

Quarterly Statistical Summaries 2019 First Quarter: January - March

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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 2018 Fact Book or visit the EMMA website at EMMA.MSRB.org.

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¹ As described in a 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 the EMMA website, 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 \$756.1 billion in 2019:Q1, nearly unchanged from 2018:Q1 but 3.2% lower than the \$780.8 billion in 2018:Q4. Total number of trades decreased by 5.1% to 2.4 million traded compared to the same period in 2018.

Most Actively Traded Municipal Securities

Recently restructured bonds from Puerto Rico Sales Tax Financing Corporation (COFINA) accounted for the top 11 most traded securities with over 37,000 trades in 2019:Q1. A revenue bond from the Industrial Development Board of the Parish of East Baton Rouge was the most actively traded security with \$6.8 billion in 2019:Q1.

Municipal Market Trades by Trade Type

Customer buying activity accounted for 39% of the 40,097 trades in 2019:Q1, unchanged from 2018:Q1. Customer sales accounted for 23% of all trades in the period.

A daily average of \$412.9 million, or 6.8% of customer purchases of trades of \$100,000 or less, occurred in 2019:Q1, compared to \$435.3 billion, or 7.2% of all customer purchases, in 2018:Q1.

Municipal Market Variable Securities Rate Resets

The number of variable rate demand obligations rate resets continued to decline in 2019:Q1 to 88,500, down from the 95,513 rate resets in 2018:Q1.

The number of auction rate securities rate resets totaled 972 in 2019:Q1 compared to 1,571 resets in 2018:Q1.

Municipal Market Disclosures

The number of continuing disclosure documents received by the MSRB totaled 43,878 in 2019:Q1, nearly unchanged from the 44,449 documents in the same period of 2018.

Municipal Market Trade Summary

Transaction Summary

Total par amount traded in \$ millions

	2019:Q1
Total	756,136.7
By Trade Type	
Customer Bought	368,025.0
Customer Sold	244,816.3
Inter-Dealer	143,295.4
By Coupon Type	
Fixed Rate	479,726.9
Variable Rate	208,669.9
Zero Coupon	20,063.9
Other ¹	47,676.0
By Source of Repayment	
General Obligation	214,064.8
Revenue	495,200.7
Double Barrel	16,999.0
Other ¹	29,872.1
By Tax Status	
Tax Exempt	633,500.0
Taxable	55,584.1
AMT	35,998.9
Other ¹	31,053.7

 $^{^{\}rm 1}$ 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

	2019:Q1
Total	2,445,914
By Trade Type	
Customer Bought	951,114
Customer Sold	559,650
Inter-Dealer	935,150
By Coupon Type	
Fixed Rate	2,279,860
Variable	79,818
Zero Coupon	81,094
Other ¹	5,142
By Source of Repayment	
General Obligation	923,153
Revenue	1,444,657
Double Barrel	75,300
Other ¹	2,804
By Tax Status	
Tax Exempt	2,255,500
Taxable	155,611
AMT	31,354
Other ¹	3,449

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

Top 50 Most Active Securities, 2019:Q1 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	2,969.4	189
2	60528AAS3	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	-	12/1/2030	2,816.7	120
3	74529JQG3	PUERTO RICO SALES TAX FING CORP SALES TAX REV	-	7/1/2046	2,734.1	5,504
4	74529JQH1	PUERTO RICO SALES TAX FING CORP SALES TAX REV	-	7/1/2051	2,665.5	5,253
5	402207AD6	GULF COAST INDL DEV AUTH TEX REV	-	11/1/2041	2,635.4	252
6	74529JPX7	PUERTO RICO SALES TAX FING CORP SALES TAX REV	5.00	7/1/2058	2,306.4	4,662
7	270777AD7	EAST BATON ROUGE PARISH LA INC INDL DEV BRD REV	-	12/1/2040	2,094.0	158
8	072024VU3	BAY AREA TOLL AUTH CALIF TOLL BRDG REV	2.63	4/1/2045	2,041.1	68
9	64966ML98	NEW YORK N Y	-	12/1/2047	1,592.9	124
10	79766DMB2	SAN FRANCISCO CALIF CITY & CNTY ARPTS COMMN INTL ARPT REV	5.00	5/1/2049	1,461.5	205
11	64966G4Q2	NEW YORK N Y	-	4/1/2035	1,353.1	171
12	74514LE86	PUERTO RICO COMWLTH	8.00	7/1/2035	1,219.0	549
13	57586CV69	MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV	-	12/1/2037	1,126.5	99
14	882724GP6	TEXAS ST	4.00	8/29/2019	1,113.8	1,052
15	60528ABY9	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	-	11/1/2035	1,110.2	123
16	25476FXV5	DISTRICT COLUMBIA	5.00	10/15/2044	1,091.7	120
17	60528AAW4	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	-	12/1/2030	1,061.7	89
18	882854Q70	TEXAS WTR DEV BRD REV	5.00	4/15/2049	1,055.6	307
19	59261AXV4	METROPOLITAN TRANSN AUTH N Y REV	4.00	2/3/2020	1,022.8	1,659
20	546398YU6	LOUISIANA PUB FACS AUTH REV	-	8/1/2043	1,014.5	54
21	60528ACB8	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	-	11/1/2035	1,012.6	90
22	89602RFA8	TRIBOROUGH BRDG & TUNL AUTH N Y REVS	-	11/1/2032	977.9	178
23	36829QAA3	GDB DEBT RECOVERY AUTH OF COMWLTH PUERTO RICO	7.50	8/20/2040	930.2	1,747
24	79766DMA4	SAN FRANCISCO CALIF CITY & CNTY ARPTS COMMN INTL ARPT REV	5.00	5/1/2044	914.0	132
25	6461364X6	NEW JERSEY ST TRANSN TR FD AUTH	5.25	6/15/2043	882.0	255
26	13063BCH3	CALIFORNIA ST	-	5/1/2033	879.1	93
27	64966JE77	NEW YORK N Y	-	4/1/2042	876.1	263
28	59260XAA6	METROPOLITAN TRANSN AUTH N Y DEDICATED TAX FD	5.00	3/1/2022	870.2	380
29	64971XHT8	NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV	-	8/1/2042	869.7	130
30	91412HFG3	UNIVERSITY CALIF REVS	3.35	7/1/2029	862.1	250
31	64971XFY9	NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV	-	8/1/2045	860.3	133
32	74529JPW9	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.75	7/1/2053	847.2	3,839
33	60528AAT1	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	-	12/1/2030	836.1	97
34	533485BD9	LINCOLN CNTY WYO POLLUTN CTL REV	_	10/1/2044	832.3	42
35	919061BU4	VALDEZ ALASKA MARINE TERM REV	-	10/1/2025	819.3	102
36	548351AC9	LOWER NECHES VALLEY AUTH TEX INDL DEV CORP REV	-	11/1/2038	816.8	186
37	9151153W7	UNIVERSITY TEX PERM UNIV FD	-	7/1/2037	800.9	59
38	467229AF7	JACKSON CNTY MISS PORT FAC REV	-	6/1/2023	798.9	97
39	13033FK74	CALIFORNIA HEALTH FACS FING AUTH REV	-	6/1/2041	797.3	164
40	64966FA87	NEW YORK N Y	-	4/1/2036	793.5	104
41	548351AE5	LOWER NECHES VALLEY AUTH TEX INDL DEV CORP REV	_	5/1/2046	793.1	128
42	167593M66	CHICAGO ILL O HARE INTL ARPT REV	5.00	1/1/2053	786.4	63
43	20786LDG3	CONNECTOR 2000 ASSN INC S C TOLL RD REV	-	1/1/2019	781.0	16
44	544495DH4	LOS ANGELES CALIF DEPT WTR & PWR REV	-	7/1/2034	770.6	331
45	903592AQ6	UINTA CNTY WYO POLLUTION CTL REV	-	8/15/2020	764.9	67
46	64966LCJ8	NEW YORK N Y	-	8/1/2038	757.0	272
47	45471AAS1	INDIANA FIN AUTH HOSP REV	-	12/31/2039	748.9	159
48	45204EM39	ILLINOIS FIN AUTH REV	-	11/15/2037	748.5	135
49	54834RAC3	LOWER NECHES VALLEY AUTH TEX INDL DEV CORP EXEMPT FACS REV	-	2/1/2031	740.1	43
50	6461364Z1	NEW JERSEY ST TRANSN TR FD AUTH	4.50	6/15/2049	729.8	1,987
30	0-0130421	THE TO VEHICLE OF THAT HAVE A COLUMN	7.50	0, 13, 2043	723.0	1,507

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Top 50 Most Active Securities, 2019:Q1By number of trades

					Par Amount	Number of_
Rank	CUSIP ¹	Issuer Name	Coupon	Maturity	(\$ Millions)	Trades
1	74529JQG3	PUERTO RICO SALES TAX FING CORP SALES TAX REV	-	7/1/2046	2,734.1	5,504
2	74529JQH1	PUERTO RICO SALES TAX FING CORP SALES TAX REV	-	7/1/2051	2,665.5	5,253
3	74529JPX7	PUERTO RICO SALES TAX FING CORP SALES TAX REV	5.00	7/1/2058	2,306.4	4,662
4	74529JPW9	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.75	7/1/2053	847.2	3,839
5	74529JPY5	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.55	7/1/2040	563.6	3,495
6	74529JQF5	PUERTO RICO SALES TAX FING CORP SALES TAX REV	-	7/1/2033	537.9	3,079
7	74529JQE8	PUERTO RICO SALES TAX FING CORP SALES TAX REV	-	7/1/2031	478.6	2,778
8	74529JQA6	PUERTO RICO SALES TAX FING CORP SALES TAX REV	5.00	7/1/2058	238.7	2,535
9	74529JQC2	PUERTO RICO SALES TAX FING CORP SALES TAX REV	-	7/1/2027	471.9	2,282
10	74529JQD0	PUERTO RICO SALES TAX FING CORP SALES TAX REV	-	7/1/2029	381.5	2,262
11	74529JPU3	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.50	7/1/2034	440.6	2,005
12	6461364Z1	NEW JERSEY ST TRANSN TR FD AUTH	4.50	6/15/2049	729.8	1,987
13	36829QAA3	GDB DEBT RECOVERY AUTH OF COMWLTH PUERTO RICO	7.50	8/20/2040	930.2	1,747
14	74529JQB4	PUERTO RICO SALES TAX FING CORP SALES TAX REV	-	7/1/2024	293.4	1,670
15	59261AXV4	METROPOLITAN TRANSN AUTH N Y REV	4.00	2/3/2020	1,022.8	1,659
16	74514LB89	PUERTO RICO COMWLTH	5.00	7/1/2041	608.6	1,528
17	74529JPV1	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.55	7/1/2040	251.4	1,238
18	882724GP6	TEXAS ST	4.00	8/29/2019	1,113.8	1,052
19	167593L42	CHICAGO ILL O HARE INTL ARPT REV	4.00	1/1/2043	172.3	1,025
20	83703FLQ3	SOUTH CAROLINA JOBS-ECONOMIC DEV AUTH HOSP REV	4.25	5/1/2048	121.9	911
21	167593M74	CHICAGO ILL O HARE INTL ARPT REV	4.00	1/1/2053	84.6	892
22	646140DC4	NEW JERSEY ST TPK AUTH TPK REV	4.00	1/1/2048	536.0	849
23	74529JHN8	PUERTO RICO SALES TAX FING CORP SALES TAX REV	6.00	8/1/2042	252.7	794
24	6461364T5	NEW JERSEY ST TRANSN TR FD AUTH	4.00	6/15/2036	163.1	793
25	93976ABH4	WASHINGTON ST CONVENTION CTR PUB FACS DIST	4.00	7/1/2058	123.8	791
26	491209AW2	KENTUCKY BD DEV CORP CONVENTION FACS REV	4.00	9/1/2048	106.7	771
27	167593M41	CHICAGO ILL O HARE INTL ARPT REV	4.00	1/1/2044	532.9	675
28	650010AD3	NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS	5.00	5/1/2019	345.1	667
29	37329DBS5	GEORGIA MUN ELEC AUTH PWR REV	4.13	1/1/2049	48.9	667
30	65830RCL1	NORTH CAROLINA TPK AUTH TRIANGLE EXPWY SYS REV	4.00	1/1/2041	65.3	664
31	6461364J7	NEW JERSEY ST TRANSN TR FD AUTH	4.00	12/15/2037	106.2	651
32	60636ASR5	MISSOURI ST HEALTH & EDL FACS AUTH EDL FACS REV	3.75	10/1/2043	68.6	633
33	6461364W8	NEW JERSEY ST TRANSN TR FD AUTH	4.13	6/15/2039	96.0	620
34	64990GGK2	NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT	4.95	8/1/2048	111.9	608
35	74529JLM5	PUERTO RICO SALES TAX FING CORP SALES TAX REV	5.25	8/1/2041	184.0	605
36	70014RBJ5	PARK 70 MET DIST COLO	4.00	12/1/2048	58.2	596
37	745235R37	PUERTO RICO PUB BLDGS AUTH REV GTD	5.25	7/1/2042	229.9	594
38	13063A5G5	CALIFORNIA ST	7.55	4/1/2039	346.4	592
39	74529JQY4	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.55	7/1/2040	134.8	590
40	74514LB63	PUERTO RICO COMWLTH	5.13	7/1/2037	140.8	586
41	56035DBU5	MAIN STR NAT GAS INC GA GAS SUPPLY REV	4.00	5/15/2039	111.2	585
42	956622N91	WEST VIRGINIA ST HOSP FIN AUTH HOSP REV	4.00	6/1/2051	54.5	575
43	74514LE86	PUERTO RICO COMWLTH	8.00	7/1/2035	1,219.0	549
44	19648FHR8	COLORADO HEALTH FACS AUTH REV	4.25	9/15/2038	36.8	540
45	090874NM6	BIRDVILLE TEX INDPT SCH DIST	3.75	2/15/2044	98.7	532
46	64972GPY4	NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	3.63	6/15/2048	94.6	531
47	745160RC7	PUERTO RICO COMWLTH AQUEDUCT & SWR AUTH REV	5.25	7/1/2042	388.3	526
48	34074GDH4	FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV	3.00	7/1/2020		514
	64966MR68	NEW YORK N Y	3.13	8/1/2035		511
50		NEW YORK TRANSN DEV CORP SPL FAC REV	4.00	7/1/2041		499

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Top 50 Most Active Fixed Rate Securities, 2019:Q1 By par amount

1 74329/PX7 PUERTO RICO SALES TAX FING CORP SALES TAX REV 5.00 7/1/2038 2,306.4 4, 2 72566MBZ SAN FRANCSO CALE CITY & CATY ARPTS COMMN INTL ARPT REV 5.00 7/1/2031 1,219.0 1						Par Amount	Number of
2 79756BMB2 SAN FRANCISCO CALIF CITY & CATY ARPTS COMMN INTL ARPT REV 8.00 7/1/2035 1,246.15 4 882726GP6 FEASS ST 4.00 8/29/2019 1,113.8 1, 5 22476FVS DISTRICT COLUMBIA 5.00 10/15/2044 1,1091.7 6 88285G270 FEASS ST 5.02 1476FVS DISTRICT COLUMBIA 5.00 10/15/2044 1,1091.7 6 88285G270 FEASS ST 5.02 1476FVS DISTRICT COLUMBIA 5.00 10/15/2044 1,1091.7 6 88285G270 FEASS ST 5.02 1476FVS DISTRICT COLUMBIA 5.00 10/15/2044 1,1091.7 6 88285G270 FEASS ST 5.02 1476FVS DISTRICT COLUMBIA 6 88285G270 FEASS ST 5.02 1476FVS DISTRICT COLUMBIA 6 88285G270 FEASS ST 5.02 1476FVS DISTRICT COLUMBIA 7 500 1475/2049 1,1052.8 1,1092.8	Rank	CUSIP ²	Issuer Name	Coupon	Maturity	(\$ Millions)	Trades
3 74514LE86 PUENTO RICO COMWLTH	1	74529JPX7	PUERTO RICO SALES TAX FING CORP SALES TAX REV	5.00	7/1/2058	2,306.4	4,662
A 832724GP6 TEXAS T	2	79766DMB2	SAN FRANCISCO CALIF CITY & CNTY ARPTS COMMN INTL ARPT REV	5.00	5/1/2049	1,461.5	205
5 254767XVS DISTRICT COLUMBIA 5.00 10/15/2044 1,091.7 6 828264070 TEXAS WIT DEV BID REV 5.00 4/15/2098 1,052.6 7 59261AVV4 METROPOLITAN TRANSN AUTH NY REV 4.00 2/3/2020 1,022.8 1, 8 36829CAA3 GIOB DET RECOVERY AUTH OF COMWLTH PUERTO RICO 7.50 8/20/2040 930.2 1, 10 6461364X6 NEW JERSEY ST TRANSN TRED AUTH 5.25 6/15/2043 882.0 1, 11 5920XAA6 METROPOLITAN TRANSN AUTH NY DEDICATED TAX FD 5.00 3/1/2022 870.2 2 12 91412HG3 UNIVERSITY CALLE REVS 3.35 7/1/2033 882.0 1 13 74529PWP9 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4,75 7/1/2033 842.2 3. 14 167593PM56 CHICAGO ILL O HARE INTLARPT REV 5.00 1/1/2033 786.4 1,7 15 646136421 RIVERSEYS TTRANSIN TRE PO AUTH 4.50 6/15/2049 729.8 1,7 16 54466HH6 LOS ANGELES CANTY CALIF MET TRANSIN AUTH REV 5.00 <	3	74514LE86	PUERTO RICO COMWLTH	8.00	7/1/2035	1,219.0	549
6 882854070 TEXAS WITE DEV BRD REV 7 59261AXVIA METROPOLITAN TRANSN AUTH N Y REV 8 368290AN3 DBD BERT RECOVERY AUTH OF COMWLITH PUERTO RICO 7 79766DMA4 SAN FRANCISCO CALIF CITY & CNTY ARPTS COMMN INTL ARPT REV 5.00 5/1/2044 914.0 5.00 646136476 NEW JERSEY ST TRANSN TR FD AUTH 5.22 6/15/2043 882.0 11 59260XAA6 METROPOLITAN TRANSN AUTH N Y DEDICATED TAX FD 5.23 6/15/2043 882.0 12 91412HG3 UNIVERSENTY CALIF REV 8 3.35 7/1/2029 862.1 13 74529JPW9 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.75 7/1/2053 887.2 14 167593M66 CHICAGO ILLO HARE INTL ARPT REV 5.00 11/1/2053 786.4 15 646136421 NEW JERSEY ST TRANSN TR FD AUTH 4.50 6/15/2049 882.0 17 130179507 CALIFORNIA SALES TAX SING CORP SALES TAX REV 5.00 1/1/2044 684.9 17 130179507 CALIFORNIA SALES TAX SING CORP SALES TAX REV 5.00 7/1/2044 684.9 18 45215LIPS 18 45215LIPS 18 45215LIPS 10 45215LIPS 10 45215LIPS 10 45215LIPS 10 45215LIPS 11 50 54069HEB LO SALES TAX SING CORP SALES TAX REV 5.00 7/1/2044 684.9 17 130179507 CALIFORNIA SOLE MET TRANSN AUTH SALES TAX REV 5.00 7/1/2044 688.5 18 45414BB8 PUERTO RICO SALES TAX SING CORP SALES TAX REV 5.00 7/1/2044 688.5 19 45215LIPS 10 45215LIPS 10 54469HEB LO SALES TAX SING CORP SALES TAX REV 5.00 7/1/2044 688.5 10 6/15/2049 628.5 11 5449350VI LOS ANGELES CNITY CALIF MET TRANSN AUTH SALES TAX REV 5.00 7/1/2049 628.5 10 7	4	882724GP6	TEXAS ST	4.00	8/29/2019	1,113.8	1,052
7 \$925LAXV4 METROPOLITAN TRANSN AUTH N Y REV 8 38829QAAS GIBD EGER RECOVER YAUTH OF COMMULTIP PUERTO RICO 7 50 8/20/2040 930.2 1, 9 79766DMAD 7 10 6461364X6 NEW JERSEY ST TRANSN TR FD AUTH 11 54260XA66 METROPOLITAN TRANSN AUTH N Y DEDICATED TAX FD 11 59260XA66 METROPOLITAN TRANSN AUTH N Y DEDICATED TAX FD 12 91412HFG3 UNIVERSITY CALLE REVS 13 74529PW9 PUERTO RICO SALES TAX FING CORP SALES TAX REV 14 167593M66 CHICAGO ILL O HARE INTL ARPT REV 15 6461364X1 NEW JERSEY ST TRANSN TR FD AUTH 16 54466HHFG LOS ANGELES CANTY CALLE MET TRANSN AUTH SALES TAX REV 16 54466HHFG LOS ANGELES CANTY CALLE MET TRANSN AUTH SALES TAX REV 17 1201795507 18 74514LB89 PUERTO RICO SALES TAX FING CORP SALES TAX REV 18 74514LB89 PUERTO RICO SALES TAX FREV 19 45215LIF8 ILLINOIS ST 20 64973KED NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 20 64973KED NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 21 5444956V1 LOS ANGELES CALLE DEPT WITR & PWR REV 22 677660023 GHO STWY FOR WAITH FOLLOTION CIT FLES REV 23 88880BHT2 CHOS ANGELES CALLE DEPT WITR & PWR REV 24 794676CN 3ALES TAX SECURITIZATION CORP ILL 25 64990FLIS NEW YORK ST DORM AUTH SFERS INCOME TAX REV 26 74599BYPS DET TO RICO SALES TAX FING CORP PAIL 27 100301317 CALLEGRAIN STREE AUTH FREV 28 646140DCC NEW YORK ST DORM AUTH ST PERS INCOME TAX REV 29 1306301137 CALLEGRAIN ST TRE AUTH THE REV 20 14072045 BAX REV SALES TAX FEV 20 14072045 BAX REV SALES TAX FEV 21 1506301137 CALLEGRAIN ST TER AUTH THE REV 21 1506301137 CALLEG	5	25476FXV5	DISTRICT COLUMBIA	5.00	10/15/2044	1,091.7	120
8 368290AA3 ODB DERT RECOVERY AUTH OF COMWLTH PUERTO RICO 7.50 8/20/2040 930.2 1, 979660MA6 SAN FRANCISCO CALIF CITY & CNTY ARPTS COMMN INTL ARPT REV 5.00 5/1/2044 914.0 10 646136436 New Freety ST TRANSN TR FD AUTH 5.25 6/15/2043 882.0 3/17/2021 870.2 1 914124F63 UNIVERSELY ST TRANSN TR FD AUTH 5.25 6/15/2043 882.0 3/17/2021 870.2 1 914124F63 UNIVERSELY ST TRANSN AUTH NY DEDICATED TAX FD 5.00 3/17/2029 862.1 1 74529/PW9 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.75 7/17/2053 887.2 3, 14167593M66 CHICOGO ILLO HARE INTL ARPT REV 5.00 1/17/2053 78.64 1 167593M66 CHICOGO ILLO HARE INTL ARPT REV 5.00 1/17/2053 78.64 1 167593M66 CHICOGO ILLO HARE INTL ARPT REV 5.00 1/17/2053 78.64 1 167593M66 CHICOGO ILLO HARE INTL ARPT REV 5.00 1/17/2053 78.64 1 167593M66 CHICOGO ILLO HARE INTL ARPT REV 5.00 1/17/2044 684.9 1 13017/9507 CALIFORNIA EDI FACE AUTH REV 5.00 7/17/2044 684.9 1 13017/9507 CALIFORNIA EDI FACE AUTH REV 5.00 7/17/2044 684.9 1 13017/9507 CALIFORNIA EDI FACE AUTH REV 5.00 7/17/2044 668.6 1 1 147/2045 1	6	882854Q70	TEXAS WTR DEV BRD REV	5.00	4/15/2049	1,055.6	307
9 79766DMA4 SAN FRANCISCO CALIF CITY & CNTY ARPTS COMMN INTLARPT REV 10 6461364X6 NEW JERSEY ST TRANSN TR FD AUTH 11 59260XAA6 METROPOULTAN TRANSN AUTH NY DEDICATED TAX FD 11 59260XAA6 METROPOULTAN TRANSN AUTH NY DEDICATED TAX FD 12 91412HFG3 UNIVERSITY CALIF REVS 13 74529JPW9 PURTOR RICO SALES TAX FING CORP SALES TAX REV 14 167593M66 CHICAGO ILL O HARE INTL ARPT REV 15 6461364Z1 NEW JERSEY ST TRANSN TR FD AUTH 16 54466HHF6 LOS ANGELES CALIF DET TRANSN AUTH NY DEDICATED TAX REV 17 130179507 CALIFORNIA EDI FACS SUITH REV 18 74514LB89 PURTOR RICO SALES TAX FING CORP SALES TAX REV 19 452151LF8 ILLINOIS ST 20 64971XEB0 AVEN VORK NY CITY TRANSITIONAL FIN AUTH REV 21 54043556V1 LOS ANGELES CALIF DEFT WTR & PWR REV 22 677660UZ3 OHIO ST WTR DEV AUTH POLLUTION CTL FACS REV 23 888808HT2 TOBACCO SETTLEMENT FING CORP N J 24 79467BCN3 SALES TAX SECURITIZATION CORP ILL 25 644504DCA SALES TAX SECURITIZATION CORP ILL 26 74529JPYS PURTOR RICO SALES TAX FING CORP SALES TAX REV 27 13063DLS CALIFORNIA ST SALES TAX FING CORP SALES TAX REV 38 66440DCA NEW JERSEY ST TRANS MAUTH STEPS INCOME TAX REV 40 11/1/2048 566.7 27 13063DLS CALIFORNIA ST CORP ILL 26 74599FLJ NEW YORK ST DOTAM AUTH ST FERS INCOME TAX REV 40 11/1/2048 566.7 27 13063DLS CALIFORNIA ST 50 11/1/2048 566.7 28 664640DCA NEW JERSEY ST TRANSH TOLL BARD TREV 50 11/1/2048 566.7 29 13063DLS CALIFORNIA ST 50 11/1/2048 566.7 29 13063DLS CALIFORNIA ST 50 4/1/2036 531.6 30 167593M41 CHICAGO ILL O HARE INTLARPT REV 50 4/1/2036 531.6 31 13063DLS CALIFORNIA ST 50 11/1/2048 530.0 50 11/1/2048 530.0 50 5/1/2049 583.0 50 5/1/	7	59261AXV4	METROPOLITAN TRANSN AUTH N Y REV	4.00	2/3/2020	1,022.8	1,659
11 S250XAGA MERDENYST TRANSN TE FD AUTH	8	36829QAA3	GDB DEBT RECOVERY AUTH OF COMWLTH PUERTO RICO	7.50	8/20/2040	930.2	1,747
11	9	79766DMA4	SAN FRANCISCO CALIF CITY & CNTY ARPTS COMMN INTL ARPT REV	5.00	5/1/2044	914.0	132
12 91412HFG3 UNIVERSITY CALIF REVS 3.35 7/1/2093 862.1 13 74529JPW9 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.75 7/1/2053 847.2 3,	10	6461364X6	NEW JERSEY ST TRANSN TR FD AUTH	5.25	6/15/2043	882.0	255
13 74529 PWP PUERTO RICO SALES TAX FING CORP SALES TAX REV	11	59260XAA6	METROPOLITAN TRANSN AUTH N Y DEDICATED TAX FD	5.00	3/1/2022	870.2	380
14 1675939M6 CHICAGO ILL O HARE INTL ARPT REV 5.00 1/1/2053 786.4 15 646136421 NEW JERSEYST TRANSN TR FD AUTH 4.50 6/15/2049 729.8 1/1 16 54466HHF6 LOS ANGELES CNTY CALIF MET TRANSN AUTH SALES TAX REV 5.00 7/1/2044 684.9 17 1301795D7 CALIFORNIA EDL FACS AUTH REV 5.00 5/1/2040 608.6 1. 19 452151LF8 ILLINOIS ST 5.10 6/1/2033 608.0 1. 20 64971XEBA NEW YORK Y CITY TRANSITIONAL FIN AUTH REV 5.25 5/1/2030 599.7 21 5444956V1 LOS ANGELES CALIF DEPT WIT & PVR REV 5.25 7/1/2049 587.0 22 677660U23 OHIO ST WITA DEV AUTH POLILUTION CIT FACS REV 5.00 6/1/2029 580.6 23 88880H712 SALES TAX SECURITIZATION CORP ILL 4.79 1/1/2048 566.7 24 79467BCN3 SALES TAX SECURITIZATION CORP ILL 4.79 1/1/2048 566.7 26 74259JPYS PURTO RICO SALES TAX FING CORP SALES TAX REV 4.55 7/1/2040 563.6 3.	12	91412HFG3	UNIVERSITY CALIF REVS	3.35	7/1/2029	862.1	250
15 646136421 NEW JERSEY ST TRANSN TR PD AUTH 16 54466HHF6 15466HHF6 15500 77/12044 684.9 17 1301795D7 CALIFORNIA EDI FACS AUTH REV 5.00 5/1/2049 628.5 18 74514LB89 PUERTO RICO COMWLTH EV 5.00 7/1/2041 608.6 1, 19 45215LF8 ILLINOIS ST 5.10 6/1/2033 608.0 1, 10 574726HH 15405LS 15468 1, 10 574726H 15405LS 15405	13	74529JPW9	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.75	7/1/2053	847.2	3,839
16 SA466HHF6 LOS ANGELES CNTY CALIF MET TRANSN AUTH SALES TAX REV 5.00 7/1/2044 688.9 17 130179SD7 CALIFORNIA EDL FACS AUTH REV 5.00 5/1/2049 628.5 18 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 608.6 1, 19 452151LF8 ILLINOIS ST 5.10 6/1/2033 608.0 20 64971XEBD NEW YORK NY CITY TRANSITIONAL FIN AUTH REV 3.85 5/1/2030 599.7 21 5444956V1 LOS ANGELES CALIF DEPT WTR & PWR REV 5.25 7/1/2049 587.0 22 677660U23 OHIO ST WITR DEV AUTH POLLUTION CIT. FACS REV 5.00 6/1/2029 580.6 23 88808HT2 TORACCO SETTLEMENT FING CORP N J 5.00 6/1/2045 568.7 24 794678CN3 SALES TAX SECURITIZATION CORP ILL 4.79 1/1/2048 566.7 25 64990FIL9 NEW YORK ST DORM AUTH ST PERS INCOME TAX REV 4.00 3/15/2048 564.5 26 74529JPY5 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.00 1/1/2046 563.6 3.0 27 13063DL55 CALIFORNIA ST 5.00 4/1/2036 541.4 28 646140DC4 NEW JERSEY ST TPK AUTH TPK REV 4.00 1/1/2046 536.0 29 13063DLT3 CALIFORNIA ST 5.00 4/1/2036 534.6 30 167593M41 CHICAGO ILL O HARE INTL ARPT REV 5.00 1/1/2047 532.9 31 070204QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 5.00 1/1/2047 532.9 32 646140DC2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 33 13063DLLD CALIFORNIA ST 5.00 4/1/2036 534.6 34 65003SBW1 NEW YORK ST URBAN DEV CORP REV 5.00 1/1/2047 532.9 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 207726F45 SONNECTICUT ST 5.00 3/15/2033 409.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 5.00 3/15/2033 409.9 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARY LAND ST 5.52 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 444.3 445.8 445.8 447.2 445.8 447.2 447.2 43 544495272 LOS ANGELES CALIF DEPT WITR REV 5.00 7/1/2047 4	14	167593M66	CHICAGO ILL O HARE INTL ARPT REV	5.00	1/1/2053	786.4	63
16 SA466HHF6 LOS ANGELES CNTY CALIF MET TRANSN AUTH SALES TAX REV 5.00 7/1/2044 688.9 17 130179SD7 CALIFORNIA EDL FACS AUTH REV 5.00 5/1/2049 628.5 18 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 608.6 1, 19 452151LF8 ILLINOIS ST 5.10 6/1/2033 608.0 20 64971XEBD NEW YORK NY CITY TRANSITIONAL FIN AUTH REV 3.85 5/1/2030 599.7 21 5444956V1 LOS ANGELES CALIF DEPT WTR & PWR REV 5.25 7/1/2049 587.0 22 677660U23 OHIO ST WITR DEV AUTH POLLUTION CIT. FACS REV 5.00 6/1/2029 580.6 23 88808HT2 TORACCO SETTLEMENT FING CORP N J 5.00 6/1/2045 568.7 24 794678CN3 SALES TAX SECURITIZATION CORP ILL 4.79 1/1/2048 566.7 25 64990FIL9 NEW YORK ST DORM AUTH ST PERS INCOME TAX REV 4.00 3/15/2048 564.5 26 74529JPY5 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.00 1/1/2046 563.6 3.0 27 13063DL55 CALIFORNIA ST 5.00 4/1/2036 541.4 28 646140DC4 NEW JERSEY ST TPK AUTH TPK REV 4.00 1/1/2046 536.0 29 13063DLT3 CALIFORNIA ST 5.00 4/1/2036 534.6 30 167593M41 CHICAGO ILL O HARE INTL ARPT REV 5.00 1/1/2047 532.9 31 070204QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 5.00 1/1/2047 532.9 32 646140DC2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 33 13063DLLD CALIFORNIA ST 5.00 4/1/2036 534.6 34 65003SBW1 NEW YORK ST URBAN DEV CORP REV 5.00 1/1/2047 532.9 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 207726F45 SONNECTICUT ST 5.00 3/15/2033 409.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 5.00 3/15/2033 409.9 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARY LAND ST 5.52 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 444.3 445.8 445.8 447.2 445.8 447.2 447.2 43 544495272 LOS ANGELES CALIF DEPT WITR REV 5.00 7/1/2047 4	15	6461364Z1	NEW JERSEY ST TRANSN TR FD AUTH	4.50	6/15/2049	729.8	1,987
17 130179SD7 CALIFORNIA EDL FACS AUTH REV 5.00 5/1/2049 628.5 18 74514LB89 PUERTO RICO COMWLTH 5.00 7/1/2041 608.6 1, 19 452151LF8 ILLINOIS ST 5.10 6/1/2033 608.0 20 64971XEB0 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 5.10 6/1/2033 599.7 21 5444956V1 LOS ANGELES CALIF DEPT WTR & PWR REV 5.25 7/1/2049 587.0 6/7/2029 580.6 5.25 6/7/2029 580.6 5/7/2040 580.6 5/7/2029 580.6 5/7/20	16	54466HHF6	LOS ANGELES CNTY CALIF MET TRANSN AUTH SALES TAX REV	5.00		684.9	166
18	17	130179SD7	CALIFORNIA EDL FACS AUTH REV	5.00		628.5	130
19	18	74514LB89	PUERTO RICO COMWLTH	5.00		608.6	1,528
20 64971XEBO NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 3.85 5/1/2030 599.7 21 544495671 LOS ANGELES CALIF DEPT WTR & PWR REV 5.25 7/1/2049 587.0 6/1/2029 580.6 22 677660U23 67990FL9 70BACCO SETTLEMENT FING CORP N J 5.00 6/1/2029 580.6	19	452151LF8	ILLINOIS ST	5.10		608.0	493
21 5444956V1 LOS ANGELES CALIF DEPT WTR & PWR REV 5.25 7/1/2049 587.0 22 677660U23 OHIO ST WTR DEV AUTH POLLUTION CTL FACS REV 5.00 6/1/2029 580.6 23 888808HT2 TOBACCO SETTLEMENT FING CORP NJ 5.00 6/1/2046 568.7 24 79467BCN3 SALES TAX SECURITIZATION CORP ILL 4.79 1/1/2048 566.7 25 64990FLIP NEW YORK ST DORM AUTH ST PERS INCOME TAX REV 4.00 3/15/2048 564.5 26 74529IPY5 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.00 3/15/2046 564.5 27 13063DLIS CALIFORNIA ST 5.00 4/1/2036 541.4 28 646140DC4 NEW JERSEY ST TEK AUTH TPK REV 4.00 1/1/2048 536.0 30 167593M41 CHICAGO ILL O HARE INTL ARPT REV 4.00 1/1/2044 532.9 31 072024QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 5.00 1/1/2042 520.2 32 645140DD2 NEW YORK ST URBAN DEV CORP REV 5.00 1/1/2048 516.6 33 13063DLIO CALIFORNIA ST	20	64971XEB0	NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV	3.85		599.7	18
22 677660UZ3 OHIO ST WTR DEV AUTH POLLUTION CTL FACS REV 5.00 6/1/2029 580.6 23 388808HTZ TOBACCO SETTLEMENT FING CORP N J 5.00 6/1/2046 568.7 24 79467BCN3 5ALES TAX SECURITIZATION CORP IIL 4.79 1/1/2048 566.7 25 64990FJL9 NEW YORK ST DORM AUTH ST PERS INCOME TAX REV 4.00 3/15/2048 564.5 26 74529JPV5 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.00 3/15/2048 564.5 27 13063DLS CALIFORNIA ST 5.00 4/1/2036 541.4 28 646140DC4 NEW JERSEY ST TPK AUTH TPK REV 4.00 1/1/2048 536.0 30 167593M41 CHICAGO ILLO HARE INTL ARPT REV 4.00 1/1/2044 532.9 31 072024QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 5.00 4/1/2036 534.6 32 366140DD2 NEW JERSEY ST TPK AUTH TPK REV 5.00 10/1/2042 520.2 32 646140DD2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 33 13063DLL0 CALIFORNIA ST 5.00 4/1/2032 505.3 34 6500358W1 NEW YORK ST URBAN DEV CORP REV 3.90 3/15/2033 502.9 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 20772GF45 CONNECTICUT ST 5.85 3/15/2032 498.4 37 64990AMQ5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 5.00 3/15/2039 470.9 47	21		LOS ANGELES CALIF DEPT WTR & PWR REV				88
23 88808HTZ TOBACCO SETTLEMENT FING CORP N J 5.00 6/1/2046 568.7 24 79467BCN3 SALES TAX SECURITIZATION CORP ILL 4.79 1/1/2048 566.7 25 64990F1J9 NEW YORK ST DORM AUTH ST PERS INCOME TAX REV 4.00 3/15/2048 566.5 26 74529JPY5 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.00 3/15/2048 566.5 27 13063DLS5 CALIFORNIA ST 5.00 4/1/2036 541.4 28 646140DC4 NEW JERSEY ST TPK AUTH TPK REV 4.00 1/1/2048 536.0 29 13063DLT3 CALIFORNIA ST 5.00 4/1/2036 534.6 30 167593M41 CHICAGO ILL O HARE INTL ARPT REV 4.00 1/1/2044 532.9 31 072024QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 5.00 10/1/2042 520.2 22 646140DD2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 33 13063DLLD CALIFORNIA ST 5.00 4/1/2035 505.3 34 6500358W1 NEW YORK ST URBAN DEV CORP REV 5.00 1/1/2048 516.6 37 79467BCM5 500 1/1/2048 516.6 37 79467BCM5 500 1/1/2048 516.6 39 3/15/2033 502.9 37 79467BCM5 500 1/1/2048 505.3 30 3/15/2033 502.9 3/15/2033 502.9 30 3/15/2033 502.9 30 3/15/2033 502.9 30 3/15/2033 502.9 30 3/15/2033 502.9 30 3/15/2033 502.9 30 3/15/2033 502.9 30 3/15/2033 502.9 30 3/15/2033 502.9 30 3/15/2033 502.9 30 3/15/2033 502.9 3/15/2033 502.9 3/15/2033 502.9 3/15/2033 502.9 3/	22	677660UZ3	OHIO ST WTR DEV AUTH POLLUTION CTL FACS REV	5.00			234
24 79467BCN3 SALES TAX SECURITIZATION CORP ILL 4.79 1/1/2048 566.7 25 64990FIJ9 NEW YORK ST DORM AUTH ST PERS INCOME TAX REV 4.00 3/15/2048 564.5 26 74529JPYS PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.55 7/1/2040 563.6 3, 27 13063DLS5 CALIFORNIA ST 5.00 4/1/2036 534.4 28 646140DC4 NEW JERSEY ST TPK AUTH TPK REV 4.00 1/1/2048 536.0 29 13063DLTS CALIFORNIA ST 5.00 4/1/2036 534.6 30 167593M41 CALIFORNIA ST 5.00 1/1/2044 532.9 31 072024QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 5.00 10/1/2042 520.2 32 646140DD2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 33 13063DLLD NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 34 6500358W1 NEW YORK ST URBAN DEV CORP REV 5.00 1/1/2048 516.6 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64	23		TOBACCO SETTLEMENT FING CORP N J				238
25 64990FJL9 NEW YORK ST DORM AUTH ST PERS INCOME TAX REV 4.00 3/15/2048 564.5 26 74529JPYS PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.55 7/1/2040 563.6 3, 27 13063DLSS CALIFORNIA ST 5.00 4/1/2036 541.4 3 28 646140DC4 NEW JERSEY ST TPK AUTH TPK REV 4.00 1/1/2048 536.0 3 29 13063DLT3 CALIFORNIA ST 5.00 4/1/2036 534.6 3 31 167593M41 CHICAGO ILL O HARE INTL ARPT REV 4.00 1/1/2044 532.9 3 31 167593M41 CHICAGO ILL O HARE INTL ARPT REV 5.00 10/1/2042 520.2 2 32 646140DD2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 3 33 13063DLLO CALIFORNIA ST 5.00 4/1/2032 50.3 3 34 650035BW1 NEW YORK ST URBAN DEV CORP REV 3.90 3/15/2032 50.3 3 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2	24	79467BCN3	SALES TAX SECURITIZATION CORP ILL	4.79		566.7	93
26 74529JPY5 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.55 7/1/2040 563.6 3, 27 13063DLS5 CALIFORNIA ST 5.00 4/1/2036 541.4 28 646140DC4 NEW JERSEY ST TPK AUTH TPK REV 4.00 1/1/2048 536.0 29 13063DLT3 CALIFORNIA ST 5.00 4/1/2036 534.6 30 167593M41 CHICAGO ILL O HARE INTL ARPT REV 4.00 1/1/2044 532.9 31 072024QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 5.00 10/1/2042 520.2 32 646140DD2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 33 13063DLIO CALIFORNIA ST 5.00 1/1/2048 516.6 33 13063DLIO CALIFORNIA ST 5.00 1/1/2048 516.6 34 6500358W1 NEW YORK ST URBAN DEV CORP REV 3.90 3/15/2033 502.9 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2049 499.2 36 20772GF45 CONNECTICUT ST 5.85 3/15/2032 498.4	25			4.00			142
27 13063DLS5 CALIFORNIA ST S.00 4/1/2036 S41.4 28 646140DC4 NEW JERSEY ST TPK AUTH TPK REV 4.00 1/1/2048 S36.0 29 13063DLT3 S.00 4/1/2036 S34.6 30 167593M41 CHICAGO ILL O HARE INTL ARPT REV 4.00 1/1/2044 S32.9 31 072024QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV S.00 10/1/2042 S20.2 32 646140DD2 NEW JERSEY ST TPK AUTH TPK REV S.00 1/1/2048 S16.6 33 13063DLL0 CALIFORNIA ST S.00 4/1/2032 S05.3 34 6500358W1 NEW YORK ST URBAN DEV CORP REV S.00 4/1/2032 S05.3 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 20772GF45 S.85 3/15/2032 498.4 37 64990AMQ5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT S.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 4.47 1/1/2049 460.3 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV S.00 S/15/2049 458.6 40 574193PD4 MARYLAND ST S.00 MAIN STR NAT GAS INC GA GAS SUPPLY REV S.00 S/12/2054 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529IPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2./1 44 594712UF6 BUCKEYE OHIO TOB SETTLEMENT FING AUTH S.88 6/1/2047 435.5 46 544655TN44 LOS ANGELES CNIF OEPT WTR & PWR REV S.00 7/1/2047 432.1	26	74529JPY5	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.55			3,495
28 646140DC4 NEW JERSEY ST TPK AUTH TPK REV 4.00 1/1/2048 536.0 3 29 13063DLT3 CALIFORNIA ST 5.00 4/1/2036 534.6 30 167593M41 CHICAGO ILL O HARE INTL ARPT REV 4.00 1/1/2044 532.9 31 072024QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 5.00 10/1/2048 516.6 32 646140DD2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 33 13063DLI0 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 34 6500358W1 NEW YORK ST URBAN DEV CORP REV 3.90 3/15/2033 502.9 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 20772GF45 CONNECTICUT ST 5.85 3/15/2032 498.4 37 64990AMQ5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 5.00 5/15/2049 460.3 40 574193PD4 MANIN STR NAT GAS INC GA GAS SUPPLY REV <td></td> <td></td> <td>CALIFORNIA ST</td> <td></td> <td></td> <td></td> <td>103</td>			CALIFORNIA ST				103
29 13063DLT3 CALIFORNIA ST 5.00 4/1/2036 534.6 30 167593M41 CHICAGO ILL O HARE INTL ARPT REV 4.00 1/1/2044 532.9 31 072024QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 5.00 10/1/2042 520.2 32 646140DD2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 33 13063DLL0 CALIFORNIA ST 5.00 4/1/2032 505.3 34 6500358W1 NEW YORK ST URBAN DEV CORP REV 3.90 3/15/2033 502.9 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 20772GF45 CONNECTICUT ST 5.85 3/15/2032 498.4 37 64990AMQ5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 4.47 1/1/2049 460.3 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 8/1/2025 450.3 41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2/1 444 447.4 447	28	646140DC4	NEW JERSEY ST TPK AUTH TPK REV	4.00		536.0	849
30	29	13063DLT3	CALIFORNIA ST	5.00		534.6	184
31 072024QS4 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 5.00 10/1/2042 520.2 32 646140DD2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 33 13063DLL0 CALIFORNIA ST 5.00 4/1/2032 505.3 34 6500358W1 NEW YORK ST URBAN DEV CORP REV 3.90 3/15/2033 502.9 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 20772GF45 CONNECTICUT ST 5.85 3/15/2032 498.4 37 64990AMQ5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 4.47 1/1/2049 460.3 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARYLAND ST 5.00 8/1/2025 450.3 41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 <td>30</td> <td>167593M41</td> <td>CHICAGO ILL O HARE INTL ARPT REV</td> <td>4.00</td> <td></td> <td>532.9</td> <td>675</td>	30	167593M41	CHICAGO ILL O HARE INTL ARPT REV	4.00		532.9	675
32 646140DD2 NEW JERSEY ST TPK AUTH TPK REV 5.00 1/1/2048 516.6 33 13063DLLO CALIFORNIA ST 5.00 4/1/2032 505.3 34 6500358W1 NEW YORK ST URBAN DEV CORP REV 3.90 3/15/2033 502.9 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 20772GF45 CONNECTICUT ST 5.85 3/15/2032 498.4 37 64990AMQ5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 4.47 1/1/2049 460.3 39 56035DBW1 MANIN ST NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARYLAND ST 5.00 5/15/2049 450.3 41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 4	31	072024QS4	BAY AREA TOLL AUTH CALIF TOLL BRDG REV	5.00		520.2	146
33 13063DLL0 CALIFORNIA ST 5.00 4/1/2032 505.3 34 6500358W1 NEW YORK ST URBAN DEV CORP REV 3.90 3/15/2033 502.9 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 20772GF45 CONNECTICUT ST 5.85 3/15/2032 498.4 37 64990AMQ5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 4.47 1/1/2049 460.3 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARYLAND ST 5.00 8/1/2025 450.3 41 57582RVX1 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,444 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 47 544495272 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1							435
34 6500358W1 NEW YORK ST URBAN DEV CORP REV 3.90 3/15/2033 502.9 35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 20772GF45 CONNECTICUT ST 5.85 3/15/2032 498.4 37 64990AMQ5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 4.47 1/1/2049 460.3 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARYLAND ST 5.00 8/1/2025 450.3 41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,1 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88							132
35 79467BCM5 SALES TAX SECURITIZATION CORP ILL 4.64 1/1/2040 499.2 36 20772GF45 CONNECTICUT ST 5.85 3/15/2032 498.4 37 64990AMQ5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 4.47 1/1/2049 460.3 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARYLAND ST 5.00 8/1/2025 450.3 41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,0 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 </td <td>34</td> <td>6500358W1</td> <td>NEW YORK ST URBAN DEV CORP REV</td> <td>3.90</td> <td></td> <td>502.9</td> <td>78</td>	34	6500358W1	NEW YORK ST URBAN DEV CORP REV	3.90		502.9	78
37 64990AMQS NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 4.47 1/1/2049 460.3 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARYLAND ST 5.00 8/1/2025 450.3 41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,4 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1	35	79467BCM5	SALES TAX SECURITIZATION CORP ILL	4.64		499.2	70
37 64990AMQ5 NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT 5.00 3/15/2039 470.9 38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 4.47 1/1/2049 460.3 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARYLAND ST 5.00 8/1/2025 450.3 41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,4 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1	36	20772GF45	CONNECTICUT ST	5.85	3/15/2032	498.4	74
38 167593H62 CHICAGO ILL O HARE INTL ARPT REV 4.47 1/1/2049 460.3 39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARYLAND ST 5.00 8/1/2025 450.3 41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,4 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CNTY CALIF 4.00 6/28/2019 433.3 47 544495Z72 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1	37	64990AMQ5	NEW YORK ST DORM AUTH SALES TAX REV ST SUPPORTED DEBT	5.00		470.9	24
39 56035DBW1 MAIN STR NAT GAS INC GA GAS SUPPLY REV 5.00 5/15/2049 458.6 40 574193PD4 MARYLAND ST 5.00 8/1/2025 450.3 41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,4 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CNTY CALIF 4.00 6/28/2019 433.3 47 544495Z72 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1	38			4.47		460.3	107
40 574193PD4 MARYLAND ST 5.00 8/1/2025 450.3 41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,0 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CNTY CALIF 4.00 6/28/2019 433.3 47 544495Z72 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1	39	56035DBW1	MAIN STR NAT GAS INC GA GAS SUPPLY REV	5.00		458.6	159
41 57582RVX1 MASSACHUSETTS ST 5.25 1/1/2044 447.4 42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,0 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CNTY CALIF 4.00 6/28/2019 433.3 47 544495Z72 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1	40	574193PD4	MARYLAND ST	5.00		450.3	159
42 05914FN89 BALTIMORE CNTY MD 4.00 3/18/2019 444.3 43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,0 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CNTY CALIF 4.00 6/28/2019 433.3 47 544495Z72 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1	41	57582RVX1	MASSACHUSETTS ST				86
43 74529JPU3 PUERTO RICO SALES TAX FING CORP SALES TAX REV 4.50 7/1/2034 440.6 2,0 44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CNTY CALIF 4.00 6/28/2019 433.3 47 544495Z72 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1	42	05914FN89	BALTIMORE CNTY MD	4.00		444.3	65
44 594712UF6 MICHIGAN ST UNIV REVS 4.50 8/15/2048 439.5 45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CNTY CALIF 4.00 6/28/2019 433.3 47 544495Z72 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1	43	74529JPU3	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.50		440.6	2,005
45 118217AU2 BUCKEYE OHIO TOB SETTLEMENT FING AUTH 5.88 6/1/2047 435.5 46 544657HV4 LOS ANGELES CNTY CALIF 4.00 6/28/2019 433.3 47 544495Z72 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1							151
46 544657HV4 LOS ANGELES CNTY CALIF 4.00 6/28/2019 433.3 47 544495Z72 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1							426
47 544495Z72 LOS ANGELES CALIF DEPT WTR & PWR REV 5.00 7/1/2047 432.1							141
							70
TO TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL PROPERTY OF THE P				5.25	4/1/2048	428.3	231
							112
							156

¹ Includes zero-coupon securities

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Top 50 Most Active Fixed Rate¹ Securities, 2019:Q1 By number of trades

					Par Amount	Number of
Rank	CUSIP ²	Issuer Name	Coupon	Maturity	(\$ Millions)	Trades
1	74529JPX7	PUERTO RICO SALES TAX FING CORP SALES TAX REV	5.00	7/1/2058		4,662
2	74529JPW9	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.75	7/1/2053		3,839
3		PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.55	7/1/2040	563.6	3,495
4		PUERTO RICO SALES TAX FING CORP SALES TAX REV	5.00	7/1/2058		2,535
5		PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.50	7/1/2034	440.6	2,005
6		NEW JERSEY ST TRANSN TR FD AUTH	4.50	6/15/2049	729.8	1,987
7		GDB DEBT RECOVERY AUTH OF COMWLTH PUERTO RICO	7.50	8/20/2040	930.2	1,747
8		METROPOLITAN TRANSN AUTH N Y REV	4.00	2/3/2020		1,659
9		PUERTO RICO COMWLTH	5.00	7/1/2041	608.6	1,528
10	74529JPV1	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.55	7/1/2040	251.4	1,238
11	882724GP6	TEXAS ST	4.00	8/29/2019	1,113.8	1,052
12		CHICAGO ILL O HARE INTL ARPT REV	4.00	1/1/2043	172.3	1,032
13		SOUTH CAROLINA JOBS-ECONOMIC DEV AUTH HOSP REV	4.25	5/1/2048	172.3	911
14	,	CHICAGO ILL O HARE INTL ARPT REV	4.23	1/1/2053	84.6	892
					536.0	849
15		NEW JERSEY ST TPK AUTH TPK REV	4.00	1/1/2048		
16		PUERTO RICO SALES TAX FING CORP SALES TAX REV	6.00	8/1/2042	252.7	794
17		NEW JERSEY ST TRANSN TR FD AUTH	4.00	6/15/2036	163.1	793
18		WASHINGTON ST CONVENTION CTR PUB FACS DIST	4.00	7/1/2058	123.8	791
19		KENTUCKY BD DEV CORP CONVENTION FACS REV	4.00	9/1/2048	106.7	771
20		CHICAGO ILL O HARE INTL ARPT REV	4.00	1/1/2044	532.9	675
21		GEORGIA MUN ELEC AUTH PWR REV	4.13	1/1/2049	48.9	667
22		NEW YORK ST TWY AUTH GEN REV JR INDBT OBLIGS	5.00	5/1/2019	345.1	667
23		NORTH CAROLINA TPK AUTH TRIANGLE EXPWY SYS REV	4.00	1/1/2041	65.3	664
24	6461364J7	NEW JERSEY ST TRANSN TR FD AUTH	4.00	12/15/2037	106.2	651
25	60636ASR5	MISSOURI ST HEALTH & EDL FACS AUTH EDL FACS REV	3.75	10/1/2043	68.6	633
26	6461364W8	NEW JERSEY ST TRANSN TR FD AUTH	4.13	6/15/2039	96.0	620
27	64990GGK2	NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT	4.95	8/1/2048	111.9	608
28	74529JLM5	PUERTO RICO SALES TAX FING CORP SALES TAX REV	5.25	8/1/2041	184.0	605
29	70014RBJ5	PARK 70 MET DIST COLO	4.00	12/1/2048	58.2	596
30	745235R37	PUERTO RICO PUB BLDGS AUTH REV GTD	5.25	7/1/2042	229.9	594
31	13063A5G5	CALIFORNIA ST	7.55	4/1/2039	346.4	592
32	74529JQY4	PUERTO RICO SALES TAX FING CORP SALES TAX REV	4.55	7/1/2040	134.8	590
33	74514LB63	PUERTO RICO COMWLTH	5.13	7/1/2037	140.8	586
34	56035DBU5	MAIN STR NAT GAS INC GA GAS SUPPLY REV	4.00	5/15/2039	111.2	585
35	956622N91	WEST VIRGINIA ST HOSP FIN AUTH HOSP REV	4.00	6/1/2051	54.5	575
36	74514LE86	PUERTO RICO COMWLTH	8.00	7/1/2035	1,219.0	549
37	19648FHR8	COLORADO HEALTH FACS AUTH REV	4.25	9/15/2038	36.8	540
38	090874NM6	BIRDVILLE TEX INDPT SCH DIST	3.75	2/15/2044	98.7	532
39		NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV	3.63	6/15/2048		531
40		PUERTO RICO COMWLTH AQUEDUCT & SWR AUTH REV	5.25	7/1/2042		526
41		FLORIDA HURRICANE CATASTROPHE FD FIN CORP REV	3.00	7/1/2020	160.7	514
42		NEW YORK N Y	3.13	8/1/2035		511
43		NEW YORK TRANSN DEV CORP SPL FAC REV	4.00	7/1/2041	40.5	499
44		ALLEGHENY CNTY PA HOSP DEV AUTH REV	4.00	4/1/2044		497
45	452151LF8		5.10	6/1/2033	608.0	493
46		BROOKHAVEN GA	3.50	7/1/2049		493
47		MICHIGAN FIN AUTH REV	4.00	11/15/2049		476
		CALIFORNIA ST	7.70	11/15/2046		
48				1 1		473
49		NEW YORK ST DORM AUTH REVS NON ST SUPPORTED DEBT	5.00	10/1/2041		466
50	045913AA2	NEW JERSEY ECONOMIC DEV AUTH ST PENSION FDG REV	7.43	2/15/2029	304.4	460

¹ Includes zero-coupon securities

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Top 50 Most Active Variable Rate Securities, 2019:Q1 By par amount

Rank					Par Amount	Number of
2 G022RAGAS MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2014 2,054.0 4 270777AD7 5 072024VU3 BAY AREA TOLL AUTH CALIF TOLL BROG REV 12/1/2040 2,094.0 12/1/2045 2,041.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rank	CUSIP ¹	Issuer Name	Maturity		Trades
3 402207ADD GULF COAST INDL DEV AUTH TEX REV 11/1/2041 2,635.4 2,709.77AD7 245.5 EATON ROUGE PARISH LA INC INDL DEV BRD REV 12/1/2040 2,094.0 5 072024VU3 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 4/1/2045 2,041.1 6 64966MU598 NEW YORK N Y 12/1/2047 1,592.9 1,	1	270777AC9	EAST BATON ROUGE PARISH LA INC INDL DEV BRD REV	8/1/2035	2,969.4	189
4 270777AD7 2	2	60528AAS3	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	12/1/2030	2,816.7	120
5 072024VJ3 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 4/1/2045 1,204.1.1 6 69966M198 NEW YORK N Y 7 64966G402 8 57586CV69 10 MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV 12/1/2037 1,150.5 10 60528AAW4 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2035 1,110.2 10 60528AAW4 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2030 1,061.7 11 54638YUG ILOUISANA PUB FACS AUTH REV 12/1/2030 1,061.7 12 60528AC88 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2030 1,061.7 12 60528AC88 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2035 1,012.6 13 89602REAS TRIBIOROUGH BROG & TUNL AUTH N Y REVS 11 13 14053BCH3 15 649661E77 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 17 64971XFT9 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 18 1/2042 869.7 19 63934SSBD UINCOLN CNTY WOY POILLUTH CTL REV 19 15334SSBD9 UINCOLN CNTY WOY POILLUTH CTL REV 20 919061BUA VOLEZ ALASKA MARINE TERM REV 21 548351AC9 LOWER NECKES VALLEY AUTH TEX INDL DEV CORP REV 21 1/1/2037 800.9 23 467229AF7 JACKSON CNTY MISS PORT FAC REV 26 549656FA7 NEW YORK N Y CITY TRANSITION DEV CORP REV 27 1/1/2037 800.9 28 467229AF7 JACKSON CNTY MISS PORT FAC REV 28 993592AQ6 UINTA CNTY WOY POILLUTH TEX INDL DEV CORP REV 29 64966LCJ8 MISSISSIPP BUSINESS FIN CORP MISS PORT FAC REV 29 64966LCJ8 MISSISSIPP BUSINESS FIN CORP MISS PORT FAC REV 29 64966LCJ8 MISSISSIPP BUSINESS FIN CORP REV 21 1/1/2037 780.9 21 64965LCJ8 MISSISSIPP BUSINESS FIN CORP REV 21 1/1/2037 780.9 21 64966LCJ8 MISSISSIPP BUSINESS FIN CORP REV 21 1/1/2037 780.9 22 9151153W7 UINIVERSITY TEX PERM UINIV FD 7/1/2037 780.9 23 467229AF7 JACKSON CNITY MISS PORT FAC REV 29 64966LCJ8 MISSISSIPP BUSINESS FIN CORP REV MISSISSIPP BUSINESS FIN CORP MISSISSIPP BUSINESS FIN CORP REV MISSISSIPP BUSINESS FIN CORP MISSISSIPP BUSINESS FOR CORP REV MISSISSIPP BUSINESS FOR CORP MISSISS	3	402207AD6	GULF COAST INDL DEV AUTH TEX REV	11/1/2041	2,635.4	252
5 072024VJ3 BAY AREA TOLL AUTH CALIF TOLL BRDG REV 4/1/2045 1,204.1.1 6 69966M198 NEW YORK N Y 7 64966G402 8 57586CV69 10 MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV 12/1/2037 1,150.5 10 60528AAW4 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2035 1,110.2 10 60528AAW4 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2030 1,061.7 11 54638YUG ILOUISANA PUB FACS AUTH REV 12/1/2030 1,061.7 12 60528AC88 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2030 1,061.7 12 60528AC88 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2035 1,012.6 13 89602REAS TRIBIOROUGH BROG & TUNL AUTH N Y REVS 11 13 14053BCH3 15 649661E77 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 17 64971XFT9 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 18 1/2042 869.7 19 63934SSBD UINCOLN CNTY WOY POILLUTH CTL REV 19 15334SSBD9 UINCOLN CNTY WOY POILLUTH CTL REV 20 919061BUA VOLEZ ALASKA MARINE TERM REV 21 548351AC9 LOWER NECKES VALLEY AUTH TEX INDL DEV CORP REV 21 1/1/2037 800.9 23 467229AF7 JACKSON CNTY MISS PORT FAC REV 26 549656FA7 NEW YORK N Y CITY TRANSITION DEV CORP REV 27 1/1/2037 800.9 28 467229AF7 JACKSON CNTY MISS PORT FAC REV 28 993592AQ6 UINTA CNTY WOY POILLUTH TEX INDL DEV CORP REV 29 64966LCJ8 MISSISSIPP BUSINESS FIN CORP MISS PORT FAC REV 29 64966LCJ8 MISSISSIPP BUSINESS FIN CORP MISS PORT FAC REV 29 64966LCJ8 MISSISSIPP BUSINESS FIN CORP REV 21 1/1/2037 780.9 21 64965LCJ8 MISSISSIPP BUSINESS FIN CORP REV 21 1/1/2037 780.9 21 64966LCJ8 MISSISSIPP BUSINESS FIN CORP REV 21 1/1/2037 780.9 22 9151153W7 UINIVERSITY TEX PERM UINIV FD 7/1/2037 780.9 23 467229AF7 JACKSON CNITY MISS PORT FAC REV 29 64966LCJ8 MISSISSIPP BUSINESS FIN CORP REV MISSISSIPP BUSINESS FIN CORP MISSISSIPP BUSINESS FIN CORP REV MISSISSIPP BUSINESS FIN CORP MISSISSIPP BUSINESS FOR CORP REV MISSISSIPP BUSINESS FOR CORP MISSISS	4	270777AD7	EAST BATON ROUGE PARISH LA INC INDL DEV BRD REV	12/1/2040	2,094.0	158
6 64966M128 NEW YORK N Y 7 64966A020 NEW YORK N Y 7 64966A020 NEW YORK N Y 8 57586CV69 9 60328AW34 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2035 1,110.2 10 60328AW34 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2035 1,061.7 11 546398TV06 LOUISIANA PUB FACS AUTH REV 8 1/2/033 1,014.5 12 60528ACB8 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2030 1,061.7 13 89602RFA8 TRIBOROUGH BRDG & TUNL AUTH N Y REVS 11/1/2031 977.9 14 13063BCH3 CALIFORNIA ST 15 64966LF7 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 16 64971XHT8 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 17 64971XHT9 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 18 8/1/2042 866.7 18 6052BAAT1 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 6032BAAT1 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 6032BAAT1 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 6032BAAT1 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 6032BAAT1 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 6406BLF4 NOR MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 6406BLF4 NOR MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 6406BLF4 NOR MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 6406BLF4 NOR MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 6406BLF4 NOR MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 64120AB MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 64120AB MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 64120AB MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 64495BLBA MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 644495BLBA MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 18 64506CRB MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNI	5				· ·	68
8 57586CV69 MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV 12/1/2037 1,26.5 1,353.1 1,353.1 1,365.5 1	6	64966ML98	NEW YORK N Y			124
8 57586CV69 MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV 12/1/2037 1,126.5 10 60528ABN9 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2030 1,061.7 11.3 546398TV16 LOUISIANA PUB FACS AUTH REV 8/1/2043 1,014.5 12 60528ACSB MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2035 1,012.6 13 8960ZRFA8 TRIBOROUGH BRDG & TUNL AUTH N Y REVS 11/1/2033 879.1 15 6496GIE77 NEW YORK N Y UTITY TANSITIONAL FIN AUTH REV 8/1/2043 879.1 16 64971XHT3 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 8/1/2042 876.1 17 64971XHT9 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 8/1/2042 889.7 18 60528ACST MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2032 899.1 19 53483EBD9 LICOUN CONTY WOY POILLUTH CIT REV 10/1/2044 832.3 19961BUS 10 10 10 10 10 10 10 10 10 10 10 10 10	7	64966G4Q2	NEW YORK N Y			171
9 60528ABAW4 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2035 1,110.2 11 5463987U6 LOUISIANA PUB FACS AUTH REV 8/1/2043 1,014.5 12 60528ACB8 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2032 1,012.6 13 89602RFA8 TISINEROROUGH BROE & TUNIL AUTH N Y REVS 11/1/2032 977-9 14 13063BCH3 AUTHOR WAS 15 64966JE77 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 8/1/2042 859.7 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 8/1/2042 869.7 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 8/1/2042 869.7 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 8/1/2043 860.3 18 60528ABAT1 MISSISSIPP BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 12/1/2030 836.1 19 533485B09 UNCOUN CRITY WYO POLLUTIN CTL REV 10/1/2038 816.8 UNIVERSITY TEX PERM UNIV FO WAS 12 1 548351AC9 LOWER NECHES VALLEY AUTH TEX INDL DEV CORP REV 11/1/2038 816.8 10.334874 CALLPORNIA FEAT AUTHOR WAS 12 1 548351AC9 LOWER NECHES VALLEY AUTH TEX INDL DEV CORP REV 11/1/2038 816.8 10.334874 CALLPORNIA HEALTH FACS FING AUTH REV 6/1/2023 798-9 441/2036 793.5 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 10/1/2037 798-9 441/2036 793.5 NEW YORK N Y WAS 14 14 14 14 14 14 14 14 14 14 14 14 14	8	57586CV69	MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV	12/1/2037		99
10 60528AAW MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 12/1/2030 1,061.7 11 546398YU6 LOUISIANA PUB FACS AUTH REV 11/1/2035 1,012.6 12 805028FACB MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2035 1,012.6 13 805028FAST TRIBOROUGH BRDG & TUNL AUTH N Y REVS 11/1/2032 977.9 14 130638CH3 CALIFORNIA ST 11/1/2032 977.9 15 649661E77 NEW YORK N Y 4/1/2042 876.1 16 64971XH79 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 8/1/2042 869.7 17 64971XH79 NEW YORK N Y CITY TRANSITIONAL FIN AUTH REV 8/1/2043 836.1 19 53348SBDD LINCOLN CITY WOY POILUTIN CITL REV 10/1/2036 836.1 19 53348SBDD LINCOLN CITY WOY POILUTIN CITL REV 10/1/2044 832.3 20 919061BU4 VALDEZ ALASKA MARINE TERM REV 10/1/2025 819.3 21 548351AC9 LOWER NECHES VALLEY AUTH TEX INDL DEV CORP REV 11/1/2038 816.8 22 9151153W7 UNIVERSITY TEX FERM UNIVE FOR 10/1/2037 800.9 23 467229AF7 ACKSON CNITY MISS PORT FAC REV 6/1/2032 798.9 24 13033FK74 CALIFORNIA HEALTH FACS FING AUTH REV 6/1/2036 793.5 25 64966FAB7 NEW YORK N Y 4/1/2036 793.5 26 548351AE5 LOWER NECHES VALLEY AUTH TEX INDL DEV CORP REV 5/1/2046 793.1 27 54449SDH4 LOS ANGELES CALLEY AUTH TEX INDL DEV CORP REV 5/1/2046 793.1 28 903592AQ6 UNITA CNITY WYO POLLUTION CIT REV 8/15/2020 764.9 29 64966LCIS NEW YORK N Y 8/15/2037 748.5 30 45471AAST INJURAN EIN AUTH HOSP REV 11/1/2038 757.0 31 45204EM39 ILLINOS FIN AUTH REV 11/15/2037 748.5 32 54834RAC3 LOWER NECHES VALLEY AUTH TEX INDL DEV CORP EXEMPT FACS REV 11/15/2037 748.5 36 546398ZPG COLISIANA PUB FACS AUTH REV 11/15/2037 748.5 37 270838A14 EAST BATON ROUGE PARSH IA POLLUTION CIT REV 11/15/2036 687.5 38 60374VEIB MINNEAPOLIS MINN HEALTH CARE SYS REV 11/15/2036 689.3 39 60528ABSI MISSISSIPPI BUSINESS FIN	9	60528ABY9	MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV	11/1/2035		123
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46 60528ACC6 MISSISSIPPI BUSINESS FIN CORP MISS GULF OPPORTUNITY ZONE INDL DEV REV 11/1/2035 618.5						94
						116
T 2/1/20341 D10.3 I	47		CALIFORNIA ST	5/1/2034	610.5	102
48 880397BG8 TENNERGY CORP TENN GAS REV 2/1/2050 609.4						54
49 821697L23 SHELBY CNTY TENN HEALTH EDL & HSG FACS BRD REV 6/1/2042 592.5						80
50 64972GCR3 NEW YORK N Y CITY MUN WTR FIN AUTH WTR & SWR SYS REV 6/15/2049 586.4						97

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Municipal Market Trades by Trade Type

Trade Type and Size

Average daily par amount in \$ millions

	2019:Q1
All Trades	
Total	12,395.7
0 - \$25,000	297.1
\$25,001 - \$50,000	324.8
\$50,001 - \$75,000	130.0
\$75,001 - \$100,000	294.2
\$100,001 - \$500,000	1,333.0
\$500,001 - \$1,000,000	888.2
\$1,000,001 - \$2,000,000	1,056.2
More than \$2,000,000	8,072.1

Customer Bought	
Total	6,033.2
0 - \$25,000	114.3
\$25,001 - \$50,000	129.9
\$50,001 - \$75,000	51.3
\$75,001 - \$100,000	117.3
\$100,001 - \$500,000	530.5
\$500,001 - \$1,000,000	369.7
\$1,000,001 - \$2,000,000	469.0
More than \$2,000,000	4,251.3

Customer Sold	
Total	4,013.4
0 - \$25,000	65.1
\$25,001 - \$50,000	64.9
\$50,001 - \$75,000	28.8
\$75,001 - \$100,000	63.8
\$100,001 - \$500,000	311.7
\$500,001 - \$1,000,000	242.0
\$1,000,001 - \$2,000,000	319.5
More than \$2,000,000	2,917.6

Inter-Dealer	
Total	2,349.1
0 - \$25,000	117.8
\$25,001 - \$50,000	130.0
\$50,001 - \$75,000	49.8
\$75,001 - \$100,000	113.1
\$100,001 - \$500,000	490.9
\$500,001 - \$1,000,000	276.5
\$1,000,001 - \$2,000,000	267.8
More than \$2,000,000	903.2

Municipal Market Trades by Trade Type

Trade Type and Size

	2019:Q1
All Trades	
Total	40,097
0 - \$25,000	19,147
\$25,001 - \$50,000	7,684
\$50,001 - \$75,000	1,951
\$75,001 - \$100,000	3,032
\$100,001 - \$500,000	5,378
\$500,001 - \$1,000,000	1,126
\$1,000,001 - \$2,000,000	704
More than \$2,000,000	1,075

Customer Bought	
Total	15,592
0 - \$25,000	7,097
\$25,001 - \$50,000	3,060
\$50,001 - \$75,000	767
\$75,001 - \$100,000	1,208
\$100,001 - \$500,000	2,153
\$500,001 - \$1,000,000	467
\$1,000,001 - \$2,000,000	311
More than \$2,000,000	529

Customer Sold	
Total	9,175
0 - \$25,000	4,396
\$25,001 - \$50,000	1,556
\$50,001 - \$75,000	433
\$75,001 - \$100,000	657
\$100,001 - \$500,000	1,245
\$500,001 - \$1,000,000	302
\$1,000,001 - \$2,000,000	211
More than \$2,000,000	376

Inter-Dealer	
Total	15,330
0 - \$25,000	7,654
\$25,001 - \$50,000	3,068
\$50,001 - \$75,000	751
\$75,001 - \$100,000	1,167
\$100,001 - \$500,000	1,980
\$500,001 - \$1,000,000	357
\$1,000,001 - \$2,000,000	182
More than \$2,000,000	170

Transaction Summary - Fixed Rate Securities

Average daily par amount in \$ millions

	2019:Q1
Fixed Rate	
Total	7,864.4
0 - \$25,000	287.5
\$25,001 - \$50,000	313.6
\$50,001 - \$75,000	124.2
\$75,001 - \$100,000	268.0
\$100,001 - \$500,000	1,176.2
\$500,001 - \$1,000,000	739.3
\$1,000,001 - \$2,000,000	838.6
More than \$2,000,000	4,116.7

Zero Coupon	
Total	328.9
0 - \$25,000	8.4
\$25,001 - \$50,000	9.4
\$50,001 - \$75,000	4.7
\$75,001 - \$100,000	7.9
\$100,001 - \$500,000	33.4
\$500,001 - \$1,000,000	18.5
\$1,000,001 - \$2,000,000	19.9
More than \$2,000,000	226.7

Transaction Summary - Fixed Rate Securities

	2019:Q1
Fixed Trade	
Total	37,375
0 - \$25,000	18,335
\$25,001 - \$50,000	7,413
\$50,001 - \$75,000	1,864
\$75,001 - \$100,000	2,765
\$100,001 - \$500,000	4,797
\$500,001 - \$1,000,000	940
\$1,000,001 - \$2,000,000	560
More than \$2,000,000	701

Zero Coupon	
Total	1,329
0 - \$25,000	740
\$25,001 - \$50,000	229
\$50,001 - \$75,000	73
\$75,001 - \$100,000	83
\$100,001 - \$500,000	146
\$500,001 - \$1,000,000	23
\$1,000,001 - \$2,000,000	14
More than \$2,000,000	21

Source of Repayment

Average daily par amount in \$ millions

	2019:Q1
Fixed Rate	
Total	7,862.1
General Obligation	3,027.2
Revenue	4,573.2
Double Barrel	261.7

Zero Coupon	
Total	328.9
General Obligation	69.0
Revenue	258.2
Double Barrel	1.8

Fixed Rate	
Total	37,375
General Obligation	14,445
Revenue	21,717
Double Barrel	1,212

Zero Coupon	
Total	1,329
General Obligation	515
Revenue	796
Double Barrel	18

Tax Status

Average daily par amount in \$ millions

	2019:Q1
Fixed Rate	
Total	7,862.3
Tax Exempt	6,811.6
Taxable	778.6
AMT	272.2

Zero Coupon	
Total	328.9
Tax Exempt	313.0
Taxable	15.8
AMT	0.1

Fixed Rate	
Total	37,374
Tax Exempt	34,464
Taxable	2,445
AMT	464

Zero Coupon	
Total	1,329
Tax Exempt	1,246
Taxable	83
AMT	<1

SectorAverage daily par amount in \$ millions

	2019:Q1
Fixed Rate	
Total	7,864.4
Education	1,740.0
Health	421.8
Housing	169.1
Tax-Revenue	1,088.6
Transportation	839.2
Utility	863.2
Various Purpose	1,377.9
Other	1,364.7

Zero Coupon	
Total	328.9
Education	66.3
Health	4.2
Housing	0.2
Tax-Revenue	153.8
Transportation	38.3
Utility	2.8
Various Purpose	12.8
Other	50.6

Fixed Rate	
Total	37,375
Education	9,778
Health	2,529
Housing	931
Tax-Revenue	4,097
Transportation	3,062
Utility	4,777
Various Purpose	4,992
Other	7,209

Zero Coupon	
Total	1,329
Education	482
Health	24
Housing	2
Tax-Revenue	496
Transportation	124
Utility	60
Various Purpose	55
Other	87

Variable Rate Demand Obligations ¹ Trade Type and Size

Average daily par amount in \$ millions

	2019:Q1
All Trades	
Total	3,085.1
0 - \$25,000	<0.1
\$25,001 - \$50,000	<0.1
\$50,001 - \$75,000	<0.1
\$75,001 - \$100,000	15.1
\$100,001 - \$500,000	104.2
\$500,001 - \$1,000,000	112.4
\$1,000,001 - \$2,000,000	170.5
More than \$2,000,000	2,682.9

Customer Bought	
Total	1,510.7
0 - \$25,000	<0.1
\$25,001 - \$50,000	<0.1
\$50,001 - \$75,000	<0.1
\$75,001 - \$100,000	5.2
\$100,001 - \$500,000	44.6
\$500,001 - \$1,000,000	51.3
\$1,000,001 - \$2,000,000	83.0
More than \$2,000,000	1,326.7

Customer Sold	
Total	1,519.0
0 - \$25,000	<0.1
\$25,001 - \$50,000	<0.1
\$50,001 - \$75,000	<0.1
\$75,001 - \$100,000	8.4
\$100,001 - \$500,000	51.8
\$500,001 - \$1,000,000	55.3
\$1,000,001 - \$2,000,000	80.9
More than \$2,000,000	1,322.7

Inter-Dealer	
Total	55.4
0 - \$25,000	<0.1
\$25,001 - \$50,000	<0.1
\$50,001 - \$75,000	<0.1
\$75,001 - \$100,000	1.5
\$100,001 - \$500,000	7.9
\$500,001 - \$1,000,000	5.9
\$1,000,001 - \$2,000,000	6.7
More than \$2,000,000	33.4

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 Obligations ¹ Trade Type and Size

	2019:Q1
All Trades	
Total	1,043
0 - \$25,000	1
\$25,001 - \$50,000	1
\$50,001 - \$75,000	<1
\$75,001 - \$100,000	151
\$100,001 - \$500,000	359
\$500,001 - \$1,000,000	141
\$1,000,001 - \$2,000,000	113
More than \$2,000,000	277

Customer Bought	
Total	459
0 - \$25,000	<1
\$25,001 - \$50,000	<1
\$50,001 - \$75,000	<1
\$75,001 - \$100,000	52
\$100,001 - \$500,000	151
\$500,001 - \$1,000,000	64
\$1,000,001 - \$2,000,000	55
More than \$2,000,000	136

Customer Sold	
Total	521
0 - \$25,000	1
\$25,001 - \$50,000	1
\$50,001 - \$75,000	<1
\$75,001 - \$100,000	84
\$100,001 - \$500,000	178
\$500,001 - \$1,000,000	69
\$1,000,001 - \$2,000,000	53
More than \$2,000,000	135

Inter-Dealer	
Total	62
0 - \$25,000	<1
\$25,001 - \$50,000	<1
\$50,001 - \$75,000	<1
\$75,001 - \$100,000	15
\$100,001 - \$500,000	29
\$500,001 - \$1,000,000	8
\$1,000,001 - \$2,000,000	4
More than \$2,000,000	5

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

	2019:Q1
All Trades	
Total	22.8
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	4.7
\$500,001 - \$1,000,000	3.0
\$1,000,001 - \$2,000,000	2.9
More than \$2,000,000	10.7

Customer Bought	
Total	8.1
0 - \$25,000	0.1
\$25,001 - \$50,000	0.1
\$50,001 - \$75,000	0.1
\$75,001 - \$100,000	0.3
\$100,001 - \$500,000	1.4
\$500,001 - \$1,000,000	1.1
\$1,000,001 - \$2,000,000	1.0
More than \$2,000,000	4.1

Customer Sold	
Total	6.9
0 - \$25,000	0.1
\$25,001 - \$50,000	0.1
\$50,001 - \$75,000	0.1
\$75,001 - \$100,000	0.4
\$100,001 - \$500,000	1.8
\$500,001 - \$1,000,000	0.9
\$1,000,001 - \$2,000,000	0.7
More than \$2,000,000	2.9

Inter-Dealer	
Total	7.8
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	1.1
More than \$2,000,000	3.7

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

	2019:Q1
All Trades	
Total	50
0 - \$25,000	7
\$25,001 - \$50,000	5
\$50,001 - \$75,000	3
\$75,001 - \$100,000	9
\$100,001 - \$500,000	18
\$500,001 - \$1,000,000	4
\$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	2
\$50,001 - \$75,000	1
\$75,001 - \$100,000	3
\$100,001 - \$500,000	6
\$500,001 - \$1,000,000	1
\$1,000,001 - \$2,000,000	1
More than \$2,000,000	1

Customer Sold	
Total	19
0 - \$25,000	2
\$25,001 - \$50,000	2
\$50,001 - \$75,000	1
\$75,001 - \$100,000	4
\$100,001 - \$500,000	7
\$500,001 - \$1,000,000	1
\$1,000,001 - \$2,000,000	1
More than \$2,000,000	<1

Inter-Dealer	
Total	14
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

	2019:Q1
All Trades	
Total	2.48
0 - \$25,000	2.56
\$25,001 - \$50,000	2.45
\$50,001 - \$75,000	2.33
\$75,001 - \$100,000	2.37
\$100,001 - \$500,000	2.31
\$500,001 - \$1,000,000	2.41
\$1,000,001 - \$2,000,000	2.48
More than \$2,000,000	2.70

Customer Bought	
Total	2.36
0 - \$25,000	2.44
\$25,001 - \$50,000	2.34
\$50,001 - \$75,000	2.18
\$75,001 - \$100,000	2.24
\$100,001 - \$500,000	2.17
\$500,001 - \$1,000,000	2.35
\$1,000,001 - \$2,000,000	2.52
More than \$2,000,000	2.76

Customer Sold	
Total	2.56
0 - \$25,000	2.72
\$25,001 - \$50,000	2.49
\$50,001 - \$75,000	2.37
\$75,001 - \$100,000	2.35
\$100,001 - \$500,000	2.26
\$500,001 - \$1,000,000	2.34
\$1,000,001 - \$2,000,000	2.39
More than \$2,000,000	2.63

Municipal Market Variable Securities Rate Resets

Number of Variable Rate Demand Obligations Rate Resets by Type¹

	2019:Q1
Total	88,500
Set by Remarketing Agent	88,340
Set by Formula	99
Maximum Rate	61

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

	2019:Q1
Total	972
Set by Auction	474
Maximum Rate	461
All Hold Rate	37

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

	2019:Q1
Annual Financial Information and Operation Data	11,811
Audited Financial Statements or CAFR	11,734
Bond Call	6,882
Quarterly/Monthly Financial Information	3,759
Other Financial/Operating Data	2,742
Budget	1,603
Failure to Provide Annual Financial Info	1,297
Other Event-Based Disclosures	1,107
Rating Change	960
Interim/Additional Financial Information/Operating Data	636
Defeasance	345
Notice to Investor Pursuant to Bond Documents	169
Financial Obligation - Incurrence or Agreement	167
Principal & Interest Payment Delinquency	97
Bank Loan	91
Tender Offer/Secondary Market Purchases	67
Consultant Reports	64
Information Provided to Rating Agency, Credit/Liquidity Provider or Other Third Party	57
Asset Backed Securities Filings ¹	54
Unscheduled Draw on Debt Service Reserve	26
Investment/Debt/Financial Policy	25
Bid for Auction Rate or Other Securities	24
Successor, Additional or Change in Trustee	24
Bankruptcy, Insolvency, Receivership	21
Unscheduled Draw on Credit Enhancement	15
Consolidation	14
Amendment to Continuing Disclosure Undertaking	14
Non-payment Related Default	12
Substitution of Credit or Liquidity Provider or Its Failure to Perform	11
Litigation/Enforcement Action	9
Release, Substitution or Sale of Property	8
Change of Tender Agent, Remarketing Agent, or Other On-Going Party	7
Change in Obligated Person	6
Change in Fiscal Year/Timing of Annual Disclosure	5
Modification to the Rights of Security Holders	4
Communication from the Internal Revenue Service	3
Derivative	3
Capital or Other Financing Plan	2
Financial Obligation - Event Reflecting Financial Difficulties	2
Adverse Tax Opinion or Event Affecting Tax-Exempt Status	1

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.