх	APRIA HEALTHCARE GROUP INC	BBB	30	0.4%	3,830	2,901	929	3.1	74	6.7	7.4	6.7	6.7	5.3
7	BRK	BERKSHIRE HATHAWAY	Α	148	1.1%	10,688	7,932	2,756	2.9	201	5.7	5.3	5.7	6.1	6.5
8	MAR	MARRIOTT INTL INC NEW	BBB	22	0.3%	2,789	2,056	733	2.8	57	6.0	5.9	6.0	6.4	
9	SCHW	SCHWAB CHARLES CORP NEW	Α	39	0.8%	7,649	5,638	2,011	2.8	150	6.0	6.2	6.2	6.4	
10	ALLY	ALLY FINANCIAL	BBB	78	0.5%	4,407	3,240	1,167	2.8	80	6.7	7.4	7.4	8.3	
11	MET	METLIFE	Α	22	0.5%	4,682	3,421	1,261	2.7	68	5.8	5.6		6.2	6.4
12	CVS	CVS CAREMARK CORP	BBB	46	1.5%	14,605	10,647	3,958	2.7	140	5.9	5.8	5.9	6.2	6.6
13	NEE	FPL GROUP CAP INC	BBB	66	0.8%	7,996	5,773	2,223	2.6	120	6.0	6.1	5.6	5.9	6.1
14	JNJ	JOHNSON & JOHNSON	AAA	26	0.3%	2,962	2,120	842	2.5	60	5.1	5.1	5.0	5.1	5.6
15	TM	тоуота	Α	73	0.6%	5,531	3,953	1,578	2.5	118	5.6	5.4	5.5	5.6	6.8
16	DE	DEERE JOHN CAP CORP MEDIUM TERM NTS-BOOK	Α	65	0.6%	5,865	4,176	1,689	2.5	122	5.4	5.3	5.4	5.6	5.7
17	FB	Null	AA	10	0.3%	2,600	1,851	749	2.5	51		5.3	5.3	5.7	
18	CE	CELANESE US HLDGS LLC	BBB	10	0.2%	2,159	1,518	641	2.4	41	6.2	6.7	6.9	7.2	
19	ENB	ENBRIDGE INC	BBB	39	0.4%	3,626	2,545	1,081	2.4	72	6.1	6.0	6.3	6.4	6.9
20	WMT	WAL-MART	AA	39	0.6%	5,774	4,043	1,731	2.3	95	5.3	5.1	5.1	5.3	5.7

Source: TRACE and Tradeweb Direct



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⁻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

October 2023

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	RDS	SHELL	AA	24	0.3%	3,305	1,458	1,847	0.79	46	5.7	5.3	5.4	5.8	6.1
2	BMY	BRISTOL MYERS SQUIBB CO	Α	40	0.3%	3,232	1,556	1,676	0.93	46	5.8	5.4	5.5	5.6	6.1
3	EDP	ENTERPRISE PRODS OPER LLC	BBB	34	0.4%	3,850	1,866	1,984	0.94	50	5.9	5.7	5.8	5.9	6.3
4	BNS	BANK NOVA SCOTIA B C	Α	169	0.4%	3,567	1,742	1,825	0.95	60	6.1	6.0	6.3	6.3	
5	ANTM	Null	Α	27	0.3%	3,233	1,679	1,554	1.08	44	6.0	5.8	5.8	6.0	6.3
6	BP	BP	Α	29	0.6%	6,053	3,193	2,860	1.12	74		5.5	5.6	5.9	6.2
7	ABT	ABBOTT LABS	AA	12	0.2%	2,445	1,305	1,140	1.14	31	5.5	5.3	5.2		5.9
8	AMT	AMERICAN TOWER CORP NEW	BBB	34	0.3%	3,309	1,790	1,519	1.18	55	6.2	6.2	6.3	6.5	
9	SPG	SIMON PPTY GROUP L P	Α	23	0.2%	2,282	1,233	1,049	1.18	44	6.2	5.9	6.0	6.4	6.8
10	FISV	FISERV INC	BBB	12	0.4%	3,507	1,907	1,600	1.19	45	6.2	5.9	6.0	6.3	
11	UNP	UNION PAC CORP	Α	55	0.2%	2,217	1,228	989	1.24	44	5.8	5.6	5.4	5.8	6.2
12	EXC	EXELON GENERATION CO LLC	BBB	87	0.2%	2,222	1,234	988	1.25	44	6.4	5.7	5.7	6.1	6.5
13	PEP	PEPSICO	Α	40	0.3%	2,694	1,496	1,198	1.25	51	5.5	5.2	5.2	5.4	5.9
14	SRE	SEMPRA ENERGY	BBB	67	0.2%	2,315	1,292	1,023	1.26	45	6.0	5.9	5.9	6.1	6.4
15	CMCS	COMCAST	Α	66	1.0%	9,848	5,505	4,343	1.27	148	5.8	5.6	5.6	6.0	6.3
16	ВК	BANK NEW YORK INC MEDIUM TERM SR NTS BOO	Α	52	0.6%	5,612	3,154	2,458	1.28	85	6.0	5.9	5.9	6.0	
17	TGT	TARGET CORP	Α	20	0.3%	2,746	1,548	1,198	1.29	35	5.8	5.2	5.4	5.8	6.1
18	Т	AT&T	ВВВ	110	1.1%	10,997	6,208	4,789	1.30	147	30.3	6.0	6.1	6.4	6.7
19	ETP	ENERGY TRANSFER PARTNERS L P	BBB	28	0.3%	2,961	1,681	1,280	1.31	55	6.2	6.2	6.3	6.7	7.2
20	MS	MORGAN STANLEY	Α	920	1.8%	17,222	9,905	7,317	1.35	286	6.0	6.2	6.5	6.2	6.4

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 Bought Issues

October 2023

1 CVS CVS CAREMARK CORP Jan-29 BBB 5.000 5,831 160 5,991 15 5.9 5.9 2 C CITIGROUP Oct-28 BBB 3.520 3,767 528 4,295 16	Price (Buy) Price (Sell)	Price (Buy)	Yield (Sell)	Yield (Buy)	Dollar Vol. Traded (MM)	Trades	Trades (Sell)	Trades (Buy)	Coupon	Rating Key (Med)	Maturity	Company	Ticker	Index
3 FITB FIFTH THIRD BANCORP Jul-29 BBB 6.339 2,615 55 2,670 6 4 C CITIGROUP Null BB 7.625 1,968 131 2,099 52 5 GS GOLDMAN SACHS Null BB 7.500 1,836 165 2,001 44 6 C CITIGROUP Nov-33 BBB 6.270 1,755 109 1,864 14	96.0 95.9	96.0	5.9	5.9	15	5,991	160	5,831	5.000	BBB	Jan-29	CVS CAREMARK CORP	CVS	1
4 C CITIGROUP Null BB 7.625 1,968 131 2,099 52 5 GS GOLDMAN SACHS Null BB 7.500 1,836 165 2,001 44 6 C CITIGROUP Nov-33 BBB 6.270 1,755 109 1,864 14	90.1 90.0	90.1			16	4,295	528	3,767	3.520	BBB	Oct-28	CITIGROUP	С	2
5 GS GOLDMAN SACHS Null BB 7.500 1,836 165 2,001 44 6 C CITIGROUP Nov-33 BBB 6.270 1,755 109 1,864 14	98.3 97.1	98.3			6	2,670	55	2,615	6.339	BBB	Jul-29	FIFTH THIRD BANCORP	FITB	3
6 C CITIGROUP Nov-33 BBB 6.270 1,755 109 1,864 14	97.0 96.2	97.0			52	2,099	131	1,968	7.625	ВВ	Null	CITIGROUP	С	4
	98.8 98.4	98.8			44	2,001	165	1,836	7.500	ВВ	Null	GOLDMAN SACHS	GS	5
7 SCHW SCHWAB CHARLES CORP NEW Aug-26 A 5.875 1,747 66 1,813 38 6.1 6.2	97.5 97.8	97.5			14	1,864	109	1,755	6.270	BBB	Nov-33	CITIGROUP	С	6
	99.3 99.2	99.3	6.2	6.1	38	1,813	66	1,747	5.875	Α	Aug-26	SCHWAB CHARLES CORP NEW	SCHW	7
8 CVS CVS CAREMARK CORP Mar-28 BBB 4.300 1,573 1,488 3,061 23 5.9 5.9	93.9 93.8	93.9	5.9	5.9	23	3,061	1,488	1,573	4.300	BBB	Mar-28	CVS CAREMARK CORP	CVS	8
9 SJM SMUCKER J M CO Nov-28 BBB 5.900 1,327 25 1,352 9 6.0 6.0	100.2 99.4	100.2	6.0	6.0	9	1,352	25	1,327	5.900	BBB	Nov-28	SMUCKER J M CO	SJM	9
10 JPM JP MORGAN CHASE May-38 A 6.400 1,319 58 1,377 18 6.2 6.2	102.1 101.5	102.1	6.2	6.2	18	1,377	58	1,319	6.400	Α	May-38	JP MORGAN CHASE	JPM	10
11 C CITIGROUP Sep-25 BBB 5.500 1,305 174 1,479 19 6.2 6.3	98.7 98.6	98.7	6.3	6.2	19	1,479	174	1,305	5.500	BBB	Sep-25	CITIGROUP	С	11
12 JPM JP MORGAN CHASE Sep-24 BBB 3.875 1,291 261 1,552 30 6.1 6.3	98.1 97.9	98.1	6.3	6.1	30	1,552	261	1,291	3.875	BBB	Sep-24	JP MORGAN CHASE	JPM	12
13 NEE FPL GROUP CAP INC Sep-25 BBB 5.749 1,284 49 1,333 8 6.0 6.0	99.5 99.5	99.5	6.0	6.0	8	1,333	49	1,284	5.749	BBB	Sep-25	FPL GROUP CAP INC	NEE	13
14 ORCL ORACLE CORP Apr-38 BBB 6.500 1,281 31 1,312 17 6.5 6.7	100.2 98.3	100.2	6.7	6.5	17	1,312	31	1,281	6.500	BBB	Apr-38	ORACLE CORP	ORCL	14
15 HPQ HEWLETT PACKARD Oct-25 BBB 4.900 1,274 933 2,207 17 5.9 5.9	98.1 98.1	98.1	5.9	5.9	17	2,207	933	1,274	4.900	BBB	Oct-25	HEWLETT PACKARD	HPQ	15
16 WFC WELLS FARGO Null BBB 7.625 1,273 290 1,563 32	100.5 100.2	100.5			32	1,563	290	1,273	7.625	BBB	Null	WELLS FARGO	WFC	16
17 AAPL APPLE INC Nov-27 AA 3.000 1,234 775 2,009 12 5.2 5.2	92.1 92.1	92.1	5.2	5.2	12	2,009	775	1,234	3.000	AA	Nov-27	APPLE INC	AAPL	17
18 DWDP Null Nov-28 BBB 4.725 1,229 649 1,878 13 5.7 5.7	95.8 95.8	95.8	5.7	5.7	13	1,878	649	1,229	4.725	ВВВ	Nov-28	Null	DWDP	18
19 TFC Null Oct-24 A 2.850 1,215 878 2,093 21 6.3 6.4	96.7 96.5	96.7	6.4	6.3	21	2,093	878	1,215	2.850	А	Oct-24	Null	TFC	19
20 USB U S BANCORP MEDIUM TERM NTS- BOOK ENTRY Sep-24 A 3.600 1,208 785 1,993 19 6.2 6.4	97.8 97.6	97.8	6.4	6.2	19	1,993	785	1,208	3.600	Α	Sep-24	U S BANCORP MEDIUM TERM NTS- BOOK ENTRY	USB	20

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 Sold Issues

October 2023

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	CVS	CVS CAREMARK CORP	Mar-28	BBB	4.300	1,573	1,488	3,061	23	5.9	5.9	93.9	93.8
2	CMCS	COMCAST	Oct-28	Α	4.150	1,170	1,090	2,260	17	5.6	5.6	93.9	93.7
3	JPM	JP MORGAN CHASE	Jul-28	Α	4.851	242	1,019	1,261	18			95.7	95.4
4	HPQ	HEWLETT PACKARD	Oct-25	BBB	4.900	1,274	933	2,207	17	5.9	5.9	98.1	98.1
5	VZ	VERIZON	Mar-27	BBB	4.125	493	895	1,388	16	5.8	5.8	94.9	94.7
6	TFC	Null	Oct-24	Α	2.850	1,215	878	2,093	21	6.3	6.4	96.7	96.5
7	UTX	UNITED TECHNOLOGIES CORP	Aug-25	BBB	3.950	1,173	868	2,041	11	5.8	5.8	96.9	96.8
8	ORCL	ORACLE CORP	Nov-32	BBB	6.250	922	850	1,772	30	6.2	6.1	100.1	101.1
9	T	AT&T	Mar-29	BBB	4.350	745	843	1,588	13	6.1	6.1	92.2	92.1
10	COF	CAPITAL ONE FINL CORP	Mar-27	BBB	3.750	708	832	1,540	14	6.7	7.0	91.1	90.4
11	JPM	JP MORGAN CHASE	Jul-25	Α	3.900	667	816	1,483	14	5.8	5.8	96.9	96.9
12	GS	GOLDMAN SACHS	Feb-26	Α	3.750	937	787	1,724	13	6.1	6.2	94.9	94.8
13	USB	U S BANCORP MEDIUM TERM NTS- BOOK ENTRY	Sep-24	Α	3.600	1,208	785	1,993	19	6.2	6.4	97.8	97.6
14	AAPL	APPLE INC	Nov-27	AA	3.000	1,234	775	2,009	12	5.2	5.2	92.1	92.1
15	GS	GOLDMAN SACHS	Mar-30	Α	3.800	629	726	1,355	15	6.2	6.3	87.3	86.9
16	BMY	BRISTOL MYERS SQUIBB CO	Jul-24	Α	2.900	144	723	867	7	5.6	5.8	98.0	97.8
17	LOW	LOWES COS INC	Apr-26	BBB	2.500	996	703	1,699	9	5.6	5.6	92.9	92.8
18	WFC	WELLS FARGO	May-28	Α	3.584	193	665	858	5			91.2	91.0
19	MCD	MCDONALDS	Jan-26	ВВВ	3.700	662	660	1,322	10	5.5	5.6	96.1	96.1
20	AMGN	AMGEN INC	Feb-27	BBB	2.200	634	659	1,293	8	5.6	5.7	89.7	89.6

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, 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

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