

Quarterly Statistical Summaries 2018 Second Quarter: April - June

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About the Quarterly Statistical Summaries

The MSRB's quarterly statistical summaries include aggregate municipal market information for the most recent quarter and cover different types of municipal issues, trades and interest rate resets. The MSRB publishes this information to regularly update certain data published annually in the MSRB Fact Book with the goal of providing market participants with historical statistics that can be further analyzed, studied and reviewed.

The quarterly summaries reflect aggregate trading activity at the end of each trading day as submitted to the MSRB's Real-Time Transaction Reporting System (RTRS). The MSRB obtains some information on the characteristics of securities traded from Standard & Poor's Financial Services LLC and CUSIP databases furnished by the CUSIP Service Bureau. Additionally, the quarterly data includes the number of interest rate resets for variable rate demand obligations and auction rate securities, as well as the statistics related to continuing disclosure documents received through the MSRB's Electronic Municipal Market Access (EMMA®) website.

For additional data on municipal trading activity, interest rate resets, and continuing and primary market disclosures, please see the MSRB's 2017 Fact Book or visit the EMMA website at emma.msrb.org.

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¹ As described in an MSRB Rule G-14 interpretive notice from January 2, 2008 (Reporting of Transactions in Certain Special Trading Situations), some transactions are subject to special conditions indicating that they are not a typical arms-length transaction and possibly a misleading indicator of the market value of a security. These transactions may be excluded from the MSRB's transparency products, including data disseminated through EMMA, but may be included in this report.

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Highlights

Municipal Market Trade Summary

Par amount traded in the municipal securities market totaled \$814.7 billion in 2018:Q2. Second quarter par volume was up 7.6 percent from the \$756.9 billion in 2018:Q1 but down 6.3 percent from 2017:Q2. Total number of trades increased by less than one percent compared to 2018:Q1 and to 2.6 million trades, but down 1.4 percent from the 2.63 million trades in 2017:Q2.

Most Actively Traded Municipal Securities

A revenue bond from the Industrial Development Board of the Parish of East Baton Rouge was the most actively traded security in terms of par with \$4.5 billion traded in 2018:Q2. A general obligation bond from the Commonwealth of Pennsylvania had the most activity with 2,347 trades.

Municipal Market Trades by Trade Type

Customer buying activity increased to an average daily par amount of \$6.4 billion in 2018:Q2, compared to \$6.04 billion in 2018:Q1 and \$6.03 billion in the same period last year. The average daily number of trades of customer purchases totaled 15,726 in 2018:Q2, compared to 16,178 trades in 2018:Q1 and 15,894 trades in 2017:Q2.

A daily average of \$416.6 million, or 6.5 percent of customer purchases of trades of \$100,000 or less, occurred in 2018:Q2, compared to \$435.2 billion, or 7.2 percent of all customer purchases, in 2018:Q1.

Municipal Market Variable Securities Rate Resets

The number of variable rate demand obligations rate resets declined to 95,650 in 2018:Q2, compared to the 106,074 rate resets in 2017:Q2.

The number of auction rate securities rate resets totaled 1,453 in 2018:Q2 compared to 1,892 resets in 2017:Q2.

Municipal Market Disclosures

The number of continuing disclosure documents received by the MSRB totaled 35,900 in 2018:Q2, compared to 37,641 documents in the same period of 2017.

Municipal Market Trade Summary

Transaction Summary

Total par amount traded in \$ millions

	2018:Q2
Total	814,707.9
By Trade Type	
Customer Bought	409,760.0
Customer Sold	264,800.0
Inter-Dealer	140,147.9
By Coupon Type	
Fixed Rate	477,260.6
Variable Rate	272,618.2
Zero Coupon	20,670.8
Other ¹	44,158.3

By Source of Repayment	
General Obligation	210,514.7
Revenue	552,123.5
Double Barrel	18,864.7
Other ¹	33,205.0

By Tax Status	
Tax Exempt	675,648.4
Taxable	55,105.7
AMT	51,282.0
Other ¹	32,671.8

 $^{^{\,1}}$ Includes municipal commercial paper and issues that could not be categorized based on available data.

Municipal Market Trade Summary

Transaction Summary

Total number of trades

	2018:Q2
Total	2,597,287
By Trade Type	
Customer Bought	1,006,445
Customer Sold	590,991
Inter-Dealer	999,851

By Coupon Type	
Fixed Rate	2,436,305
Variable	94,244
Zero Coupon	61,759
Other ¹	4,979

By Source of Repayment	
General Obligation	966,864
Revenue	1,540,477
Double Barrel	86,222
Other ¹	3,724

By Tax Status	
Tax Exempt	2,409,611
Taxable	150,168
AMT	34,013
Other ¹	3,495

 $^{^{\}rm 1}$ Includes municipal commercial paper and issues that could not be categorized based on available data.

Top 50 Most Active Securities, 2018:Q2 By par amount

					Par Amount	Number of _
Rank	CUSIP ¹	Issuer Name	Coupon	Maturity	(\$ Millions)	Trades
1	270777AC9	EAST BATON ROUGE PARISH LA INC INDL DEV BRD REV	-	8/1/2035	4,505.6	188
2	402207AD6	GULF COAST INDL DEV AUTH TEX REV	-	11/1/2041	3,337.7	356
3	60528AAS3	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	-	12/1/2030	3,030.0	103
4	882724DQ7	TEXAS ST	4.00	8/30/2018	2,672.0	1,111
5	888808HT2	TOBACCO SETTLEMENT FING CORP N J	5.00	6/1/2046	1,634.0	387
6	467229AF7	JACKSON CNTY MISS PORT FAC REV	-	6/1/2023	1,532.6	117
7	13063DGD4	CALIFORNIA ST	4.50	4/1/2033	1,532.2	263
8	64966G4Q2	NEW YORK N Y	-	4/1/2035		133
9	270777AD7	EAST BATON ROUGE PARISH LA INC INDL DEV BRD REV	-	12/1/2040	1,466.9	127
10	548351AC9	LOWER NECHES VALLEY AUTH TEX INDL DEV CORP REV	-	11/1/2038	1,438.3	195
11	821697L23	SHELBY CNTY TENN HEALTH EDL & HSG FACS BRD REV	-	6/1/2042	1,430.1	88
12		LOS ANGELES CALIF	4.00	6/27/2019	1,331.8	376
13		NEW YORK N Y	-	10/1/2046	1,318.6	112
14		MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV	-	12/1/2037	1,300.4	178
15	64966LCJ8	NEW YORK N Y	-	8/1/2038		320
16		SHELBY CNTY TENN HEALTH EDL & HSG FACS BRD REV	-	6/1/2042	1,180.1	112
17		MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	_	11/1/2035	1,177.7	285
18		NEW YORK N Y	-	3/1/2042	1,175.7	115
19		MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	-	12/1/2030	1,139.4	74
20		RUTGERS ST UNIV N J	-	5/1/2039	1,122.0	64
21		GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV	_	6/1/2047	1,119.5	38
22	130534XA3	CALIFORNIA POLLUTN CTL FING AUTH POLLUTN CTL REV	_	11/1/2026	1,092.0	123
23		LINCOLN CNTY WYO POLLUTN CTL REV	_	10/1/2044	1,088.7	104
24		NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV	_	8/1/2041	1,087.5	107
25	759861EJ2	RENO NEV SALES TAX REV	_	7/1/2058	1,083.0	80
26		NEW YORK N Y	-	4/1/2042	1,044.6	317
27		NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	-	6/15/2025	1,041.5	136
28		MASSACHUSETTS ST	_	3/1/2026		210
29		NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	_	6/15/2049	1,024.6	122
30		ILLINOIS FIN AUTH REV	_	8/15/2042		118
31		MASSACHUSETTS ST	_	12/1/2030		113
32		CALIFORNIA ST	_	5/1/2033		85
33		MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV	_	11/1/2049	979.6	240
34		NEW YORK N Y	-	6/1/2044	977.4	133
35		NEW YORK N Y	_	4/1/2036	954.4	115
36		PHOENIX ARIZ INDL DEV AUTH HEALTH CARE FACS REV	-	11/15/2052	949.7	117
37		CALIFORNIA ST	4.60	4/1/2038	941.0	278
38		ARIZONA HEALTH FACS AUTH REV	4.00	1/1/2046	938.0	176
39		MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV		12/1/2030	930.9	95
40		ILLINOIS ST	5.10	6/1/2033	930.9	557
40		NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	3.10	6/15/2039	919.3	92
42		MICHIGAN ST STRATEGIC FD LTD OBLIG REV	-	12/1/2042	913.3	79
		LOS ANGELES CNTY CALIF	4.00		906.3	174
43		MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	4.00	6/28/2019 11/1/2035	906.3	126
			-			
45 46	544495DL5	LOS ANGELES CALIF DEPT WTR & PWR REV METROPOLITAN TRANSN AUTH N Y DEDICATED TAX FD	-	7/1/2034 11/1/2031	901.9 894.9	267 195
	64972F6V3				894.9 893.4	
47		NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	-	6/15/2045		79
48		PHOENIX ARIZ INDL DEV AUTH HEALTH CARE FACS REV	-	11/15/2052	889.6 971.2	242
49		NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	-	6/15/2044	871.2	92
50	11821/AX6	BUCKEYE OHIO TOB SETTLEMENT FING AUTH	-	6/1/2052	866.2	73

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Top 50 Most Active Securities, 2018:Q2 By number of trades

Representation						Par Amount	Number of
G192526974 NEW YORK N N CITY MAIN YITE FIN AUTH WITE & SWR SYS REV 3.53 6/15/2088 185.0 2.021	Rank	CUSIP ¹	Issuer Name	Coupon	Maturity	(\$ Millions)	Trades
4	1	70914PN32	PENNSYLVANIA ST	3.75	3/1/2039	178.6	2,345
4 745/2014C3 DEFETOR INCO SALES TAX FING CORP SALES TAX REV 0.05 8/1/2018 580.5 1,406 61966MZT9 NEW YORK N.Y 3.38 4/1/2028 177.4 1,220 1,305 1,306 1,3	2	64972GPY4	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	3.63	6/15/2048	185.0	2,021
5 494759PE7 NING CNITY WASH HSG AUTH HSG REV 3,75 5,71/2038 113,0 1,261 6 6496RMT N REW YORK N Y 3,38 4,1/1028 17.74 1,220 7 613603YZ6 A0NATGOMERY CNITY PA HIGHER ED & HEALTH AUTH REV 4,00 9/1/2049 17.72 1,120 8 882724DQ7 TEXAS ST 4,00 8/30/2018 2,672.0 1,111 9 560010A03 NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5,00 57/1/2019 521.3 1,088 10 850269FAS SPRINGDALE ARK SALES & USE TIXX REV 3,60 4/7/2041 17.46 1,042 11 50637AMPA MISSOURL ST HEALTH & ELDE ACS AUTH HEALTH FACS REV 4,00 6/1/2048 106.6 97.4 12 914232087 UNIVERSITY CONN 4,00 4/15/2038 108.9 950 13 22509FMB CHAWPORD ONTY PA INIO, DEV AUTH COLLEGE REV 4,00 1/11/2048 88.8 738 14 57582RSN7 MASSACHUSETTS ST 3,63 5/12/2043 55.7 725 15 60637AMWP MISSOURD ST HEALTH & EDLE FACS AUTH HEALTH FACS REV 4,00 1/15/2048 27.28 69.6 16 649372R884 ELW YORK N Y CUTY TRANSITIONAL FIN AUTH BLDG AID REV 3,63 7/15/2047 39.5 620 17 13063AGS CALIFORNIA ST 7.55 4/1/2039 425.7 6.10 18 717883VG4 PHILADELPHIA PA SCH DIST 4,00 9/1/2048 97.8 604 19 3741930H4 MARYLAND ST 4.01	3	64966MA33	NEW YORK N Y	3.50	4/1/2046	696.6	1,457
6 64966MZT9 NEW YORK N Y 7 61309/76 ADMITCOMERY CHTY PA HIGHER ED & HEALTH AUTH REV 4.00 8/30/2018 2.672.0 1.1.120 8 882724DQ7 TEXAS ST 9 650010A03 NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5.00 6/1/2019 52.1.3 1.008 10 8500269625 SPRINGDEL ARRY SALES & USE TAX REV 11 60637AMP4 MISSOURI ST HEALTH & ED L FACS AUTH HEALTH FACS REV 4.00 6/1/2048 15.0.6 974 12 91423028 UNIVERSITY CONN 4.00 6/1/2048 15.0.6 974 13 22500PBRS CARMFORD CHTY PA INDL DEV AUTH COLLEGE REV 4.00 11/1/2048 88.8 738 13 22500PBRS CARMFORD CHTY PA INDL DEV AUTH COLLEGE REV 4.00 11/1/2048 88.8 738 14 75782873V MASSACHUSETTS ST 5.00 6637AMP4 MISSOURI ST HEALTH & ED L FACS AUTH HEALTH FACS REV 5.00 11/1/2048 88.8 738 14 75782873V MASSACHUSETTS ST 5.00 6637AMP4 MISSOURI ST HEALTH & ED L FACS AUTH HEALTH FACS REV 5.00 11/1/2048 87.2 666 5.00 11/1/2048 87.2 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2048 87.2 67.0 666 5.00 11/1/2049 47.2 67.0 666 5.00 11/1/2049 47.2 67.0 666 5.00 11/1/2049 47.2 67.0 666 5.00 11/1/2049 47.2 67.0 666 5.00 11/1/2049 47.2 67.0 666 5.00 11/1/2049 47.2 67.0 666 5.00 11/1/2049 47.2 67.0 666 5.00 11/1/2049 47.2 67.0 666 5.00 11/1/2048 47.2 67.0 666 5.00 11/1/2048 47.2 67.0 666 5.00 11/1/2048 47.2 67.0 666 5.00 11/1/2048 47.2 67.0 666 5.00 11/1/2048 57.2 67.0 666 5.00 11/1/2048 57.2 67.0 666 5.00 11/1/2048 57.2 67.0 666 5.00 11/1/2048 57.2 67.0 666 5.00 11/1/2048 57.2 67.0 666 5.00 11/1/2048 57.2 67.0 666 5.00 11/1/2048 57.2 67.0 666 5.00 11/1/2048 57.2 67.0 666 5.00 11/1/2048 57.2 67.0 666 5.00 11/1/2048 57.2 67.0 666 5.00 11/1/2048 57.2 67.0 6666 5.00 11/1/2048 57.0 6666 5.00 11/1/2048 57.0 6666 5.00 11/1/2048 57.0 6666 5.0	4	74529JAC9	PUERTO RICO SALES TAX FING CORP SALES TAX REV	6.05	8/1/2036	580.6	1,406
7 613603YZG MONTGOMERY CNITY PA HIGHER ED & HEALTH AUTH REV 4,00 \$/1/2049 177.2 1,120 8 82224DQT TEXAS ST 4,00 \$/1/2019 2,672.0 1,111 9 650010AD3 NEW YORK STTWY AUTH GEN REV JR INDBT OBLIGS 5,00 5/1/2019 521.3 1,008 10 88225PAS SPRINGDALE ARK SALES & USETAX REV 4,00 4/1/2041 176.6 1,042 11 5057AMPH MISSODRES CRAWPORD STHEALTH & EDL FACE AUTH HEALTH FACS REV 4,00 4/15/2038 10.89 950 12 250PPERS CRAWPORD CNTY PA INDL DEV AUTH COLLEGE REV 4,00 4/15/2038 10.89 950 14 5758ZRSIN MASSACHUSETTS ST 3,63 5/1/2043 55.7 725 15 6637AMWS MISSOURIS ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4,00 1/15/2048 272.8 666 16 1497ZHIKSB NEW YORK N Y CTTY TRANSITIONAL FIN AUTH BLDG AID REV 7,55 4/1/2039 425.7 601 18 7178B3YGG PHILADELIPHIA PA SCH DIST 3,63 7/1/	5	494759PE7	KING CNTY WASH HSG AUTH HSG REV	3.75	5/1/2038	113.0	1,261
8 8827ZADQ7 TEXAS ST 9 65010AD2 NOV YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5 5.00 5/1/2019 52.1.2 1.088 10 850269FAS SPRINGDALF ARK SALES & USE TAX REV 3.60 4/1/2041 174.6 1.002 11 60637AMPM MISSOURI ST HEALTH & ELD FACS AUTH HEALTH FACS REV 4.00 6/1/2048 150.6 974 12 91423097 UNIVERSITY CONN 4.00 4/15/2038 108.9 995 13 22500PBKS CRAWFORD CHTY PA INDL DEV AUTH COLLEGE REV 4.00 11/1/2048 88.8 738 14 57S28EXN MASSACHUSETTS ST 16 66637AMMY MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 11/1/2048 88.8 738 15 66637AMMY MISSOURI ST HEALTH & FOL FACS AUTH HEALTH FACS REV 4.00 11/1/2048 88.8 738 16 66927HR89 NEW YORK NY CITY TRANSITIONAL FIN AUTH BLDG AID REV 17 13063A565 CALIFORNIA ST 18 717883WGH PHILADELPHIA PASCH DIST 18 717883WGH PHILADELPHIA PASCH DIST 20 13063BFUS CALIFORNIA ST 21 57421849 MARY ANALD ST HEALTH & HIGHER EDL FACS AUTH REV 22 426120PS9 HENRICO CNTY VA WTE & SWR REV 23 64972COLD PICK WORK NY CITY TRANSITIONAL FIN AUTH WTR & SWR SYS REV 24 452151ERS (LLINOIS ST 25 1421849 MARYLAND ST HEALTH & HIGHER EDL FACS AUTH REV 4.00 7/1/2048 151.8 587 26 66657AMMY MISSOURI ST HEALTH & SWR REV 27 64972COLD PICK WORK NY CITY MUN WTR FIN AUTH WTR & SWR SYS REV 28 142319 MARYLAND ST HEALTH & SWR REV 29 64972COLD PICK WORK NY CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.50 6/1/2041 77.2 0 549 452151ERS (LLINOIS ST 45 66657AMMY) MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 1/1/2058 25.3 557 44710145 PRINCE GEORGES CNTY MD 3.75 6/1/2041 77.2 0 549 4710146 PRINCE GEORGES CNTY MD 3.75 6/1/2043 33.7 581 31 6/1/2043 39.5 54 557 6/1/2043 39.7 532 57 1/1/2048 39.7 532 57 1/1/2048 39.7 532 57 1/1/2049 MARYLAND ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 1/1/2058 26.5 557 649313AA2 NEW JERSEY ECONOMIC DEV AUTH ST PENSION FOG REV 4.01 1/1/2058 39.9 54 57 1/1/2049 MARYLAND ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 1/1/2045 79.1 540 57 1/1/2045 PRINCE GEORGES CNTY MD 57 1/1/2041 77.2 0 549 57 1/1/2049 MARYLAND ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 1/1/2045 33.9 54 57 1/1/2045 PRINCE GEORGES CN	6	64966MZT9	NEW YORK N Y	3.38	4/1/2038	177.4	1,220
9 650010AD3 NEW YORK STTWY AUTH GEN REV JI NIDORT OBLIGS 5.0.0 5/1/2019 521.3 1,088 108 50256BAS SPRINGDALE ARK SALES & USE TAX REV 3.60 4/1/2041 174.6 1,042 11 66057AMPH MISSOURI ST HEALTH & EDL FACK SAUTH HEALTH FACS REV 4.0.0 6/1/2048 150.6 974 175 12 9142330B7 UNIVERSITY CONN 4.00 4/15/2038 108.9 950 11 2 12 1942330B7 UNIVERSITY CONN 4.00 4/15/2038 108.9 950 11 2 12 12 12 12 12 12 12 12 12 12 12 1	7	613603YZ6	MONTGOMERY CNTY PA HIGHER ED & HEALTH AUTH REV	4.00	9/1/2049	177.2	1,120
10 \$50269EAS SPRINGIDALE ARK SALES & USE TAX REV	8	882724DQ7	TEXAS ST	4.00	8/30/2018	2,672.0	1,111
11	9	650010AD3	NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS	5.00	5/1/2019	521.3	1,088
12 934233037 UNIVERSITY CONN 4.00 4/15/2038 10.8.9 9.50 13 22500PBK8 CRAWFORD CNTY PA INDL DEV AUTH COLLEGE REV 4.00 11/1/2048 88.8 738 738 735	10	850269EA5	SPRINGDALE ARK SALES & USE TAX REV	3.60	4/1/2041	174.6	1,042
13 252007818 RAWFORD CNTY PA INDL DEV AUTH COLLEGE REV 4.00 11/1/2048 88.8 738 735	11	60637AMP4	MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV	4.00	6/1/2048	150.6	974
14 \$7582R5N7 MASSACHUSETTS ST 3.63 \$5/1/2048 55.7 72.5 15 60637AMW3 MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 11/15/2048 272.8 686 16 6972HR84 NEW YORK N Y CITY TRANSITIONAL FIN AUTH BLDG AID REV 3.63 7/15/2047 39.5 620 17 13063A565 CALIFORNIA ST 7.55 4/1/2039 425.7 610 18 717883VG4 PHILADEPHIA PA SCH DIST 4.00 8/1/2043 97.8 604 19 574193CH4 MARYLAND ST 4.00 8/1/2043 54.3 603 20 13063BFV9 CALIFORNIA ST 7.95 3/1/2036 121.7 599 21 574218419 MARYLAND ST HEALTH & HIGHER EDL FACS AUTH REV 4.00 7/1/2048 151.8 587 22 426170P59 HENRICO CMTV VA WTR & SWR REV 3.63 5/1/2048 33.7 581 23 64972GQP30 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.63 5/1/2040 41.5 580 24 452151ER8 LILINOIS ST 4.00 4.00 4.00 4.00 4.00 4.00 4.00 26 60637AMM9 MISSOURI ST HEALTH & EDL FACS AUTH REV 4.00 1/1/2058 221.3 541 27 645913AA2 NEW JERSEY ECONOMIC DEV AUTH ST PENSION FOG REV 7.43 2/15/2029 339.7 532 28 91423046 NEW JERSEY ECONOMIC DEV AUTH ST PENSION FOG REV 7.43 2/15/203 64.0 5.10 30 107304EC7 BRENTWOOD MC CITS PARTIN 3.50 10/12/043 42.0 5.14 31 847115CCG PARTAMBURG S C REG HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2033 6.25 52.7 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2031 53.6 36 646136UG6 BRENTWOOD MC CITS PARTIN 3.50 10/1/2043 42.0 31 847115CCG PARTAMBURG S C REG LHEALTH SVCS DIST INC HOSP REV 4.00 4/15/2033 6.25 52.7 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2031 53.6 36 64016F14 455 45016	12	914233Q87	UNIVERSITY CONN	4.00	4/15/2038	108.9	950
15 60637AMWS MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 16 64972HK84 NEW YORK N Y CITY TRANSITIONAL FIN AUTH BLDG AID REV 17 130634565 CALIFORNIA ST 17 130634565 CALIFORNIA ST 17 130634565 CALIFORNIA ST 18 717883VG4 PHILADELPHIA PA SCH DIST 19 5741930H4 MARYLAND ST 20 130638F99 CALIFORNIA ST 21 574218419 MARYLAND ST 22 426170PS9 HERRICC CNTY WITR & SWR REV 23 64972GQD9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 24 45151LF8 ILLINOIS ST 25 13033FK74 CALIFORNIA HEALTH FACS FING AUTH REV 26 60637AMN9 MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 27 645913AA2. NEW HERSEY ECONOMIC DEV AUTH ST PENSION FDG REV 28 914233046 UNIVERSITY CONN 29 741701426 PRINCE GEORGES CNTY MD 20 147101426 PRINCE GEORGES CNTY MD 21 847113CG0 SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV 27 6463136406 NEW YERK SY ST TRANSIN THE FIN AUTH WTR & SWR SYS REV 38 64972GQU9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 39 14233046 UNIVERSITY CONN 30 107304ECT RESTITYON 30 107304ECT RESTITYON 30 107304ECT RESTITYON 30 107304ECT RESTITYON 30 107304ECT SERTIMOOD MO CITS PARTN 31 64713CG0 SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV 400 4/15/2033 10.76. 512 31 64972GQU9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 31.3 6/15/2031 53.6 36 6/17/2043 10.76. 512 37 593842CR6 MONTANA FAC FIN AUTH HEALTH FACS REV 40.0 9/1/2048 42.0 31.4 34 646136U66 NEW JERSEY ST TRANSIN TE FO AUTH 42 5 6/15/2044 21.4 491 31 575165ACC MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 40.0 9/1/2048 84.5 471 37 593842CR6 MIAMI WY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 47514LB89 PUERTO RICCO COMMUTH HEALTH FACS REV 40.0 9/1/2048 84.5 471 47514LB89 PUERTO RICCO COMMUTH HEALTH SY REV 40.0 11/1/2053 38.6 442 448 74514B89 PUERTO RICCO COMMUTH HEALTH SY REV 40.0 6/15/2047 21.5 47514LB89 PUERTO RICCO COMMUTH HEALTH SY REV 40.0 6/15/2047 21.5 47514LB89 PUERTO RICCO COMMUTH HEALTH SY REV 40.0 6/15/2047 21.5 47514LB89 PUERTO RICCO COMMUTH HEALTH SY REV 40.0 6/15/2045 31.8 442 448 74514B89 PUERTO RICCO COMMUTH HEALTH SY REV 40.0 6/15	13	22500PBK8	CRAWFORD CNTY PA INDL DEV AUTH COLLEGE REV	4.00	11/1/2048	88.8	738
16 64972HK84 NEW YORK N Y CITY TRANSITIONAL FIN AUTH BLDG AID REV 3.63 7/15/2047 39.5 620 17 13063A505 CALIFORNIA ST 7.55 41/12/039 425.7 610 61	14	57582RSN7	MASSACHUSETTS ST	3.63	5/1/2043	55.7	725
17 1306ASCS CALIFORNIA ST 7.55 4/1/2038 425.7 6.10	15	60637AMW9	MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV	4.00	11/15/2048	272.8	686
18	16	64972HK84	NEW YORK N Y CITY TRANSITIONAL FIN AUTH BLDG AID REV	3.63	7/15/2047	39.5	620
19 \$74193QH4 MARYLAND ST	17	13063A5G5	CALIFORNIA ST	7.55	4/1/2039	425.7	610
20 13063BFV9 CALIFORNIA ST 7.95 3/1/2036 121.7 599 21 574218419 MARYLAND ST HEALTH & HIGHER EDL FACS AUTH REV 3.63 5/1/2048 33.7 581 23 64972GQD9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.63 5/1/2040 41.5 580 24 452151LFB ILLINOIS ST 5.10 6/1/2031 925.4 557 25 13033FK74 CALIFORNIA HEALTH FACS FING AUTH REV 0.98 6/1/2041 772.0 549 26 60637AMN9 MISSOURIST HEALTH FACS FING AUTH REV 4.00 1/1/2058 221.3 541 27 645913AA2 NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV 7.43 2/15/2029 339.7 532 28 914233Q46 UNIVERSITY CONN 3.75 4/15/2033 62.5 527 29 741701426 PRINCE GEORGES CNTY MD 3.25 7/15/2036 40.7 517 30 107304EC7 BRENTWOOD MO CTFS PARTN 3.50 10/1/2043 42.0 514 31 847113CG0 SPARTANBURG S C REGI HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2043 107.6 512 32 64972GQU9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2031 53.6 506 33 61204MCZB MONTANA FAC FIN AUTH HEALTH FACS REV 3.63 66/12043 107.6 512 34 646136U66 NEW JERSEY ST TRANSN TR FD AUTH WTR & SWR SYS REV 3.13 6/15/2031 53.6 506 35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 491 36 627416FJ4 EAST ALA HEALTH CARE AUTH HEALTH CACS REV 4.00 12/1/2044 81.4 473 37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SWR SWR SYS REV 4.00 9/1/2048 84.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.00 6/15/2047 29.5 471 39 34074GDH4 PRINCE CORDINATH HEALTH SYS REV 4.00 6/15/2047 29.5 471 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 6/15/2047 29.5 471 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 6/15/2047 29.5 471 43 405815UB HALIFAX HOSP MED CTR FIA HOSP REV 4.00 6/15/2047 21.5 049 44 89546RPW0 TRICKO COMWLTH HEALTH SYS REV 4.00 6/15/2047 21.5 049 45 20772KCV9 CONNECTICUT ST 4.00 6/15/2046 66.6 445 47519DOHB PUETT OR ICO COMWLTH HEALTH SYS REV 4.00 6/15/2049 4.44 48 89546RPW0 TRICKOT COMWLTH HEALTH SYS REV 4.00 6/15/2049 4.44 47 2906414F3 ELYRIA OHIO 4.00 6/15/2049 9.5 441 49 3597966K9 FULLETATO NOTE THE AHOSP REV 4.	18	717883VG4	PHILADELPHIA PA SCH DIST	4.00	9/1/2043	97.8	604
21 5742184J9 MARYLAND ST HEALTH & HIGHER EDL FACS AUTH REV 4.00 7/1/2048 15.1.8 587 22 426170P59 HENRICO CNTY VA WTR & SWR REV 3.63 5/1/2048 33.7 581 23 64972GQD9 NEW YORK NY CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.50 6/15/2040 41.5 580 24 452151LFB ILLINOIS ST 5.10 6/1/2033 925.4 557 25 13033FX74 CALIFORNIA HEALTH FACS FING AUTH REV 0.88 6/1/2041 772.0 549 26 60637AMN9 MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 11/2058 221.3 541 27 645913AA2 NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV 7.43 2/15/2029 339.7 532 28 914233Q46 UNIVERSITY CONN 3.75 4/15/2033 62.5 527 7417014Z6 PRINCE GEORGES CNTY MD 3.25 7/15/2036 40.7 517 30 107304EC7 BRENTWOOD MO CTES PARTN 3.50 10/1/2043 42.0 514 31 847113CG0 SPARTANBURG S C REGI HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2043 107.6 512 32 64972GQV9 NEW YORK NY CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2031 53.6 506 33 61204MCZB MONTANA FAC FIN AUTH HEALTH FACS REV 3.63 6/1/2043 51.2 492 34 66438GU66 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 21.4 491 35 575165AC9 MONTANA FAC FIN AUTH HEALTH CARE FACS REV 4.00 12/1/2044 81.4 473 36 270416FI4 EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV 4.00 9/1/2048 84.5 471 37 593842CR6 MIAMI V CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH CARE FACS REV 4.00 9/1/2048 84.5 471 37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 42 08451PAWI BRESKY ST TRANSN TR FD AUTH HEALTH SWR SYR SY REV 4.00 6/15/2047 21.5 0 459 41 74514LB89 PUERTO RICC OOMWLTH HEALTH SYS REV 4.00 6/15/2047 21.5 0 459 41 74514LB89 PUERTO RICC OOMWLTH HEALTH SYS REV 4.00 6/15/2047 21.5 0 459 41 74514LB89 PUERTO RICC OOMWLTH HEALTH SYS REV 4.00 6/15/2045 20.5 0 450 42 08451PAWI BRESKY ST TRANSN DIST ORE REV 4.00 6/15/2045 20.5 0 450 43 405815LB HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/15/2045 20.5 0 450 44 88546RPVO TRI-CNTY MET TRANSN DIST ORE REV 4.00 6/15/2045 20.0 450 45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 6.6 6.454 46 745190DHB PUERTO RICC COMWLTH HWY & TRANSN AUTH TRANSN REV	19	574193QH4	MARYLAND ST	3.13	3/15/2033	54.3	603
22 426170PS9 HENRICO CNTY VA WTR & SWR REV 3.63 \$5/1/2048 33.7 581 23 64972GQD9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.50 6/15/2040 41.5 580 24 452151LF8 ILLINOIS ST 5.10 6/12041 772.0 549 26 60637AMN9 MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 1/1/2058 221.3 541 27 645913AA2 NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV 7.43 2/15/2029 339.7 532 28 914233Q46 UNIVERSITY CONN 3.75 4/15/2033 62.5 527 29 741701426 PRINCE GEORGES CNTY MD 3.25 7/15/2036 40.7 517 30 107304ECT BRENTWOOD MO CTES PARTN 3.50 10/1/2043 42.0 514 31 847113CGO SPARTANBURG SC REGL HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2043 107.6 512 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2041 53.6 506 33 61204MCZB M	20	13063BFV9	CALIFORNIA ST	7.95	3/1/2036	121.7	599
23 64972GQD9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 24 45215LIFB ILLINOIS ST 25 13033FK74 CALIFORNIA HEALTH FACS FING AUTH REV 3.6 66637AMN9 MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 1/1/2058 221.3 541 27 645913AAZ NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV 7.43 2/15/2029 339.7 532 28 914233Q46 UNIVERSITY CONN 3.75 4/15/2033 62.5 527 741701426 PRINCE GEORGES CNTY MD 3.25 7/15/2036 40.7 517 30 107304EC7 BRENTWOOD MO CITS PARTN 3.50 10/3204EC7 BRENTWOOD MO CITS PARTN 3.50 10/3204B 42.0 514 31 847113CG0 SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2043 107.6 512 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 61204MC28 MONTANA FAC FIN AUTH HEALTH FACS REV 3.63 61204MC28 MONTANA FAC FIN AUTH HEALTH FACS REV 3.63 66136U66 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 21.4 491 35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2048 84.5 471 37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 6788XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYREV 4.10 6/15/2047 29.5 471 38 6788XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYREV 4.10 6/15/2047 29.5 471 42 08451PAWI BERKS CNTY PA INDL DEV AUTH HEALTH SY REV 4.11 88/15/2057 35.4 462 39 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 4.00 12/1/2047 29.5 471 47451LBB9 PUERTO RICO COMWLTH 4.25 06/15/2047 215.0 459 41 7451LBB9 PUERTO RICO COMWLTH 4.26 08451PAWI BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 11/1/2047 110.6 451 43 405815LB HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/15/2047 215.0 459 41 7451LBB9 PUERTO RICO COMWLTH HWTR & SWR SYS REV 4.00 6/15/2046 52.0 450 44 89546RPVO TRI-CNTY MET TRANSN DIST ORE REV 4.00 6/15/2036 66.6 64.45 46 745190DHB PUERTO RICO COMWLTH HWY & TRANSN REV 4.00 6/15/2036 66.6 64.45 46 745190DHB PUERTO RICO COMWLTH HWY & TRANSN REV 4.75 7/1/2038 44.4 444 47 290641473 ELYRIA OHIO 44.94 48 745235837 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 290641473 ELYRIA OHIO 64.01 51.71/2042 31.8 432	21	5742184J9	MARYLAND ST HEALTH & HIGHER EDL FACS AUTH REV	4.00	7/1/2048	151.8	587
24 452151LF8 ILLINOIS ST 5.10 6/1/2033 925.4 557 25 13033FK74 CALIFORNIA HEALTH ASC FING AUTH REV 0.98 6/1/2041 772.0 549 26 60637AMN9 MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 1/1/2058 221.3 541 27 645913AA2 NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV 7.43 2/15/2029 339.7 532 28 914233Q46 UNIVERSITY CONN 3.75 4/15/2033 62.5 527 29 741701426 PRINCE GEORGES CNTY MD 3.25 7/15/2036 40.7 517 30 107304EC7 BRENTWOOD MO CITS PARTN 3.50 10/1/2043 42.0 514 31 847113CG0 SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2043 107.6 512 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2043 107.6 512 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH HEALTH CARE CREV 3.6	22	426170PS9	HENRICO CNTY VA WTR & SWR REV	3.63	5/1/2048	33.7	581
25 13033FK74 CALIFORNIA HEALTH FACS FING AUTH REV 26 60637AMM9 MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 37 645913AA2 NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV 38 914233Q46 UNIVERSITY CONN 3.75 4/15/2029 339.7 532 39 741701426 PRINCE GEORGES CNTY MD 3.25 7/15/2036 40.7 517 30 107304EC7 BRENTWOOD MO CTES PARTN 3.50 10/1/2043 42.0 514 31 847113CG0 SPARTANBURG SC REGL HEALTH SVCS DIST INC HOSP REV 3.64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.6401666 NEW JERSEY ST TRANSN TR FD AUTH 3.5575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 491 3.5 757165AC9 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.00 4/15/2048 84.5 471 37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.00 4972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.01 12/1/2047 29.5 471 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.03 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 4.04 064972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.05 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 215.0 459 41 74514LB89 PUERTO RICO COMWLTH 42 084515LB8 HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/15/2034 30.7 446 45 20772KCV9 CONNECTICUT ST 45 406414F3 ELYRIA OHIO 4.00 6/15/2036 66.6 445 467 7451990H8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 33.6 442 48 745235R37 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 33.6 6.25 527 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF IT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	23	64972GQD9	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	3.50	6/15/2040	41.5	580
26 60637AMN9 MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV 4.00 1/1/2058 221.3 541 27 645913AA2 NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV 7.43 2/15/2029 339.7 532 28 914233Q46 UNIVERSITY CONN 3.75 4/15/2033 62.5 527 29 741701426 PRINCE GEORGES CNTY MD 3.25 7/15/2036 40.7 517 30 107304EC7 BRENTWOOD MO CTFS PARTN 3.50 10/1/2043 42.0 514 31 847134G0 SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2043 107.6 512 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.63 6/12/2043 51.2 492 34 646136U66 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 21.4 491 35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 473 36 67884XCM7 GASA SARACM7 SASA ALA HEALTH CARE AUTH HE	24	452151LF8	ILLINOIS ST	5.10	6/1/2033	925.4	557
27 645913AA2 NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV 7.43 2/15/2029 339.7 532 28 914233Q46 UNIVERSITY CONN 3.75 4/15/2033 62.5 527 29 741701426 PRINCE GEORGES CNTY MD 3.25 7/15/2036 40.7 517 30 107304EC7 BRENTWOOD MO CTES PARTN 3.50 10/1/2043 42.0 514 31 847113CG0 SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2043 107.6 512 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2031 53.6 506 33 61204MCZ8 MONTANA FAC FIN AUTH HEALTH FACS REV 3.63 6/12/2043 51.2 492 34 646136U66 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 21.4 491 35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 473 36 270416FJ4 EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV 4.00 <td>25</td> <td>13033FK74</td> <td>CALIFORNIA HEALTH FACS FING AUTH REV</td> <td>0.98</td> <td>6/1/2041</td> <td>772.0</td> <td>549</td>	25	13033FK74	CALIFORNIA HEALTH FACS FING AUTH REV	0.98	6/1/2041	772.0	549
28 914233Q45 UNIVERSITY CONN 3.75 4/15/2033 62.5 527 29 741701426 PRINCE GEORGES CNTY MD 3.25 7/15/2036 40.7 517 30 107304EC7 BRENTWOOD MO CTFS PARTN 3.50 10/1/2043 42.0 514 31 84713CO3 SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2043 107.6 512 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2031 53.6 506 33 61204MC28 MONTANA FAC FIN AUTH HEALTH FACS REV 3.63 6/12/043 51.2 492 34 646136U66 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 21.4 491 35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 473 36 270416FJ4 BAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV 4.00 9/1/2048 84.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 40 64972GBA1	26	60637AMN9	MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV	4.00	1/1/2058	221.3	541
29 741701426 PRINCE GEORGES CNTY MD 3.25 7/15/2036 40.7 517 30 107304EC7 BRENTWOOD MO CTES PARTN 3.50 10/1/2043 42.0 514 31 847113CG0 SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2043 107.6 512 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2031 53.6 506 33 61204MC28 MONTANA FAC FIN AUTH HEALTH FACS REV 3.63 6/1/2043 51.2 492 34 646136U66 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 21.4 491 35 575165AC9 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 81.4 473 36 270416F14 EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV 4.00 9/1/2048 84.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 39 34074GDH4 FLORIOAU DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 21.50 459 PUERTO RICO COMWLTH AUTH WTR & SWR SYS REV 4.00 6/15/2047 21.50 459 PUERTO RICO COMWLTH AUTH HEALTH SYS REV 4.00 6/15/2047 21.50 459 PUERTO RICO COMWLTH HEALTH SYS REV 4.00 6/15/2047 21.50 459 PUERTO RICO COMWLTH HEALTH SYS REV 4.00 6/15/2047 21.50 459 PUERTO RICO COMWLTH HEALTH SYS REV 4.00 6/15/2047 21.50 459 PUERTO RICO COMWLTH HEALTH SYS REV 4.00 6/15/2047 21.50 459 PUERTO RICO COMWLTH HEALTH SYS REV 4.00 6/15/2047 21.50 459 PUERTO RICO COMWLTH HEALTH SYS REV 4.00 6/15/2047 21.50 459 PUERTO RICO COMWLTH HEALTH SYS REV 4.00 6/15/2047 21.50 459 PUERTO RICO COMWLTH HEALTH SYS REV 4.00 6/15/2046 52.0 450 450 450 450 450 450 450 450 450 45	27	645913AA2	NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV	7.43	2/15/2029	339.7	532
29 741701426 PRINCE GEORGES CNTY MD 3 .25 7/15/2036 40.7 517 30 107304EC7 BRENTWOOD MO CTES PARTN 31 847113CG0 SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 33 61204MC28 MONTANA FAC FIN AUTH HEALTH FACS REV 34 646136U66 NEW JERSEY ST TRANSN TR FD AUTH 35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 473 36 270416FJ4 EAST ALA HEALTH CARE AUTH HEALTH SYS REV 4.00 9/1/2048 84.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.00 9/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.00 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.13 8/15/2057 35.4 462 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 21.5 459 41 74514LB89 PUERTO RICO COMWLTH 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 43 405815LB HALIFAX HOSP MED CTR FLA HOSP REV 44 89546RPV0 TRI-CNTY MET TRANSN DIST ORE REV 45 20772KCV9 CONNECTICUT ST 46 47 2906414F3 ELYRIA OHIO 47 2906414F3 ELYRIA OHIO 48 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 43 89796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 43 895996GK9 FULLERTON CALIF JT UN HIGH SCH DIST 43 895496GK9 512 7412023 31.8 432	28	914233Q46	UNIVERSITY CONN	3.75	4/15/2033	62.5	527
31 847113CG0 SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV 4.00 4/15/2043 107.6 512 32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2031 53.6 506 33 61204MCZ8 MONTANA FAC FIN AUTH HEALTH FACS REV 3.63 6/1/2043 51.2 492 34 64613GU66 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 21.4 491 35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 473 36 270416FI4 EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV 4.00 9/1/2048 84.5 471 37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 39 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 3.00 7/1/2020 160.9 460 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 215.0 459	29	7417014Z6	PRINCE GEORGES CNTY MD	3.25			
32 64972GQV9 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 3.13 6/15/2031 53.6 506 33 61204MC28 MONTANA FAC FIN AUTH HEALTH FACS REV 3.63 6/12043 51.2 492 34 646136U66 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 21.4 491 35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 473 36 270416FJ4 EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV 4.00 9/1/2048 84.5 471 37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 39 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 3.00 7/1/2020 160.9 460 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 215.0 459 41 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 120.7 454 42<	30	107304EC7	BRENTWOOD MO CTFS PARTN	3.50	10/1/2043	42.0	514
33 61204MC28 MONTANA FAC FIN AUTH HEALTH FACS REV 3.63 6/1/2043 51.2 492 34 646136U66 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 21.4 491 35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 473 36 270416FJ4 EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV 4.00 9/1/2048 84.5 471 37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 39 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 3.00 7/1/2020 160.9 460 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 215.0 459 41 74514LB89 DEVERTO RICO COMWLTH 5.00 7/1/2041 120.7 454 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 6/15/2046 52.0 450 43	31	847113CG0	SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV	4.00	4/15/2043	107.6	512
34 646136U66 NEW JERSEY ST TRANSN TR FD AUTH 4.25 6/15/2044 21.4 491 35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 473 36 270416FJ4 EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV 4.00 9/1/2048 84.5 471 37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 6788XXCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 39 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 3.00 7/1/2020 160.9 460 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 215.0 459 41 74514LB89 PUERTO RICO COMWILTH 5.00 7/1/2041 120.7 454 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 11/1/2047 110.6 451 43 405815LI8 HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/1/2046 52.0 450 45	32	64972GQV9	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	3.13	6/15/2031	53.6	506
35 575165AC9 MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV 4.00 12/1/2044 81.4 473 36 270416FJ4 EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV 4.00 9/1/2048 84.5 471 37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 39 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 3.00 7/1/2020 160.9 460 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 215.0 459 41 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 120.7 454 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 6/1/2046 52.0 450 44 89546RPV0 TRI-CNTY MET TRANSN DIST ORE REV 3.25 10/1/2034 30.7 446 45 20772KCV9 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 46 7	33	61204MCZ8	MONTANA FAC FIN AUTH HEALTH FACS REV	3.63	6/1/2043	51.2	492
36 270416FJ4 EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV 4.00 9/1/2048 84.5 471 37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 39 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 3.00 7/1/2020 160.9 460 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 215.0 459 41 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 120.7 454 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 11/1/2047 110.6 451 43 405815LJ8 HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/1/2046 52.0 450 44 89546RPV0 TRI-CNTY MET TRANSN DIST ORE REV 3.25 10/1/2034 30.7 446 45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 66.6 445 46 745190DH8 <td< td=""><td>34</td><td>646136U66</td><td>NEW JERSEY ST TRANSN TR FD AUTH</td><td>4.25</td><td>6/15/2044</td><td>21.4</td><td>491</td></td<>	34	646136U66	NEW JERSEY ST TRANSN TR FD AUTH	4.25	6/15/2044	21.4	491
37 593842CR6 MIAMI VY CAREER TECHNICAL CTR OHIO 3.75 12/1/2047 29.5 471 38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 39 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 3.00 7/1/2020 160.9 460 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 215.0 459 41 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 120.7 454 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 11/1/2047 110.6 451 43 405815LIB HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/1/2046 52.0 450 44 89546RPV0 TRI-CNTY MET TRANSN DIST ORE REV 3.25 10/1/2034 30.7 446 45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 66.6 445 46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 <	35	575165AC9	MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV	4.00	12/1/2044	81.4	473
38 67884XCM7 OKLAHOMA DEV FIN AUTH HEALTH SYS REV 4.13 8/15/2057 35.4 462 39 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 3.00 7/1/2020 160.9 460 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 215.0 459 41 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 120.7 454 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 11/1/2047 110.6 451 43 405815LJ8 HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/1/2046 52.0 450 44 89546RPV0 TRI-CNTY MET TRANSN DIST ORE REV 3.25 10/1/2034 30.7 446 45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 66.6 445 46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD	36	270416FJ4	EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV	4.00	9/1/2048	84.5	471
39 34074GDH4 FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV 40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 41 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 120.7 454 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 43 405815LI8 HALIFAX HOSP MED CTR FLA HOSP REV 44 8954GRPV0 TRI-CNTY MET TRANSN DIST ORE REV 45 20772KCV9 CONNECTICUT ST 46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 4.59	37	593842CR6	MIAMI VY CAREER TECHNICAL CTR OHIO	3.75	12/1/2047	29.5	471
40 64972GBA1 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 4.00 6/15/2047 215.0 459 41 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 120.7 454 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 11/1/2047 110.6 451 43 405815LJ8 HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/1/2046 52.0 450 44 89546RPV0 TRI-CNTY MET TRANSN DIST ORE REV 3.25 10/1/2034 30.7 446 45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 66.6 445 46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	38	67884XCM7	OKLAHOMA DEV FIN AUTH HEALTH SYS REV	4.13	8/15/2057	35.4	462
41 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 120.7 454 42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 11/1/2047 110.6 451 43 405815LJ8 HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/1/2046 52.0 450 44 89546RPV0 TRI-CNTY MET TRANSN DIST ORE REV 3.25 10/1/2034 30.7 446 45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 66.6 445 46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	39	34074GDH4	FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV	3.00	7/1/2020	160.9	460
42 08451PAW1 BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV 4.00 11/1/2047 110.6 451 43 405815LJ8 HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/1/2046 52.0 450 44 89546RPV0 TRI-CNTY MET TRANSN DIST ORE REV 3.25 10/1/2034 30.7 446 45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 66.6 445 46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	40	64972GBA1	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	4.00	6/15/2047	215.0	459
43 405815LJ8 HALIFAX HOSP MED CTR FLA HOSP REV 4.00 6/1/2046 52.0 450 44 89546RPV0 TRI-CNTY MET TRANSN DIST ORE REV 3.25 10/1/2034 30.7 446 45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 66.6 445 46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	41	74514LB89	PUERTO RICO COMWLTH	5.00	7/1/2041	120.7	454
44 89546RPV0 TRI-CNTY MET TRANSN DIST ORE REV 3.25 10/1/2034 30.7 446 45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 66.6 445 46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	42	08451PAW1	BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV	4.00	11/1/2047	110.6	451
45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 66.6 445 46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	43	405815LJ8	HALIFAX HOSP MED CTR FLA HOSP REV	4.00	6/1/2046	52.0	450
45 20772KCV9 CONNECTICUT ST 4.00 6/15/2036 66.6 445 46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	44	89546RPV0	TRI-CNTY MET TRANSN DIST ORE REV	3.25	10/1/2034	30.7	446
46 745190DH8 PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV 4.75 7/1/2038 44.4 444 47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	45	20772KCV9	CONNECTICUT ST	4.00		66.6	445
47 2906414F3 ELYRIA OHIO 4.00 12/1/2053 38.6 442 48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	46			4.75		44.4	444
48 745235R37 PUERTO RICO PUB BLDGS AUTH REV GTD 5.25 7/1/2042 90.5 441 49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432	47						
49 359796GK9 FULLERTON CALIF JT UN HIGH SCH DIST 3.50 8/1/2042 31.8 432							
	50				7/1/2035		

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Top 50 Most Active Fixed Rate¹ Securities, 2018:Q2 By par amount

1 882724007 ITEXAS ST 2 98808PTZ IDBACCO SETTLEMENT FING CORP N J 3 13063DGDL CALIFORNIA ST 4 50 6/1/2008 1,634.0 3 13063DGDL CALIFORNIA ST 4 50 6/1/2008 1,531.8 5 13063DGPZ CALIFORNIA ST 4 50 6/1/2008 1,531.8 5 13063DGPZ CALIFORNIA ST 4 60 4/1/2008 941.0 6 4523SLTF8 ILLINOIS ST 5 15050GPZ CALIFORNIA ST 5 14050GPZ CALIFORNIA ST 5 14050GPZ CALIFORNIA ST 5 15050GPZ CALIF						Par Amount	Number of
2 S88808HTZ TOBACCO SETTLEMENT FING CORP N J 3 13063DGB4 CALIFORNIA ST 4 S445SINT2 LOS ANGELES CALIF 4 S445SINT2 LOS ANGELES CALIF 5 13063DGB2 CALIFORNIA ST 5 1460 67/2039 913.31.8 5 13063DGB2 CALIFORNIA ST 7 S446STHV4 LOS ANGELES CALIF 8 38122ZU29 GOLDR ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5 0.0 6/28/2019 905.3 9 180848XI7 CLARK CNTY NEV 5 0.0 6/1/2007 855.3 9 180848XI7 CLARK CNTY NEV 5 0.0 7/1/2038 776.0 11 2548450A1 DISTRICT COLUMBIA WITR & SWR AUTH PUB UTIL REV 5 0.0 10/1/2049 708.2 12 6/990C7R1 NEW YORK ST DORN AUTH REVS NON ST SUPPORTED DEBT 4 85 71/1/2088 707.9 14 13063DGB8 CALIFORNIA ST 13 635G6MA33 NEW YORK ST OWN AUTH REVS NON ST SUPPORTED DEBT 5 3612PAA2 GRANP PRWY TRANSN CORP TEX 5 0.0 2/1/2023 606.6 1 38612PAA2 GRANP PRWY TRANSN CORP TEX 5 0.0 2/1/2023 606.6 1 38612PAA2 GRANP PRWY TRANSN CORP TEX 5 0.0 6/1/2046 609.6 1 38611PB09 GRANP PARKWY TRANSN CORP TEX SYS TOLL REV 5 0.0 6/1/2046 609.6 1 422152046 ILLINOIS ST 5 0.0 6/1/2046 609.6 1 422152046 ILLINOIS ST 5 0.0 6/1/2045 597.0 1 422152046 ILLINOIS ST 5 0.0 6/1/2045 598.3 1 5063PB08WS CLARK CNTY NEV 5 0.0 7/1/2046 593.3 1 5063PB08WS CLARK CNTY NEV 5 0.0 6/1/2045 593.3 1 5063PB08WS CLARK CNTY NEV 5 0.0 6/1/2045 593.3 1 5063PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 5063PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEV 5 0.0 6/1/2046 509.6 1 50742PB08WS CLARK CNTY NEW S	Rank	CUSIP ²	Issuer Name	Coupon	Maturity	(\$ Millions)	Trades
3 13063DGC CALIFORNIA ST	1	882724DQ7	TEXAS ST	4.00	8/30/2018	2,672.0	1,111
4 \$4351NTZ 105 ANGELES CALIF 4.60 6/27/2019 1,331.8	2	888808HT2	TOBACCO SETTLEMENT FING CORP N J	5.00	6/1/2046	1,634.0	387
5 130630GEZ (ALIPORNIA ST 4.60 4/1/2038 991.40 6 62521SLER ILINDIS ST 5.10 6/1/2039 925.4 7 544657HW LOS ANGELES CNTY CALIF 4.00 6/2/2019 966.3 8 38122RV29 GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.00 6/1/2047 825.5 10 74514LE86 PUERTO RICO COMMUTH 8.00 7/1/2035 776.0 11 25484SQ-AL DISTICT COLUMBIA WTR & SWR AUTH PUB UTIL REV 5.00 10/1/2049 708.2 12 64990CZH1 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 4.85 7/1/2049 708.2 13 64956MA33 NEW YORK NY 3.50 4/1/2046 696.6 1 14 13063DGBB CALIFORNIA ST 3.33 4/1/2046 696.6 1 15 3861ZPAA2 GRAND PKWY TRANSN CORP TEX 5.00 2/1/2026 692.0 16 88860BHB DIBACCO SETTLEMENT FING CORP 5.00 6/1/2046 696.6 1 17 38611TR03 GRAND PARWAY TRANSN CORP TEX SYS TOLL REV 5.00	3	13063DGD4	CALIFORNIA ST	4.50	4/1/2033	1,532.2	263
6 452151LER ILLINOIS ST 7 544657HV4 LOS ANGELES CNTY CALIF 8 38122NZU9 GOLDEN ST TOR SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.00 6/12/2019 906.3 9 180848XI7 CLARK CNTY NEV 1.7452MS 7/12048 855.3 1 7652MS 7/12048 77.7 1 1 254845CA1 DISTRICT COLUMBIA WTR & SWR AUTH PUB UTIL REV 1 1 254845CA1 DISTRICT COLUMBIA WTR & SWR AUTH PUB UTIL REV 2 1 2 64996MA33 NEW YORK N Y 3.50 4/1/2046 695.6 1 1 3 64956MA33 NEW YORK N Y 3.50 4/1/2046 695.6 1 1 3 64956MA33 NEW YORK N Y 3.50 4/1/2043 609.6 1 1 3 64956MA33 NEW YORK N Y 3.50 0 2/1/2043 609.7 1 1 3 8611TB09 GRAND PARKWAY TRANSN CORP TEX 5 0.00 2/1/2043 609.6 1 1 3 8611TB09 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5 0.00 10/1/2043 604.3 1 2 30630GC6 CALIFORNIA ST 5 0.00 10/1/2043 604.3 1 2 30630GC6 CALIFORNIA ST 5 0.00 10/1/2043 604.3 1 2 30630GC6 CALIFORNIA ST 5 0.00 10/1/2043 604.3 1 2 30630GC6 CALIFORNIA ST 5 0.00 10/1/2043 604.3 1 3 361TB09 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5 0.00 10/1/2043 597.0 1 9 452152046 ULINOIS ST 5 0.00 10/1/2043 597.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 10/1/2043 597.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2045 599.3 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2045 599.3 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2045 599.3 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2046 572.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2046 572.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2046 572.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2046 572.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2046 572.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2046 572.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2046 572.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2046 572.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2046 572.0 2 1 80848WKS 1 CAK CNTY NEV 5 0.00 1/1/2046 572.0 2 1 8	4	544351NT2	LOS ANGELES CALIF	4.00	6/27/2019	1,331.8	376
7 S44657HVAL LOS ANGELES CNTY CALIF 4.00 6/28/2019 90.63 8 38122NZU9 GOLDEN ST TOB SECURIZIZATION CORP CALIF TOB SETTLEMENT REV 5.00 6/17047 855.3 9 180846XJ7 CLARK CNTY NEV 5.00 5/17/2048 824.6 10 74514LE66 PUERTO RICO COMMUTH 8.00 7/17/2039 776.0 12 54845CAL DISTRICT COLUMBIA WTR & SWR AUTH PUB UTIL REV 5.00 10/17/2049 706.2 12 64990CTXL NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 4.85 7/1/2048 707.9 14 13063DGBB CALIFORNIAS T 3.50 4/1/2026 666.0 1 14 13063DGBB CALIFORNIAS T 3.38 4/1/2025 658.3 15 38612PAA2 CARRON PRIVY TRANSN CORP TEX 5.00 6/1/2046 606.6 1 17 38611TB09 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2043 604.3 18 13063DCGC CALIFORNIA ST 3.50 4/1/2026 568.3 19 452152QAE LUINOIS ST 5.00 1	5	13063DGE2	CALIFORNIA ST	4.60	4/1/2038	941.0	278
8 38122NZU9 GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.00 5/1/2048 824.6 10 74514LEB6 PUERTO RICO COMWLTH 8.00 7/1/2035 776.0 11 254845CA1 DISTRICT COLUMBIA WTR & SWR AUTH PUB UTIL REV 5.00 10/1/2049 708.2 12 64990CYX1 NEW YORK ST DORN AUTH REVS NON ST SUPPORTED DEBT 4.85 7/1/2048 707.9 13 64966MA33 NEW YORK N Y 3.50 4/1/2046 696.6 1 14 13063DGB8 CARNO PKNY TRANSN CORP TEX ST SUPPORTED DEBT 5.00 2/1/2023 620.7 16 88880B6H08 TOBACCO SETTLEMENT FING CORP N J 5.00 6/1/2046 696.6 1 17 386117809 GAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2043 604.3 18 13063DGGC CALIFORNIA ST 5.00 11/1/2025 583.1 10 64990AHMO NEW YORK ST DORN AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 11/1/2025 583.1 11 452152Q46 ILLINOIS ST 5.00 11/1/2025 583.1 12 18218BASWRS CLARK CRY NEV 6.05 8/1/2046 580.6 1 12 18218BASWRS CLARK CRY NEV 6.05 8/1/2046 580.6 1 13 28 1812NDY7 GOOD SALES TAX FING CORP SALES TAX REV 6.05 8/1/2046 580.6 1 14 88880BH08 TOBACCO SETTLEMENT FING CORP N J 5.00 1/1/2045 580.1 15 3812NDY7 GOOD AND SALES TAX FING CORP SALES TAX REV 6.05 8/1/2046 580.6 1 16 88880BH08 TOBACCO SETTLEMENT FING CORP N J 5.25 6/1/2046 590.3 17 5720 5446466W7 LOS ANGELES CALIF UNI SCH DIST 5.00 5/1/2045 593.7 17 65010A03 NEW YORK ST DORN AUTH SALES TAX REV 6.05 8/1/2046 539.7 18 5000A03 NEW YORK ST TOW AUTH GEN REV JIN DET OBLIGS 5.00 5/1/2045 539.7 18 500A03 NEW YORK ST TOW AUTH GEN REV JIN DET OBLIGS 5.00 5/1/2045 539.7 18 500A03 NEW YORK ST TOW AUTH GEN REV JIN DET OBLIGS 5.00 5/1/2047 544.8 18 130ASWRS CLARK CRY NEV 5.00 5/1/2045 544.8 18 130ASWRS CLARK CRY NEW 5.00 5/1/2045 544.8 18 130ASWRS CLARK CRY ST CRY ST CRY ST CRY ST CR	6	452151LF8	ILLINOIS ST	5.10	6/1/2033	925.4	557
9 1808/48/17 CLARK CNTY NEV 5.00 5/1/2048 824.6 10 74514LEB6 PUERTO RICO COMWLTH 8.00 7/1/2035 776.0 10 74514LEB6 PUERTO RICO COMWLTH 8.00 7/1/2035 776.0 10 74514LEB6 PUERTO RICO COMWLTH 8.00 7/1/2049 708.2 12 64990C7K1 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 4.85 7/1/2048 707.9 7	7	544657HV4	LOS ANGELES CNTY CALIF	4.00	6/28/2019	906.3	174
10	8	38122NZU9	GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV	5.00	6/1/2047	855.3	179
11 258485CA1 DISTRICT COLUMBIA WTR & SWR AUTH PUB UTIL REV	9	180848XJ7	CLARK CNTY NEV	5.00	5/1/2048	824.6	159
12 64990C7X1 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 4.85 7/1/2048 707.9 13 64966MA33 NEW YORK N Y 3.50 4/1/2025 658.3 14 13063DG6B CAUFORNIA ST 5.00 2/1/2023 620.7 16 88808HQ8 TOBACCO SETTLEMENT FING CORP N J 5.00 6/1/2046 609.6 17 38611ZPAA2 GRAND PRWY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2043 604.3 18 13063DG6C CAUFORNIA ST 3.50 4/1/2028 597.0 19 452152Q46 ILLINOIS ST 5.00 1/1/1/2045 583.1 20 64990AHMO NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2032 582.2 21 74529JAC29 PUERTO RICO SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2035 580.6 1 22 18084BWK5 CLAKK CNTY NEV 4.00 4/1/2021 569.3 24 888808HR6 TOBACCO SETTLEMENT FING CORP N J 5.25 6/1/2046 539.7 25 5446466W7 LOS ANGELES CALIF UNI SCH DIST 5.25 6/1/2046 539.7 25 5446466W7 LOS ANGELES CALIF UNI SCH DIST 5.25 6/1/2046 539.7 26 38122NZV7 GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.00 5/1/2047 524.8 27 65001.043 NEW YORK ST TWY AUTH GEN REV IN INDBT OBLIGS 5.00 5/1/2048 51.3 1 28 33048W93 CAUFORNIA MUN HIS AUTH REV 5.00 10/1/2048 51.3 1 29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2048 51.0 1 31 376000WE9 MASSACHUSETTS ST SCH BLOG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 3 32 59261ATI6 METROPOUTAN TRANSN AUTH NY REV 5.00 5/1/2041 491.1 3 31 31 36036BC7 CAUFORNIA MUN HIS AUTH REV 5.00 5/1/2041 491.1 3 32 39 3603BC7 CAUFORNIA MUN HIS AUTH REV 5.00 3/15/2003 445.1 3 3 3 3 3 3 3 3 3	10	74514LE86	PUERTO RICO COMWLTH	8.00	7/1/2035	776.0	431
13 64966MA33 NEW YORK N Y	11	254845QA1	DISTRICT COLUMBIA WTR & SWR AUTH PUB UTIL REV	5.00	10/1/2049	708.2	97
14 13063DGB8 CALIFORNAST	12	64990C7K1	NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT	4.85	7/1/2048	707.9	102
15 38612PAA2 GRAND PKWY TRANSN CORP TEX 5.00 2/1/2023 620.7 16 888808HBB TOBACCO SETTLEMENT FING CORP N J 5.00 6/1/2046 669.6 17 38611TBQ9 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2043 604.3 18 13063DGC6 CALIFORNIA ST 3.50 4/1/2028 597.0 19 452152Q46 ILLINOIS ST 5.00 11/1/2025 583.1 20 64990AHMO NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2032 582.2 21 74529JAC9 PUERTO RICO SALES TAX FING CORP SALES TAX REV 6.05 8/1/2036 580.6 1 22 180848WK5 CLARK CHTY NEV 4.00 7/1/2046 572.0 23 797400K73 SMD DIEGO CHTY CALIF REGL TRANSN COMMN SALES TAX REV 4.00 7/1/2046 539.7 24 888808HR6 TOBACCO SETTLEMENT FING CORP N J 5.25 6/1/2046 539.7 25 54464666WT LOS ANGELES CALIF UNI SCH DIST 5.25 6/1/2047 524.8 26 38122N2V7 GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.25 6/1/2047 524.8 27 650010AD3 NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5.00 5/1/2019 521.3 1 28 13048WB7 CALIFORNIA MUN FIN AUTH REV 5.00 10/1/2048 510.8 30 574296AW9 MARYLAND ST STAD AUTH REV 5.00 5/1/2041 491.1 31 576000WE9 MASSACHUSETTS ST SCH BLOG AUTH DEDICATED SALES TAX REV 5.00 5/1/2041 491.1 33 13063BIC7 CALIFORNIA ST CALIF	13	64966MA33	NEW YORK N Y	3.50	4/1/2046	696.6	1,457
16	14	13063DGB8	CALIFORNIA ST	3.38	4/1/2025	658.3	140
17 38611TBQ9 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2043 604.3 18 130630CG CALIFORNIA ST 5.00 11/1/2025 597.0 19 452152Q46 ILINOIS ST 5.00 11/1/2025 583.1 20 64990AHM0 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2032 582.2 21 745291AC9 PUERTO RICO SALES TAX FING CORP SALES TAX REV 6.05 8/1/2036 580.6 1 22 180848WKS CLARK CNTY NEV 4.00 7/1/2046 572.0 23 797400KY3 SAN DIEGO CNTY CALIF REGL TRANSN COMMN SALES TAX REV 4.00 7/1/2046 572.0 23 797400KY3 SAN DIEGO CNTY CALIF REGL TRANSN COMMN SALES TAX REV 4.00 4/1/2021 569.3 24 888808HR6 TOBACCO SETTLEMENT FING CORP N 5.25 6/1/2046 539.7 5.25 6/1/2047 524.8 58122NZY7 GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.25 6/1/2047 524.8 27 650010AD3 NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5.00 5/1/2019 521.3 1 28 13048VBY3 CALIFORNIA MUN FIN AUTH REV 5.00 12/31/2043 514.1 29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2048 510.8 30 574296AW9 MARYLAND ST STAD AUTH REV 5.00 10/1/2048 510.8 32 59261AT16 METROPOLITAN TRANSN AUTH N Y REV 5.25 2/15/2048 482.8 32 59261AT16 METROPOLITAN TRANSN AUTH N Y REV 5.00 11/1/2044 454.5 34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 3/15/2043 445.1 35 64990AHKA NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2043 445.1 35 64990AHKA NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2043 445.1 35 64990AHKA NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2043 445.1 36 64990AHKA NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2043 445.1 36 64990AHKA NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 1/1/2043 410.2 424.7 38 18672MCA4 COLORADO ST ED IN PROG 4.00 6/28/2019 424.7 38 18672MCA4 COLORADO ST ED IN PROG 5.00 1/1/2043 410.2 440.0 6/28/2019 424.7 38 186972MCA4 COLORADO ST ED IN PROG 5.00 1/1/2043 410.2 440.0 6/28/2019 424.7 38 186972MCA4 COLORADO ST ED IN PROG 5.00 1/1/2043 410.2 440.0 6/28/2019 424.7 38 186972MCA4 COLORADO ST ED IN PROG 5.00 1/1/2043 410.2 440.0 6/28/2019 424.7 38 186972MCA4 COLORADO ST	15	38612PAA2	GRAND PKWY TRANSN CORP TEX	5.00	2/1/2023	620.7	25
18	16	888808HQ8	TOBACCO SETTLEMENT FING CORP N J	5.00	6/1/2046	609.6	185
19	17	38611TBQ9	GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV	5.00	10/1/2043	604.3	116
20 64990AHM0 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2032 582.2	18	13063DGC6	CALIFORNIA ST	3.50	4/1/2028	597.0	187
21 74529JAC9 PUERTO RICO SALES TAX FING CORP SALES TAX REV 6.05 8/1/2036 580.6 1 22 180848WKS CLARK CNTY NEV 4.00 7/1/2046 572.0 23 797400KY3 SAN DIEGO CNTY CALIF REGL TRANSN COMMN SALES TAX REV 4.00 4/1/2021 569.3 24 888808HR6 TOBACCO SETTLEMENT FING CORP N J 5.25 6/1/2046 539.7 25 5446466W7 LOS ANGELES CALIF UNI SCH DIST 5.25 6/1/2047 524.8 26 3812ZNZV7 GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.25 6/1/2047 524.8 27 650010AD3 NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5.00 5/1/2019 521.3 1 28 13048VBY3 CALIFORNIA MUN FIN AUTH REV 5.00 12/31/2043 514.1 29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 5/1/2041 491.1 31 576000WE9 MASSACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 32 59261AT16 METROPOLITAN TRANSN AUTH N Y REV 4.00 11/1/2040 454.5	19	452152Q46	ILLINOIS ST	5.00	11/1/2025	583.1	88
22 180848WKS CLARK CNTY NEV 2.00 7/1/2046 572.0 23 797400KY3 SAN DIEGO CNTY CALIF REGL TRANSN COMMN SALES TAX REV 4.00 4/1/2021 569.3 24 888808HR6 TOBACCO SETTLEMENT FING CORP N J 5.25 6/1/2046 539.7 25 5446466W7 LOS ANGELES CALIF UNI SCH DIST 5.25 7/1/2042 530.8 26 38122NZV7 GOLDEN ST TOB SECURITZATION CORP CALIF TOB SETTLEMENT REV 5.25 6/1/2047 524.8 27 650010AD3 NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5.00 5/1/2019 521.3 1 28 130488W3 CALIFORNIA MUN FIN AUTH REV 5.00 12/31/2043 514.1 29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2048 510.8 574296AW9 MARYLAND ST STAD AUTH REV 5.00 5/1/2041 491.1 31 576000WE9 MASSACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 32 59261AT16 METROPOLITAN TRANSN AUTH N Y REV 4.00 11/15/2042 460.1 33 13063BLC7 CALIFORNIA ST 7.60 11/1/2040 454.5 34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 5/1/2039 442.5 36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 442.5 36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 422.7 37 769110CS4 RIVER SIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 0.00 6/28/2019 424.7 38 19672MCA4 0.00 6/28/2019 424.7 4.00 6/28/2019 424.7 4.00 6/28/2019 424.7 4.00 6/28/2019 424.7 4.00 6/28/2018 4.12.2	20	64990AHM0	NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT	5.00	3/15/2032	582.2	50
23 797400KY3 SAN DIEGO CNTY CALIF REGL TRANSN COMMN SALES TAX REV 4.00 4/1/2021 569.3 24 888808HR6 TOBACCO SETTLEMENT FING CORP N J 5.25 6/1/2046 539.7 25 54464666W7 LOS ANGELES CALIF UNIS CH DIST 5.25 7/1/2042 530.8 26 38122NZY7 GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.25 6/1/2047 524.8 27 650010AD3 NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5.00 5/1/2019 521.3 1 28 13048VBY3 CALIFORNIA MUN FIN AUTH REV 5.00 10/1/2048 510.8 30 574296AW9 MARYLAND ST STAD AUTH REV 5.00 5/1/2041 491.1 31 576000We9 MASSACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 32 59261ATJ6 METROPOLITAN TRANSN AUTH N Y REV 4.00 11/1/2040 454.5 34 91412HAZ6 METROPOLITAN TRANSN AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 5/15/2043 445.1 35 64990AHK4 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030	21	74529JAC9	PUERTO RICO SALES TAX FING CORP SALES TAX REV	6.05	8/1/2036	580.6	1,406
23 797400KY3 SAN DIEGO CNTY CALIF REGL TRANSN COMMN SALES TAX REV 4.00 4/1/2021 569.3 24 888808HR6 TOBACCO SETTLEMENT FING CORP N J 5.25 6/1/2046 539.7 25 5446466W7 LOS ANGELES CALIF UNI SCH DIST 5.25 7/1/2042 530.8 26 38122NZY7 GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.25 6/1/2047 524.8 27 650010AD3 NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5.00 5/1/2019 521.3 1 28 13048VBY3 CALIFORNIA MUN FIN AUTH REV 5.00 10/1/2048 514.1 29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2048 510.8 30 574296AW9 MARYLAND ST STAD AUTH REV 5.00 5/15/2048 482.8 32 59261ATJ6 METROPOLITAN TRANSN AUTH N Y REV 5.25 2/15/2048 482.8 32 59261ATJ6 METROPOLITAN TRANSN AUTH N Y REV 5.00 11/1/2040 454.5 34 91412HAZ6 MUNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 35 64990	22	180848WK5	CLARK CNTY NEV	4.00		572.0	50
24 888808HR6 TOBACCO SETTLEMENT FING CORP N J 5.25 6/1/2046 539.7 25 5446466W7 LOS ANGELES CALIF UNI SCH DIST 5.25 7/1/2042 530.8 26 38122NZV7 GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.25 6/1/2047 524.8 27 650010AD3 NeW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5.00 5/1/2019 521.3 1 28 13048VBY3 CALIFORNIA MUN FIN AUTH REV 5.00 12/31/2043 514.1 29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2048 510.8 30 574296AW9 MARSJACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV 5.00 5/1/2041 491.1 31 576000WE9 MASSACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 32 59261ATJG METROPOLITAN TRANSN AUTH N Y REV 5.00 11/1/2040 460.1 33 13063BLC7 CALIFORNIA ST 7.60 11/1/2040 454.5 34 91412HAZG UNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 35	23	797400KY3	SAN DIEGO CNTY CALIF REGL TRANSN COMMN SALES TAX REV	4.00			172
26 38122NZY7 GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV 5.25 6/1/2047 524.8 27 650010AD3 NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5.00 5/1/2019 521.3 1 28 13048VBY3 CALIFORNIA MUN FIN AUTH REV 5.00 12/31/2043 514.1 29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2048 510.8 30 574296AW9 MARYLAND ST STAD AUTH REV 5.00 5/1/2041 491.1 31 576000WE9 MASSACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 32 59261ATJ6 METROPOLITAN TRANSN AUTH N Y REV 4.00 11/15/2042 460.1 33 13063BJC7 CALIFORNIA ST 7.60 11/1/2040 454.5 34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 35 64990AHK4 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030 442.5 36 13063ASGS CALIFORNIA ST 7.55 4/1/2039 425.7 37 769110CS4	24	888808HR6	TOBACCO SETTLEMENT FING CORP N J	5.25	6/1/2046	539.7	107
27 650010AD3 NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS 5.00 5/1/2019 521.3 1 28 13048VBY3 CALIFORNIA MUN FIN AUTH REV 5.00 12/31/2043 514.1 29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2048 510.8 30 574296AW9 MARYLAND ST STAD AUTH REV 5.00 5/1/2041 491.1 31 576000WE9 MASSACHUSETTS ST SCH BLGG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 32 59261ATJ6 METROPOLITAN TRANSN AUTH N Y REV 4.00 11/15/2042 460.1 33 13063BIC7 CALIFORNIA ST 7.60 11/1/2040 454.5 34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 36 13063A5G5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030 442.5 37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 40 64966MZY8 MASSACHUSETTS ST </td <td>25</td> <td>5446466W7</td> <td>LOS ANGELES CALIF UNI SCH DIST</td> <td>5.25</td> <td>7/1/2042</td> <td>530.8</td> <td>57</td>	25	5446466W7	LOS ANGELES CALIF UNI SCH DIST	5.25	7/1/2042	530.8	57
28 13048VBY3 CALIFORNIA MUN FIN AUTH REV 5.00 12/31/2043 514.1 29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2048 510.8 30 574296AW9 MARYLAND ST STAD AUTH REV 5.00 5/1/2041 491.1 31 576000WE9 MASSACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 32 59261ATJ6 METROPOLITAN TRANSN AUTH N Y REV 4.00 11/15/2042 460.1 33 13063BJC7 CALIFORNIA ST 7.60 11/1/2040 454.5 34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 35 64990AHK4 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030 442.5 36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 425.7 37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRI7 MASSACHUSETTS ST 5.00 1/1/2043	26	38122NZV7	GOLDEN ST TOB SECURITIZATION CORP CALIF TOB SETTLEMENT REV	5.25	6/1/2047	524.8	106
29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2048 510.8 30 574296AW9 MARYLAND ST STAD AUTH REV 5.00 5/1/2041 491.1 31 576000WE9 MASSACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 32 59261AT16 METROPOLITAN TRANSN AUTH N Y REV 4.00 11/15/2042 460.1 33 13063BJC7 CALIFORNIA ST 7.60 11/1/2040 454.5 34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 35 64990AHK4 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030 442.5 36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 425.7 37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRI7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 NEW YORK N Y 5.00 4/1/2021 406.7 </td <td>27</td> <td>650010AD3</td> <td>NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS</td> <td>5.00</td> <td>5/1/2019</td> <td>521.3</td> <td>1,088</td>	27	650010AD3	NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS	5.00	5/1/2019	521.3	1,088
29 38611TBR7 GRAND PARKWAY TRANSN CORP TEX SYS TOLL REV 5.00 10/1/2048 510.8 30 574296AW9 MARYLAND ST STAD AUTH REV 5.00 5/1/2041 491.1 31 576000WE9 MASSACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 32 59261AT16 METROPOLITAN TRANSN AUTH N Y REV 4.00 11/15/2042 460.1 33 13063BJC7 CALIFORNIA ST 7.60 11/1/2040 454.5 34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 35 64990AHK4 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030 442.5 36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 425.7 37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRIJ7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 NEW YORK N Y 5.00 4/1/2021 406.7<	28	13048VBY3	CALIFORNIA MUN FIN AUTH REV	5.00		514.1	117
31 576000WE9 MASSACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV 5.25 2/15/2048 482.8 32 59261ATJ6 METROPOLITAN TRANSN AUTH N Y REV 4.00 11/15/2042 460.1 33 13063BJC7 CALIFORNIA ST 7.60 11/1/2040 454.5 34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 35 64990AHK4 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030 442.5 36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 425.7 37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRJ7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 NEW YORK N Y 5.00 4/1/2043 407.6 41 13063DGA0 CALIFORNIA ST 2.80 4/1/2021 406.7 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 <							112
32 59261ATJ6 METROPOLITAN TRANSN AUTH N Y REV 4.00 11/15/2042 460.1 33 13063BJC7 CALIFORNIA ST 7.60 11/1/2040 454.5 34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 35 64990AHK4 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030 442.5 36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 425.7 37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRJ7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 MASSACHUSETTS ST 5.00 4/1/2043 407.6 41 13063DGA0 CALIFORNIA ST 2.80 4/1/2043 407.6 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 54495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44	30	574296AW9	MARYLAND ST STAD AUTH REV	5.00	5/1/2041	491.1	66
33 13063BJC7 CALIFORNIA ST 7.60 11/1/2040 454.5 34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 35 64990AHK4 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030 442.5 36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 425.7 37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRJ7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 NEW YORK N Y 5.00 4/1/2043 407.6 41 13063DGA0 CALIFORNIA ST 2.80 4/1/2021 406.7 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 54495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0	31	576000WE9	MASSACHUSETTS ST SCH BLDG AUTH DEDICATED SALES TAX REV	5.25	2/15/2048	482.8	107
34 91412HAZ6 UNIVERSITY CALIF REVS 5.00 5/15/2043 445.1 35 64990AHK4 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030 442.5 36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 425.7 37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRJ7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 NEW YORK N Y 5.00 4/1/2043 407.6 41 13063DGA0 CALIFORNIA ST 2.80 4/1/2021 406.7 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2 <td>32</td> <td>59261ATJ6</td> <td>METROPOLITAN TRANSN AUTH N Y REV</td> <td>4.00</td> <td>11/15/2042</td> <td>460.1</td> <td>245</td>	32	59261ATJ6	METROPOLITAN TRANSN AUTH N Y REV	4.00	11/15/2042	460.1	245
35 64990AHK4 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2030 442.5 36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 425.7 37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRJ7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 NEW YORK N Y 5.00 4/1/2043 407.6 41 13063DGA0 CALIFORNIA ST 2.80 4/1/2021 406.7 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	33	13063BJC7	CALIFORNIA ST	7.60	11/1/2040	454.5	130
36 13063A5G5 CALIFORNIA ST 7.55 4/1/2039 425.7 37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRJ7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 NEW YORK N Y 5.00 4/1/2043 407.6 41 13063DGA0 CALIFORNIA ST 2.80 4/1/2021 406.7 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	34	91412HAZ6	UNIVERSITY CALIF REVS	5.00	5/15/2043	445.1	67
37 769110CS4 RIVERSIDE CNTY CALIF 4.00 6/28/2019 424.7 38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRJ7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 NEW YORK N Y 5.00 4/1/2043 407.6 41 13063DGA0 CALIFORNIA ST 2.80 4/1/2021 406.7 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	35	64990AHK4	NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT	5.00	3/15/2030	442.5	48
38 19672MCA4 COLORADO ST ED LN PROG 4.00 6/28/2018 412.2 39 57582RRJ7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 NEW YORK N Y 5.00 4/1/2043 407.6 41 13063DGA0 CALIFORNIA ST 2.80 4/1/2021 406.7 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	36	13063A5G5	CALIFORNIA ST	7.55	4/1/2039	425.7	610
39 57582RRJ7 MASSACHUSETTS ST 5.00 1/1/2043 410.2 40 64966MZY8 NEW YORK N Y 5.00 4/1/2043 407.6 41 13063DGA0 CALIFORNIA ST 2.80 4/1/2021 406.7 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	37	769110CS4	RIVERSIDE CNTY CALIF	4.00	6/28/2019	424.7	108
40 64966MZY8 NEW YORK N Y 5.00 4/1/2043 407.6 41 13063DGA0 CALIFORNIA ST 2.80 4/1/2021 406.7 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	38	19672MCA4	COLORADO ST ED LN PROG	4.00	6/28/2018	412.2	39
41 13063DGA0 CALIFORNIA ST 2.80 4/1/2021 406.7 42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	39	57582RRJ7	MASSACHUSETTS ST	5.00	1/1/2043	410.2	34
42 54438CPA4 LOS ANGELES CALIF CMNTY COLLEGE DIST 6.75 8/1/2049 403.9 43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	40	64966MZY8	NEW YORK N Y	5.00	4/1/2043	407.6	211
43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	41	13063DGA0	CALIFORNIA ST	2.80	4/1/2021	406.7	92
43 544495M50 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2033 399.5 44 64990C6Q9 NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT 5.00 10/1/2038 392.0 45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	42	54438CPA4	LOS ANGELES CALIF CMNTY COLLEGE DIST	6.75	8/1/2049	403.9	75
45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2	43	544495M50	LOS ANGELES CALIF DEPT WTR & PWR REV	5.00			95
45 915506MS5 UPPER ARLINGTON OHIO CITY SCH DIST 5.00 12/1/2048 391.2							92
							43
TO [332017/N] WILLING OLITAN INANSINAGITIN FILE [4.00 3/13/2013] 307.0]			METROPOLITAN TRANSN AUTH N Y REV	4.00	5/15/2019		24
47 452152P96 ILLINOIS ST 5.00 11/1/2027 374.8							67
48 763631V70 RICHLAND CNTY S C 3.00 2/27/2019 364.9							259
49 882854J60 TEXAS WTR DEV BRD REV 5.00 10/15/2043 358.5							53
				4.00	6/15/2047		44

¹ Includes zero-coupon securities

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Top 50 Most Active Fixed Rate¹ Securities, 2018:Q2 By number of trades

					Par Amount	Number of
Rank	CUSIP ²	Issuer Name	Coupon	Maturity	(\$ Millions)	Trades
1	70914PN32	PENNSYLVANIA ST	3.75	3/1/2039	178.6	2,345
2	64972GPY4	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	3.63	6/15/2048	185.0	2,021
3	64966MA33	NEW YORK N Y	3.50	4/1/2046	696.6	1,457
4	74529JAC9	PUERTO RICO SALES TAX FING CORP SALES TAX REV	6.05	8/1/2036	580.6	1,406
5	494759PE7	KING CNTY WASH HSG AUTH HSG REV	3.75	5/1/2038	113.0	1,261
6	64966MZT9	NEW YORK N Y	3.38	4/1/2038	177.4	1,220
7	613603YZ6	MONTGOMERY CNTY PA HIGHER ED & HEALTH AUTH REV	4.00	9/1/2049	177.2	1,120
8	882724DQ7	TEXAS ST	4.00	8/30/2018	2,672.0	1,111
9	650010AD3	NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS	5.00	5/1/2019	521.3	1,088
10	850269EA5	SPRINGDALE ARK SALES & USE TAX REV	3.60	4/1/2041	174.6	1,042
11	60637AMP4	MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV	4.00	6/1/2048	150.6	974
12	914233Q87	UNIVERSITY CONN	4.00	4/15/2038	108.9	950
13	22500PBK8	CRAWFORD CNTY PA INDL DEV AUTH COLLEGE REV	4.00	11/1/2048	88.8	738
14	57582RSN7	MASSACHUSETTS ST	3.63	5/1/2043	55.7	725
15	60637AMW9	MISSOURI ST HEALTH & EDL FACS AUTH HEALTH FACS REV	4.00	11/15/2048	272.8	686
16	64972HK84	NEW YORK N Y CITY TRANSITIONAL FIN AUTH BLDG AID REV	3.63	7/15/2047	39.5	620
17	13063A5G5	CALIFORNIA ST	7.55	4/1/2039	425.7	610
18	717883VG4	PHILADELPHIA PA SCH DIST	4.00	9/1/2043	97.8	604
19	574193QH4	MARYLAND ST	3.13	3/15/2033	54.3	603
20	13063BFV9	CALIFORNIA ST	7.95	3/1/2036	121.7	599
21	5742184J9	MARYLAND ST HEALTH & HIGHER EDL FACS AUTH REV	4.00	7/1/2048	151.8	587
22	426170PS9	HENRICO CNTY VA WTR & SWR REV	3.63	5/1/2048	33.7	581
23	64972GQD9	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	3.50	6/15/2040	41.5	580
24	452151LF8	ILLINOIS ST	5.10	6/1/2033	925.4	557
25	645913AA2	NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV	7.43	2/15/2029	339.7	532
26	914233Q46	UNIVERSITY CONN	3.75	4/15/2033	62.5	527
27	7417014Z6	PRINCE GEORGES CNTY MD	3.25	7/15/2036	40.7	517
28	107304EC7	BRENTWOOD MO CTFS PARTN	3.50	10/1/2043	42.0	514
29	847113CG0	SPARTANBURG S C REGL HEALTH SVCS DIST INC HOSP REV	4.00	4/15/2043		512
30	64972GQV9	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	3.13	6/15/2031	53.6	506
31	61204MCZ8	MONTANA FAC FIN AUTH HEALTH FACS REV	3.63	6/1/2043	51.2	492
32	646136U66	NEW JERSEY ST TRANSN TR FD AUTH	4.25	6/15/2044	21.4	491
33	575165AC9	MASON CNTY WASH PUB HOSP DIST NO 1 HOSP REV	4.00	12/1/2044	81.4	473
34	593842CR6	MIAMI VY CAREER TECHNICAL CTR OHIO	3.75	12/1/2047	29.5	471
35	270416FJ4	EAST ALA HEALTH CARE AUTH HEALTH CARE FACS REV	4.00	9/1/2048	84.5	471
36	67884XCM7	OKLAHOMA DEV FIN AUTH HEALTH SYS REV	4.13	8/15/2057	35.4	462
37	34074GDH4	FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV	3.00	7/1/2020	160.9	460
38	64972GBA1	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	4.00	6/15/2047	215.0	459
39	74514LB89	PUERTO RICO COMWLTH	5.00	7/1/2041	120.7	454
40	08451PAW1	BERKS CNTY PA INDL DEV AUTH HEALTH SYS REV	4.00	11/1/2047	110.6	451
41	405815LJ8	HALIFAX HOSP MED CTR FLA HOSP REV	4.00	6/1/2046	52.0	450
42	89546RPV0	TRI-CNTY MET TRANSN DIST ORE REV	3.25	10/1/2034	30.7	446
43	20772KCV9	CONNECTICUT ST	4.00	6/15/2036	66.6	445
44	745190DH8	PUERTO RICO COMWLTH HWY & TRANSN AUTH TRANSN REV	4.75	7/1/2038	44.4	444
45		ELYRIA OHIO	4.00	12/1/2053	38.6	442
46		PUERTO RICO PUB BLDGS AUTH REV GTD	5.25	7/1/2042	90.5	441
47		FULLERTON CALIF JT UN HIGH SCH DIST	3.50	8/1/2042	31.8	432
48		PUERTO RICO COMWLTH	8.00	7/1/2035	776.0	431
49		EAST CAROLINA UNIV N C UNIV REV	3.50	10/1/2047	29.5	430
50		NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	3.50	6/15/2037	47.7	429

¹ Includes zero-coupon securities

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Top 50 Most Active Variable Rate Securities, 2018:Q2By par amount

				Par Amount	Number of
Rank	CUSIP ¹	Issuer Name	Maturity	(\$ Millions)	Trades
1	270777AC9	EAST BATON ROUGE PARISH LA INC INDL DEV BRD REV	8/1/2035	4,505.6	
2	402207AD6	GULF COAST INDL DEV AUTH TEX REV	11/1/2041		356
3	60528AAS3	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	12/1/2030	3,030.0	103
4	467229AF7	JACKSON CNTY MISS PORT FAC REV	6/1/2023		117
5	64966G4Q2	NEW YORK N Y	4/1/2035	1,476.7	133
6		EAST BATON ROUGE PARISH LA INC INDL DEV BRD REV	12/1/2040		127
7	548351AC9	LOWER NECHES VALLEY AUTH TEX INDL DEV CORP REV	11/1/2038	1,438.3	195
8	821697L23	SHELBY CNTY TENN HEALTH EDL & HSG FACS BRD REV	6/1/2042		88
9	64966MSD2	NEW YORK N Y	10/1/2046	1,318.6	112
10	57586CV69	MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV	12/1/2037		178
11	64966LCJ8	NEW YORK N Y	8/1/2038	1,262.0	320
12	821697K99	SHELBY CNTY TENN HEALTH EDL & HSG FACS BRD REV	6/1/2042	1,180.1	112
13	60528ABX1	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	11/1/2035	1,177.7	285
14	64966KTD5	NEW YORK N Y	3/1/2042		115
15	60528AAV6	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	12/1/2030		74
16	783186NB1	RUTGERS ST UNIV N J	5/1/2039	·	64
17	130534XA3	CALIFORNIA POLLUTN CTL FING AUTH POLLUTN CTL REV	11/1/2026	1,092.0	123
18	533485BB3	LINCOLN CNTY WYO POLLUTN CTL REV	10/1/2044	1,088.7	104
19			8/1/2041	1,087.5	107
20	64966JE77	NEW YORK N Y	4/1/2042	1,044.6	317
21	64972FSG2	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	6/15/2025	1,041.5	136
22	57582N4G7	MASSACHUSETTS ST	3/1/2026		210
23	64972GEK6	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	6/15/2049	1,024.6	122
24	45200FBY4	ILLINOIS FIN AUTH REV	8/15/2042		118
25	575827R51	MASSACHUSETTS ST	12/1/2030	1,015.3	113
26	13063BCH3	CALIFORNIA ST	5/1/2033		85
27	57585KGP7	MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV	11/1/2049	979.6	240
28		NEW YORK N Y	6/1/2044		
29	64966FA87	NEW YORK N Y	4/1/2036	954.4	115
30		PHOENIX ARIZ INDL DEV AUTH HEALTH CARE FACS REV	11/15/2052	949.7	117
31		ARIZONA HEALTH FACS AUTH REV	1/1/2046	938.0	176
32	60528AAT1	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	12/1/2030		95
33		NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	6/15/2039	919.3	92
34	594698DF6	MICHIGAN ST STRATEGIC FD LTD OBLIG REV	12/1/2042	913.3	79
35	60528ACC6	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	11/1/2035	903.4	126
36	544495DL5	LOS ANGELES CALIF DEPT WTR & PWR REV	7/1/2034		267
37	59259N8Q9	METROPOLITAN TRANSN AUTH N Y DEDICATED TAX FD	11/1/2031	894.9	195
38	64972F6V3	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	6/15/2045		79
39	71884SAC4	PHOENIX ARIZ INDL DEV AUTH HEALTH CARE FACS REV	11/15/2052	889.6	242
40		NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	6/15/2044		92
41		SOUTHERN CALIF PUB PWR AUTH PWR PROJ REV	7/1/2036	829.7	268
42		SOUTHEAST ALA GAS SUPPLY DIST GAS SUPPLY REV	6/1/2049		37
43		UINTA CNTY WYO POLLUTION CTL REV	8/15/2020	809.4	88
44		LOWER NECHES VALLEY AUTH TEX INDL DEV CORP EXEMPT FACS REV	2/1/2031		50
45		NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV	2/1/2031	791.7	87
46	13033FK74	CALIFORNIA HEALTH FACS FING AUTH REV	6/1/2041		549
47		MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	12/1/2030	767.1	99
48		ILLINOIS ST TOLL HWY AUTH TOLL HIGHWAY REV	1/1/2031		54
49		NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	6/15/2032	753.5	191
50		MARTIN CNTY FLA POLLUTN CTL REV	7/15/2022		85
30	3/3202A14	INICIATIVE CIVIT LA FOLLOTIVE CILILLE	1/13/2022	747.9	65

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Municipal Market Trades by Trade Type

Trade Type and Size

Average daily par amount in \$ millions

	2018:Q2
All Trades	
Total	12,729.8
0 - \$25,000	314.0
\$25,001 - \$50,000	334.9
\$50,001 - \$75,000	132.9
\$75,001 - \$100,000	295.5
\$100,001 - \$500,000	1,265.3
\$500,001 - \$1,000,000	786.1
\$1,000,001 - \$2,000,000	942.9
More than \$2,000,000	8,658.3

Customer Bought	
Total	6,402.5
0 - \$25,000	118.5
\$25,001 - \$50,000	130.8
\$50,001 - \$75,000	50.8
\$75,001 - \$100,000	116.6
\$100,001 - \$500,000	516.3
\$500,001 - \$1,000,000	349.2
\$1,000,001 - \$2,000,000	443.2
More than \$2,000,000	4,677.1

Customer Sold			
Total	4,137.5		
0 - \$25,000	69.2		
\$25,001 - \$50,000	68.9		
\$50,001 - \$75,000	30.8		
\$75,001 - \$100,000	66.4		
\$100,001 - \$500,000	297.9		
\$500,001 - \$1,000,000	213.4		
\$1,000,001 - \$2,000,000	281.0		
More than \$2,000,000	3,109.8		

Inter-Dealer	
Total	2,189.8
0 - \$25,000	126.2
\$25,001 - \$50,000	135.1
\$50,001 - \$75,000	51.3
\$75,001 - \$100,000	112.5
\$100,001 - \$500,000	451.0
\$500,001 - \$1,000,000	223.4
\$1,000,001 - \$2,000,000	218.7
More than \$2,000,000	871.4

Municipal Market Trades by Trade Type

Trade Type and Size

	2018:Q2
All Trades	
Total	40,583
0 - \$25,000	19,813
\$25,001 - \$50,000	7,942
\$50,001 - \$75,000	1,994
\$75,001 - \$100,000	3,041
\$100,001 - \$500,000	5,137
\$500,001 - \$1,000,000	996
\$1,000,001 - \$2,000,000	623
More than \$2,000,000	1,036

Customer Bought			
Total	15,726		
0 - \$25,000	7,335		
\$25,001 - \$50,000	3,090		
\$50,001 - \$75,000	760		
\$75,001 - \$100,000	1,198		
\$100,001 - \$500,000	2,085		
\$500,001 - \$1,000,000	440		
\$1,000,001 - \$2,000,000	293		
More than \$2,000,000	524		

Customer Sold			
Total	9,234		
0 - \$25,000	4,423		
\$25,001 - \$50,000	1,650		
\$50,001 - \$75,000	461		
\$75,001 - \$100,000	683		
\$100,001 - \$500,000	1,206		
\$500,001 - \$1,000,000	267		
\$1,000,001 - \$2,000,000	183		
More than \$2,000,000	361		

Inter-Dealer	
Total	15,623
0 - \$25,000	8,055
\$25,001 - \$50,000	3,202
\$50,001 - \$75,000	773
\$75,001 - \$100,000	1,160
\$100,001 - \$500,000	1,846
\$500,001 - \$1,000,000	289
\$1,000,001 - \$2,000,000	147
More than \$2,000,000	151

Transaction Summary - Fixed Rate Securities

Average daily par amount in \$ millions

	2018:Q2
Fixed Rate	
Total	7,457.2
0 - \$25,000	305.6
\$25,001 - \$50,000	324.6
\$50,001 - \$75,000	127.9
\$75,001 - \$100,000	266.5
\$100,001 - \$500,000	1,100.7
\$500,001 - \$1,000,000	631.1
\$1,000,001 - \$2,000,000	710.1
More than \$2,000,000	3,990.6

Zero Coupon	
Total	323.0
0 - \$25,000	7.0
\$25,001 - \$50,000	8.5
\$50,001 - \$75,000	4.1
\$75,001 - \$100,000	7.1
\$100,001 - \$500,000	24.5
\$500,001 - \$1,000,000	11.7
\$1,000,001 - \$2,000,000	12.4
More than \$2,000,000	247.7

Transaction Summary - Fixed Rate Securities

	2018:Q2	
Fixed Trade		
Total	38,067	
0 - \$25,000	19,254	
\$25,001 - \$50,000	7,697	
\$50,001 - \$75,000	1,918	
\$75,001 - \$100,000	2,749	
\$100,001 - \$500,000	4,541	
\$500,001 - \$1,000,000	804	
\$1,000,001 - \$2,000,000	471	
More than \$2,000,000	633	

Zero Coupon	
Total	965
0 - \$25,000	476
\$25,001 - \$50,000	204
\$50,001 - \$75,000	63
\$75,001 - \$100,000	74
\$100,001 - \$500,000	107
\$500,001 - \$1,000,000	15
\$1,000,001 - \$2,000,000	8
More than \$2,000,000	18

Source of Repayment

Average daily par amount in \$ millions

	2018:Q2
Fixed Rate	
Total	7,454.7
General Obligation	2,735.3
Revenue	4,438.8
Double Barrel	280.6

Zero Coupon	
Total	323.0
General Obligation	75.6
Revenue	245.6
Double Barrel	1.8

Fixed Rate	
Total	38,067
General Obligation	14,423
Revenue	22,326
Double Barrel	1,318

Zero Coupon	
Total	965
General Obligation	505
Revenue	436
Double Barrel	24

Tax Status

Average daily par amount in \$ millions

	2018:Q2
Fixed Rate	
Total	7,456.4
Tax Exempt	6,452.1
Taxable	740.1
AMT	264.2

Zero Coupon	
Total	323.0
Tax Exempt	309.8
Taxable	13.1
AMT	<0.1

Fixed Rate	
Total	38,067
Tax Exempt	35,377
Taxable	2,226
AMT	464

Zero Coupon	
Total	965
Tax Exempt	871
Taxable	93
AMT	<1

Sector

Average daily par amount in \$ millions

	2018:Q2
Fixed Rate	
Total	7,457.2
Education	1,616.0
Health	450.2
Housing	152.6
Tax-Revenue	906.0
Transportation	722.8
Utility	901.5
Various Purpose	1,194.9
Other	1,513.3

Zero Coupon	
Total	323.0
Education	73.0
Health	2.1
Housing	0.2
Tax-Revenue	84.1
Transportation	27.8
Utility	3.4
Various Purpose	6.0
Other	126.4

Fixed Rate	
Total	38,067
Education	9,708
Health	2,637
Housing	832
Tax-Revenue	3,891
Transportation	3,018
Utility	5,317
Various Purpose	5,123
Other	7,543

Zero Coupon	
Total	965
Education	462
Health	27
Housing	3
Tax-Revenue	132
Transportation	112
Utility	68
Various Purpose	66
Other	95

Variable Rate Demand Obligations¹ Trade Type and Size

Average daily par amount in \$ millions

	2018:Q2
All Trades	
Total	3,933.4
0 - \$25,000	<0.1
\$25,001 - \$50,000	0.1
\$50,001 - \$75,000	<0.1
\$75,001 - \$100,000	19.0
\$100,001 - \$500,000	123.0
\$500,001 - \$1,000,000	128.3
\$1,000,001 - \$2,000,000	197.4
More than \$2,000,000	3,465.6

Customer Bought	
Total	1,997.3
0 - \$25,000	<0.1
\$25,001 - \$50,000	<0.1
\$50,001 - \$75,000	<0.1
\$75,001 - \$100,000	7.6
\$100,001 - \$500,000	56.8
\$500,001 - \$1,000,000	61.5
\$1,000,001 - \$2,000,000	96.8
More than \$2,000,000	1,774.5

Customer Sold	
Total	1,852.3
0 - \$25,000	<0.1
\$25,001 - \$50,000	<0.1
\$50,001 - \$75,000	<0.1
\$75,001 - \$100,000	9.3
\$100,001 - \$500,000	54.5
\$500,001 - \$1,000,000	57.3
\$1,000,001 - \$2,000,000	89.8
More than \$2,000,000	1,641.3

Inter-Dealer	
Total	83.9
0 - \$25,000	<0.1
\$25,001 - \$50,000	<0.1
\$50,001 - \$75,000	<0.1
\$75,001 - \$100,000	2.0
\$100,001 - \$500,000	11.7
\$500,001 - \$1,000,000	9.5
\$1,000,001 - \$2,000,000	10.8
More than \$2,000,000	49.8

¹ Based on data submitted to the MSRB's Short-Term Obligation Rate Transparency (SHORT) System. May exclude submissions that could not be categorized based on available data.

Variable Rate Demand Obligations¹ Trade Type and Size

	2018:Q2
All Trades	
Total	1,223
0 - \$25,000	3
\$25,001 - \$50,000	1
\$50,001 - \$75,000	1
\$75,001 - \$100,000	190
\$100,001 - \$500,000	424
\$500,001 - \$1,000,000	159
\$1,000,001 - \$2,000,000	128
More than \$2,000,000	318

Customer Bought	
Total	572
0 - \$25,000	1
\$25,001 - \$50,000	<1
\$50,001 - \$75,000	<1
\$75,001 - \$100,000	76
\$100,001 - \$500,000	194
\$500,001 - \$1,000,000	76
\$1,000,001 - \$2,000,000	63
More than \$2,000,000	161

Customer Sold	
Total	562
0 - \$25,000	2
\$25,001 - \$50,000	1
\$50,001 - \$75,000	<1
\$75,001 - \$100,000	93
\$100,001 - \$500,000	188
\$500,001 - \$1,000,000	71
\$1,000,001 - \$2,000,000	58
More than \$2,000,000	149

Inter-Dealer	
Total	89
0 - \$25,000	<1
\$25,001 - \$50,000	<1
\$50,001 - \$75,000	<1
\$75,001 - \$100,000	20
\$100,001 - \$500,000	42
\$500,001 - \$1,000,000	12
\$1,000,001 - \$2,000,000	7
More than \$2,000,000	7

¹ Based on data submitted to the MSRB's Short-Term Obligation Rate Transparency (SHORT) System. May exclude submissions that could not be categorized based on available data.

Auction Rate Securities¹ Trade Type and Size

Average daily par amount in \$ millions

	2018:Q2
All Trades	
Total	31.4
0 - \$25,000	0.2
\$25,001 - \$50,000	0.3
\$50,001 - \$75,000	0.2
\$75,001 - \$100,000	0.9
\$100,001 - \$500,000	5.1
\$500,001 - \$1,000,000	3.5
\$1,000,001 - \$2,000,000	3.2
More than \$2,000,000	17.9

Customer Bought	
Total	11.9
0 - \$25,000	0.1
\$25,001 - \$50,000	0.1
\$50,001 - \$75,000	0.1
\$75,001 - \$100,000	0.2
\$100,001 - \$500,000	1.5
\$500,001 - \$1,000,000	1.1
\$1,000,001 - \$2,000,000	1.2
More than \$2,000,000	7.6

Customer Sold	
Total	10.9
0 - \$25,000	0.1
\$25,001 - \$50,000	0.1
\$50,001 - \$75,000	0.1
\$75,001 - \$100,000	0.5
\$100,001 - \$500,000	2.0
\$500,001 - \$1,000,000	1.2
\$1,000,001 - \$2,000,000	1.0
More than \$2,000,000	6.1

Inter-Dealer	
Total	8.5
0 - \$25,000	<0.1
\$25,001 - \$50,000	0.1
\$50,001 - \$75,000	0.1
\$75,001 - \$100,000	0.2
\$100,001 - \$500,000	1.6
\$500,001 - \$1,000,000	1.2
\$1,000,001 - \$2,000,000	1.1
More than \$2,000,000	4.2

¹ Based on data submitted to the MSRB's Short-Term Obligation Rate Transparency (SHORT) System. May exclude submissions that could not be categorized based on available data.

Auction Rate Securities¹ Trade Type and Size

	2018:Q2
All Trades	
Total	54
0 - \$25,000	8
\$25,001 - \$50,000	6
\$50,001 - \$75,000	3
\$75,001 - \$100,000	9
\$100,001 - \$500,000	18
\$500,001 - \$1,000,000	5
\$1,000,001 - \$2,000,000	2
More than \$2,000,000	2

Customer Bought	
Total	17
0 - \$25,000	3
\$25,001 - \$50,000	3
\$50,001 - \$75,000	1
\$75,001 - \$100,000	2
\$100,001 - \$500,000	6
\$500,001 - \$1,000,000	2
\$1,000,001 - \$2,000,000	1
More than \$2,000,000	1

Customer Sold	
Total	22
0 - \$25,000	1
\$25,001 - \$50,000	4
\$50,001 - \$75,000	2
\$75,001 - \$100,000	1
\$100,001 - \$500,000	5
\$500,001 - \$1,000,000	7
\$1,000,001 - \$2,000,000	2
More than \$2,000,000	1

Inter-Dealer	
Total	15
0 - \$25,000	2
\$25,001 - \$50,000	2
\$50,001 - \$75,000	1
\$75,001 - \$100,000	2
\$100,001 - \$500,000	6
\$500,001 - \$1,000,000	2
\$1,000,001 - \$2,000,000	1
More than \$2,000,000	1

¹ Based on data submitted to the MSRB's Short-Term Obligation Rate Transparency (SHORT) System. May exclude submissions that could not be categorized based on available data.

Municipal Market Coupon Distributions

Customer Trade and Size of Tax Exempt, Fixed Rate Securities

Average daily yields

	2018:Q2
All Trades	
Total	2.62
0 - \$25,000	2.70
\$25,001 - \$50,000	2.58
\$50,001 - \$75,000	2.49
\$75,001 - \$100,000	2.52
\$100,001 - \$500,000	2.48
\$500,001 - \$1,000,000	2.60
\$1,000,001 - \$2,000,000	2.67
More than \$2,000,000	2.75

Customer Bought	
Total	2.49
0 - \$25,000	2.56
\$25,001 - \$50,000	2.45
\$50,001 - \$75,000	2.33
\$75,001 - \$100,000	2.39
\$100,001 - \$500,000	2.34
\$500,001 - \$1,000,000	2.54
\$1,000,001 - \$2,000,000	2.67
More than \$2,000,000	2.74

Customer Sold	
Total	2.74
0 - \$25,000	2.89
\$25,001 - \$50,000	2.68
\$50,001 - \$75,000	2.58
\$75,001 - \$100,000	2.53
\$100,001 - \$500,000	2.45
\$500,001 - \$1,000,000	2.52
\$1,000,001 - \$2,000,000	2.60
More than \$2,000,000	2.74

Municipal Market Variable Securities Rate Resets

Number of Variable Rate Demand Obligations Rate Resets by Type¹

	2018:Q2
Total	95,650
Set by Remarketing Agent	95,490
Set by Formula	96
Maximum Rate	64

¹ Based on data submitted to the MSRB's Short-Obligation Rate Transparency (SHORT) System. May exclude submissions that could not be categorized based on available information.

Municipal Market Variable Securities Rate Resets

Number of Auction Rate Securities Rate Resets by Type¹

	2018:Q2
Total	1,453
Set by Auction	540
Maximum Rate	838
All Hold Rate	75

¹ Based on data submitted to the MSRB's Short-Obligation Rate Transparency (SHORT) System. May exclude submissions that could not be categorized based on available information.

Municipal Market Disclosures

Continuing Disclosures Submissions

Number of Documents

	2018:Q2
Bond Call	8,885
Audited Financial Statements or CAFR	7,692
Annual Financial Information and Operation Data	6,824
Quarterly/Monthly Financial Information	3,634
Other Financial/Operating Data	2,125
Rating Change	1,718
Other Event-Based Disclosures	1,271
Budget	1,217
Failure to Provide Annual Financial Info	936
Defeasance	438
Interim/Additional Financial Information/Operating Data	272
Notice to Investor Pursuant to Bond Documents	141
Principal & Interest Payment Delinquency	127
Bank Loan	91
Tender Offer/Secondary Market Purchases	76
Consultant Reports	54
Information Provided to Rating Agency, Credit/Liquidity Provider or Other Third Party	50
Non-payment Related Default	45
Asset Backed Securities Filings ¹	32
Successor, Additional or Change in Trustee	32
Investment/Debt/Financial Policy	29
Bid for Auction Rate or Other Securities	26
Consolidation	23
Unscheduled Draw on Debt Service Reserve	20
Bankruptcy, Insolvency, Receivership	18
Substitution of Credit or Liquidity Provider or Its Failure to Perform	18
Modification to the Rights of Security Holders	15
Amendment to Continuing Disclosure Undertaking	15
Release, Substitution or Sale of Property	15
Litigation/Enforcement Action	12
Capital or Other Financing Plan	12
Unscheduled Draw on Credit Enhancement	9
Change in Fiscal Year/Timing of Annual Disclosure	9
Change of Tender Agent, Remarketing Agent, or Other On-Going Party	8
Derivative	4
Communication from the Internal Revenue Service	4
Change in Obligated Person	3

¹ Disclosures related to municipal asset-backed securities required under Securities Exchange Act of 1934 Rule 15Ga-1

Definition of Terms Used

Alternative Minimum Tax (AMT) Municipal Security—a tax-exempt bond, interest on which is subject to the alternative minimum tax.

Auction Rate Securities (ARS)—variable rate bonds whose interest rate is reset periodically under the Dutch auction process.

Bond—a security with two years or more in maturity (maturity date less dated date) with fixed or zero interest rate.

Commercial Paper—short-term, unsecured promissory notes, usually backed by a line of credit with a bank, that mature within 270 days.

CUSIP number (Committee on Uniform Securities Identification Procedures)—an identification number assigned to each maturity of an issue intended to help facilitate the identification and clearance of securities.

Customer Bought—a municipal trade in which a customer bought the security from a broker dealer or bank.

Customer Sold—a municipal trade in which a customer sold the security to a broker-dealer or bank.

Customer Trade—a municipal securities trade between a broker-dealer (including a dealer bank or broker's broker), acting as agent in an agency trade or as purchaser or seller in a principal trade, and a contra-party that is not a broker-dealer (including including a dealer bank or broker's broker).

Dated Date—the date of an issue from which interest on the issue usually starts to accrue, even though the issue may actually be delivered at some later date.

Double Barrel Municipal Security—a security with characteristics of both revenue and general obligation instruments.

Fixed Rate—an interest rate on a security that does not change for the remaining life of the security.

General Obligation Municipal Security— a security that is secured by the full faith, credit and taxing power of an issuer. General obligation securities issued by local units of government are typically secured by a pledge of the issuer's "ad valorem" taxing power; general obligation securities issued by states are generally based upon appropriations made by the state legislature for the purposes specified.

Inter-Dealer—a municipal securities trade between two broker-dealers, including dealer banks or broker's brokers.

Long Note—a security with over nine months in maturity, but under two years in maturity (maturity date less dated date) with fixed or zero interest rate.

Revenue Municipal Security—a security that is payable from a specific source of revenue and to which the full faith and credit of an issuer with taxing power is not pledged. Revenue bonds are payable from identified sources of revenue and do not permit the bondholders to compel taxation or legislative appropriation of funds not pledged for payment of debt service.

RULE 15c2-12—an SEC rule under the Securities Exchange Act of 1934 setting forth certain obligations of (i) underwriters to receive, review and disseminate official statements prepared by issuers of most primary offerings of municipal securities, (ii) underwriters to obtain continuing disclosure agreements from issuers and other obligated persons to provide material event disclosures and annual financial information on a continuing basis, and (iii) broker-dealers to have access to such continuing disclosure in order to make recommendations of municipal securities in the secondary market.

Sector—transactions according to the security's use of proceeds, i.e., issuer's intended use of the capital raised by the offering, according to definitions provided by Standard & Poor's Securities Evaluations, Inc. The top seven most active sectors based on par amount are displayed, as well as an "Other" category that includes the remaining sectors and trades for which the sector information was not available.

Short Note—a security with nine months or less in maturity (maturity date less dated date) with fixed or zero interest rate.

Tax Exempt—interest on most municipal securities is excluded from gross income for federal income tax purposes and may or may not be exempt from state income or personal property taxation in the jurisdiction where issued or in other jurisdictions. If the bond is exempt from state income tax, it possesses "double exemption" status. "Triple exemption" bonds are exempt from municipal, local income or other special taxes, as well as from federal and state income tax.

Taxable—bonds or other securities issued by a municipal issuer for which interest or other investment return is included in gross income for federal income tax purposes. A municipal security may be issued on a taxable basis because the intended use of proceeds does not meet federal tax law requirements for the exclusion from gross income (e.g., private activity bonds that are not qualified bonds) or because certain other federal tax law requirements are not met (e.g., insufficient volume cap).

Variable (Long and Short)—variable interest rate securities with interest reset periods. Over 99 percent of these securities are short variable (interest reset period of nine months or less) as opposed to long variables (interest reset period longer than nine months.)

Variable Rate—an interest rate, sometimes referred to as a "floating rate," on a security that changes at intervals according to market conditions or a predetermined index or formula.

Variable Rate Demand Obligation (VRDO)—floating rate obligations that have a nominal long-term maturity but have a coupon rate that is reset periodically (e.g., daily or weekly). The investor has the option to put the issue back to the trustee or tender agent at any time with specified (e.g., seven days') notice.

Zero Coupon—an original issue discount bond on which no periodic interest payments are made but which is issued at a deep discount from par, accreting (at the rate represented by the offering yield at issuance) to its full value at maturity.

Continuing Disclosure Definitions

Financial/Operating-based disclosures

Rule 15c2-12-Based Financial/Operating Data

Annual Financial Information and Operating Data—issuer's/obligated person's financial information or operating data, of the type included in the original official statement, provided on at least an annual basis—see Exchange Act Rule 15c2-12(b)(5)(i)(A), 15c2-12(d)(2)(ii)(A) and 15c2-12(f)(9).

Audited Financial Statements or CAFR—issuer's/ obligated person's audited financial statements or Comprehensive Annual Financial Report, if not included in annual financial information and operating data—see Exchange Act Rule 15c2-12(b)(5)(1)(B).

Failure to Provide Annual Financial Information—notice that issuer's/obligated person's annual financial information and operating data not submitted by date specified in the continuing disclosure undertaking—see Exchange Act Rule 15c2-12(b)(5)(i)(A).

Additional/Voluntary Financial/Operating Data

Quarterly/Monthly Financial Information—issuer's/obligated person's financial information provided on a quarterly or monthly basis.

Change in Fiscal Year/Timing of Annual Disclosure—notice that issuer's/obligated person's fiscal year has changed or the date specified in the continuing disclosure undertaking for submitting annual financial information and operating data has changed.

Change in Accounting Standard—notice that issuer's/obligated person's accounting standards pursuant to which it prepares its financial information have changed.

Interim/Additional Financial Information/Operating Data—additional financial or operating data of issuer/obligated person supplementing annual financial information or operating data or providing such information or data on an interim basis in addition to the annual submission.

Budget—issuer's/obligated person's budget document or other information relating to its budget.

Investment/Debt/Financial Policy—issuer's/obligated person's policy on its investment activities, debt incurrence or other financial matters.

Information Provided to Rating Agency, Credit/Liquidity Provider or Other Third Party—information that issuer/obligated person has provided to a rating agency, provider of a credit or liquidity facility or other entity that the issuer/obligated person wishes to be made available publicly.

Consultant Reports—report prepared for or about an issuer/obligated person by a third-party in connection with the issuer's/obligated person's issue of securities or other financial or operating matters.

Other Financial/Operating Data—any financial information or operating data of the issuer/obligated person not otherwise described in another category.

Event-Based Disclosures

Rule 15c2-12 Material Event Notices

P&I Payment Delinquency—a delinquency in scheduled payment of principal of or interest on municipal securities—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(1).

Non-payment Related Default—a default relating to municipal securities other than a delinquency in payment of principal or interest, if material—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(2).

Unscheduled Draw on Debt Service Reserve—an unscheduled draw on any debt service reserve fund/account that reflects financial difficulties of the issuer/obligated person or in connection with the municipal securities—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(3).

Unscheduled Draw on Credit Enhancement—an unscheduled draw on credit enhancement for municipal securities reflecting financial difficulties of the issuer/obligated person or in connection with the municipal securities—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(4).

Substitution of Credit or Liquidity Provider or Its Failure to Perform—a change in the entity providing any credit enhancement or liquidity support for the municipal securities, or any failure by such entity to perform its obligations under such credit enhancement or liquidity support—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(5).

Adverse Tax Opinion or Event Affecting Tax-Exempt Status—notice of an adverse tax opinion, issuance by the Internal Revenue Service of proposed or final determination of taxability, Notice of Proposed Issue (IRS Form 5701-TEB) or other material notice of determination with respect to the tax status of the municipal securities, or other material event affecting the tax status of the municipal securities—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(6).

Modification to the Rights of Security Holders—a modification to the rights of holders of the municipal securities, if material—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(7).

Bond Call—a notice that municipal securities are called for redemption, if material—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(8).

Tender Offer/Secondary Market Purchases—a notice that the issuer/obligated person is seeking offers to tender municipal securities for purchase or redemption by the issuer/obligated person, or that the issuer/obligated person has or seeks to purchase its securities in the secondary market—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(8).

Defeasance—a notice that municipal securities have been defeased, typically by establishment of an escrow to pay principal and interest and the release of the covenants and original security lien—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(9).

Release, Substitution or Sale of Property—a notice that there has been a release, substitution or sale of property securing repayment of the municipal securities, if material—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(10).

Rating Change—a notice that a rating assigned by a rating agency on the municipal securities, the issuer of municipal securities, an obligated person or other rating relating to the municipal securities has been changed—see Exchange Act Rule 15c2-12(b)(5)

Bankruptcy, Insolvency, Receivership—a notice of bankruptcy, insolvency, receivership or similar event of the issuer/obligated person—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(12).

Merger, Consolidation, Acquisition and Sale of Assets—a notice of the consummation of a merger, consolidation, or acquisition involving an issuer/obligated person, or the sale of all or substantially all of the assets of the issuer/obligated person, if material—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(13).

Successor, Additional or Change in Trustee—a notice of the appointment of a successor or additional trustee, or the change of name of a trustee, if material—see Exchange Act Rule 15c2-12(b)(5)(i)(C)(14).

Additional/Voluntary Event-Based Disclosures

Amendment to Continuing Disclosure Undertaking—a notice that the issuer/obligated person has amended the continuing disclosure undertaking relating to its municipal securities.

Change in Obligated Person—a notice that a new obligated party for whom continuing disclosures will be provided has been added with respect

to municipal securities and, if applicable, an existing obligated person has been released from its continuing disclosure obligation.

Notice to Investor Pursuant to Bond Documents—a notice required or authorized to be provided under the legal documents relating to the municipal securities.

Communication from the Internal Revenue Service—a notice of any communication from the Internal Revenue Service to the issuer/obligated person other than the items covered by "Adverse Tax Opinion or Event Affecting Tax-Exempt Status" above.

Bid for Auction Rate or Other Securities—a notice of a bid placed by the issuer/obligated person to purchase auction rate securities through the auction rate setting procedure or the purchase of any other of its securities.

Capital or Other Financing Plan—disclosure regarding an issuer's/obligated person's capital improvement plans or other financing or refinancing plans

Litigation/Enforcement Action—disclosure regarding any litigation involving the issuer/obligated person or any other relevant party that has the

potential to have a material impact on the municipal securities, or any regulatory enforcement action that may have such an impact.

Change of Tender Agent, Remarketing Agent, or Other On-Going Party—a notice of a change in the tender agent, remarketing agent, or other market participant that provides on-going services in connection with the issuer's/obligated person's municipal securities.

Derivative or Other Similar Transaction—any notice, disclosure or other document relating to derivatives or other financial products or structures used in connection with the issuer's/obligated person's municipal securities.

Other Event-Based Disclosures—any notice, disclosure or other document relating to the occurrence of an event or other non-financial matter relating to the issuer's/obligated person's municipal securities not otherwise described in another category.