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DATE REC'D: <u>JUL 01 2021</u>	
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COPY TO: <u>Pub. Sec. - Public Finance</u>	
ACCT. NO.: <u>Bond Under.</u>	
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County of Hawaii

Notice to Providers of Professional Services (HRS 103D-304)

Statement of Qualification and Expression of Interest to Provide
Public Finance Bond Underwriting Services

June 30, 2021





Corporate and Investment Banking
Public Finance Group
333 S. Grand Ave., 5th Floor
Los Angeles, CA 90071

June 30, 2021

Ms. Deanna Sako
Director of Finance
County of Hawaii
25 Aupuni Street, Suite 2103
Hilo, Hawaii 96720

RE: Statement of Qualification to Provide Public Finance Bond Underwriting Services

Dear Deanna:

Thank you for this opportunity to present our statement of qualifications and expression of interest to provide public finance bond underwriting services to the County of Hawaii (the "County"). Wells Fargo Securities ("Wells Fargo" or "WFS") is committed to providing governmental entities with a full range of financial services. Below we highlight some of our Firm's key attributes that we believe would make us a valuable financial partner to the County.

- **Commitment to Municipalities in the State of Hawaii.** Since 2012, our Firm has had the privilege of serving Hawaii issuers including the State, State Department of Transportation and the County of Maui on over \$4 billion of GO Bonds and \$1 billion of the Department of Transportation Revenue Bonds. Additionally, WFS is currently mandated to serve as Sole Manager for the County of Maui's upcoming \$80 million General Obligation Bond issuance which is scheduled to come to market later this year.¹
- **Local Presence.** Wells Fargo & Company ("WFC") is proud to be one of a few national financial institutions to maintain a local presence across the islands. Wells Fargo Clearing Services, LLC, our retail brokerage affiliate, provides financial advisory services to residents throughout the islands. Our national retail platform of nearly 10,000 financial advisors includes 39 financial advisors in the State of Hawaii. These local financial advisors manage approximately \$5.3 billion of assets for residents within the State.² While Wells Fargo Securities is a national firm, we focus our business by regional concentration.
- **#1 Underwriter During COVID-19 Market Reopening.** Amidst investor uncertainty, global COVID-19 fears, and volatile markets, WFS demonstrated conviction and leadership in the reopening of the municipal market. In fact, WFS served as an underwriter on nearly 38% of large transactions between March 16, 2020 to April 24, 2020.³ Even through the volatility, WFS was able to execute transactions at favorable spreads for our clients. In addition, WFS continued to provide liquidity in the secondary market. As volatility entered the municipal market in March 2020, WFS executed nearly 4x more trades for par over \$1 million and increased our percentage of adjusted MSRB trades from 5.7% to 8.2% month-over month.⁴ In addition, as of June 2021, Wells Fargo & Company has the third largest market capitalization of all domestic banks⁵.
- **Capital Power.** As a bank dealer, WFS has access to the capital base of Wells Fargo Bank, N.A., which as of March 31, 2021, totaled approximately \$171 billion⁶. This capital strength clearly differentiates us from our competitors, giving us the ability to support our pricings in even extremely volatile market conditions, as proven through the market reopening upon COVID-19.

¹ Preliminary par amount, subject to change

² Source: Wells Fargo Clearing Services, LLC as of March 31, 2021

³ Source: Securities Data Corp. Platinum, includes negotiated par over \$40 million, full credit to senior manager.

⁴ Bloomberg, EMMA. All WFS and market trading statistics herein include only trades with par values >\$1MM; and exclude new issue transactions and transactions involving variable rate demand notes.

⁵ Source: Bloomberg as of June 29, 2021

⁶ Source: WFBNA Call Report as of March 31, 2021 – Total Equity Capital

County of Hawaii
June 30, 2021

Thank you again for this opportunity to present our qualifications to the County of Hawaii. I hope our response demonstrates our strong interest in having the opportunity to support the County. Should you have any questions, please do not hesitate to contact me directly at the number or e-mail address provided below.

Sincerely,

A handwritten signature in cursive script that reads "Julia Kim".

Julia Kim
Director, West Region
(213) 253-7252 | julia.kim@wellsfargo.com



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Important Information & Disclaimer

This document and any other materials accompanying this document (collectively, the "Materials") are provided for general informational purposes only. By accepting any Materials, the recipient acknowledges and agrees to the matters set forth below.

Wells Fargo Securities ("WFS") is the trade name for certain securities related capital markets and investment banking services of Wells Fargo & Company and its subsidiaries, including but not limited to Wells Fargo Bank, N.A., acting through its Municipal Finance Group. Commercial banking products and services are provided by Wells Fargo Bank, N.A. ("WFBNA"). Investment banking and capital markets products and services provided by Wells Fargo Securities, are not a condition to any banking product or service.

Derivatives products (including "swaps" as defined in and subject to the Commodity Exchange Act ("CEA") and Commodity Futures Trading Commission ("CFTC") regulations and (ii) "security-based swaps", ("SBS") as defined in and subject to the Securities and Exchange Act of 1934 ("SEA") and SEC regulations thereunder) are transacted through WFBNA, a CFTC provisionally-registered swap dealer and member of the NFA. Transactions in physical commodities are transacted through Wells Fargo Commodities, LLC, a wholly-owned subsidiary of Wells Fargo & Company.

WFBNA, as potential derivatives provider, and WFS, as potential underwriter or placement agent (together with any of its affiliates as context may require, "we", or "Wells Fargo") are providing the information contained in the Materials for discussion purposes only in anticipation of, or in connection with, engaging in arm's length commercial transactions with you in which Wells Fargo would be acting solely as a principal or agent, as applicable, and not as a municipal advisor, financial advisor or fiduciary to you or any other person or entity regardless of whether we, or an affiliate has or is currently acting as such on a separate transaction (the use of the term "agent" does not imply any fiduciary relationship).

These Materials are being provided to you for the purpose of working with you as an underwriter or placement agent (collectively, "underwriter") and/or derivatives provider on the transaction(s) described in the Materials. As part of its services as underwriter, WFS may provide information concerning the structure, timing, terms, and other similar matters concerning the issue of municipal securities that WFS proposes to underwrite as described in the Materials. The Materials may also contain such information. Any such information has been, and would be, provided by WFS in the context of serving as an underwriter and not as your municipal or financial advisor. Additionally, WFBNA, as derivatives provider, and WFS, as underwriter, have financial and other interests that differ from your interests (or those of the issuer). In its capacity as underwriter, WFS' primary role would be to purchase securities from you (or the issuer in the case of a conduit transaction) for resale to investors, or arrange for the placement of securities with investors on your behalf. Wells Fargo will not have any duties or liability to any person or entity in connection with the information being provided in the Materials.

The information provided herein is not intended to be and should not be construed as advice within the meaning of Section 15B of the Securities Exchange Act of 1934, and Wells Fargo will not be acting as your municipal advisor under the municipal advisor rules ("Muni Advisor Rules") of the Securities and Exchange Commission ("SEC") and the SEC's guidance in its Registration of Municipal Advisors Frequently Asked Questions dated May 19, 2014, as supplemented (collectively, "Muni Advisor Rules").

Please be advised that any information in the Materials regarding municipal derivatives is being provided by WFBNA as a swap dealer and that any swap offered or recommended in the Materials is being offered or recommended by WFBNA as a swap dealer. No part of the Materials is intended to be and should not be construed as an offer or recommendation of a municipal derivatives service or product by WFS, as underwriter, for purposes of Municipal Securities Rulemaking Board Rule G-17, or otherwise. You should consult with your own financial and/or municipal, legal, accounting, tax, and other advisors, as applicable, to the extent you deem appropriate. If you would like a municipal advisor that has legal fiduciary duties to you, you are certainly free to engage a municipal advisor to serve in that capacity.

Transactions referenced in the Materials which are attributed to Wells Fargo or to WFS may include transactions executed by a Wachovia Corporation or Wells Fargo & Company broker-dealer affiliate or by other municipal securities dealers and/or broker-dealers which were acquired by Wachovia Corporation or WFC.

WFS distributes municipal securities to institutional investors primarily through Wells Fargo Bank, N.A. Municipal Finance Group ("WFBNA MFG") and Wells Fargo Securities, LLC ("WFSLLC"). Distribution to middle market clients is provided primarily through WFSLLC. Retail distribution is primarily provided by Wells Fargo Advisors, which is the trade name used by Wells Fargo Clearing Services, LLC ("WFCS") and Wells Fargo Advisors Financial Network, LLC



("WFAFN"), two non-bank separate registered broker-dealers (members FINRA and SIPC). WFSLLC, WFBNA MFG, WFC, and WFAFN are affiliates and are each wholly owned subsidiaries of WFC.

Any municipal underwriting, commercial paper and remarketing rankings referenced herein represent combined totals for WFBNA MFG and WFSLLC. Non-municipal underwriting, commercial paper and remarketing rankings referenced herein represent totals for WFSLLC only. Source information for any ranking information not otherwise provided herein is available on request. Any rankings referencing competitive municipal new issues for time periods prior to 2011 include issues underwritten by WFC. Underwriting activities of WFC are not managed or otherwise controlled by WFBNA MFG or WFSLLC.

If the Materials are being provided to you under any of the following events, the information contained in the Materials and any subsequent discussions between us, including any and all information, advice, recommendations, opinions, indicative pricing, quotations and analysis with respect to any municipal financial product or issuance of municipal securities, are provided to you in reliance upon the Swap Dealer, Bank, RFP, IRMA exemptions and underwriter exclusion, as applicable, provided under the Muni Advisor Rules. In the event the Swap Dealer, Bank, RFP, IRMA exemptions, or underwriter exclusion do not apply, the information included in the Materials are provided in reliance on the general information exclusion to advice under the Muni Advisor Rules.

In the event that you have provided us with your written representation in form and substance acceptable to WFBNA that you are represented by a "qualified independent representative" as defined in the Commodity Exchange Act ("CEA") with respect to any municipal derivative or trading strategy involving municipal derivatives described in the Materials, we have provided you with our written disclosure that we are not acting as an advisor to you with respect to the municipal derivative or trading strategy pursuant to Section 4s(h)(4) of the CEA and the rules and regulations thereunder, and have taken certain other steps to establish the "Swap Dealer exemption" under the Muni Advisor Rules.

Any information related to a bank-purchased bond transaction ("Direct Purchase") included in the Materials is a product offering of WFBNA or a subsidiary thereof ("Purchaser") as purchaser / investor. WFS will not participate in any manner in any Direct Purchase transaction between you and Purchaser, and Wells Fargo employees involved with a Direct Purchase transaction are not acting on behalf of or as representatives of WFS. The information contained herein regarding Purchaser's Direct Purchase is being provided to you by WFS only for purposes of providing financing alternatives that may be available to you from WFC and its affiliates. Information contained in this document regarding Direct Purchase is for discussion purposes only in anticipation of engaging in arm's length commercial transactions with you in which Purchaser would be acting solely as a principal to purchase securities from you or a conduit issuer, and not as a municipal advisor, financial advisor or fiduciary to you or any other person or entity regardless of whether Purchaser, or an affiliate has or is currently acting as such on a separate transaction. Additionally, Purchaser has financial and other interests that differ from your interests. Purchaser's sole role would be to purchase securities from you (or the conduit issuer). Any information relating to a Direct Purchase is being provided to you pursuant to and in reliance on the "Bank exemption" under the Muni Advisor Rules and the general information exclusion to advice under the Muni Advisor Rules.

In the event the Materials are being provided in connection with a RFP, the SEC exempts from the definition of municipal advisor "any person providing a response in writing or orally to a request for proposals or qualifications from a municipal entity or obligated person for services in connection with a municipal financial product or the issuance of municipal securities; provided however, that such person does not receive separate direct or indirect compensation for advice provided as part of such response" ("RFP exemption"). In such event, we have relied upon the RFP exemption, and on your distribution and execution of this RFP through a competitive process. In the event WFBNA MFG is the party providing the Materials responses to all questions, certifications, attestations, information requests, and similar in the RFP or RFQ to which this response relates are specifically limited to, in context of, and as applied to, WFBNA MFG in its capacity as a separately identifiable department of a national bank that is registered as a municipal securities dealer with the Securities and Exchange Commission, Office of the Comptroller of the Currency, and Municipal Securities Rulemaking Board; and not on behalf of Wells Fargo Bank, N.A., unless specified otherwise in our response.

In the event that you have provided us with your written representation that you are represented by an independent registered municipal advisor (an "IRMA") within the meaning of the Muni Advisor Rules, with respect to the transaction(s) described in the Materials we have provided you with our written disclosure that we are not a municipal advisor to you and are not subject to the fiduciary duty under the Muni Advisor Rules, if applicable, and have taken certain other steps to establish the "IRMA exemption" under the Muni Advisor Rules.

In the event that you have engaged us to serve as an underwriter with respect to the municipal securities issuance described in the Materials we have provided you with our written disclosure regarding our role as an underwriter, that we are not a municipal advisor to you and are not subject to the fiduciary duty under the Muni Advisor Rules, if applicable.

If savings threshold level information is contained herein, please be advised that WFS is not recommending nor providing advice regarding which maturities should be refunded by you.

See additional important disclosures at the end of the Materials.



Statement of Qualifications

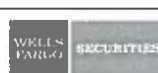
1. The name of the firm or person, contact information including email address, the principal place of business, and location of all of its offices.

Wells Fargo & Co. is a publicly held corporation and trades on the NYSE under the ticker “WFC.” Wells Fargo & Co. opened for business on July 13, 1852 and has grown into a diversified financial services company providing banking, insurance, investments, mortgage and consumer finance. Wells Fargo & Co. was incorporated on January 24, 1929 in the State of Delaware and is currently the nation’s 3rd largest financial institutions in total deposits (2020 FDIC data) and 6th in total assets (2020 Fortune), and has more than 6,900 financial centers across the country.⁷ We currently have a market capitalization of \$197.9 billion, which is the third largest amongst all U.S. Banks.⁸

Wells Fargo Securities (“WFS”) is the trade name for certain securities-related capital markets and investment banking services of Wells Fargo & Co. and its subsidiaries, including Wells Fargo Bank, N.A. (“WFBNA”). WFBNA is registered with the SEC and OCC as a municipal securities dealer. WFBNA will be the legal entity serving as underwriter for the County of Hawaii.

Public Finance. Wells Fargo conducts its public finance business in its Municipal Finance Group in close conjunction with other lines of business that cover government entities. Our investment banking, capital markets, and commercial banking teams work collaboratively to ensure that our clients are provided with an integrated team that can provide a range of solutions. For the County, this means that all activities including investment banking, direct purchases, credit, and treasury management products are accessed through one team working together to ensure the County receives the highest level of service.

Julia Kim will continue to serve as the team leader and primary contact to the County. Julia joined WFS in May of 2009 after her five year tenure with Banc of America Securities’ Public Finance Investment Banking group. She has 16 years of municipal finance experience and has worked on over \$100 billion of financings for various types of credits from general obligation bonds, revenue bonds, certificates of participation and lease revenue bonds, enterprise and utility revenue bonds, short-term cash flow borrowings, and direct purchases with issuers including the states of Hawaii, California, and Washington, various counties, cities, and school districts. Julia has dedicated her efforts to support over \$5 billion of transactions within the State of Hawaii since 2012 and has proactively worked with the Wells Fargo Clearing Services retail brokers sales teams in Honolulu to market the various GO and revenue bonds issued by various Hawaii issuers. Julia is currently serving as the lead banker on the County of Maui’s \$80 million GO bond financing, which is expected to price later this summer. Julia received her B.A. in Economics and a minor in Business Administration from the University of California, Berkeley.



Julia Kim
Director
Public Finance Investment Banking

Corporate & Investment Banking
333 South Grand Ave., 5th Floor
Los Angeles, CA 90071
Tel 213-253-7252
Fax 213-253-7240
julia.kim@wellsfargo.com

Our firm’s headquarters, bank headquarters and the principal place of business for our municipal securities professionals are provided in the table below.

Corporate Headquarters	Bank Headquarters	Public Finance Investment Banking
Wells Fargo & Company 420 Montgomery Street San Francisco, California 94104	Wells Fargo Bank, National Association 101 North Phillips Avenue Sioux Falls, South Dakota 57104	Wells Fargo Securities 333 South Grand Avenue, 5 th Floor Los Angeles, California 90071

While Wells Fargo & Co. maintains thousands of offices worldwide, below we provide our 13 public finance locations.

Public Finance Locations			
State	Location	State	Location
CA	333 South Grand Ave., 5 th Fl., Los Angeles, CA 90071	NC	301 S. College Street, Charlotte, NC, 28202
	333 Market Street, 5 th Fl., San Francisco, CA, 94104	NY	30 Hudson Yards, 62 nd Fl., New York, NY, 10001
CO	1675 Broadway, Denver, CO 80202	PA	123 S. Broad Street, Philadelphia, PA, 19107
FL	2363 Gulf to Bay Blvd., Clearwater, FL 33765	TX	1000 Louisiana Street, Houston, TX 77002
IL	10 S. Wacker Drive., 5 th Fl., Chicago, IL 60606		1445 Ross Avenue, Dallas, TX, 75202
MA	125 High Street, 15 Fl., Boston, MA 02110	UT	299 South Main Street, Salt Lake City, UT, 84111
MS	188 E Capitol Street, Jackson, MS 39201		

⁷ Source: Wells Fargo 2020 Annual Report

⁸ Source: Bloomberg as of June 29, 2021



2. The age of the firm and its average number of employees over the past five years.

Years in Business. WFS has been providing banking services since its inception in 1852. Records available to us indicate that Wells Fargo Bank, N.A. Municipal Finance Group (or a predecessor bank that subsequently merged into Wells Fargo Bank, N.A.) has been engaging in public finance activities dating back to at least 1966.

Presence in the State of Hawaii. Our Firm is actively conducting business in the State of Hawaii and has been since 1973. Currently we maintain a retail brokerage office through our affiliate, Wells Fargo Clearing Services, LLC (dba Wells Fargo Advisors). Wells Fargo Advisors maintains 39 financial advisors who actively sell and trade municipal bonds, among other financial products. We work closely with these retail brokers ahead of various bond sales to ensure that the retail brokers have the information necessary to market bond sales. This partnership has worked well and grown over the past decade.

In addition, we maintain three home mortgage offices throughout the State and employ 11 mortgage specialists.

Wells Fargo Advisors Office Locations		
Location	Employees	Years in Business
1001 Bishop Street, 19 th Floor Honolulu, Hawaii 96813	39	13

WFC and Public Finance Employees			
Year	Company Wide	Investment Banking	Sales & Trading
2016	269,000	151	46
2017	263,000	149	45
2018	259,000	115	53
2019	260,000	88	56
2020	233,403	95	48

Source: WFC Internal Data

Wells Fargo Home Mortgage Office Locations		
Location	Employees	Years in Business
75-5722 Kuakini Hwy, 1 st Floor Kailua Kona, Hawaii 96740	3	20+
34 Wailea Gateway Place, 2 nd Floor Kihei, Hawaii 96753	2	20+
1357 Kapiolani Blvd, 9 th Floor Honolulu, Hawaii 96814	6	20+

3. The education, training, and qualifications of the individual, or if a firm, its key employees in accordance with HRS 103D-304 and/or the professional and scientific occupation series contained in the United States Office of Personnel Management's Qualifications Standards Handbook

Our team of experienced professionals will be dedicated to the County's financings from kick-off to closing and will be available to attend all meetings and conference calls as requested. The following table displays our comprehensive team, which includes investment banking, credit strategies, sales, trading and underwriting, and quantitative analytics.

Wells Fargo Securities Team to the County of Hawaii				
Name	Title	Role	Office Location	Years in Industry
Investment Banking				
Julia Kim	Director	Primary Contact	Los Angeles, CA	16 Years
Charles Peck	Managing Director	Head of Public Finance	New York, NY	14 Years
Kristen Fontana	Director	Credit Strategy	New York, NY	10 years
Scott Goldstein	Director	Quantitative Expert	Denver, CO	31 Years
Sales, Trading and Underwriting Team				
Parks Lineberger	Director	Fixed Rate Underwriter	Charlotte, NC	14 years
Rebekah Wales	Director	Syndicate Coordinator	Charlotte, NC	10 years



Julia Kim will continue to serve as the team leader and primary contact to the County. Julia joined WFS in 2009 and has 16 years of municipal finance experience. She has worked with issuers across the western United States and has concentrated her efforts to county-level issuers. Over her career, Julia has worked on over \$100 billion of financings for various types of credits from general obligation bonds, revenue bonds, certificates of participation and lease revenue bonds, enterprise and utility revenue bonds, short-term cash flow borrowings, and direct purchases. Julia received her B.A. in Economics and a minor in Business Administration from the University of California, Berkeley and currently serves on the Board of Women in Public Finance – Los Angeles Chapter as Chair of the Scholarship Committee.



Charles Peck is the Head of WFS' Public Finance Investment Banking and will ensure the County receives the highest level of service by utilizing our firm's full resources. He has spent over 14 years focused on general government clients throughout the U.S. Prior to joining Wells Fargo, Chuck ran Morgan Stanley's Public Finance Rocky Mountain Region and worked with a variety of municipal credits including general government, transportation, utilities, and higher education. During his career, he has been lead banker on some landmark financings such as a Qualified School Construction Bond financing for the State of Pennsylvania, a restructuring of the Prairie Waters project related debt for the City of Aurora, Colorado, a \$1.5 billion tobacco revenue bond transaction for the State of Pennsylvania, among others. Before becoming an investment banker, Chuck was a lead fiscal policy staff member in the Pennsylvania state government.



Kristen Fontana serves as the banking team's credit strategist and will work closely with the banking team to develop and provide guidance on content and structure for credit presentations to investors and rating agencies. Kristen joined Wells Fargo Securities upon graduation from the University of Chicago where her graduate work focused on public finance and included research at the U.S. Office of Management and Budget as well as a consulting project with the Chicago Community Trust. Prior to graduate school, Kristen spent a combined six years at two large investment banks where she both fostered relationships with institutional equity clients and provided analytical support for the credit derivatives business. She has worked with a variety of issuers including state, local, water and sewer as well as transportation agencies. Kristen graduated cum laude with a B.S. in Finance from the University of Maryland, College Park and holds an M.P.P. from the University of Chicago. She is currently serving on the GASB Board.



We also offer the County a specialized Quantitative Analytics team who work on the most complex financings as well as develop innovative solutions in the face of the changing landscape of the municipal market. **Scott Goldstein** joined WFS in 1993 (via merger with A.G. Edwards). He has over 31 years of experience in investment banking as a quantitative specialist with extensive understanding of bond related tax code issues. He has structured over 1,000 senior managed municipal transactions with significant emphasis for refunding and structured solutions. Scott has been instrumental in developing and applying several refunding innovations, providing analytical decision making framework for cash market and derivative solutions and improving escrow efficiencies to help issuers lower their cost of capital. Scott is a graduate of the University of Maryland where he earned a Bachelor of Science degree in business with an emphasis in finance and accounting. He received his MBA degree in finance from George Washington University.



Parks Lineberger leads our California underwriting efforts and began his career with WFS over 12 years ago within the municipal finance group. Throughout the course of a transaction, Parks will provide pricing details and general updates regarding the municipal market and the impact of market movements on the County's financing. His experience includes, but is not limited to, water and wastewater revenue transactions, and other credits including general market GO, lease revenue bonds, healthcare, higher education, taxable, and corporate municipalities throughout the U.S. Parks will serve as the lead underwriter on the County of Maui's General Obligation Bond transaction later this year. Parks holds a B.S. degree in Finance and Accounting from North Carolina State and maintains his Series 7, 63, and 52 licenses.



Rebekah Wales will work closely with Parks and the underwriting desk as our firm's Syndicate Coordinator. She focuses on ensuring adherence to all regulatory requirements while providing seamless execution for WFS' clients. Rebekah will be responsible for all of the transactional support on the underwriting desk. This includes, but is not limited to, entering and monitoring orders, working with both the retail and institutional sales teams, communicating with the syndicate, and making sure that price guidance and wires are distributed timely. Rebekah joined WFS Municipal Finance in 2011 after four years of service in the public sector. She has a BA in English and a Juris Doctorate from the University of Alabama School of Law. She is a General Securities Registered Representative (Series 7), a Registered Investment Banking Representative (Series 79), a Registered Municipal Securities Principal (Series 53), and Series 63 licensed.

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4. A list of recent projects and the names of up to five clients who may be contacted, including at least two for whom services were rendered during the preceding year.
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Wells Fargo Securities continues to be a top underwriter of municipal bonds, as illustrated by the wide array of large and high-profile financings our Firm has senior managed. The tombstones below display our recent experience with Hawaii issuers specifically.



County of Maui \$80,000,000* General Obligation Bonds Series 2021 Sale Date: Summer 2021* Rating: TBD Final Maturity: TBD Tax-Status: Tax-Exempt Sole Manager 	State of Hawaii \$137,205,000 Highway Revenue Bonds Series 2021 Sale Date: May 26, 2021 Rating: Aa2/AA+ Final Maturity: January 1, 2041 Tax-Status: Tax-Exempt Co-Senior Manager 	County of Maui \$74,420,000 General Obligation Bonds Series 2020 Sale Date: September 9, 2020 Rating: Aa1/AA+/AA+ Final Maturity: March 1, 2040 Tax-Status: Tax-Exempt Sole Manager 	State of Hawaii \$81,835,000 Highway Revenue Bonds Series 2019A Sale Date: November 14, 2019 Rating: Aa1/AA+ Final Maturity: January 1, 2040 Tax-Status: Tax-Exempt Co-Senior Manager 	State of Hawaii \$575,000,000 General Obligation Bonds Series FW, FX, FY Sale Date: February 6, 2019 Rating: Aa1/AA+/AA Final Maturity: January 1, 2039 Tax-Status: Exempt & Taxable Co-Manager 
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*Preliminary, subject to change

In **Appendix I** we provide our full list of transactions in which WFS served as a senior or co-manager from January 2018 to present.

References. Below we provide five client references. We encourage the County to contact our references as we believe they will speak highly of the services our Firm and professionals have provided.

Client References		
Mr. Scott Teruya Director of Finance County of Maui 200 S. High Street Wailuku, HI 96793 (808) 270-7722 scott.teruya@co.maui.us	Ms. Suzanne Luster Public Finance Director County of Orange 333 West Santa Ana Blvd. Santa Ana, CA 92701 (714) 834-3362 suzanne.luster@ocgov.com	Mr. John Patterson Senior Financial Analyst County of Los Angeles 500 West Temple Street Los Angeles, CA 90012 (213) 974-2310 jpatterson@ttc.lacounty.gov
Ms. Tammy Lee Administrative Services Officer State of Hawaii Dept of Transportation - Highways Division 869 Punchbowl Street Honolulu, HI 96813 (808) 587-2218 tammy.l.lee@hawaii.gov	Ms. Kim Tesoro Assistant Treasurer-Tax Collector County of Santa Barbara 105 E. Anapamu Street Santa Barbara, CA 93101 (805) 568-2153 Ktesoro@co.santa-barbara.ca.us	

5. Any promotional or descriptive literature which the individual or firm desires to submit

Financing Expertise. WFS has a broad range of financing experience and expertise and generally speaking, has been a top underwriter across the various sectors for the past three years. WFS' participation in negotiated and competitive underwritings, as well as in the secondary market, ensures a continuous flow of information regarding current market preferences. As one of the largest financial service providers in the world, WFS is able to offer broad-range financing solutions that reach beyond municipal underwriting. While municipal underwriting is our core focus, we are able to offer additional unique products and services to meet the changing needs of both the market and the County. Our team is a top underwriter of all forms of municipal debt, as illustrated by the wide array of large and high-profile financings we have successfully managed. Since 2017, WFS has successfully senior managed over 780 financings for a total par amount of over \$82 billion, and further, completed over 1,495 financings or a par amount of \$354 billion as a co-manager.⁹ **For 2021 year-to-date, WFS has served on over 264 negotiated transactions, making WFS the 4th ranked negotiated underwriter.**¹⁰ To illustrate WFS' breadth of experience, below we summarize our financing experience.

Wells Fargo Securities Negotiated Financing Experience Since 2017						
	Senior/Sole Managed		Co-Managed		Total	
	Par (\$mm)	# of Deals	Par (\$mm)	# of Deals	Par (\$mm)	# of Deals
General Obligation Bonds	13,662	155	72,829	318	86,491	473
Transportation Bonds (Ports, Highways, Airport)	18,209	76	50,399	158	68,609	234
Single and Multi-Family Housing Bonds	4,567	87	37,968	558	42,535	645
Certificates of Participation and Lease Revenue	5,317	60	6,446	46	11,763	106

⁹ Source: Securities Data Corp., True Economics to Book Runner negotiated long term transactions

¹⁰ Source SDC Thomson Reuters – negotiated long term transactions Full to Each Negotiated financings (1/1/2021 – 6/25/2021)



Wells Fargo Securities Negotiated Financing Experience Since 2017						
	Senior/Sole Managed		Co-Managed		Total	
	Par (\$mm)	# of Deals	Par (\$mm)	# of Deals	Par (\$mm)	# of Deals
Healthcare Related Bonds	10,220	72	11,355	60	21,575	132
Public and Private Higher Education Bonds	13,850	159	28,344	167	42,195	326
Other Long-Term Financings	17,039	171	64,180	202	81,038	373
Total	\$82,864	780	\$271,521	1,509	\$354,206	2,289

Source: SDC Thomson Reuters. Other Long-Term Financings include other Revenue Bonds, Special Purpose Bonds, and other short-term financings.

Serving Hawaii-Based Issuers. Wells Fargo Securities is proud of our history serving clients in the State of Hawaii. The advantages, which include i) familiarity with State and local economic conditions, ii) understanding Hawaii's statutes and bond laws, iii) adhering to the State's Debt Policy, iv) obtaining and maintaining the appropriate licenses and certifications through Hawaii Compliance Express, and v) knowing the local impactful investors will position our team well for leading the County's future bond sales. In the following table, we provide our transactions in Hawaii since 2011.

Transactions in Hawaii Since 2011				
Sale Date	Issuer	Issue Type	Par (\$mm)	Role
Summer 2021	County of Maui	General Obligation Bonds	80.0*	Sole Manager
Summer 2021	City and County of Honolulu	General Obligation Bonds	725.0*	Selling Group
05/26/21	State of HI DOT – Highways Division	Highway Revenue Bonds	137.0	Co-Senior
11/28/20	State of HI DOT – Harbors Division	Harbor System Revenue	266.5	Selling Group
10/21/20	State of Hawaii	General Obligation Bonds	1,1475.0	Selling Group
10/13/20	University of Hawaii	Revenue Bonds	217.1	Selling Group
10/07/20	State of HI DOT – Airports Division	Airport Revenue	582.9	Selling Group
09/20/20	County of Maui	General Obligation Bonds	74.4	Sole Manager
11/14/19	State of HI DOT – Highways Division	Revenue Bonds	81.8	Co-Senior
10/23/19	City and County of Honolulu	General Obligation	496.9	Selling Group
09/25/19	Hawaii Electric Co.	Revenue Bonds	80.0	Co-Manager
08/07/19	City and County of Honolulu	General Obligation	548.9	Selling Group
07/10/19	Hawaii Electric Co.	Refunding Revenue	150.0	Co-Manager
02/06/19	State of Hawaii	General Obligation	575.0	Co-Manager
08/15/18	City and County of Honolulu	General Obligation	468.4	Selling Group
08/09/18	State of HI DOT – Airports Division	Airport Revenue	414.6	Co-Manager
01/30/18	State of Hawaii	General Obligation	775.0	Selling Group
03/15/18	Hawaii Pacific Health	Special Purpose Revenue	147.1	Lead Manager
12/14/17	University of Hawaii	Revenue Bonds	110.7	Selling Group
08/10/16	State of HI DOT – Highways Division	Highway Revenue	204.4	Co-Senior
10/15/15	State of Hawaii	General Obligation	746.3	Selling Group
07/22/15	City and County of Honolulu	General Obligation	698.9	Selling Group
03/16/15	City and County of Honolulu	General Obligation	888.6	Selling Group
11/13/14	State of Hawaii	General Obligation	1,008.6	Co-Manager
07/29/14	State of HI DOT – Highways Division	Highway Revenue	163.6	Co-Senior
12/10/13	State of HI DOT – Airports Division	Airport COPs	167.7	Selling Group
11/05/13	State of Hawaii	General Obligation	860.8	Co-Manager
09/10/13	Hawaii Pacific Health	Special Purpose Revenue	158.9	Co-Manager
12/04/12	State of Hawaii	General Obligation	866.9	Co-Manager
03/15/12	Kamehameha Schools	Taxable LIBOR Note**	25.0	Sole Manager
11/17/11	State of Hawaii	General Obligation	1,286.2	Selling Group

Source: Thomson SDC Data. *Subject to change. **Direct Purchase with Wells Fargo Bank, N.A.



Secondary Market Support for Hawaii Issuers. WFS is also committed to providing liquidity in the secondary market for our issuer-clients and investors. Indeed, WFS actively trades Hawaii-based securities in the secondary market and has traded over \$894 million of Hawaii credits (outside of the State's GO Bonds) since 2013. In the table below, we summarize our secondary trading activity from 2013 through 2020.

Wells Fargo Secondary Trading Activity								
	State of HI GO Bonds		Hawaii GO Bonds		Hawaii (Other Credits)		National GO Bonds	
Year	# Trades	\$ Amount	# Trades	\$ Amount	# Trades	\$ Amount	# Trades	\$ Amount
2020	2,000	619,815,000	828	315,865,000	1,172	\$303,950,000	101,032	34,592,545,757
2019	939	363,205,000	601	171,810,000	496	85,460,000	55,863	26,742,265,559
2018	1,061	384,665,000	1,384	175,285,000	694	80,320,000	80,381	28,708,584,284
2017	769	175,210,000	1,097	169,100,000	698	113,005,000	70,538	32,824,122,795
2016	434	231,090,000	1,285	451,935,000	531	72,315,000	60,455	28,436,039,833
2015	261	100,640,000	677	503,175,000	398	128,030,000	40,979	19,606,648,972
2014	108	133,545,000	459	106,410,000	177	31,165,000	31,594	23,184,972,004
2013	298	216,320,000	250	247,815,000	87	80,230,000	23,158	19,430,750,490
Total	5,870	\$2,224,490,000	6,581	\$2,141,395,000	4,253	\$894,475,000	464,000	\$213,525,929,694

Source: WFS Municipal Trading Desk.

Other Hawaii Credits include transportation bonds and special purpose revenue bonds.

Institutional investors are constantly repositioning their portfolios. By using our capital to maintain an inventory of bonds, which we make available to investors, and to purchase bonds from investors (thus providing needed liquidity), WFS has become a valued trading partner. Aided by our own high credit ratings and low funding costs, WFS routinely holds up to \$1 billion in inventory between our institutional and retail trading desks¹¹. The frequent communication with investors allows our Firm to be well equipped to ascertain investor appetite for future bond sales. While a firm's activity and presence in the secondary market is often overlooked, it can directly translate into pricing transparency and success for an issuer in the primary market. At \$1.3 trillion, the municipal secondary market is over 3.5 times the size of the new issue (primary) market. As one of the top four municipal market makers in the industry, we know which credits each institutional investor is buying at any given time as well as the price investors are willing to pay.¹²

National and Hawaii Based Marketing and Distribution Capabilities. Wells Fargo's marketing program includes utilizing our broad and diverse distribution network, which covers three in-house distribution channels: (1) institutional; (2) middle-market; and (3) retail brokerage. Our three-tiered investor channel, as detailed below, provides us with the necessary flexibility to adapt our marketing strategy to changing market conditions as they arise. WFS will utilize all three distribution outlets nationally and regionally to support the County's bond financings.

Wells Fargo's Extensive Distribution Network					
(1) Institutional Sales		(2) Middle Market Sales		(3) Retail Sales	
Municipal Institutional Sales	Taxable Sales	National Middle Market Sales*	Hawaii Middle Market Sales*	National Retail Sales**	Hawaii Retail Sales**
11 member sales team 4 offices nationwide	200 sales professionals 33 offices globally	80 sales professionals 16 offices nationwide	Have covered on island accounts for 30+ years	11,228 Retail advisors 655 Locations	39 Retail advisors \$5.3 billion in Client Assets

*Provided by Wells Fargo Securities, LLC.; **Provided by Wells Fargo Advisors a trade name for Wells Fargo Clearing Services, LLC

- 1. Institutional Sales.** WFS' institutional salesforce distributes a full line of municipal products, including tax-exempt and taxable securities. Our dedicated municipal institutional sales team concentrates its efforts solely on selling municipal and structured finance products to the largest top-tier institutional municipal buyers nationwide. The municipal institutional investor base includes the key national buyers of municipal securities including 425 institutional accounts. Our Municipal Institutional Client Services Group includes 11 dedicated municipal institutional sales professionals scattered across the country. This includes coverage of large "Tier 1" high grade accounts with assets over \$1 billion such as Vanguard, BlackRock, Northern Trust, and State Farm in addition to money managers, insurance companies, bank portfolios, hedge funds and pension funds.

¹¹ Source: Wells Fargo Underwriting Desk

¹² Source: Bloomberg as of May 16, 2021 and Greenwich Associates 2018 Municipal Bond and Derivatives



2. Middle Markets Sales. One of WFS' competitive advantages is its ability to reach middle market investors – an asset class that can be extremely beneficial. As the County seeks to expand its investor base and support local businesses, we believe this component of our distribution network to be particularly relevant. Indeed, most national underwriters do not focus on these investors since large institutional investors tend to dominate the municipal market. While WFS is a top distributor to institutional accounts, our business model allows us to focus on smaller and more regional institutional investors who tend to be more likely to buy-and-hold securities relative to their larger institutional counterparts. In 16 regional sales offices, WFS has 80 middle-market sales professionals who serve over 7,000 state and local community banks, asset managers, regional depositories, corporate trust departments, corporations, municipalities/public entities, and local insurance companies. The added benefit of middle market customers comes from their knowledge of local credits and regions often times making them optimal buyers for the County's bonds. For example, on a recent transaction for the County of Maui WFS served as sole manager on, a local tax-exempt mutual fund, which WFS has a proprietary relationship with, entered a specific order based on a lower coupon than what was initially offered and ultimately lowered the borrowing cost considerably. When WFS is not involved in a bond sale, this local professional retail account will only trade in the secondary market. Additionally, the sales professionals in this group have been covering Bank of Hawaii for over 30 years, First Hawaiian Bank and other local money managers. An order from a middle market investor can range from small odd lots to \$50 million+ blocks of bonds. In the current market, middle markets investors have been extremely active buyers of municipal bonds and our ability to reach these investors – as well as retail and larger institutions – allows us to be more focused in marketing and pricing bonds on the County's behalf.

Hawaii Middle Market Trade Activity Since 2019	
Investor	Trade Amount
First Hawaiian Bank	\$67,500,000
Bank of Hawaii	\$49,740,000
Bishop Street Capital Management	\$17,130,000
Lee Financial Group	\$1,200,000
First Honolulu Securities	\$610,000

Source: WFS Municipal Underwriting Desk - CONFIDENTIAL

3. Hawaii Retail Sales. WFS' retail brokerage network, through our affiliate Wells Fargo Clearing Services, LLC (DBA Wells Fargo Advisors), maintains the third largest retail brokerage network in the country.¹³ Our national retail platform currently employs over 11,000 full-service retail brokers and has approximately \$1.7 trillion in total client held assets.¹⁴ Of this amount, over \$423 million of Hawaii based issuances are held by our retail clients. Our Honolulu-based retail brokerage office maintains 27 financial advisors and 12 licensed support who actively sell and trade municipal bonds, among other financial products. Specifically, our financial advisors based in Hawaii manage approximately 26,000 active accounts with a combined \$5.2 billion of assets for State of Hawaii residents. In fact, as of February 2021, more than 383 of our retail accounts held over \$15 million of the County's general obligation bonds, as shown below.¹⁵

Wells Fargo Advisors		
	National	Hawaii
Client Assets*	\$1,766,335,821,428	\$5,260,909,761
Number of WFA Accounts*	9,299,475	26,420
Number of WFA Salespeople*	11,228	39
Tax-Exempt Holdings**	\$80,206,147,275	\$423,186,675

*Source Wells Fargo Clearing Services, LLC. As of December 31, 2020 **As of July 10, 2020

WFA Retail Holdings for Select Hawaii-Based Issuers		
Security Type	\$ Holdings	# of Accounts
County of Hawaii	15,767,359	383
County of Maui	11,896,267	230
County of Kauai	3,864,272	145
City & County of Honolulu – GO Bonds	104,435,506	1,641
City & County Honolulu – Wastewater System Revenue	60,661,896	959
State of Hawaii – GO Bonds	\$144,000,344	2,228

Source: Wells Fargo Advisors as of February 18, 2021

Firm Capital. Wells Fargo Bank, N.A. ("WFBNA") is the legal entity that provides municipal securities underwriting services for Wells Fargo & Co. As a national bank registered with the SEC as a municipal securities dealer, WFBNA is not subject to the SEC's net capital rules that apply to broker-dealers. WFBNA is, however, subject to capital regulations prescribed by the Office of the Comptroller of the Currency ("OCC"), which is the regulatory authority for national banks. Since WFBNA currently meets the definition of a "well capitalized" bank under the OCC's capital regulations, WFBNA (Wells Fargo Securities as the trade

¹³ Source: WIM FP&A as of March 31, 2021

¹⁴ WFA statistical information as of December 31, 2019. Data is a combination of Wells Fargo Clearing Services, LLC; Wells Fargo Advisors Financial Network; LLC and First Clearing, LLC.

¹⁵ Source: Wells Fargo Clearing Services LLC as of July 10, 2020



name) is authorized under applicable federal banking rules to underwrite municipal securities without any regulatory-defined capital constraint. WFBNA's only constraint as to the par value of municipal securities it underwrites is our own internal credit decision process. In the table below, we present our strong capital over the last three calendar years.

Wells Fargo Bank, N.A. Capital			
December 31	Tier One Capital	Total Risk-Based Capital	Total Capital
2021*	\$149,957,000,000	\$163,989,000,000	\$171,125,000,000
2020	\$150,168,000,000	\$164,412,000,000	\$170,928,000,000
2019	\$167,393,000,000	\$158,615,000,000	\$145,149,000,000
2018	\$163,379,000,000	\$155,557,000,000	\$142,684,000,000

Source: WFBNA Call Report; * As of March 31, 2021

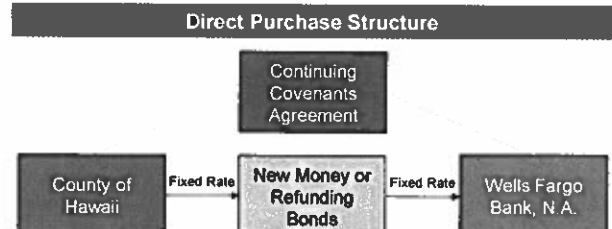
While a number of firms have a large capital base, it is most important that such firms evidence their willingness to deploy that capital in support of their clients. WFBNA has demonstrated its ability to commit capital in support of our municipal clients by directly underwriting unsold balances on negotiated primary market issues, actively bidding for competitive issues, supporting the secondary markets with an average daily inventory of fixed rate municipal securities in 2020 of approximately \$1 billion; and, as a commercial bank, providing credit enhancement, liquidity support, and direct purchase credit to municipal issuers.¹⁶ Below we highlight recent examples where WFS used our capital to provide underwriting support in the primary market.

Select Negotiated Underwritings				
Dated Date	Issuer	Deal Size (\$)	Total Bonds Underwritten (\$)	% of Deal*
04/01/21	County of Wake, NC	\$186,720,000	\$56,300,000	30.53%
11/30/20	NYC Housing Dev. Corp.	\$289,065,000	\$102,190,000	35.35%
10/14/20	State of Colorado	\$44,225,000	\$22,275,000	50.46%
09/22/20	Virginia Transportation Board	\$100,760,000	\$11,250,000	11.20%
08/11/20	City of San Antonio	\$153,390,000	\$26,195,000	17.10%
07/30/20	State of Wisconsin	\$315,840,000	\$55,250,000	17.55%
07/01/20	County of Riverside, CA	\$340,000,000	\$148,775,000	43.76%
04/29/20	State of Washington	\$410,735,000	\$26,575,000	6.46%
04/22/20	Arizona Board of Regents	\$154,455,000	\$8,055,000	5.32%
03/19/20	Utah Transit Authority	\$216,650,000	\$53,675,000	25.34%
02/27/20	State of Utah	\$448,430,000	\$60,525,000	13.48%

*% of Deal based on bonds offered at the time of pricing and not on re-price and final structure.

Source: Thomson Reuters SDC and WFS Municipal Underwriting Desk; Represents Negotiated GO Financings with 5% or > of Total Underwritten Bonds

WFBNA Direct Purchases and Private Placements. In addition to traditional investment banking and underwriting services, WFBNA strongly supports its clients with a variety of credit enhancement products such as providing letters of credit or liquidity facilities and other traditional bank products. WFBNA is highly sought after for its capital and credit support and we continue to be recognized as one of the most stable and best capitalized banks in the world.



Direct Placement of County BANs. Alternatively to a public offering, WFBNA offers our clients a Direct Purchase solution, which is similar to the County's private placement of Bond Anticipation Notes ("BANs"). Instead of accessing the capital markets publicly, WFBNA would be the sole purchaser of the County's BANs for our balance sheet, without the intention to sell or trade those securities.¹⁷ This product has proven to be most beneficial for clients who want to minimize upfront costs as well as expedite a transaction to take advantage of market conditions. The credit analysis would be conducted internally, and we would not require the County to obtain a public rating nor produce any disclosure documents. As a bank broker-dealer, we may be able to offer financing solutions that are customized for the County. We are able to collaborate with our commercial banking partners to provide the County with an interim financing solution such as a Bond Anticipation Note or "Drawdown Direct Purchase." This type of product can be very beneficial to reduce negative carry from a project fund or to quickly drawdown funds on an as needed basis.

¹⁶ Source: WFS Municipal Underwriting Desk

¹⁷ WFBNA Direct Purchase is a product of WFBNA and is subject to credit approval

APPENDIX I

Wells Fargo Securities Public Finance Bond Underwriting Experience Since January 2019 Public Finance Bond Underwriting

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
01/09/19	49.600	Allegheny Co Higher Ed Bldg Auth	Revenue Bonds	N	PA	LEAD
01/09/19	130.000	Charleston City-South Carolina	Wtrwrks & Swr Sys Cap Imp Bonds	N	SC	LEAD
01/09/19	750.000	New Jersey Trans Trust Fund Au	Transportation Program Bonds	N	NJ	LEAD
01/10/19	268.775	Mississippi	Gaming Tax Revenue Bonds	N	MS	LEAD
01/14/19	19.535	Cumberland Co Muni Auth	Revenue Bonds	N	PA	LEAD
01/14/19	402.102	Orange Co-California	Pension Obligation Bonds	P	CA	SOLE
01/14/19	10.000	Sartell City-Minnesota	General Obligation Bonds	C	MN	SOLE
01/14/19	14.325	Washington Co Commissioners	Revenue Bonds	N	MD	LEAD
01/15/19	425.005	Arizona	Ref Certificates of Participation	N	AZ	LEAD
01/15/19	21.410	Tarrant Co (Birdville) ISD	Unlimited Tax School Bldg Bonds	N	TX	CO-MGR
01/15/19	136.225	Tarrant Co (Birdville) ISD	Unlimited Tax School Bldg Bonds	N	TX	CO-MGR
01/15/19	127.715	Utah	General Obligation Bonds	N	UT	CO-MGR
01/16/19	100.000	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
01/16/19	101.595	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
01/17/19	46.180	Bell Co (Salado) ISD	Unlimited Tax School Bldg Bonds	N	TX	CO-MGR
01/17/19	39.465	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
01/17/19	60.000	NYC Municipal Water Fin Auth	Water & Sewer Sys Rev Bonds	N	NY	CO-MGR
01/17/19	70.000	NYC Municipal Water Fin Auth	Water & Sewer Sys Rev Bonds	N	NY	CO-MGR
01/17/19	345.000	NYC Municipal Water Fin Auth	Water & Sewer Sys Rev Bonds	N	NY	CO-MGR
01/23/19	136.520	Boulder (Boulder Vly) SD #RE-2	General Obligation Bonds	C	CO	SOLE
01/23/19	68.025	Dallas ISD	Unlimited Tax Refunding Bonds	N	TX	LEAD
01/23/19	84.365	Pennsylvania Turnpike Commission	Turnpike Revenue Refunding Bonds	N	PA	LEAD
01/23/19	10.580	Travis Co (Lake Travis) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
01/23/19	82.125	Travis Co (Lake Travis) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
01/24/19	449.110	New Jersey Turnpike Authority	Turnpike Revenue Bonds	N	NJ	CO-MGR
01/24/19	92.355	Randall Co (Canyon) ISD	Unltd Tax School Building Bonds	N	TX	LEAD
01/24/19	10.000	York Co-South Carolina	General Obligation Bonds	C	SC	SOLE
01/29/19	168.455	American Municipal Power Inc	Revenue Refunding Bonds	N	OH	LEAD
01/29/19	74.555	Shelby Co-Tennessee	GO Refunding Bonds	C	TN	SOLE
01/30/19	2.300	NYS Housing Fin-Mortgage Agcy	Housing Revenue Bonds	P	NY	SOLE
01/30/19	89.800	NYS Housing Fin-Mortgage Agcy	Housing Revenue Bonds	P	NY	SOLE
02/01/19	134.390	NYS Housing Fin-Mortgage Agcy	Affordable Housing Ref Rev Bonds	N	NY	CO-MGR
02/05/19	147.610	Garland City-Texas	Electric Utility Sys Rev Ref Bond	N	TX	LEAD
02/05/19	99.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	CO-MGR
02/06/19	15.000	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
02/06/19	72.980	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
02/06/19	143.335	Hawaii	General Obligation Bonds	N	HI	CO-MGR
02/06/19	431.665	Hawaii	General Obligation Bonds	N	HI	CO-MGR
02/07/19	57.205	California Municipal Fin Auth	Revenue Bonds	N	CA	SOLE
02/07/19	113.520	California Municipal Fin Auth	Revenue Bonds	N	CA	SOLE
02/07/19	30.351	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
02/07/19	35.630	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
02/07/19	149.770	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	LEAD
02/07/19	63.960	San Joaquin Co Transpo Auth	Sales Tax Revenue Bonds	N	CA	CO-MGR
02/12/19	22.840	Midland City-Texas	Tx & Ltd Pledge Rev Cert of Oblig	N	TX	CO-MGR
02/12/19	28.530	Midland City-Texas	GO Improvement & Refunding Bonds	N	TX	CO-MGR
02/12/19	175.000	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
02/12/19	150.925	Univ of North Carolina Bd of Gov	General Revenue Refunding Bonds	N	NC	LEAD
02/13/19	83.170	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
02/13/19	176.125	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
02/13/19	603.460	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
02/13/19	37.145	New Mexico Finance Auth (NMFA)	Revolving Fund Revenue Bonds	N	NM	LEAD
02/13/19	19.595	Oregon	General Obligation Bonds	N	OR	CO-MGR
02/13/19	40.170	Oregon	General Obligation Bonds	N	OR	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
02/13/19	466.355	Oregon	General Obligation Bonds	N	OR	CO-MGR
02/13/19	29.525	Virginia Beach City-Virginia	Storm Water Utility Revenue Bonds	C	VA	SOLE
02/14/19	44.220	Durham Co-North Carolina	GO Refunding Bonds	N	NC	CO-MGR
02/14/19	695.595	Main Street Natural Gas Inc	Gas Supply Revenue Bonds	N	GA	LEAD
02/14/19	20.320	Mississippi Development Bank	Special Obligation Bonds	N	MS	LEAD
02/14/19	57.430	Mississippi Development Bank	Special Obligation Bonds	N	MS	LEAD
02/14/19	16.755	Regents of the University of Michigan	General Revenue Bonds	N	MI	CO-MGR
02/14/19	148.330	Regents of the University of Michigan	General Revenue Bonds	N	MI	CO-MGR
02/14/19	78.210	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
02/19/19	23.100	Brookfield City-Wisconsin	GO Conference Center Bonds	C	WI	SOLE
02/20/19	19.195	Florida Govt Util Auth (FGUA)	Utility Refunding Revenue Bonds	N	FL	SOLE
02/21/19	66.750	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
02/22/19	58.740	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	LEAD
02/22/19	39.725	North Carolina Medical Care Commiss	Health Care Facilities Rev Bonds	N	NC	LEAD
02/22/19	60.605	North Carolina Medical Care Commiss	Health Care Facs Rev Bonds	N	NC	LEAD
02/22/19	105.905	North Carolina Medical Care Commiss	Health Care Facs Rev Bonds	N	NC	LEAD
02/26/19	80.000	Hennepin Co Reg Railroad Auth	Limited Tax Bonds	C	MN	SOLE
02/26/19	19.130	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
02/26/19	61.295	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
02/27/19	42.475	Iowa State Board of Regents	Hospital Revenue Bonds	C	IA	SOLE
02/27/19	140.000	Maryland Dept Hsg & Com Dev (DHCD)	Reidental Revenue Bonds	N	MD	CO-MGR
02/28/19	58.395	Georgia Higher Ed Facs Auth	Refunding Revenue Bonds	N	GA	CO-MGR
02/28/19	24.400	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
02/28/19	30.000	NYS Housing Fin-Mortgage Agcy	Homrowner Mortgage Rev Bonds	N	NY	CO-MGR
02/28/19	68.670	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
03/06/19	500.040	California	Various Purpose GO Ref Bonds	N	CA	CO-MGR
03/06/19	1,791.810	California	GO Var Purpose & Ref Bonds	N	CA	CO-MGR
03/06/19	100.610	Oregon Dept of Admin Services	Certificates of Participation	N	OR	CO-MGR
03/07/19	7.865	Minnesota Housing Fin Agency	Residential Hsg Finance Bonds	N	MN	CO-MGR
03/07/19	37.500	Minnesota Housing Fin Agency	Residential Hsg Finance Bonds	N	MN	CO-MGR
03/07/19	98.195	Minnesota Housing Fin Agency	Residential Hsg Finance Bonds	N	MN	CO-MGR
03/07/19	915.225	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
03/08/19	104.000	NYS Housing Fin-Mortgage Agcy	Housing Revenue Bonds	P	NY	SOLE
03/11/19	62.455	Will Co-Illinois	GO Alternate Revenue Source Bonds	N	IL	LEAD
03/12/19	87.025	Baltimore Co-Maryland	Certificates of Participation	C	MD	SOLE
03/12/19	93.240	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
03/13/19	62.335	Kansas Turnpike Authority	Turnpike Refunding Rev Bonds	N	KS	CO-MGR
03/13/19	9.095	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/13/19	22.400	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/13/19	22.565	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/13/19	23.830	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/13/19	27.565	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/13/19	45.600	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/13/19	52.250	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/13/19	114.040	New York	General Obligation Bonds	C	NY	SOLE
03/13/19	221.005	Texas Water Development Board	St Revolving Fund Revenue Bonds	N	TX	CO-MGR
03/13/19	25.040	Virginia Public Building Auth	Public Facilities Revenue Bonds	C	VA	SOLE
03/14/19	301.095	Dallas Area Rapid Transit Auth	Sr Ln Sales Tax Revenue Ref Bonds	N	TX	CO-MGR
03/14/19	233.925	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
03/21/19	10.000	Pennsylvania Hghr Ed Facs Auth	University Revenue Bonds	N	PA	SOLE
03/21/19	18.690	Pennsylvania Hghr Ed Facs Auth	University Revenue Bonds	N	PA	SOLE
03/26/19	62.465	Arizona Transportation Board	GANs	N	AZ	LEAD
03/26/19	420.885	California	Various Purpose GO Bonds	C	CA	SOLE
03/27/19	35.410	Connecticut Airport Authority	Customer Fac Charge Rev Bonds	N	CT	CO-MGR
03/27/19	115.690	Connecticut Airport Authority	Customer Fac Charge Rev Bonds	N	CT	CO-MGR
03/27/19	850.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
03/27/19	56.235	Oregon Dept of Admin Services	Oregon Lottery Revenue Bonds	N	OR	CO-MGR
03/27/19	100.395	Oregon Dept of Admin Services	Oregon State Lottery Rev Bonds	N	OR	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
03/27/19	17.840	Salt Lake Co Muni Bldg Auth	Lease Revenue Bonds	N	UT	SOLE
03/27/19	16.600	Santa Clara USD	GO Refunding Bonds	C	CA	SOLE
03/28/19	96.655	Fulton Co Development Authority	Georgia Tech Facilities Rev Bonds	N	GA	CO-MGR
03/28/19	10.400	Louisiana Gov Env Fac & CDA (LCDA)	Revenue Bonds	N	LA	SOLE
03/28/19	146.700	North Carolina Housing Fin Agcy	Home Ownership Revenue Bonds	N	NC	CO-MGR
03/29/19	3.335	District of Columbia Hsg Fin Agy	Multi-Family Dev Program Bonds	N	DC	SOLE
03/29/19	9.190	District of Columbia Hsg Fin Agy	Multi-Family Dev Program Bonds	N	DC	SOLE
03/29/19	208.725	Univ of Massachusetts Bldg Au	Refunding Revenue Bonds	N	MA	LEAD
04/02/19	207.650	Wisconsin Public Finance Auth	Hospital Revenue Bonds	N	WI	CO-MGR
04/03/19	26.665	Gainesville City-Florida	Utilities System Revenue Bonds	N	FL	CO-MGR
04/03/19	153.820	Gainesville City-Florida	Utilities System Revenue Bonds	N	FL	CO-MGR
04/04/19	16.500	Florida Municipal Loan Council	Revenue Bonds	N	FL	SOLE
04/04/19	185.000	Louisiana	Grant Anticipation Rev Bonds	N	LA	LEAD
04/04/19	42.045	Univ of North Carolina Bd of Gov	General Revenue Bonds	N	NC	LEAD
04/05/19	27.810	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
04/05/19	149.070	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
04/09/19	158.905	Williamson Co (Round Rock) ISD	Unltd Tax School Building Bonds	C	TX	SOLE
04/10/19	111.310	Georgia Housing Finance Authority	Single Family Mortgage Bonds	N	GA	CO-MGR
04/10/19	57.610	Jacksonville City-Florida	Health Care Facs Rev Ref Bonds	N	FL	LEAD
04/10/19	500.000	NYC Municipal Water Fin Auth	Water & Sewer Revenue Bonds	N	NY	CO-MGR
04/11/19	2,023.975	California	Various Purpose GO & Ref Bonds	N	CA	CO-MGR
04/11/19	120.950	Charlotte City-North Carolina	Certificates of Participation	N	NC	LEAD
04/12/19	31.713	Washington St Hsg Fin Commission	Multi-Family Housing Rev Bonds	P	WA	SOLE
04/17/19	98.955	Jacksonville City-Florida	Health Care Facs Rev Ref Bonds	N	FL	SOLE
04/17/19	612.000	Tuscaloosa Co Indus Dev Auth	Gulf Opportunity Zone Ref Bonds	N	AL	CO-MGR
04/23/19	12.085	Portland City-Oregon	GO Refunding Bonds	C	OR	SOLE
04/24/19	265.390	Collin Co (Frisco) ISD	Unlt Tx School Bldg & Ref Bonds	N	TX	LEAD
04/24/19	15.000	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
04/24/19	71.995	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
04/24/19	239.465	University of Connecticut	General Obligation Bonds	N	CT	CO-MGR
04/25/19	72.830	Metro Wastewater Reclamation Dt	Sewer Refunding Bonds	N	CO	SOLE
04/30/19	188.660	Philadelphia City-Pennsylvania	GO Refunding Bonds	N	PA	CO-MGR
04/30/19	88.250	Virginia Public School Authority	School Financing Bonds	C	VA	SOLE
05/01/19	20.845	Connecticut Hlth & Ed Facs Auth	Revenue Refunding Bonds	C	CT	SOLE
05/01/19	135.385	El Paso Co (Socorro) ISD	School Building Bonds	N	TX	CO-MGR
05/01/19	6.610	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
05/01/19	18.000	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
05/01/19	19.890	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
05/01/19	33.065	Mesa City-Arizona	General Obligation Bonds	N	AZ	SOLE
05/02/19	10.000	Marlboro Co SD	General Obligation Bonds	C	SC	SOLE
05/07/19	25.785	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
05/07/19	37.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
05/08/19	18.330	Energy Northwest	Station Electric Rev Ref Bonds	N	WA	CO-MGR
05/08/19	251.575	Energy Northwest	Station Electric Rev & Ref Bonds	N	WA	CO-MGR
05/08/19	19.190	Massachusetts Water Resources Au	General Revenue Ref Bonds	N	MA	CO-MGR
05/08/19	125.000	Massachusetts Water Resources Au	General Revenue Bonds	N	MA	CO-MGR
05/08/19	13.000	Mississippi Development Bank	Special Obligation Bonds	N	MS	SOLE
05/08/19	8.000	Williamson Co (Leander) ISD	School Building Bonds	N	TX	CO-MGR
05/08/19	77.360	Williamson Co (Leander) ISD	School Building Bonds	N	TX	CO-MGR
05/09/19	34.935	Charlotte City-North Carolina	Ref Certificate of Participation	N	NC	LEAD
05/09/19	96.975	Charlotte City-North Carolina	Ref Certificate of Participation	N	NC	LEAD
05/09/19	59.695	Chester Co Hlth & Ed Facs Board	Health System Revenue Bonds	P	PA	SOLE
05/14/19	13.728	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
05/14/19	30.555	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
05/14/19	329.150	Prince Georges Co-Maryland	GO Consolidated Pub Imp Bonds	C	MD	SOLE
05/15/19	726.650	Allegheny Co Hospital Dev Auth	UMPC Revenue Bonds	N	PA	CO-MGR
05/15/19	9.850	Collin Co (Richardson) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
05/15/19	107.110	Collin Co (Richardson) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
05/15/19	18.570	Indiana Finance Authority	St Revolving Fund Program Bonds	C	IN	SOLE
05/15/19	30.000	Santa Clara Co (Fremont) UHSD	General Obligation Bonds	N	CA	CO-MGR
05/15/19	100.280	Santa Clara Co (Fremont) UHSD	General Obligation Bonds	N	CA	CO-MGR
05/15/19	7.355	Texas	GO Wtr Fin Ref Bonds	N	TX	LEAD
05/15/19	21.320	Texas	GO Wtr Fin Ref Bonds	N	TX	LEAD
05/15/19	24.075	Texas	GO Wtr Fin Ref Bonds	N	TX	LEAD
05/15/19	26.060	Texas	GO Wtr Fin Assistance Ref Bonds	N	TX	LEAD
05/15/19	42.600	Texas	GO Wtr Fin Ref Bonds	N	TX	LEAD
05/15/19	79.390	Texas	GO Wtr Fin Assistance Ref Bonds	N	TX	LEAD
05/16/19	40.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
05/17/19	21.190	Albany-Dougherty Inner City Auth	Refunding Revenue Bonds	N	GA	LEAD
05/17/19	76.225	Rock Hill City-South Carolina	Combined Utility System Rev Bonds	N	SC	SOLE
05/21/19	45.440	Hidalgo Co-Texas	Certs of Ob & Ltd Tax Ref Bonds	N	TX	LEAD
05/22/19	44.700	Minneapolis-St Paul Metro Council	GO Transit Bonds	C	MN	SOLE
05/22/19	72.300	Minneapolis-St Paul Metro Council	GO Transit Bonds	C	MN	SOLE
05/22/19	9.045	Oregon	General Obligation Bonds	N	OR	CO-MGR
05/22/19	150.115	Oregon	General Obligation Bonds	N	OR	CO-MGR
05/22/19	350.375	South Carolina Trans Infrs Bank	Revenue Refunding Bonds	N	SC	LEAD
05/23/19	210.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
05/23/19	600.000	North Carolina	Grant Antic Rev Vehicle Bonds	N	NC	CO-MGR
05/23/19	13.120	North Charleston City-South Carolina	Ltd Tax Increment Pledge Bonds	N	SC	SOLE
05/23/19	125.000	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
05/28/19	1.322	Kaufman Co (Forney) ISD	Public Prop Fin Contractual Oblig	P	TX	SOLE
05/28/19	60.360	Lubbock ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
05/29/19	23.620	Arizona Reg Pub Transport Auth	Trans Excise Tax Rev Ref Bonds	N	AZ	SOLE
05/29/19	142.720	Hillsborough Co-Florida	Capital Imp Non-Ad Val Rev Bonds	C	FL	SOLE
05/30/19	74.510	College Station City-Texas	Certificates of Obligation	C	TX	SOLE
05/31/19	2.455	Sanford City-North Carolina	Enterprise Sys Rev & Ref Bonds	N	NC	SOLE
05/31/19	36.140	Sanford City-North Carolina	Enterprise Sys Rev & Ref Bonds	N	NC	SOLE
05/31/19	6.205	Univ of North Carolina Bd of Gov	General Revenue Bonds	N	NC	SOLE
05/31/19	10.435	Univ of North Carolina Bd of Gov	General Revenue Bonds	N	NC	SOLE
06/04/19	78.085	Henrico Co-Virginia	Water and Sewer Revenue Bonds	C	VA	SOLE
06/04/19	63.100	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program	N	TN	CO-MGR
06/04/19	136.900	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program	N	TN	CO-MGR
06/05/19	2.535	Arizona Industrial Dev Auth	Student Housing Rev Bonds	N	AZ	CO-MGR
06/05/19	106.870	Arizona Industrial Dev Auth	Student Housing Revenue Bonds	N	AZ	CO-MGR
06/05/19	170.370	Loudoun Co-Virginia	GO Public Improvement Bonds	C	VA	SOLE
06/05/19	28.990	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
06/05/19	41.685	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
06/05/19	59.300	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
06/05/19	3.735	Tigard-Tualatin SD #23J	GO Refunding Bonds	N	OR	CO-MGR
06/05/19	90.360	Tigard-Tualatin SD #23J	General Obligation Bonds	N	OR	CO-MGR
06/06/19	60.000	Alaska Housing Finance Corp	State Capital Project Bonds II	N	AK	CO-MGR
06/06/19	30.000	Arkansas	Wtr Wst Disp & Poll Abatement	C	AR	SOLE
06/06/19	47.610	High Point City-North Carolina	Combined Enterprise Sys Rev Bonds	N	NC	LEAD
06/06/19	6.560	Loudoun Co Economic Dev Auth	Public Facility Lease Rev Bonds	C	VA	SOLE
06/06/19	163.110	Metro Washington Airports Auth	Dulles Toll Rd 1 Sr Ln Ref Bonds	N	DC	CO-MGR
06/11/19	4.045	Fontana City-California	Special Tax Bonds	N	CA	SOLE
06/12/19	113.355	Chesapeake Hospital Authority	Hospital Facility Revenue Bonds	N	VA	CO-MGR
06/12/19	93.340	Fort Worth City-Texas	Water & Sewer Sys Rev Bonds	C	TX	SOLE
06/12/19	34.011	Gloucester Twp-New Jersey	General Obligation Bonds	C	NJ	SOLE
06/13/19	60.000	Los Angeles Co (Norwalk-La Mirada) USD	General Obligation Bonds	N	CA	SOLE
06/13/19	70.855	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/13/19	130.790	Metro Atlanta Rapid Transit Auth	Sales Tax Revenue Bonds	C	GA	SOLE
06/13/19	45.949	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
06/13/19	130.955	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
06/13/19	175.000	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
06/13/19	359.640	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
06/13/19	43.870	New Mexico Finance Auth (NMFA)	Revolving Fund Rev & Ref Bonds	N	NM	CO-MGR
06/13/19	300.000	North Carolina	Limited Obligation Build NC Bonds	N	NC	CO-MGR
06/13/19	196.805	Wake Co-North Carolina	Limited Obligation Bonds	N	NC	LEAD
06/18/19	73.845	Hidalgo Co Drainage Dt #1	Unlimited Tax Improvement Bonds	N	TX	CO-MGR
06/18/19	8.881	Virginia Resources Auth (VRA)	Clean Wtr St Match Rev Bond	P	VA	SOLE
06/19/19	33.450	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
06/19/19	36.450	Colorado Hsg & Fin Auth (CHFA)	Singel Family Mortgage Bonds	N	CO	CO-MGR
06/19/19	141.070	Georgia	General Obligation Bonds	C	GA	SOLE
06/19/19	320.810	Georgia	General Obligation Bonds	C	GA	SOLE
06/19/19	31.795	Port Freeport-Texas	General Obligation Bonds	N	TX	CO-MGR
06/20/19	6.000	Wright Co-Minnesota	Certificates of Participation	C	MN	SOLE
06/20/19	50.085	Wright Co-Minnesota	Certification of Participation	C	MN	SOLE
06/21/19	29.845	Connecticut	St Revolv Fund Ref Gen Rev Bonds	N	CT	CO-MGR
06/21/19	250.000	Connecticut	St Revolv Fund Gen Rev Bonds	N	CT	CO-MGR
06/25/19	300.000	Illinois State Toll Highway Auth	Toll Highway Senior Revenue Bonds	N	IL	LEAD
06/25/19	70.000	Los Angeles Dept Wtr & Pwr (LADWP)	Wtr Sys Var Rate Demand Rev Bonds	N	CA	SOLE
06/25/19	98.200	Port of Morrow-Oregon	Transmission Facilities Rev Bonds	N	OR	CO-MGR
06/26/19	161.310	Long Beach City-California	Harbor Revenue Bonds	N	CA	CO-MGR
06/26/19	10.160	Louisiana Gov Env Fac & CDA (LCDA)	Revenue Bonds	N	LA	SOLE
06/26/19	11.500	Louisiana Gov Env Fac & CDA (LCDA)	Revenue Bonds	N	LA	SOLE
06/26/19	459.600	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Resol Bonds	N	NY	CO-MGR
06/26/19	20.000	NYS Housing Fin-Mortgage Agcy	Housing Revenue Bonds	P	NY	SOLE
06/26/19	14.700	New Jersey Hsg & Mtg Fin Agency	Multi-Family Conduit Rev Bonds	N	NJ	SOLE
06/26/19	18.000	Newport News Redev & Hsg Auth	Revenue Bonds	P	VA	SOLE
06/27/19	306.985	North Carolina Medical Care Commiss	Health Care facs Rev Bonds	N	NC	CO-MGR
06/28/19	44.655	Florida Govt Util Auth (FGUA)	Utility Refunding Revenue Bonds	N	FL	CO-MGR
07/02/19	150.000	Green Bay Redevelopment Auth	Facility Redev Revenue Bonds	N	WI	SOLE
07/03/19	117.830	Illinois Finance Authority	Revenue Bonds	N	IL	SOLE
07/10/19	129.025	Charleston City-South Carolina	Wtrwrks&Swr Sys Cap Imp Rev Bonds	N	SC	LEAD
07/10/19	93.300	Deschutes Co (Bend-La Pine) ASD #1	General Obligation Bonds	C	OR	SOLE
07/10/19	150.000	Hawaii Dept of Budget & Finance	Special Purpose Revenue Bonds	N	HI	CO-MGR
07/10/19	59.230	Montgomery Co (New Caney) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
07/11/19	81.335	California State Univ Trustees	Systemwide Revenue Bonds	N	CA	CO-MGR
07/11/19	449.430	California State Univ Trustees	Systemwide Revenue Bonds	N	CA	CO-MGR
07/11/19	59.203	Colorado Hsg & Fin Auth (CHFA)	Homeownership Bonds	N	CO	CO-MGR
07/11/19	1.500	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds	N	MI	CO-MGR
07/11/19	30.735	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds	N	MI	CO-MGR
07/11/19	171.750	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds	N	MI	CO-MGR
07/11/19	75.000	NYC Municipal Water Fin Auth	Water & Sewer System Rev Bonds	N	NY	CO-MGR
07/11/19	75.000	NYC Municipal Water Fin Auth	Water & Sewer System Rev Bonds	N	NY	CO-MGR
07/11/19	300.000	NYC Municipal Water Fin Auth	Water & Sewer System Rev Bonds	N	NY	CO-MGR
07/11/19	9.600	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	SOLE
07/11/19	72.770	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	SOLE
07/15/19	40.269	Orange Co-California	Teeter Plan Obligation Notes	P	CA	SOLE
07/16/19	39.110	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
07/16/19	85.765	Massachusetts Dev Finance Agcy	Revenue Bonds	N	MA	LEAD
07/16/19	59.851	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
07/17/19	5.590	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
07/17/19	15.000	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
07/17/19	65.395	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
07/18/19	54.640	Maine Hlth & Hghr Ed Facs Auth	Revenue Bonds	N	ME	LEAD
07/22/19	11.575	Pasadena City-California	Electric Revenue Ref Bonds	C	CA	SOLE
07/23/19	184.500	Florida Dept of Transportation	Right of Way Acquisition & Bridge	C	FL	SOLE
07/23/19	11.220	Montgomery Co Hsg Opportunities Comm	Program Revenue Bonds	N	MD	CO-MGR
07/23/19	32.890	Montgomery Co Hsg Opportunities Comm	Program Revenue Bonds	N	MD	CO-MGR
07/24/19	30.440	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
07/24/19	800.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
07/24/19	26.905	Pennsylvania Hghr Ed Facs Auth	College Revenue Bonds	N	PA	SOLE

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
07/24/19	49.840	Vermont Ed & Hlth Bldgs Fin Agcy	Revenue Refunding Bonds	N	VT	CO-MGR
07/25/19	7.860	Virginia Resources Auth (VRA)	StMoralOblig&InfrastructureBonds	N	VA	LEAD
07/25/19	17.355	Virginia Resources Auth (VRA)	StMoralOblig&InfrastructureBonds	N	VA	LEAD
07/25/19	40.990	Virginia Resources Auth (VRA)	Infrastructure Revenue Bonds	N	VA	LEAD
07/26/19	189.920	Charlotte City-North Carolina	GO Refunding Bonds	N	NC	CO-MGR
07/30/19	104.775	Austin City-Texas	Elc Util Sys Rev Ref & Imp Bonds	N	TX	CO-MGR
07/30/19	169.850	Austin City-Texas	Electric Util Sys Rev Ref Bonds	N	TX	CO-MGR
07/30/19	48.630	San Diego Assoc of Governments	Capital Grant Receipts Rev Bonds	N	CA	LEAD
07/30/19	51.125	San Diego Assoc of Governments	Capital Grant Receipts Rev Bonds	N	CA	LEAD
07/30/19	53.745	San Diego Assoc of Governments	Capital Grant Receipts Rev Bonds	N	CA	LEAD
07/30/19	56.500	San Diego Assoc of Governments	Capital Grant Receipts Rev Bonds	N	CA	LEAD
07/30/19	125.000	San Diego Assoc of Governments	Capital Grant Receipts Rev Bonds	N	CA	LEAD
07/31/19	20.110	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
07/31/19	22.215	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
07/31/19	12.250	Gallatin Airport Authority	Airport Revenue & Refunding Bonds	P	MT	SOLE
08/01/19	.555	Lancaster Industrial Dev Auth	Revenue Bonds	N	PA	SOLE
08/01/19	4.825	Lancaster Industrial Dev Auth	Revenue Bonds	N	PA	SOLE
08/01/19	21.770	Lancaster Industrial Dev Auth	Revenue Bonds	N	PA	SOLE
08/06/19	108.970	Galveston Co (Clear Creek) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
08/06/19	213.585	Pennsylvania Hghr Ed Facs Auth	Refunding Revenue Bonds	N	PA	CO-MGR
08/06/19	341.325	Pennsylvania Turnpike Commission	Turnpike Revenue Bonds	N	PA	CO-MGR
08/13/19	378.140	Chesapeake Bay Bridge & Tunn Dt	1st Tier Gen Resolution Rev BANs	N	VA	CO-MGR
08/13/19	74.862	Colorado Hsg & Fin Auth (CHFA)	Homeownership Class 1 Bonds	N	CO	CO-MGR
08/13/19	81.000	Odessa City-Texas	Combination Tax & Rev Certs of Ob	N	TX	CO-MGR
08/14/19	.765	Arizona Industrial Dev Auth	Lease Revenue Bonds	N	AZ	SOLE
08/14/19	14.555	Arizona Industrial Dev Auth	Lease Revenue Bonds	N	AZ	SOLE
08/15/19	7.415	District of Columbia Hsg Fin Agcy	Multi-Family Housing Rev Bonds	N	DC	SOLE
08/15/19	12.285	District of Columbia Hsg Fin Agcy	Multi-Family TE Mtg Backed Bonds	N	DC	SOLE
08/15/19	39.725	Georgia Priv College & Univ Auth	Revenue Bonds	N	GA	CO-MGR
08/15/19	218.115	Georgia Priv College & Univ Auth	Revenue Bonds	N	GA	CO-MGR
08/15/19	150.000	North Carolina Housing Fin Agcy	Home Ownership Revenue Bonds	N	NC	CO-MGR
08/15/19	99.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	CO-MGR
08/16/19	32.065	Fulton Co Development Authority	Revenue Bonds	N	GA	CO-MGR
08/16/19	131.575	Fulton Co Development Authority	Revenue Bonds	N	GA	CO-MGR
08/16/19	52.005	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
08/16/19	122.920	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
08/19/19	69.970	Jefferson Co (Nederland) ISD	Unltd Tx School Building Bonds	N	TX	LEAD
08/20/19	13.225	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
08/20/19	43.985	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
08/20/19	46.015	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
08/20/19	96.775	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
08/21/19	99.000	Oregon Hsg & Comm Svcs Dept	Mortgage Revenue Bonds	N	OR	CO-MGR
08/21/19	60.775	Petaluma City-California	Wastewater Revenue Ref Bonds	C	CA	SOLE
08/21/19	2.435	Santa Clara Co (Union) ESD	General Obligation Bonds	N	CA	SOLE
08/21/19	11.562	Santa Clara Co (Union) ESD	GO Capital Appreciation Bonds	N	CA	SOLE
08/21/19	125.000	Wisconsin Hsg & Econ Dev Auth	Home Ownership Revenue Bonds	N	WI	LEAD
08/22/19	58.750	Charlotte City-North Carolina	Water & Sewer Revenue Ref Bonds	N	NC	CO-MGR
08/22/19	37.185	Fulton Co Development Authority	Refunding Revenue Bonds	N	GA	CO-MGR
08/22/19	23.305	Houston City-Texas	Public Improvement Ref Bonds	N	TX	CO-MGR
08/22/19	214.625	Houston City-Texas	Public Improvement Ref Bonds	N	TX	CO-MGR
08/22/19	255.385	Houston City-Texas	Public Improvement Ref Bonds	N	TX	CO-MGR
08/22/19	26.775	Minnesota Housing Fin Agency	State Appropriation Bonds	N	MN	CO-MGR
08/22/19	102.035	North Carolina Muni Pwr Agcy #1	Catawba Electric Rev Ref Bonds	N	NC	CO-MGR
08/22/19	84.980	Pennsylvania Hghr Ed Facs Auth	Revenue & Refunding Bonds	C	PA	SOLE
08/26/19	858.435	Massachusetts	GO Refunding Bonds	N	MA	CO-MGR
08/27/19	9.150	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
08/27/19	14.000	Massachusetts Housing Fin Agcy	Single Family Mortgage Rev Bonds	N	MA	CO-MGR
08/27/19	20.290	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
08/28/19	99.350	Contra Costa Comm College Dt	General Obligation Bonds	N	CA	CO-MGR
08/28/19	221.660	Contra Costa Comm College Dt	GO Refunding Bonds	N	CA	CO-MGR
08/28/19	137.135	Delaware Transportation Auth	Transportation Sys Sr Rev Bonds	C	DE	SOLE
08/28/19	127.650	Minneapolis-St Paul Metro Airports Comm	Sub Airport Rev & Ref Bonds	N	MN	CO-MGR
08/28/19	164.320	Minneapolis-St Paul Metro Airports Comm	Sub Airport Rev & Ref Bonds	N	MN	CO-MGR
08/28/19	24.380	Mississippi Med Ctr Ed Bldg Corp	Revenue Bonds	N	MS	CO-MGR
09/04/19	32.330	Faulkner Co (Conway) SD #1	Refunding Bonds	C	AR	SOLE
09/04/19	40.000	Placer Co (Tahoe Truckee) USD	Certificates of Participation	N	CA	SOLE
09/04/19	60.500	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
09/04/19	89.500	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
09/05/19	59.050	Benton Co (Rogers) SD #30	Construction Bonds	C	AR	SOLE
09/05/19	81.735	California	Various Purpose GO Bonds	N	CA	CO-MGR
09/05/19	2,323.585	California	Various Purpose GO & Ref Bonds	N	CA	CO-MGR
09/05/19	61.504	Chicago City BOE	Unltd Tax GO Refunding Bonds	N	IL	CO-MGR
09/05/19	287.575	Chicago City BOE	Unltd Tax GO Refunding Bonds	N	IL	CO-MGR
09/05/19	43.565	Davis SD BOE	GO Refunding Bonds	N	UT	SOLE
09/05/19	54.460	Montana Bd of Regents of Higher Ed	General Revenue Bonds	N	MT	CO-MGR
09/05/19	92.355	Montana Bd of Regents of Higher Ed	General Revenue Bonds	N	MT	CO-MGR
09/06/19	28.485	Fulton Co Development Authority	Refunding Revenue Bonds	N	GA	CO-MGR
09/10/19	72.440	Albany Co-New York	Various Purpose Serial Bonds	C	NY	SOLE
09/10/19	106.530	Anchorage City-Alaska	GO & Refunding Bonds	N	AK	LEAD
09/10/19	65.285	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	CO-MGR
09/10/19	150.000	Univ of Virginia Rector & Visitors	General Revenue Pledge Bonds	N	VA	CO-MGR
09/11/19	24.985	Alaska Housing Finance Corp	General Mortgage Revenue Bonds	N	AK	CO-MGR
09/11/19	136.700	Alaska Housing Finance Corp	General Mortgage Revenue Bonds	N	AK	CO-MGR
09/11/19	20.000	NYS Housing Fin-Mortgage Agcy	Homeowner Mtg Revenue Bonds	N	NY	CO-MGR
09/11/19	66.740	NYS Housing Fin-Mortgage Agcy	Homeowner Mtg Revenue Bonds	N	NY	CO-MGR
09/11/19	125.440	NYS Housing Fin-Mortgage Agcy	Homeowner Mtg Revenue Bonds	N	NY	CO-MGR
09/11/19	10.395	Tarrant Co (Grapevine-Colleyville) ISD	School Building Bonds	N	TX	LEAD
09/11/19	42.950	Tarrant Co (Grapevine-Colleyville) ISD	School Building Bonds	N	TX	LEAD
09/11/19	39.125	West Virginia University Bd of Gov	Refunding Revenue Bonds	N	WV	CO-MGR
09/11/19	85.840	West Virginia University Bd of Gov	Improvement Revenue Bonds	N	WV	LEAD
09/12/19	218.175	Long Island Power Authority	Electric System Gen Rev Bonds	N	NY	CO-MGR
09/12/19	284.250	Long Island Power Authority	Electric System Gen Rev Bonds	N	NY	CO-MGR
09/12/19	164.430	Missouri-Illinois Met Dt Bi-St Dev Agy	Mass Trans Sales Tax App Bonds	N	MO	LEAD
09/12/19	8.460	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
09/12/19	205.885	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
09/16/19	70.445	Columbia City-Missouri	Water & Elctrc Sys Ref Rev Bonds	C	MO	SOLE
09/17/19	126.685	Alaska Indus Dev & Export Auth	Revenue Bonds	N	AK	CO-MGR
09/17/19	5.405	Cleveland City-Ohio	Airport System Revenue Bonds	N	OH	CO-MGR
09/17/19	34.605	Cleveland City-Ohio	Airport System Revenue Bonds	N	OH	CO-MGR
09/17/19	301.665	Cleveland City-Ohio	Airport System Revenue Bonds	N	OH	CO-MGR
09/17/19	56.250	Lowell City-Massachusetts	GO St Qual Muni Purp Loan Bonds	C	MA	SOLE
09/17/19	121.910	South Carolina State Ports Auth	Revenue Bonds	N	SC	CO-MGR
09/17/19	125.000	South Carolina State Ports Auth	Revenue Refunding Bonds	N	SC	CO-MGR
09/17/19	258.420	South Carolina State Ports Auth	Revenue Bonds	N	SC	CO-MGR
09/18/19	138.690	Georgia Housing Finance Authority	Single Family Mortgage Bonds	N	GA	CO-MGR
09/18/19	26.680	Manassas Park-Virginia	GO Refunding Bonds	C	VA	SOLE
09/18/19	41.145	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
09/18/19	53.725	NYS Dorm Authority	Adjustable Rate Revenue Bonds	N	NY	CO-MGR
09/18/19	53.725	NYS Dorm Authority	Adjustable Rate Revenue Bonds	N	NY	CO-MGR
09/18/19	53.730	NYS Dorm Authority	Adjustable Rate Revenue Bonds	N	NY	CO-MGR
09/19/19	67.720	Champaign CUSD #4	GO Alt Rev Source Refunding Bonds	N	IL	CO-MGR
09/19/19	68.590	Florence-South Carolina	Wtrwks & Swr Sys & Cap Imp Bonds	C	SC	SOLE
09/19/19	9.455	St Joseph Co-Indiana	Economic Development Rev Bonds	N	IN	SOLE
09/19/19	16.545	St Joseph Co-Indiana	Economic Development Rev Bonds	N	IN	SOLE
09/19/19	20.545	St Joseph Co-Indiana	Economic Development Rev Bonds	N	IN	SOLE
09/20/19	266.975	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	LEAD

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
09/20/19	445.635	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	LEAD
09/20/19	1,135.370	Greater Orlando Aviation Auth	Airport Facilities Revenue Bonds	N	FL	LEAD
09/23/19	7.700	District of Columbia Hsg Fin Agy	Multi-Family Dev Program Bonds	N	DC	LEAD
09/23/19	17.720	District of Columbia Hsg Fin Agy	Multi-Family Dev Program Bonds	N	DC	LEAD
09/24/19	54.000	Hampton City-Virginia	GO Public Improvement Bonds	C	VA	SOLE
09/24/19	150.000	New Jersey Trans Trust Fund Au	Transportation Program Notes	N	NJ	SOLE
09/24/19	1,000.000	New Jersey Trans Trust Fund Au	Transportation Program Bonds	N	NJ	LEAD
09/24/19	22.985	Texas Water Development Board	St Wtr Implementation Fund Bonds	N	TX	CO-MGR
09/24/19	835.825	Texas Water Development Board	St Wtr Implementation Fund Bonds	N	TX	CO-MGR
09/24/19	50.000	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	C	VA	SOLE
09/25/19	29.385	Connecticut Housing & Fin Auth (CHFA)	Housing Finance Prog Bonds	N	CT	CO-MGR
09/25/19	98.690	Connecticut Housing & Fin Auth (CHFA)	Housing Finance Prog Bonds	N	CT	CO-MGR
09/25/19	80.000	Hawaii Dept of Budget & Finance	Special Purpose Revenue Bonds	N	HI	CO-MGR
09/25/19	90.280	Las Vegas Valley Water Dt	GO Ltd Tx Water Refunding Bonds	C	NV	SOLE
09/25/19	3.390	Univ of Mississippi Ed Bldg Corp	Revenue Refunding Bonds	N	MS	CO-MGR
09/25/19	73.350	Univ of Mississippi Ed Bldg Corp	Revenue Refunding Bonds	N	MS	CO-MGR
09/26/19	14.420	Louisiana Gov Env Fac & CDA (LCDA)	Revenue Bonds	N	LA	SOLE
09/26/19	235.840	Mississippi	General Obligation Bonds	N	MS	LEAD
09/26/19	3.580	Montgomery Co Hsg Opportunities Comm	Multi-Family Housing Dev Bonds	N	MD	LEAD
09/26/19	51.420	Montgomery Co Hsg Opportunities Comm	Multi-Family Housing Dev Bonds	N	MD	LEAD
09/26/19	19.915	North Charleston City-South Carolina	Ltd Oblig Tx Inc Pledge Bonds	N	SC	SOLE
09/26/19	21.705	Suffolk City-Virginia	General Obligation Bonds	N	VA	SOLE
09/26/19	52.335	Suffolk City-Virginia	GO Refunding Bonds	N	VA	SOLE
09/27/19	34.445	Maine State Housing Authority	Mortgage Revenue Bonds	N	ME	CO-MGR
10/01/19	147.495	Trinity River Authority	Revenue Improvemebt & Ref Bonds	N	TX	CO-MGR
10/01/19	2.355	Univ of North Carolina Bd of Gov	General Revenue & Refunding Bonds	N	NC	SOLE
10/01/19	39.040	Univ of North Carolina Bd of Gov	General Revenue & Refunding Bonds	N	NC	SOLE
10/01/19	11.180	Univ of North Carolina-Wilmington	General Revenue Refunding Bonds	N	NC	SOLE
10/02/19	50.000	Indianapolis Loc Pub Imp Bond Bank	Revenue Bonds	N	IN	LEAD
10/02/19	199.505	Massachusetts Dept of Transport	Metropolitan Hway Sys Ref Bond	N	MA	CO-MGR
10/02/19	464.650	Massachusetts Dept of Transport	Metropolitan Hway Sys Ref Bond	N	MA	CO-MGR
10/02/19	49.940	Ohio Higher Ed Fac Commission	Revenue Bonds	N	OH	LEAD
10/02/19	29.895	Trinity River Authority	Revenue Improvement & Ref Bonds	N	TX	LEAD
10/03/19	90.050	Florida Govt Util Auth (FGUA)	Utility Refunding Revenue Bonds	N	FL	CO-MGR
10/03/19	230.880	Harris Co (Spring Branch) ISD	Unlimited Tax Schoolhouse Bonds	N	TX	CO-MGR
10/03/19	215.000	Indiana Finance Authority	State Revolving Fund Prog Bonds	N	IN	CO-MGR
10/03/19	27.490	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
10/03/19	319.580	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
10/03/19	39.800	Portland City-Oregon	2nd Lien Wtr Sys Rev Ref Bonds	N	OR	CO-MGR
10/03/19	112.005	Portland City-Oregon	2nd Lien Wtr Sys Rev Ref Bonds	N	OR	CO-MGR
10/03/19	111.920	So California Pub Pwr Au (SCPPA)	Refunding Revenue Bonds	N	CA	LEAD
10/04/19	340.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
10/04/19	510.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
10/08/19	42.645	Chattanooga City-Tennessee	GO & Refunding Bonds	C	TN	SOLE
10/08/19	68.180	Minneapolis City-Minnesota	Health Care Sys Rev Ref Bonds	N	MN	CO-MGR
10/08/19	175.625	Oregon	General Obligation Bonds	N	OR	CO-MGR
10/08/19	190.865	Oregon	General Obligation Bonds	N	OR	CO-MGR
10/09/19	18.500	Aiken Co CSD	General Obligation Bonds	C	SC	SOLE
10/09/19	15.000	Connecticut Housing & Fin Auth (CHFA)	Hsg Mortgage Finance Prog Bonds	N	CT	CO-MGR
10/09/19	68.735	Connecticut Housing & Fin Auth (CHFA)	Hsg Mortgage Finance Prog Bonds	N	CT	CO-MGR
10/09/19	50.000	Massachusetts Water Resources Au	General Revenue Bonds	N	MA	CO-MGR
10/09/19	547.750	Massachusetts Water Resources Au	General Revenue Bonds	N	MA	CO-MGR
10/09/19	63.175	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
10/09/19	261.825	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
10/09/19	33.615	Wisconsin Public Finance Auth	Revenue Bonds	N	WI	SOLE
10/10/19	123.225	Florida Dept of Transportation	Fed Hway Reimbursement Rev Bonds	C	FL	SOLE
10/10/19	18.640	Nevada System of Higher Ed	Universities Revenue Bonds	C	NV	SOLE
10/10/19	106.100	Sacramento Transportation Auth	Sales Tax Revenue Ref Bonds	N	CA	SOLE

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
10/11/19	29.685	Greensboro City-North Carolina	Limited Obligation Bonds	N	NC	LEAD
10/11/19	49.965	So Regional Joint Development Auth	Refunding Revenue Bonds	N	GA	SOLE
10/15/19	52.565	Beaufort-Jasper Wtr & Swr Auth	Waterworks & Swr Sys Rev Bonds	N	SC	SOLE
10/15/19	18.750	California Housing Finance Agcy	Ltd Oblig Multi Fmly Hsg Rev Note	P	CA	SOLE
10/15/19	36.860	Wake Co-North Carolina	GO Pk Greenways Rec & Space Bonds	C	NC	SOLE
10/16/19	42.575	Albuquerque City-New Mexico	Refunding & Improvement Rev Bonds	N	NM	LEAD
10/16/19	32.995	Central Berkshire RSD	GO State Qualified School Bonds	C	MA	SOLE
10/16/19	300.000	Ohio Water Development Authority	Water Poll Ctr Ln Fund Ref Bonds	N	OH	CO-MGR
10/16/19	28.990	Oregon	General Obligation Bonds	N	OR	CO-MGR
10/16/19	70.960	Semitropic Improvement Dt	Water Banking Rev Ref Bonds	N	CA	SOLE
10/16/19	42.545	St Petersburg City-Florida	Public Utility Ref Revenue Bonds	C	FL	SOLE
10/16/19	322.020	Western Minnesota Municipal Power Agcy	Power Supply Rev Ref Bonds	N	MN	CO-MGR
10/17/19	3.695	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
10/17/19	27.505	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
10/17/19	55.285	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
10/17/19	191.610	Massachusetts Clean Water Trust	State Revolving Fund Bonds	N	MA	CO-MGR
10/17/19	16.875	Montgomery Co (New Caney) ISD	Unltd Tax Refunding Bonds	N	TX	CO-MGR
10/17/19	17.640	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
10/17/19	34.080	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
10/17/19	49.200	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
10/17/19	90.995	Nebraska Public Power Dt	General Revenue Bonds	N	NE	CO-MGR
10/17/19	26.670	Richland Co-South Carolina	Installment Purchase Rev Bonds	N	SC	SOLE
10/17/19	34.610	Virginia Public School Authority	Special Oblig Sch Fin Ref Bonds	N	VA	CO-MGR
10/18/19	15.185	Cape Fear Public Utility Auth	Water & Sewer Sys Rev & Ref Bonds	N	NC	CO-MGR
10/18/19	77.580	Cape Fear Public Utility Auth	Water & Sewer Sys Rev & Ref Bonds	N	NC	CO-MGR
10/21/19	106.478	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	LEAD
10/22/19	92.630	Allegheny Co Industrial Dev Auth	Environmental Imp Rev Ref Bonds	N	PA	CO-MGR
10/22/19	275.000	Hoover Industrial Dev Board	Environmental Imp Rev Bonds	N	AL	CO-MGR
10/22/19	84.980	Kent Hospital Finance Auth	Revenue Refunding Bonds	N	MI	CO-MGR
10/22/19	36.415	Maine Hlth & Hghr Ed Facs Auth	Revenue Bonds	N	ME	CO-MGR
10/23/19	20.060	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
10/23/19	71.940	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
10/23/19	52.960	Montgomery Economic Dev Auth	Revenue Bonds	N	VA	CO-MGR
10/23/19	104.695	Montgomery Economic Dev Auth	Revenue & Refunding Bonds	N	VA	CO-MGR
10/24/19	32.335	Arlington Co-Virginia	GO Refunding Bonds	N	VA	LEAD
10/25/19	137.755	Omaha Public Power Dt (OPPD)	Electric System Rev Bonds	N	NE	CO-MGR
10/29/19	294.905	California Municipal Fin Auth	Special Facility Revenue Bonds	N	CA	CO-MGR
10/30/19	2.625	Fort Bend Co (Katy) ISD	Refunding Bonds	N	TX	LEAD
10/30/19	166.545	Fort Bend Co (Katy) ISD	Refunding Bonds	N	TX	LEAD
10/30/19	418.120	Lehigh Co General Purpose Auth	Hospital Revenue Bonds	N	PA	CO-MGR
10/30/19	32.885	Virginia Resources Auth (VRA)	State Moral Obligation Rev Bonds	C	VA	SOLE
10/31/19	49.035	Mississippi Development Bank	Special Obligation Ref Bonds	N	MS	LEAD
10/31/19	25.815	Mountain Reg Water Spec Svc Dt	Water Revenue Ref Bonds	N	UT	SOLE
11/01/19	55.180	Colorado Health Facilities Auth	Hospital Revenue Ref Bonds	P	CO	SOLE
11/01/19	62.500	Colorado Health Facilities Auth	Hospital Revenue Ref Bonds	P	CO	SOLE
11/01/19	117.680	Colorado Health Facilities Auth	Hospital Revenue Ref Bonds	P	CO	SOLE
11/05/19	140.790	Garland City-Texas	Electric Utility System Rev Ref	N	TX	CO-MGR
11/05/19	103.805	Orange Co-Florida	Sales Tax Revenue Ref Bonds	C	FL	SOLE
11/06/19	715.420	Massachusetts School Bldg Auth	Subor Dedicated Sales Tax Bonds	N	MA	CO-MGR
11/06/19	100.000	Ohio Public Fac Commission	General Obligation Bonds	C	OH	SOLE
11/06/19	297.840	Oregon Dept of Transportation	Hwy User Tax Sub Lien Bonds	N	OR	CO-MGR
11/06/19	323.050	Oregon Dept of Transportation	Highway User Tax Sr Lien Bonds	N	OR	CO-MGR
11/06/19	200.000	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
11/06/19	61.830	Utah Transit Au (UTA)	Sales Tax Revenue Bonds	N	UT	LEAD
11/06/19	247.880	Utah Transit Au (UTA)	Sales Tax Revenue Ref Bonds	N	UT	LEAD
11/07/19	53.445	Indiana Finance Authority	St Revolv Fund Prog Ref Bonds	N	IN	LEAD
11/07/19	5.530	Washington St Hsg Fin Commission	Single-Family Program Bonds	N	WA	CO-MGR
11/07/19	14.390	Washington St Hsg Fin Commission	Single-Family Program Bonds	N	WA	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
11/07/19	18.615	Washington St Hsg Fin Commission	Single-Family Program Bonds	N	WA	CO-MGR
11/08/19	570.940	Central Florida Expressway Au	Senior Lien Revenue Bonds	N	FL	LEAD
11/08/19	252.385	Georgia Muni Electric Au (MEAG)	Subordinated Revenue Bonds	N	GA	LEAD
11/12/19	23.370	Collin Co (Plano) ISD	Unltd Tx Sch Bldg & Ref Bonds	C	TX	SOLE
11/13/19	74.000	California Housing Finance Agcy	Multi-Family Mtg Backed Bonds	N	CA	SOLE
11/13/19	42.350	Maine Hlth & Hghr Ed Facs Auth	Revenue Bonds	N	ME	CO-MGR
11/13/19	90.295	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
11/13/19	151.580	South Carolina State Ports Auth	Revenue Refunding Bonds	N	SC	CO-MGR
11/13/19	705.550	Texas Transportation Commission	St of Texas Hwy Imp GO Ref Bonds	N	TX	CO-MGR
11/13/19	396.315	Washington	Motor Vehicle Fuel Tx GO Ref Bond	N	WA	CO-MGR
11/14/19	369.045	Clark Co-Nevada	Refunding Revenue Bonds	N	NV	LEAD
11/14/19	9.075	Conroe City-Texas	Limited Tax Refunding Bonds	N	TX	LEAD
11/14/19	19.915	Conroe City-Texas	Certificates of Obligation	N	TX	LEAD
11/14/19	23.730	Conroe City-Texas	Certificates of Obligation	N	TX	LEAD
11/14/19	40.000	Gary Building Corporation	Lease Rental Revenue Bonds	N	IN	SOLE
11/14/19	81.835	Hawaii	Highway Revenue Bonds	N	HI	LEAD
11/14/19	53.500	Massachusetts	Federal Highway GANs	N	MA	CO-MGR
11/14/19	200.000	Massachusetts	Commonwealth Tranpo Fund Rev Bond	N	MA	CO-MGR
11/14/19	332.770	Metro Wastewater Reclamation Dt	Sewer Refunding Bonds	N	CO	LEAD
11/14/19	149.995	Univ of North Carolina Bd of Gov	Revenue Bonds	N	NC	CO-MGR
11/15/19	32.575	Florida Gulf Coast Univ Fin Corp	Capital Improvement Ref Rev Bonds	N	FL	LEAD
11/15/19	162.605	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
11/15/19	9.500	Orange Water & Sewer Authority	Water & Sewer Sys Rev Ref Bonds	N	NC	SOLE
11/15/19	16.640	Orange Water & Sewer Authority	Water & Sewer Sys Rev Bonds	N	NC	SOLE
11/15/19	13.800	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
11/15/19	123.235	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
11/15/19	13.300	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	CO-MGR
11/15/19	24.360	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	CO-MGR
11/15/19	45.475	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	CO-MGR
11/15/19	57.195	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	CO-MGR
11/19/19	500.000	California Health Facs Fin Auth	Senior Revenue Bonds	N	CA	CO-MGR
11/19/19	37.400	Memorial City Redev Auth	Tax Inc Contract Rev & Ref Bonds	N	TX	LEAD
11/19/19	25.445	Nevada	GO Wtr Poll Ctrl Revolv Lev Bonds	C	NV	SOLE
11/19/19	2.620	Salt Lake City-Utah	Sales & Excise Tx Rev Ref Bonds	N	UT	SOLE
11/19/19	58.540	Salt Lake City-Utah	Sales & Excise Tx Rev Ref Bonds	N	UT	SOLE
11/19/19	401.360	Williamson Co (Round Rock) ISD	Unltd Tax School Bldg Ref Bonds	N	TX	CO-MGR
11/19/19	140.790	Wisconsin Hlth & Ed Fac Auth (WHEFA)	Revenue Bonds	N	WI	CO-MGR
11/20/19	165.805	Colorado	Certificates of Participation	N	CO	CO-MGR
11/20/19	65.000	Colorado Hsg & Fin Auth (CHFA)	Homeownership Class 1 Bonds	N	CO	CO-MGR
11/20/19	18.765	Fairfax Co Water Authority	Water Refunding Revenue Bonds	N	VA	LEAD
11/20/19	91.230	Fairfax Co Water Authority	Water Refunding Revenue Bonds	N	VA	LEAD
11/20/19	39.205	Idaho State Building Authority	St Building Refunding Rev Bonds	N	ID	SOLE
11/20/19	32.000	Lakeland City-Florida	Revenue Note	P	FL	SOLE
11/20/19	1.280	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
11/20/19	13.860	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
11/20/19	92.920	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
11/20/19	98.120	Midland Co Fresh Wtr Supply Dt #1	Revenue Refunding Bonds	N	TX	LEAD
11/20/19	7.565	Montgomery Co Hsg Opportunities Comm	Multi-Family Housing Rev Bonds	N	MD	CO-MGR
11/20/19	9.840	Montgomery Co Hsg Opportunities Comm	Multi-Family Housing Rev Bonds	N	MD	CO-MGR
11/20/19	261.165	Troy Capital Resource Corporation	Revenue Refunding Bonds	N	NY	CO-MGR
11/20/19	200.000	University of Pittsburgh	Pitt Asset Notes	N	PA	CO-MGR
11/20/19	400.000	University of Pittsburgh	University Bonds	N	PA	CO-MGR
11/21/19	115.979	North Carolina Turnpike Authority	Revenue Bonds	N	NC	CO-MGR
11/21/19	370.975	North Carolina Turnpike Authority	Senior Lien Revenue Bonds	N	NC	CO-MGR
11/21/19	86.145	University of Cincinnati	General Receipts Bonds	N	OH	LEAD
11/21/19	234.215	University of Cincinnati	General Receipts Bonds	N	OH	LEAD
11/26/19	5.785	Henry Co Industrial Dev Auth	Public Facility Lease Rev Bonds	N	VA	LEAD
11/26/19	19.515	Henry Co Industrial Dev Auth	Grant RANs	N	VA	LEAD

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
12/03/19	21.170	Will Co Forest Preserve Dt	GO Limited Tax Bonds	N	IL	SOLE
12/04/19	14.970	Delano Earlimart Irrigation Dt	Refunding Revenue Bonds	N	CA	SOLE
12/04/19	16.905	Denton Co (Little Elm) ISD	School Building Bonds	N	TX	LEAD
12/04/19	18.485	Denton Co (Little Elm) ISD	Refunding Bonds	N	TX	LEAD
12/04/19	49.500	Denton Co (Little Elm) ISD	Refunding Bonds	N	TX	LEAD
12/04/19	37.710	Lexington Ind Dev Auth	Educational Facs Rev Ref Bonds	N	VA	LEAD
12/04/19	5.995	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
12/04/19	438.120	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
12/04/19	619.775	New Jersey Trans Trust Fund Au	Transporation System Bonds	N	NJ	CO-MGR
12/04/19	946.335	New Jersey Trans Trust Fund Au	Transporation System Bonds	N	NJ	CO-MGR
12/04/19	180.010	Ohio	Major New St Infra Proj Rev Bonds	N	OH	CO-MGR
12/04/19	29.480	Port Freeport-Texas	Sr Lien Revenue Bonds	N	TX	CO-MGR
12/04/19	45.200	Port Freeport-Texas	Sr Lien Revenue Bonds	N	TX	CO-MGR
12/05/19	414.345	Hampton Roads Trans Acc Com (HRTAC)	Intermediate Lien BANs	N	VA	CO-MGR
12/05/19	72.355	Louisiana St Univ & Agri & Mech Coll	Auxiliary Revenue Ref Bonds	N	LA	CO-MGR
12/05/19	637.665	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Reso Bonds	N	NY	CO-MGR
12/05/19	19.390	Patriots Energy Group	Gas System Imp & Ref Rev Bonds	N	SC	SOLE
12/05/19	442.620	San Diego Co Reg Trans Comm	Sales Tax Revenue Bonds	N	CA	CO-MGR
12/05/19	52.440	Upper Occoquan Sewerage Auth	Regional Sewerage Sys Rev Bonds	C	VA	SOLE
12/06/19	22.130	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	SOLE
12/06/19	71.330	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
12/06/19	243.170	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
12/11/19	68.480	Alaska Indus Dev & Export Auth	Refunding Revenue Bonds	N	AK	LEAD
12/11/19	48.324	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
12/11/19	150.000	North Carolina Housing Fin Agcy	Home Ownership Revenue Bonds	N	NC	CO-MGR
12/11/19	66.265	Vauxmont Metropolitan Dt	Sub Ltd Tx GO & Spec Rev Ref Bond	N	CO	SOLE
12/11/19	66.355	Vauxmont Metropolitan Dt	Sr Ltd Tx GO & Spec Rev Ref Bond	N	CO	SOLE
12/12/19	12.400	Erie Commons Metro Dt #2	Sub GO Limited Tax Bonds	N	CO	SOLE
12/12/19	20.250	Erie Commons Metro Dt #2	Senior GO Limited Tax Bonds	N	CO	SOLE
12/12/19	7.770	Greenwood City-South Carolina	Comb Pub Util Sys Rev Ref Bonds	N	SC	SOLE
12/12/19	122.915	Illinois Finance Authority	Revenue Refunding Bonds	N	IL	SOLE
12/12/19	4.495	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
12/12/19	73.710	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
12/12/19	72.165	Metro Washington Airports Auth	Airport Sys Revenue Ref Bonds	N	DC	LEAD
12/12/19	283.385	Metro Washington Airports Auth	Airport Sys Revenue Ref Bonds	N	DC	LEAD
12/13/19	340.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
12/13/19	510.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
12/17/19	50.265	Ctl Texas Reg Mobility Au (CTRMA)	Sr Lien Revenue Bonds	N	TX	CO-MGR
12/17/19	170.995	Maine Governmental Facs Auth (MGFA)	Lease Rental Revenue Bonds	N	ME	CO-MGR
12/17/19	34.350	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
12/17/19	15.070	New Jersey Hsg & Mtg Fin Agency	Multi-Family Conduit Rev Bonds	N	NJ	SOLE
12/17/19	37.480	New Jersey Hsg & Mtg Fin Agency	Multi-Family Conduit Rev Bonds	N	NJ	SOLE
12/18/19	34.205	Arizona Board of Regents	Revenue Refunding Bonds	N	AZ	CO-MGR
12/18/19	78.520	Arizona Board of Regents	Revenue Refunding Bonds	N	AZ	CO-MGR
12/18/19	39.460	NYS Dorm Authority	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
12/18/19	1,391.585	NYS Dorm Authority	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
12/18/19	1,973.575	NYS Dorm Authority	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
01/07/20	197.075	El Paso ISD	Unltd Tx School Building Bonds	N	TX	CO-MGR
01/08/20	118.030	Philadelphia City-Pennsylvania	GO Refunding Bonds	N	PA	LEAD
01/08/20	279.465	Tarrant Co (Keller) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
01/09/20	510.275	Arizona Transportation Board	Highway Revenue Refunding Bonds	N	AZ	CO-MGR
01/09/20	50.000	Ohio	Hospital Revenue Bonds	N	OH	CO-MGR
01/09/20	290.400	Ohio	Hospital Revenue Bonds	N	OH	CO-MGR
01/15/20	14.518	Champaign CUSD #4	GO School Building Bonds	N	IL	CO-MGR
01/15/20	65.860	Champaign CUSD #4	GO School Building & Ref Bonds	N	IL	CO-MGR
01/15/20	134.580	San Antonio City-Texas	Electric & Gas Sys Rev Ref Bonds	N	TX	CO-MGR
01/16/20	4.975	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
01/16/20	34.810	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
01/16/20	50.025	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
01/16/20	33.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	SOLE
01/16/20	66.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	LEAD
01/16/20	60.970	Southwestern Illinois Dev Auth	Local Government Prog Rev Bonds	N	IL	CO-MGR
01/20/20	20.800	Florida Housing Finance Corp	Multi-Family Mortgage Rev Notes	P	FL	SOLE
01/22/20	136.665	Harris Co (Humble) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
01/22/20	76.020	Massachusetts Dev Finance Agcy	Revenue Bonds	N	MA	CO-MGR
01/22/20	228.865	Massachusetts Dev Finance Agcy	Revenue Bonds	N	MA	CO-MGR
01/23/20	36.345	Arizona Board of Regents	Speed Revenue Refunding Bonds	N	AZ	LEAD
01/23/20	39.805	Arizona Board of Regents	Speed Revenue Refunding Bonds	N	AZ	LEAD
01/23/20	53.685	Bowling Green State University	General Receipts Bonds	N	OH	LEAD
01/23/20	20.850	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
01/23/20	60.000	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
01/23/20	149.150	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
01/23/20	125.000	Oklahoma Dev Finance Auth	Limited Obligation Revenue Bonds	N	OK	SOLE
01/24/20	65.490	Ramsey Co (St Paul) ISD #625	Certificates of Participation	C	MN	SOLE
01/27/20	3.355	Clarksville City-Arkansas	Refunding Revenue Bonds	P	AR	SOLE
01/28/20	120.814	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	CO-MGR
01/28/20	623.320	Wisconsin	Gen Fund Annual Appro Ref Bonds	N	WI	CO-MGR
01/29/20	19.325	San Diego Co Reg Trans Comm	Sales Tax Revenue Ltd Tax Bonds	N	CA	CO-MGR
01/29/20	55.495	San Diego Co Reg Trans Comm	Sales Tax Revenue Ltd Tax Bonds	N	CA	CO-MGR
01/30/20	26.103	Carver Co (Watertown-Mayer) ISD #111	GO School Bldg Bonds	C	MN	SOLE
01/30/20	12.500	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Program Bonds	N	CT	CO-MGR
01/30/20	29.955	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Program Bonds	N	CT	CO-MGR
01/30/20	71.645	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Program Bonds	N	CT	CO-MGR
01/31/20	199.725	North Carolina Medical Care Commiss	Health Care Facs Rev Bonds	N	NC	CO-MGR
02/03/20	17.695	Worcester City-Massachusetts	GO Ballpark Project Bonds	C	MA	SOLE
02/04/20	32.445	Anaheim Hsg & Pub Imp Auth	Water System Revenue Ref Bonds	N	CA	SOLE
02/04/20	38.000	Anaheim Hsg & Pub Imp Auth	Revenue Bonds	N	CA	SOLE
02/04/20	41.985	Benton Co (Siloam Spring) SD #21	Refunding Bonds	C	AR	SOLE
02/04/20	9.250	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
02/04/20	130.750	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
02/04/20	80.495	Pennsylvania State University	Revenue Bonds	N	PA	CO-MGR
02/04/20	331.040	Pennsylvania State University	Revenue Bonds	N	PA	CO-MGR
02/05/20	70.365	Bryan City-Texas	Comb Tax & Rev Certs of Oblig	C	TX	SOLE
02/05/20	243.405	California State Univ Trustees	Systemwide Revenue Bonds	N	CA	CO-MGR
02/05/20	586.020	California State Univ Trustees	Systemwide Revenue Bonds	N	CA	CO-MGR
02/05/20	22.240	Las Vegas Valley Water Dt	GO Water Refunding Bonds	C	NV	SOLE
02/05/20	78.620	NYC Housing Dev Corp	Housing Impact Bonds	N	NY	CO-MGR
02/05/20	296.380	NYC Housing Dev Corp	Housing Impact Bonds	N	NY	CO-MGR
02/06/20	12.755	Greensboro City-North Carolina	Limited Obligations Bonds	N	NC	LEAD
02/06/20	47.040	NYC Municipal Water Fin Auth	Water & Sewer System Rev Bonds	N	NY	CO-MGR
02/06/20	481.250	NYC Municipal Water Fin Auth	Water & Sewer System Rev Bonds	N	NY	CO-MGR
02/06/20	31.645	Richland Co-South Carolina	Utility System Revenue Bond	N	SC	SOLE
02/06/20	273.790	Tarrant Co (Arlington) ISD	Unltd Tx Sch Building & Ref Bonds	N	TX	CO-MGR
02/11/20	31.555	Connecticut Hlth & Ed Facs Auth	Revenue Bonds	N	CT	CO-MGR
02/11/20	220.415	Grand Parkway Transport Corp	1st Tier Toll Revenue Ref Bonds	N	TX	CO-MGR
02/11/20	793.385	Grand Parkway Transport Corp	1st Tier Toll Revenue Ref Bonds	N	TX	CO-MGR
02/11/20	1,293.260	Grand Parkway Transport Corp	Sub Tier Toll Revenue Ref Bonds	N	TX	CO-MGR
02/11/20	21.155	Midland City-Texas	Tax & Ltd Pledge Rev Certs of Ob	N	TX	CO-MGR
02/11/20	21.560	Midland City-Texas	General Obligation Bonds	N	TX	CO-MGR
02/11/20	38.175	Roanoke Economic Dev Authority	Hospital Revenue Bonds	N	VA	CO-MGR
02/11/20	250.345	Roanoke Economic Dev Authority	Hospital Revenue Bonds	N	VA	CO-MGR
02/11/20	448.430	Utah	General Obligation Bonds	N	UT	LEAD
02/12/20	45.800	Roanoke Economic Dev Authority	Hospital Revenue Ref Bonds	N	VA	SOLE
02/12/20	608.080	Washington	Various Purpose GO Bonds	C	WA	SOLE
02/13/20	69.820	Cleveland City-Ohio	Sub Lien Income Tax Ref Bonds	N	OH	LEAD
02/13/20	1,081.385	New York City-New York	General Obligation Bonds	N	NY	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bld	State	Role
02/13/20	109.140	Oakland City-California	GO & Refunding Bonds	C	CA	SOLE
02/18/20	76.525	Kansas Development Fin Auth	Refunding Revenue Bonds	C	KS	SOLE
02/18/20	58.610	Shelby Co-Tennessee	GO Refunding Bonds	P	TN	SOLE
02/18/20	13.095	Wisconsin Hlth & Ed Fac Auth (WHEFA)	Health Care Facilities Rev Bonds	P	WI	SOLE
02/19/20	15.560	Huntersville Town-North Carolina	General Obligation Bonds	C	NC	SOLE
02/19/20	62.320	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	LEAD
02/19/20	174.315	New Jersey Educational Facs Au	Revenue Bonds	N	NJ	CO-MGR
02/19/20	35.295	Pima Co-Arizona	Sewer System Revenue Obligations	N	AZ	LEAD
02/20/20	35.560	Auburn University	General Revenue Refunding Bonds	N	AL	LEAD
02/20/20	104.770	Auburn University	General Revenue Refunding Bonds	N	AL	LEAD
02/20/20	100.000	California Infrstr & Eco Dev Bank	Revenue Bonds	N	CA	SOLE
02/25/20	100.000	Tennessee Hsg Dev Agcy (THDA)	Residential Fin Program Bonds	N	TN	CO-MGR
02/25/20	100.000	Tennessee Hsg Dev Agcy (THDA)	Residential Fin Program Bonds	N	TN	CO-MGR
02/25/20	44.015	University of Idaho Regents	General Revenue & Ref Bonds	N	ID	SOLE
02/26/20	424.480	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
02/26/20	377.785	West Virginia University Bd of Gov	Refunding Revenue Bonds	N	WV	CO-MGR
02/27/20	46.685	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
02/27/20	100.630	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
02/27/20	300.000	Regents of the Univ of California	Medical Center Pooled Rev Bonds	N	CA	CO-MGR
02/27/20	650.000	Regents of the Univ of California	Medical Center Pooled Rev Bonds	N	CA	CO-MGR
02/27/20	850.000	Regents of the Univ of California	Medical Center Pooled Rev Bonds	N	CA	CO-MGR
02/28/20	16.755	Greensboro City-North Carolina	GO Refunding Bonds	N	NC	LEAD
02/28/20	27.035	Greensboro City-North Carolina	GO Refunding Bonds	N	NC	LEAD
02/28/20	50.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
02/28/20	17.525	Sullivans Island Town Pub Facs Corp	Installment Purchase Rev Bonds	N	SC	SOLE
03/03/20	105.005	Ellis Co (Midlothian) ISD	Unltd Tx School Building Bonds	N	TX	LEAD
03/03/20	37.275	Norfolk City-Virginia	GO Capital Improvement Bonds	N	VA	CO-MGR
03/03/20	45.630	Norfolk City-Virginia	GO Refunding Bonds	N	VA	CO-MGR
03/04/20	50.000	Maryland	GO State & Loc Facs Loan Bonds	C	MD	SOLE
03/04/20	126.435	Northern Illinois Univ Brd of Rgt	Auxiliary Facs Sys Ref Rev Bonds	N	IL	LEAD
03/04/20	82.360	Oklahoma Cap Imp Authority	St Hways Cap Imp Rev Ref Bonds	N	OK	CO-MGR
03/04/20	216.650	Utah Transit Au (UTA)	Sales Tax Revenue Ref Bonds	N	UT	LEAD
03/05/20	47.640	Georgia Higher Ed Facs Auth	Refunding Revenue Bonds	N	GA	LEAD
03/05/20	98.620	Louisiana	GO Refunding Bonds	C	LA	SOLE
03/05/20	800.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
03/06/20	125.000	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
03/06/20	39.425	Winston-Salem City-North Carolina	Water & Sewer Sys Rev & Ref Bonds	N	NC	CO-MGR
03/06/20	153.000	Winston-Salem City-North Carolina	Water & Sewer Sys Rev Ref Bonds	N	NC	CO-MGR
03/09/20	3.735	Illinois Finance Authority	Revenue Bonds	P	IL	SOLE
03/10/20	2,095.650	California	Various Purp GO & Ref Bonds	N	CA	CO-MGR
03/10/20	43.964	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
03/11/20	55.000	Colorado Hsg & Fin Auth (CHFA)	Homeownership Class I Bonds	N	CO	CO-MGR
03/11/20	164.555	Illinois Finance Authority	Revenue Bonds	N	IL	CO-MGR
03/11/20	52.735	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
03/11/20	399.315	NYC Municipal Water Fin Auth	Wtr&Swr Sys 2nd Gen Res Rev Bond	N	NY	CO-MGR
03/11/20	233.000	NYS Dorm Authority	Revenue Refunding Bonds	N	NY	CO-MGR
03/12/20	22.040	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
03/12/20	17.070	San Diego Co (Escondido) USD	General Obligation Bonds	N	CA	SOLE
03/26/20	56.495	Buncombe Co-North Carolina	Limited Obligation Bonds	N	NC	CO-MGR
03/26/20	450.000	Missouri Hlth & Ed Facs Authority	Educational Facilities Rev Bonds	N	MO	LEAD
03/26/20	393.130	Phoenix City Civic Imp Corp	Jr Lien Water System Rev Bonds	N	AZ	CO-MGR
03/30/20	93.370	Anoka Co (Anoka-Hennepin) ISD #11	GO School Building Bonds	C	MN	SOLE
04/01/20	38.000	Berkeley City-California	General Obligation Bonds	C	CA	SOLE
04/01/20	32.235	Buncombe Co-North Carolina	Limited Obligation Bonds	N	NC	CO-MGR
04/02/20	200.000	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
04/06/20	32.305	New Mexico Finance Auth (NMFA)	Revolving Fund Rev & Ref Bonds	N	NM	CO-MGR
04/07/20	135.445	Richmond City-Virginia	Public Utility Revenue Bonds	N	VA	LEAD
04/07/20	180.000	Richmond City-Virginia	Public Utility Revenue Ref Bonds	N	VA	LEAD

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
04/08/20	242.590	Allen Co-Ohio	Hospital Facilities Revenue Bonds	N	OH	LEAD
04/08/20	87.380	South Carolina Jobs Econ Dev Au	Hospital Facilities Revenue Bonds	N	SC	LEAD
04/08/20	234.855	South Carolina Jobs Econ Dev Au	Hospital Facilities Revenue Bonds	N	SC	LEAD
04/08/20	206.450	Virginia Small Business Fin Auth	Health Facilities Revenue Bonds	N	VA	LEAD
04/09/20	45.960	Marshall University	Improvement & Ref Rev Bonds	N	WV	SOLE
04/09/20	56.035	Marshall University	Improvement & Refunding Bonds	N	WV	SOLE
04/09/20	100.295	Virginia Public Building Auth	Public Facilities Rev Bonds	N	VA	LEAD
04/09/20	408.950	Virginia Public Building Auth	Public Facilities Rev Ref Bonds	N	VA	LEAD
04/13/20	338.480	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Revenue Bonds	N	CA	CO-MGR
04/14/20	30.000	Arizona Board of Regents	System Revenue Bonds	N	AZ	LEAD
04/14/20	154.455	Arizona Board of Regents	System Revenue Bonds	N	AZ	LEAD
04/14/20	13.500	Inlivan	Multi-Family Mtg-Backed Bonds	N	NC	SOLE
04/14/20	346.680	Massachusetts Dev Finance Agcy	Revenue Bonds	N	MA	LEAD
04/14/20	150.659	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	LEAD
04/14/20	63.675	Wake Co-North Carolina	GO Refunding Bonds	N	NC	LEAD
04/15/20	45.397	Colorado Hsg & Fin Auth (CHFA)	Homeownership Class I Bonds	N	CO	CO-MGR
04/16/20	1,439.115	California	Various Purpose GO & Ref Bonds	N	CA	CO-MGR
04/16/20	11.900	California Housing Finance Agcy	Multi-Family Hsg Rev Sub Bonds	P	CA	SOLE
04/16/20	10.375	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Housing Rev Bonds	N	CO	LEAD
04/16/20	29.000	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Housing Rev Bonds	N	CO	LEAD
04/16/20	195.000	Lancaster Co (Lincoln) PSD #1	GO School Bonds	C	NE	SOLE
04/16/20	38.955	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
04/17/20	113.280	California St Public Works Board	Lease Revenue & Ref Bonds	N	CA	LEAD
04/17/20	100.000	Wisconsin Hsg & Econ Dev Auth	Home Ownership Revenue Bonds	N	WI	CO-MGR
04/20/20	108.355	Harris Co (Tomball) ISD	School Building Bonds	N	TX	CO-MGR
04/21/20	190.955	Maryland Hlth & Hghr Ed Facs Au	Revenue Bonds	N	MD	CO-MGR
04/21/20	258.630	Pennsylvania Econ Dev Fin Auth	Revenue Bonds	N	PA	CO-MGR
04/22/20	83.740	Randall Co (Canyon) ISD	School Building Bonds	N	TX	CO-MGR
04/22/20	188.690	Washington	MVFT GO Refunding Bonds	N	WA	LEAD
04/22/20	222.045	Washington	Various Purpose GO Ref Bonds	N	WA	LEAD
04/23/20	24.150	Tulsa Public Facilities Auth	Capital Improvements Rev Bonds	C	OK	SOLE
04/23/20	9.600	Wyndham Hill Metro Dt # 2	Subordinate GO Limited Tax Bonds	N	CO	SOLE
04/23/20	20.070	Wyndham Hill Metro Dt # 2	Senior GO Limited Tax Bonds	N	CO	SOLE
04/27/20	43.439	Orange Co-California	Teether Plan Obligation Notes	P	CA	SOLE
04/27/20	165.780	Washoe Co SD	GO Limited Tax School Imp Bonds	N	NV	CO-MGR
04/29/20	114.020	NYS Power Authority	Revenue Bonds	N	NY	CO-MGR
04/29/20	328.990	NYS Power Authority	Revenue Bonds	N	NY	CO-MGR
04/29/20	791.620	NYS Power Authority	Revenue Bonds	N	NY	CO-MGR
04/30/20	139.150	Georgia Housing Finance Authority	Single Family Mortgage Bonds	N	GA	CO-MGR
04/30/20	85.580	Great Lakes Water Auth (GLWA)	Wtr Supp Sys Sr & 2nd Ln Bonds	N	MI	CO-MGR
04/30/20	377.515	Great Lakes Water Auth (GLWA)	Water Supply Sys Rev Sr Ln Bonds	N	MI	CO-MGR
05/01/20	77.840	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
05/05/20	61.885	Pennsylvania State University	Revenue Bonds	N	PA	CO-MGR
05/05/20	1,065.165	Pennsylvania State University	Revenue Bonds	N	PA	CO-MGR
05/06/20	108.500	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
05/07/20	120.000	North Carolina Housing Fin Agcy	Home Ownership Revenue Bonds	N	NC	CO-MGR
05/11/20	2.234	El Paso Co (Socorro) ISD	Refunding Bonds	N	TX	CO-MGR
05/11/20	92.155	El Paso Co (Socorro) ISD	Refunding Bonds	N	TX	CO-MGR
05/12/20	7.370	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
05/12/20	34.395	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
05/13/20	42.145	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
05/13/20	18.000	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
05/13/20	37.979	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
05/13/20	274.310	So California Pub Pwr Au (SCPPA)	Refunding Revenue Bonds	N	CA	CO-MGR
05/13/20	10.000	Texas Dept of Hsg & Comm Affairs	Multi-family Green Bonds	N	TX	SOLE
05/14/20	15.225	Energy Northwest	Electric Revenue & Ref Bonds	N	WA	CO-MGR
05/14/20	341.320	Energy Northwest	Electric Revenue & Ref Bonds	N	WA	CO-MGR
05/14/20	340.000	NYC Transitional Finance Auth	Future Tax Secured Subor Bonds	N	NY	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
05/14/20	510.000	NYC Transitional Finance Auth	Future Tax Secured Subor Bonds	N	NY	CO-MGR
05/14/20	447.315	Utah	General Obligation Bonds	N	UT	CO-MGR
05/14/20	230.450	Wisconsin Public Finance Auth	Revenue Refunding Bonds	P	WI	SOLE
05/15/20	25.710	Indiana Finance Authority	Educational Facilities Rev Bonds	N	IN	SOLE
05/15/20	457.160	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
05/20/20	3.950	Chicago Park Dt	Limited Tax Refunding Bonds	N	IL	CO-MGR
05/20/20	9.585	Chicago Park Dt	Unlimited Tax Park Bonds	N	IL	CO-MGR
05/20/20	30.225	Chicago Park Dt	Unlimited Tax Park Bonds	N	IL	CO-MGR
05/20/20	38.620	Chicago Park Dt	Limited Tax Park Bonds	N	IL	CO-MGR
05/20/20	40.160	Chicago Park Dt	Limited Tax Refunding Bonds	N	IL	CO-MGR
05/20/20	850.000	Connecticut	Special Tax Obligation Bonds	N	CT	CO-MGR
05/20/20	425.000	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
05/27/20	27.975	Cedar Rapids City-Iowa	General Obligation Bonds	C	IA	SOLE
05/27/20	500.000	Colorado	Certificates of Participation	N	CO	CO-MGR
05/27/20	14.465	Dorchester Co-South Carolina	Limited Obligation Bonds	N	SC	SOLE
05/27/20	72.220	Prince William Co-Virginia	GO Public Improvement Ref Bonds	N	VA	LEAD
05/27/20	50.590	Salem City-Virginia	GO Public Improvement & Ref Bonds	C	VA	SOLE
05/28/20	99.370	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
05/28/20	159.460	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
05/28/20	58.400	NYS Housing Fin-Mortgage Agcy	Housing Revenue Bonds	P	NY	SOLE
05/28/20	316.000	NYS Housing Fin-Mortgage Agcy	Housing Revenue Bonds	P	NY	SOLE
05/28/20	47.905	Oregon Hsg & Comm Svcs Dept	Mortgage Revenue Bonds	N	OR	CO-MGR
05/28/20	30.000	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	SOLE
05/28/20	117.965	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	LEAD
05/28/20	42.485	Univ of North Carolina Bd of Gov	General Revenue Bonds	N	NC	SOLE
05/28/20	60.265	Virginia Public School Authority	Sch Technology & Security Notes	C	VA	SOLE
06/01/20	20.000	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Housing Rev Note	P	CO	SOLE
06/02/20	81.445	Wisconsin Center Dt	Sr & Jr Dedicated Tax Rev Bonds	N	WI	CO-MGR
06/03/20	78.435	Del Mar College Dt	Limited Tax Bonds	N	TX	LEAD
06/03/20	35.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
06/03/20	40.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
06/03/20	45.385	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds	N	MA	CO-MGR
06/03/20	164.245	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds	N	MA	CO-MGR
06/03/20	174.835	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds	N	MA	CO-MGR
06/03/20	35.000	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds	N	NY	CO-MGR
06/03/20	65.000	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds	N	NY	CO-MGR
06/03/20	608.005	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds	N	NY	CO-MGR
06/03/20	75.620	St Clair Co (East China) SD	GO Unltd Tx Sch Bldg & Site Bonds	C	MI	SOLE
06/03/20	545.000	Washington Metro Area Transit Au	Dedicated Revenue Bonds	N	DC	CO-MGR
06/04/20	82.555	Albuquerque City-New Mexico	Gross Receipts & Lodgers Tax	N	NM	CO-MGR
06/04/20	687.455	Great Lakes Water Auth (GLWA)	Sewage Disposal Sys Sr & 2nd Bonds	N	MI	CO-MGR
06/04/20	204.255	Los Angeles Dept Wtr & Pwr (LADWP)	Water System Revenue Bonds	N	CA	LEAD
06/04/20	168.775	Miami-Dade Co-Florida	GO Refunding Bonds	C	FL	SOLE
06/04/20	100.000	Michigan St Hsg Dev Au (MSHDA)	Single-Family Mortgage Rev Bonds	N	MI	CO-MGR
06/04/20	127.045	Michigan St Hsg Dev Au (MSHDA)	Single-Family Mortgage Rev Bonds	N	MI	CO-MGR
06/04/20	33.935	Raleigh City-North Carolina	Limited Obligation Bonds	N	NC	LEAD
06/04/20	59.620	Raleigh City-North Carolina	Limited Obligation Bonds	N	NC	LEAD
06/04/20	225.365	San Luis Unit/Westlands Wtr Dt Fin Au	Revenue & Subordinate Bonds	N	CA	CO-MGR
06/05/20	10.500	South Adams Co Wtr & Sanit Dt	Water & Wastewater Rev Notes	P	CO	SOLE
06/09/20	62.645	Maryland Hlth & Hghr Ed Facs Au	Revenue Bonds	N	MD	CO-MGR
06/09/20	19.300	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
06/09/20	130.700	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
06/09/20	4.530	Muscle Shoals Solid Waste Disposal Auth	Solid Waste Disposal Rev Bonds	N	AL	LEAD
06/09/20	14.100	Muscle Shoals Solid Waste Disposal Auth	Solid Waste Disposal Rev Bonds	N	AL	LEAD
06/09/20	5.440	Oregon	General Obligation Bonds	N	OR	CO-MGR
06/09/20	32.540	Oregon	General Obligation Bonds	N	OR	CO-MGR
06/09/20	47.015	Oregon	General Obligation Bonds	N	OR	CO-MGR
06/09/20	84.715	Oregon	General Obligation Bonds	N	OR	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
06/09/20	95.390	Oregon	General Obligation Bonds	N	OR	CO-MGR
06/09/20	134.930	Oregon	General Obligation Bonds	N	OR	CO-MGR
06/09/20	35.000	Regents of the University of Michigan	General Revenue Bonds	N	MI	CO-MGR
06/09/20	65.000	Regents of the University of Michigan	General Revenue Bonds	N	MI	CO-MGR
06/09/20	100.000	Regents of the University of Michigan	General Revenue Bonds	N	MI	CO-MGR
06/09/20	138.430	Regents of the University of Michigan	General Revenue Bonds	N	MI	CO-MGR
06/09/20	300.000	Regents of the University of Michigan	General Revenue Bonds	N	MI	CO-MGR
06/09/20	350.025	Regents of the University of Michigan	General Revenue Bonds	N	MI	CO-MGR
06/09/20	267.995	So California Metro Water Dt	Water Revenue Refunding Bonds	N	CA	LEAD
06/09/20	6.005	Winston-Salem City-North Carolina	General Obligation Bonds	C	NC	SOLE
06/10/20	47.800	Albuquerque Bernalilio Co Wtr Util Auth	Sr Lien Jt Wtr & Swr Sys Ref Bond	N	NM	CO-MGR
06/10/20	140.913	Dallas City-Texas	Wtrwrks & Swr Sys Rev Ref Bonds	N	TX	CO-MGR
06/10/20	140.913	Dallas City-Texas	Wtrwrks & Swr Sys Rev Ref Bonds	N	TX	CO-MGR
06/10/20	181.833	Dallas City-Texas	Wtrwrks & Swr Sys Rev Ref Bonds	N	TX	CO-MGR
06/10/20	181.833	Dallas City-Texas	Wtrwrks & Swr Sys Rev Ref Bonds	N	TX	CO-MGR
06/10/20	167.800	Fort Worth City-Texas	Wtr & Swr Sys Rev Ref & Imp Bonds	C	TX	SOLE
06/10/20	21.665	Maine Hlth & Hghr Ed Facs Auth	Revenue Bonds	N	ME	CO-MGR
06/11/20	178.390	Houston City-Texas	Comb Util Sys 1st Lien Rev & Ref	N	TX	LEAD
06/11/20	432.330	Houston City-Texas	Comb Util Sys 1st Lien Rev & Ref	N	TX	LEAD
06/11/20	377.635	Port of Morrow-Oregon	Transmission Facilities Rev Bonds	N	OR	CO-MGR
06/11/20	29.585	Santa Clara Co Financing Auth	Lease Revenue Bonds	C	CA	SOLE
06/12/20	16.575	Connecticut	General Obligation Bonds	N	CT	CO-MGR
06/12/20	41.000	Connecticut	General Obligation Bonds	N	CT	CO-MGR
06/12/20	56.020	Connecticut	General Obligation Bonds	N	CT	CO-MGR
06/12/20	83.955	Connecticut	General Obligation Bonds	N	CT	CO-MGR
06/12/20	86.095	Connecticut	General Obligation Bonds	N	CT	CO-MGR
06/12/20	116.355	Connecticut	General Obligation Bonds	N	CT	CO-MGR
06/16/20	178.715	Collin Co (Frisco) ISD	Refunding Bonds	N	TX	CO-MGR
06/16/20	400.000	Maryland Transportation Auth	Transportation Facs Proj Rev Bond	N	MD	CO-MGR
06/16/20	46.225	Oregon	General Obligation Bonds	N	OR	CO-MGR
06/17/20	4.870	Collin Co (Frisco) ISD	Refunding Bonds	N	TX	CO-MGR
06/17/20	76.790	Fort Bend Co (Lamar) CISD	Unltd Tax Refunding Bonds	N	TX	CO-MGR
06/17/20	18.595	Indiana State University Bd of Trustees	Student Fee Bonds	N	IN	LEAD
06/17/20	81.265	Indiana State University Bd of Trustees	Stufent Fee Bonds	N	IN	LEAD
06/17/20	64.595	Johnston Co Finance Corp	Limited Obligation Ref Bonds	N	NC	CO-MGR
06/17/20	71.040	Johnston Co Finance Corp	Limited Obligation Bonds	N	NC	CO-MGR
06/17/20	11.550	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/17/20	21.355	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/17/20	27.000	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/17/20	94.710	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/17/20	794.235	Texas Transportation Commission	Highway Imp GO Refunding Bonds	N	TX	CO-MGR
06/18/20	16.420	Bulloch Co Development Authority	Revenue Bonds	N	GA	SOLE
06/18/20	12.085	Charleston City-South Carolina	Wtrwrks & Swr Sys Cap Imp Bonds	N	SC	LEAD
06/18/20	168.695	Charleston City-South Carolina	Wtrwrks & Swr Sys Ref Rev Bonds	N	SC	LEAD
06/18/20	39.080	Geisinger Authority	Health System Revenue Bonds	N	PA	CO-MGR
06/18/20	89.540	Geisinger Authority	Health System Revenue Bonds	N	PA	CO-MGR
06/18/20	139.560	Geisinger Authority	Health System Revenue Bonds	N	PA	CO-MGR
06/18/20	480.050	Geisinger Authority	Health System Revenue Bonds	N	PA	CO-MGR
06/18/20	492.010	NYS Urban Development Corp	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
06/18/20	1,288.210	NYS Urban Development Corp	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
06/18/20	55.805	Spartanburg Regional Hlth Svcs Dt	Hospital Revenue Bonds	N	SC	SOLE
06/18/20	69.195	Spartanburg Regional Hlth Svcs Dt	Hospital Revenue Bonds	N	SC	SOLE
06/19/20	128.470	Miami University	General Receipts Rev & Ref Bonds	N	OH	CO-MGR
06/23/20	17.082	Houston City-Texas	Airport Sys Spec Fac Rev Ref Bond	N	TX	CO-MGR
06/23/20	17.083	Houston City-Texas	Airport Sys Spec Fac Rev Ref Bond	N	TX	CO-MGR
06/23/20	23.735	Houston City-Texas	Airport Sys Spec Fac Rev Ref Bond	N	TX	CO-MGR
06/23/20	23.735	Houston City-Texas	Airport Sys Spec Fac Rev Ref Bond	N	TX	CO-MGR
06/23/20	33.445	Houston City-Texas	Airport Sys Spec Fac Rev Ref Bond	N	TX	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
06/23/20	33.445	Houston City-Texas	Airport Sys Spec Fac Rev Ref Bond	N	TX	CO-MGR
06/23/20	90.050	Oakland Co (Pontiac) SD	GO School Building & State Bonds	N	MI	LEAD
06/23/20	8.500	Orange Co (Los Alamitos) USD	General Obligation Bonds	C	CA	SOLE
06/24/20	98.310	Alaska Municipal Bond Bank	GO & Refundinng Bonds	N	AK	CO-MGR
06/24/20	98.800	California Infrstr & Eco Dev Bank	Revenue Refunding Bonds	N	CA	SOLE
06/24/20	26.595	Corpus Christi City-Texas	General Improvement Ref Bonds	N	TX	CO-MGR
06/24/20	67.320	Corpus Christi City-Texas	General Improvement Ref Bonds	N	TX	CO-MGR
06/24/20	80.385	Corpus Christi City-Texas	General Improvement Bonds	N	TX	CO-MGR
06/24/20	16.410	Montgomery Co Hsg Opportunities Comm	Multi-Family Housing Dev Bonds	N	MD	CO-MGR
06/24/20	50.935	Montgomery Co Hsg Opportunities Comm	Multi-Family Housing Dev Bonds	N	MD	CO-MGR
06/25/20	85.000	California Municipal Fin Auth	Revenue Bonds	N	CA	SOLE
06/25/20	39.645	Campbell Co Indus Dev Auth	Public Facility Lease Rev Bonds	N	VA	LEAD
06/25/20	35.130	North Texas Municipal Water Dt	Regional Wastewater Sys Rev Bonds	C	TX	SOLE
06/30/20	1,094.915	Massachusetts School Bldg Auth	Sr Dedicated Sales Tax Bonds	N	MA	CO-MGR
06/30/20	72.500	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Prog Bonds	N	TN	CO-MGR
06/30/20	72.500	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Prog Bonds	N	TN	CO-MGR
07/01/20	140.885	Univ of Colorado Bd of Regents	Univ Enterprise Ref Rev Bonds	N	CO	LEAD
07/07/20	12.950	Missouri-Illinois Met Dt Bi-St Dev Agy	Comb Ln Mass Transit Ref Bonds	N	MO	LEAD
07/07/20	158.255	Missouri-Illinois Met Dt Bi-St Dev Agy	Comb Ln Mass Transit Ref Bonds	N	MO	LEAD
07/07/20	264.175	Tarrant Co College Dt	General Obligation Bonds	C	TX	SOLE
07/08/20	64.895	Bexar Co (Northside) ISD	Refunding Bonds	N	TX	CO-MGR
07/08/20	6.315	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
07/08/20	28.545	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
07/08/20	36.085	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
07/08/20	100.000	Las Vegas Valley Water Dt	GO Limited Tax Water Bonds	C	NV	SOLE
07/08/20	29.500	Oregon	GO Refunding Bonds	N	OR	CO-MGR
07/08/20	354.170	Oregon	GO Refunding Bonds	N	OR	CO-MGR
07/08/20	36.450	St Louis Co-Missouri	GO Refunding Bonds	C	MO	SOLE
07/08/20	44.770	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	LEAD
07/08/20	200.000	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	LEAD
07/09/20	26.590	Jacksonville Electric Authority (JEA)	Water & Sewer Sys Sub Rev Bonds	N	FL	CO-MGR
07/09/20	104.000	Jacksonville Electric Authority (JEA)	Water & Sewer System Rev Bonds	N	FL	CO-MGR
07/09/20	323.335	Regents of the Univ of California	General Revenue Bonds	N	CA	LEAD
07/09/20	400.000	Regents of the Univ of California	General Revenue Bonds	N	CA	LEAD
07/09/20	500.000	Regents of the Univ of California	General Revenue Bonds	N	CA	LEAD
07/09/20	600.000	Regents of the Univ of California	General Revenue Bonds	N	CA	LEAD
07/09/20	826.195	Regents of the Univ of California	General Revenue Bonds	N	CA	LEAD
07/09/20	88.295	Vermont Ed & Hlth Bldgs Fin Agy	Revenue Bonds	N	VT	CO-MGR
07/09/20	315.840	Wisconsin	Transportation Revenue Ref Bonds	N	WI	LEAD
07/09/20	106.540	Wisconsin Public Finance Auth	Health Care Facs Rev & Ref Bonds	N	WI	CO-MGR
07/10/20	221.670	Jacksonville Electric Authority (JEA)	Electric System & Sub Rev Bonds	N	FL	CO-MGR
07/14/20	139.173	Dallas ISD	Unltd Tax School Bldg Bonds	C	TX	SOLE
07/14/20	139.173	Dallas ISD	Unltd Tax School Bldg Bonds	C	TX	SOLE
07/14/20	600.000	Univ of Virginia Rector & Visitors	General Revenue Pledge Bonds	N	VA	CO-MGR
07/14/20	61.350	Virginia Resources Auth (VRA)	Water & Sewer Sys Rev Ref Bonds	N	VA	CO-MGR
07/14/20	36.455	Washington	General Obligation Bonds	C	WA	SOLE
07/15/20	50.250	Kansas Turnpike Authority	Refunding Revenue Bonds	N	KS	CO-MGR
07/15/20	328.450	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
07/15/20	17.760	Pennsylvania Hghr Ed Facs Auth	Revenue Bonds	N	PA	LEAD
07/15/20	134.735	Pennsylvania Hghr Ed Facs Auth	Revenue Bonds	N	PA	LEAD
07/16/20	212.700	Maine Hlth & Hghr Ed Facs Auth	Revenue Bonds	N	ME	CO-MGR
07/16/20	12.150	Sacramento City Housing Authority	Multi-Family Housing Rev Bonds	P	CA	SOLE
07/16/20	339.360	Virginia College Building Auth	Educational Facs Re Bonds	N	VA	CO-MGR
07/17/20	16.000	Maryland Dept Hsg & Com Dev (DHCD)	Multi-Family Note	P	MD	SOLE
07/17/20	72.075	NYS Urban Development Corp	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
07/17/20	2,225.380	NYS Urban Development Corp	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
07/20/20	341.455	Virginia College Building Auth	Revenue & Rev Ref Bonds	N	VA	CO-MGR
07/21/20	22.500	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
07/21/20	39.485	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
07/21/20	46.320	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
07/21/20	78.295	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
07/21/20	76.695	San Antonio City-Texas	Water System Jr Lien Rev Bonds	N	TX	LEAD
07/21/20	76.695	San Antonio City-Texas	Water System Jr Lien Rev Bonds	N	TX	LEAD
07/22/20	300.000	Auburn University	General Fee Revenue Bonds	N	AL	CO-MGR
07/22/20	181.040	Harris Co (Humble) ISD	School Building Bonds	N	TX	LEAD
07/22/20	249.920	Maryland	GO State & Local Facs Loan Bonds	C	MD	SOLE
07/22/20	78.500	NYS Housing Fin-Mortgage Agcy	Housing Revenue Bonds	N	NY	LEAD
07/23/20	114.880	Dallas & Fort Worth Cities-Texas	Joint Revenue Refunding Bonds	N	TX	CO-MGR
07/23/20	114.880	Dallas & Fort Worth Cities-Texas	Joint Revenue Refunding Bonds	N	TX	CO-MGR
07/23/20	114.880	Dallas & Fort Worth Cities-Texas	Joint Revenue Refunding Bonds	N	TX	CO-MGR
07/23/20	114.880	Dallas & Fort Worth Cities-Texas	Joint Revenue Refunding Bonds	N	TX	CO-MGR
07/23/20	504.225	Mississippi	GO Refunding Bonds	N	MS	LEAD
07/23/20	1.705	Smith Co (Tyler) ISD	Unlimited Tax Refunding Bonds	N	TX	CO-MGR
07/23/20	121.420	Smith Co (Tyler) ISD	Unlimited Tax Refunding Bonds	N	TX	CO-MGR
07/24/20	14.500	California Housing Finance Agcy	Multi-Family Housing Rev Notes	P	CA	SOLE
07/28/20	48.520	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	CO-MGR
07/28/20	198.305	Seattle City-Washington	Muni Light & Power Imp Rev Bonds	C	WA	SOLE
07/29/20	44.115	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
07/29/20	74.080	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
07/29/20	46.240	New Jersey Hsg & Mtg Fin Agency	Single Family Housing Rev Bonds	N	NJ	CO-MGR
07/29/20	55.370	New Jersey Hsg & Mtg Fin Agency	Single Family Housing Rev Bonds	N	NJ	CO-MGR
07/29/20	266.090	New Jersey Hsg & Mtg Fin Agency	Single Family Housing Rev Bonds	N	NJ	CO-MGR
07/29/20	66.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	CO-MGR
08/04/20	118.460	Alabama Highway Corp	Special Obligation Revenue Bonds	N	AL	CO-MGR
08/04/20	52.800	Kaufman Co (Crandall) ISD	School Building Bonds	N	TX	LEAD
08/05/20	74.675	Alaska Housing Finance Corp	General Mortgage Rev Bonds	N	AK	CO-MGR
08/05/20	135.170	Alaska Housing Finance Corp	General Mortgage Rev Bonds	N	AK	CO-MGR
08/05/20	22.360	Long Island Power Authority	Electric System Gen Rev Bonds	N	NY	CO-MGR
08/05/20	91.615	Long Island Power Authority	Electric System Gen Rev Bonds	N	NY	CO-MGR
08/05/20	237.975	Long Island Power Authority	Electric System General Rev Bonds	N	NY	CO-MGR
08/05/20	250.000	Long Island Power Authority	Electric System Gen Rev Bonds	N	NY	CO-MGR
08/05/20	40.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
08/05/20	47.810	Tucson City-Arizona	General Obligation Bonds	N	AZ	LEAD
08/05/20	.007	Williamson Co (Leander) ISD	Refunding Bonds	N	TX	CO-MGR
08/05/20	.007	Williamson Co (Leander) ISD	Refunding Bonds	N	TX	CO-MGR
08/05/20	46.500	Williamson Co (Leander) ISD	Refunding Bonds	N	TX	CO-MGR
08/05/20	120.995	Williamson Co (Leander) ISD	School Building & Refunding Bonds	N	TX	CO-MGR
08/06/20	43.820	Anchorage City-Alaska	GO Refunding Bonds	N	AK	CO-MGR
08/06/20	60.090	Anchorage City-Alaska	General Obligation Bonds	N	AK	CO-MGR
08/06/20	60.385	Anchorage City-Alaska	GO & Refunding Bonds	N	AK	CO-MGR
08/06/20	77.830	Anchorage City-Alaska	GO Refunding Bonds	N	AK	CO-MGR
08/06/20	100.000	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
08/11/20	3.000	Caldwell Co-Texas	Comb Tax & Ltd Pledge Cert of Ob	P	TX	SOLE
08/11/20	255.115	Los Angeles Co Metro Trans Auth	Sales Tax Revenue Ref Bonds	N	CA	LEAD
08/11/20	1,100.980	Los Angeles Co Metro Trans Auth	Sales Tax Revenue Ref Bonds	N	CA	LEAD
08/11/20	160.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
08/11/20	152.020	Minnesota	GO State Trunk Highway Bonds	C	MN	SOLE
08/11/20	180.190	Minnesota	GO State Trunk Highway Ref Bonds	C	MN	SOLE
08/12/20	257.495	Broome Co Local Dev Corp	Revenue Bonds	N	NY	CO-MGR
08/12/20	35.000	California Poll Control Fin Auth	Water Facs Ref Rev Bonds	N	CA	SOLE
08/12/20	25.000	Illinois Finance Authority	Water Facilities Ref Rev Bonds	N	IL	SOLE
08/12/20	26.000	Owen Co-Kentucky	Water Facilities Ref Rev Bonds	N	KY	SOLE
08/13/20	28.435	Lincoln Co-North Carolina	Enterprise System Revenue Bonds	N	NC	SOLE
08/13/20	25.000	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
08/13/20	72.500	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
08/13/20	167.305	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
08/13/20	6.213	Tom Green Co (San Angelo) ISD	Refunding Bonds	N	TX	CO-MGR
08/13/20	64.840	Tom Green Co (San Angelo) ISD	Refunding Bonds	N	TX	CO-MGR
08/13/20	50.100	Weymouth Town-Massachusetts	GO Municipal Purpose Loan Bonds	C	MA	SOLE
08/18/20	101.220	Harris Co (Goose Creek) CISD	School Building Bonds	N	TX	CO-MGR
08/18/20	625.005	San Fran Bay Area Rapid Trans Dt	General Obligation Bonds	N	CA	CO-MGR
08/19/20	278.025	Denton Co ISD	School Building Bonds	N	TX	CO-MGR
08/19/20	380.000	Los Angeles Dept of Airports	Senior Revenue Bonds	N	CA	CO-MGR
08/19/20	678.500	Los Angeles Dept of Airports	Senior Ref & Revenue Bonds	N	CA	CO-MGR
08/19/20	108.280	Minnesota Housing Fin Agency	State Appropriation Bonds	N	MN	CO-MGR
08/19/20	53.924	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	C	NY	SOLE
08/19/20	80.886	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	C	NY	SOLE
08/20/20	6.425	Rockwall ISD	Refunding Bonds	N	TX	CO-MGR
08/20/20	157.365	Rockwall ISD	Refunding Bonds	N	TX	CO-MGR
08/21/20	539.582	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
08/21/20	809.373	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
08/25/20	7.720	San Antonio City-Texas	Comb Tax & Rev Cert of Obligation	N	TX	CO-MGR
08/25/20	7.720	San Antonio City-Texas	Comb Tax & Rev Cert of Obligation	N	TX	CO-MGR
08/25/20	114.930	San Antonio City-Texas	Gen Imp & Comb Tax Rev Cert of Ob	N	TX	CO-MGR
08/25/20	114.930	San Antonio City-Texas	Gen Imp & Comb Tax Rev Cert of Ob	N	TX	CO-MGR
08/26/20	314.030	California State Univ Trustees	Systemwide Revenue Bonds	N	CA	CO-MGR
08/26/20	994.585	California State Univ Trustees	Systemwide Revenue Bonds	N	CA	CO-MGR
08/26/20	13.810	Lower Tule River Irrigation Dt	Refunding Revenue Bonds	N	CA	SOLE
08/27/20	367.895	Chicago Transit Authority	Sales Tax Receipts Rev Bonds	N	IL	CO-MGR
08/27/20	12.241	Delaware State Housing Authority	Multi-Family Housing Rev Note	P	DE	SOLE
08/27/20	20.190	Louisiana Regional Transit Auth	Sales Tax Revenue Ref Bonds	N	LA	LEAD
08/27/20	62.815	Louisiana Regional Transit Auth	Sales Tax Revenue Ref Bonds	N	LA	LEAD
08/27/20	1.055	Montgomery Co (New Caney) ISD	Refunding Bonds	N	TX	CO-MGR
08/27/20	61.210	Montgomery Co (New Caney) ISD	Refunding Bonds	N	TX	CO-MGR
08/27/20	440.192	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
08/27/20	660.288	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
08/28/20	265.000	Arkansas Development Fin Auth	Industrial Development Rev Bonds	N	AR	CO-MGR
09/01/20	96.865	Alaska Housing Finance Corp	Revenue Bonds	N	AK	CO-MGR
09/01/20	1.455	Arizona Industrial Dev Auth	Lease Revenue Bonds	N	AZ	SOLE
09/01/20	51.165	Arizona Industrial Dev Auth	Lease Revenue Bonds	N	AZ	SOLE
09/01/20	36.175	New Mexico Hosp Equip Loan Council	Hospital Sys Ref & Imp Rev Bonds	N	NM	CO-MGR
09/01/20	1,511.015	New York Transportation Dev Corp	Special Facilities Rev Bonds	N	NY	CO-MGR
09/01/20	100.760	Virginia Transportation Board	Federal Transportation Rev GANs	N	VA	LEAD
09/02/20	212.500	California	Various Purpose GO Bonds	N	CA	CO-MGR
09/02/20	2,418.450	California	Various Purpose GO & Ref Bonds	N	CA	CO-MGR
09/02/20	19.245	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
09/02/20	55.000	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
09/02/20	102.935	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
09/02/20	24.095	North Charleston City-South Carolina	Limited Obligation Bonds	N	SC	SOLE
09/03/20	122.520	California Infrstr & Eco Dev Bank	Refunding Revenue Bonds	N	CA	SOLE
09/03/20	3,500.000	Florida St Board Admin Fin Corp	Revenue Bonds	N	FL	LEAD
09/03/20	2.815	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
09/03/20	28.015	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
09/03/20	29.615	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
09/03/20	64.360	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
09/03/20	212.140	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
09/09/20	56.660	Crystal Valley Metropolitan Dt #2	Ltd Tax GO Refunding & Imp Bonds	N	CO	SOLE
09/09/20	20.770	Marshfield Town-Massachusetts	GO Municipal Purpose Loan Bonds	C	MA	SOLE
09/09/20	74.420	Maui Co-Hawaii	General Obligation Bonds	N	HI	SOLE
09/09/20	21.835	Sandwich Town-Massachusetts	GO Municipal Purpose Loan Bonds	C	MA	SOLE
09/09/20	325.895	Washington Suburban Sanitary Dt	Consolidated Public Imp Bonds	C	MD	SOLE
09/10/20	212.170	Michigan State Building Auth	Revenue & Refunding Bonds	N	MI	CO-MGR
09/10/20	556.855	Michigan State Building Auth	Revenue Refunding Bonds	N	MI	CO-MGR
09/10/20	2.535	Rosedale-Rio Bravo Wtr Storage Dt	Revenue Refunding Bonds	N	CA	SOLE

Source: Refinitiv as of June 30, 2021

Safe Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
09/10/20	9.460	Rosedale-Rio Bravo Wtr Storage Dt	Revenue Refunding Bonds	N	CA	SOLE
09/10/20	16.235	Rosedale-Rio Bravo Wtr Storage Dt	Revenue Refunding Bonds	N	CA	SOLE
09/10/20	26.180	Rosedale-Rio Bravo Wtr Storage Dt	Revenue Refunding Bonds	N	CA	SOLE
09/11/20	333.445	Charlotte City-North Carolina	Water & Sewer Sys Ref Ref Bonds	N	NC	LEAD
09/15/20	49.410	Austin City-Texas	Public Improvement & Ref Bonds	N	TX	CO-MGR
09/15/20	218.725	Austin City-Texas	Pub Imp & COBs & Pub Prop Bonds	N	TX	CO-MGR
09/15/20	15.630	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
09/15/20	109.370	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
09/15/20	3.520	Potter Co (Amarillo) ISD	Refunding Bonds	N	TX	CO-MGR
09/15/20	84.870	Potter Co (Amarillo) ISD	Refunding Bonds	N	TX	CO-MGR
09/15/20	161.770	Sandy Springs Pub Facs Auth	Refunding Revenue Bonds	C	GA	SOLE
09/16/20	199.685	NYC Transitional Finance Auth	Future Tax Secure Sub Bonds	N	NY	CO-MGR
09/16/20	900.000	NYC Transitional Finance Auth	Future Tax Secure Sub Bonds	N	NY	CO-MGR
09/17/20	251.195	Harris Co Flood Control Dt	Improvement Refunding Bonds	N	TX	CO-MGR
09/17/20	200.000	North Carolina Housing Fin Agcy	Home Ownership Rev & Ref Bonds	N	NC	CO-MGR
09/22/20	112.065	Louisville-Jefferson Co Metro Swr Dt	Swr & Drainage Sys Rev Ref Bonds	C	KY	SOLE
09/22/20	124.835	Miami-Dade Co-Florida	Cap Asset Acqui Special Ob Bonds	C	FL	SOLE
09/22/20	28.090	Mobile Co-Alabama	Limited Obligation Warrants	N	AL	LEAD
09/22/20	628.515	Texas Water Development Board	Revenue Bonds	N	TX	CO-MGR
09/23/20	4.600	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Class I Bonds	N	CO	CO-MGR
09/23/20	8.040	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Class I Bonds	N	CO	CO-MGR
09/23/20	29.735	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Class I Bonds	N	CO	CO-MGR
09/23/20	161.565	NYS Housing Fin-Mortgage Agcy	Affordable Hsg Ref Rev Bonds	N	NY	CO-MGR
09/23/20	91.515	Virginia Beach City-Virginia	Storm Water Util Rev & Ref Bonds	C	VA	SOLE
09/24/20	44.200	Albuquerque City-New Mexico	Tran Infra Gross Receipts Tx Bond	N	NM	CO-MGR
09/24/20	80.000	California Municipal Fin Auth	Solid Waste Disposal Rev Bonds	N	CA	CO-MGR
09/24/20	650.000	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds	N	NY	CO-MGR
09/24/20	72.405	Tulare Co Transportation Auth	Ltd Tx Sales Tax Revenue Bonds	N	CA	CO-MGR
09/24/20	4.000	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
09/24/20	19.050	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
09/25/20	175.000	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
09/29/20	25.705	Henrico Co-Virginia	Water & Sewer Sys Rev Bonds	N	VA	CO-MGR
09/29/20	118.675	Henrico Co-Virginia	Water & Sewer Sys Ref Rev Bonds	N	VA	CO-MGR
09/30/20	52.035	Harris Co-Houston Sports Auth	Senior Lien Revenue Ref Bonds	N	TX	LEAD
09/30/20	60.130	Harris Co-Houston Sports Auth	Senior & 2nd Ln Revenue Ref Bonds	N	TX	LEAD
09/30/20	80.000	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
10/01/20	156.835	Charleston Ed Excellence Fin Corp	Installment Purchase Rev Ref Bond	N	SC	SOLE
10/01/20	44.225	Colorado	Certificates of Participation	N	CO	LEAD
10/01/20	68.670	Colorado	Certificates of Participation	N	CO	LEAD
10/01/20	4.185	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
10/01/20	35.710	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
10/01/20	47.415	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
10/01/20	397.440	Florida State BOE	Pub Education Cap Outlay Ref Bond	C	FL	SOLE
10/01/20	64.035	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
10/01/20	28.640	New Bedford City-Massachusetts	GO State Qual Muni Purp Ln Bonds	C	MA	SOLE
10/01/20	258.573	North Texas Tollway Auth (NTTA)	System Revenue Refunding Bonds	N	TX	CO-MGR
10/01/20	258.573	North Texas Tollway Auth (NTTA)	System Revenue Refunding Bonds	N	TX	CO-MGR
10/05/20	86.200	Montgomery Co-Tennessee	General Obligation Bonds	C	TN	SOLE
10/06/20	614.615	Hampton Roads Trans Acc Com (HRTAC)	Roads Transportation Fund Bonds	N	VA	CO-MGR
10/06/20	11.485	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
10/06/20	250.000	Ohio Water Development Authority	Wtr Poll Ctrl Ln Fund Ref Bonds	N	OH	LEAD
10/06/20	59.375	Palm Beach Co-Florida	Water & Sewer Rev Ref Bonds	C	FL	SOLE
10/07/20	9.410	Shafter Wasco Irrigation Dt	Refunding Revenue Bonds	N	CA	SOLE
10/08/20	47.395	Albany-Dougherty Inner City Auth	Refunding Revenue Bonds	N	GA	LEAD
10/08/20	219.310	Arlington Co-Virginia	GO Refunding Bonds	N	VA	CO-MGR
10/08/20	47.830	Dallas Co (Garland) ISD	Refunding Bonds	N	TX	CO-MGR
10/08/20	900.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
10/09/20	178.070	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mills)	Issuer	Issue Description	Bid	State	Role
10/13/20	232.830	Huntsville Health Care Auth	Revenue Bonds	N	AL	CO-MGR
10/14/20	26.650	Arlington Co Industrial Dev Auth	Revenue Bonds	N	VA	LEAD
10/14/20	30.940	Arlington Co Industrial Dev Auth	Revenue Bonds	N	VA	LEAD
10/14/20	1.195	Ellis Co (Midlothian) ISD	Ref Capital Appreciation Bonds	N	TX	LEAD
10/14/20	30.925	Ellis Co (Midlothian) ISD	Refunding Bonds	N	TX	LEAD
10/14/20	72.230	Ellis Co (Midlothian) ISD	Refunding Bonds	N	TX	LEAD
10/14/20	146.545	Metro Wastewater Reclamation Dt	Sewer Improvement Bonds	N	CO	SOLE
10/14/20	200.000	NYC Transitional Finance Auth	Building Aid Revenue Bonds	C	NY	SOLE
10/14/20	63.180	New Mexico Finance Auth (NMFA)	State Transpo Ref Rev Bonds	N	NM	CO-MGR
10/15/20	33.105	Centerra Metropolitan Dt #1	Special Rev Ref & Imp Bonds	N	CO	SOLE
10/15/20	103.210	Fort Worth City-Texas	Drainage Util Sys Rev & Imp Bonds	C	TX	SOLE
10/15/20	14.770	Isle of Palms-South Carolina	Water and Sewer System Rev Bonds	C	SC	SOLE
10/15/20	23.075	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds	N	MI	CO-MGR
10/15/20	499.260	North Carolina Turnpike Authority	Revenue BANs	N	NC	LEAD
10/15/20	179.165	Oklahoma Turnpike Authority	Revenue Refunding Bonds	N	OK	CO-MGR
10/15/20	187.195	Oklahoma Turnpike Authority	Revenue Refunding Bonds	N	OK	CO-MGR
10/15/20	45.824	San Francisco City/Co-California	Multi-Family Housing Rev Note	P	CA	SOLE
10/15/20	118.130	Virginia	GO Refunding Bonds	C	VA	SOLE
10/15/20	50.920	Westchester Co-New York	GO Refunding Bonds	C	NY	SOLE
10/16/20	19.920	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
10/16/20	40.390	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
10/16/20	59.375	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
10/19/20	7.289	Clark Co-Nevada	GO Ltd Pub Facs Ref Bonds	P	NV	SOLE
10/19/20	19.015	Santa Clara Co (Union) ESD	GO Refunding Bonds	N	CA	SOLE
10/20/20	52.000	Charles Co County Commissioners	Consolidated Pub Imp Bonds	C	MD	SOLE
10/20/20	38.460	Dallas City-Texas	GO Refunding Bonds	C	TX	SOLE
10/20/20	38.460	Dallas City-Texas	GO Refunding Bonds	C	TX	SOLE
10/20/20	194.470	Delaware Transportation Auth	Grant Anticipation Bonds	N	DE	CO-MGR
10/20/20	2.750	Nevada	GO Natural Resources & Ref Bonds	C	NV	SOLE
10/20/20	53.170	Sandy Springs Pub Facs Auth	Revenue Bonds	C	GA	SOLE
10/20/20	320.840	Virginia Public School Authority	School Financing Ref Bonds	C	VA	SOLE
10/20/20	13.665	William and Mary College	General Revenue Pledge Bonds	N	VA	CO-MGR
10/20/20	137.495	William and Mary College	General Rev Pledge & Ref Bonds	N	VA	CO-MGR
10/21/20	198.890	California	Various Purpose GO Ref Bonds	C	CA	SOLE
10/21/20	33.105	Fossil Ridge Metro Dt #3	Limited Tax GO Ref & Imp Bonds	N	CO	SOLE
10/22/20	206.085	Alabama Pub School & College Au	Capital Imp Pool & Ref Bonds	N	AL	LEAD
10/22/20	1,274.750	Alabama Pub School & College Au	Capital Improvement & Ref Bonds	N	AL	LEAD
10/22/20	56.365	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
10/22/20	76.075	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
10/22/20	77.035	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	SOLE
10/22/20	1.168	Harris Co (Goose Creek) CISD	Refunding Bonds	N	TX	CO-MGR
10/22/20	120.010	Harris Co (Goose Creek) CISD	Refunding Bonds	N	TX	CO-MGR
10/22/20	363.230	Los Angeles Co Pub Works Fin Au	Lease Revenue Bonds	N	CA	LEAD
10/22/20	109.725	Washington State University	General Revenue & Ref Bonds	N	WA	CO-MGR
10/26/20	49.535	Santa Clara Co (Cupertino) USD	GO Refunding Bonds	N	CA	SOLE
10/26/20	14.860	Scott Co (Shakopee) ISD #720	GO School Building Ref Bonds	C	MN	SOLE
10/27/20	29.440	Apex-North Carolina	GO Refunding Bonds	C	NC	SOLE
10/27/20	387.150	Harris Co (Cypress-Fairbanks) ISD	School Building & Ref Bonds	N	TX	CO-MGR
10/27/20	30.725	Platte Co (Park Hill) SD	GO Refunding Bonds	C	MO	SOLE
10/27/20	54.025	Westchester Co (Pelham) UFSD	School District Serial Bonds	C	NY	SOLE
10/28/20	502.615	California St Public Works Board	Lease Revenue Refunding Bonds	N	CA	LEAD
10/28/20	27.395	Charleston Public Facs Corp	Installment Purchase Rev Bonds	N	SC	LEAD
10/28/20	72.000	Clayton Co-Georgia	General Obligation Bonds	P	GA	SOLE
10/28/20	144.520	Galveston Co (Clear Creek) ISD	Refunding Bonds	N	TX	CO-MGR
10/28/20	28.770	O Fallon City-Missouri	Special Obligation Bonds	C	MO	SOLE
10/28/20	199.755	Upper Occoquan Sewerage Auth	Reg Sewerage Sys Rev Ref Bonds	C	VA	SOLE
10/28/20	74.750	Utah Transit Au (UTA)	Sales Tax Revenue Ref Bonds	N	UT	LEAD
10/28/20	1.065	Ventura Co (Oak Park) USD	GO Refunding Bonds	N	CA	SOLE

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
10/28/20	7.891	Ventura Co (Oak Park) USD	GO Refunding Bonds	N	CA	SOLE
10/28/20	38.835	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
10/29/20	252.810	Georgia Muni Electric Au (MEAG)	General Resolution & Sub Bonds	N	GA	LEAD
10/29/20	35.645	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
10/29/20	40.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
10/29/20	119.000	Milwaukee City-Wisconsin	GO Refunding Promissory Notes	C	WI	SOLE
10/29/20	700.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
10/29/20	700.000	North Carolina	Limited Obligation Bonds	N	NC	CO-MGR
10/29/20	85.330	Polk Co (Southeast Polk) CSD	GO School Bonds	C	IA	SOLE
10/29/20	5.000	Ventura Co (Conejo Valley) USD	General Obligation Bonds	N	CA	SOLE
10/29/20	44.995	Ventura Co (Conejo Valley) USD	General Obligation Bonds	N	CA	SOLE
10/30/20	93.060	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
10/30/20	151.630	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
10/30/20	444.415	Wisconsin Center Dt	Sr & Jr Dedicated Tax Rev Bonds	N	WI	CO-MGR
11/09/20	40.067	Minnesota Housing Fin Agency	Homeownership Fin Bonds	N	MN	CO-MGR
11/10/20	125.000	North Dakota Hsg Fin Agcy	Housing Finance Program Bonds	N	ND	CO-MGR
11/12/20	10.725	Hampton City-Virginia	GO Public Improvement Bonds	N	VA	CO-MGR
11/12/20	16.895	Hampton City-Virginia	GO Public Improvement & Ref Bonds	N	VA	CO-MGR
11/12/20	63.400	Hoover Industrial Dev Board	Environmental Imp Rev Bonds	N	AL	CO-MGR
11/12/20	33.300	Indiana Finance Authority	Environmental Imp Rev Bonds	N	IN	CO-MGR
11/12/20	13.700	Los Angeles City-California	Multi-Family Housing Rev Note	P	CA	SOLE
11/12/20	36.010	Mesa City-Arizona	Excise Tax Revenue Obligations	N	AZ	SOLE
11/16/20	62.720	Collin Co (Plano) ISD	Refunding Bonds	N	TX	LEAD
11/17/20	47.510	Bexar Co (San Antonio) ISD	Refunding Bonds	N	TX	LEAD
11/18/20	77.390	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	LEAD
11/18/20	51.120	Massachusetts Dev Finance Agcy	Special Obligation Ref Bonds	C	MA	SOLE
11/18/20	15.155	Minneapolis-St Paul Metro Council	GO Transit Refunding Bonds	C	MN	SOLE
11/18/20	3,672.360	New Jersey	GO Emergency Bonds	N	NJ	CO-MGR
11/18/20	15.990	Otter Tail Co (Pelican Rapids) ISD #548	GO School Bldg Ref Bonds	C	MN	SOLE
11/18/20	44.970	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
11/18/20	50.000	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
11/19/20	18.885	Anchorage City-Alaska	Port Revenue Bonds	N	AK	CO-MGR
11/19/20	46.210	Anchorage City-Alaska	Port Revenue Bonds	N	AK	CO-MGR
11/19/20	38.970	Athens Housing Authority	Revenue Bonds	N	GA	LEAD
11/19/20	35.025	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
11/19/20	10.195	Univ of Oklahoma Bd of Regents	General Revenue Ref Bonds	N	OK	CO-MGR
11/19/20	60.565	Univ of Oklahoma Bd of Regents	General Revenue Ref Bonds	N	OK	CO-MGR
11/20/20	38.070	Franklin Co Industrial Dev Auth	Public Fac Lease Rev Ref Bonds	N	VA	LEAD
11/20/20	31.530	NYC Housing Dev Corp	Housing Impact Bonds	N	NY	LEAD
11/20/20	257.535	NYC Housing Dev Corp	Housing Impact Bonds	N	NY	LEAD
11/24/20	3.875	Denton Co ISD	Refunding Bonds	N	TX	CO-MGR
11/24/20	265.570	Denton Co ISD	Refunding Bonds	N	TX	CO-MGR
11/24/20	9.415	Shreveport City-Louisiana	Water & Sewer Rev Ref Bonds	N	LA	LEAD
11/24/20	18.035	Shreveport City-Louisiana	Water & Sewer Rev Ref Bonds	N	LA	LEAD
12/01/20	6.965	Colorado Reg Transportation Dt	Revenue Bonds	N	CO	LEAD
12/01/20	304.820	Colorado Reg Transportation Dt	Revenue Bonds	N	CO	LEAD
12/01/20	500.000	Illinois State Toll Highway Auth	Toll Highway Sr Revenue Bonds	N	IL	CO-MGR
12/01/20	60.000	Oregon Hsg & Comm Svcs Dept	Mortgage Revenue Bonds	N	OR	CO-MGR
12/02/20	22.035	Louisiana Gov Env Fac & CDA (LCDA)	Revenue Bonds	N	LA	SOLE
12/02/20	23.860	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
12/02/20	1,500.000	New Jersey Trans Trust Fund Au	Transportation Program Bonds	N	NJ	CO-MGR
12/02/20	23.500	Westchester Co Indust Dev Agcy	Multi-Family Housing Rev Bonds	N	NY	SOLE
12/03/20	24.560	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Housing Rev Bonds	N	CO	CO-MGR
12/03/20	91.430	Frisco City-Texas	GO Refunding & Improvement Bonds	C	TX	SOLE
12/03/20	534.425	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Reso Bonds	N	NY	CO-MGR
12/03/20	194.570	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	LEAD
12/03/20	287.045	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
12/03/20	15.720	Pima Co-Arizona	Certificates of Participation	N	AZ	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
12/03/20	50.390	Pima Co-Arizona	Certificates of Participation	N	AZ	CO-MGR
12/03/20	170.800	Will Co-Illinois	GO Alt Rev Source Ref Bonds	N	IL	SOLE
12/04/20	2.980	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
12/04/20	50.560	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
12/04/20	63.210	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
12/08/20	242.570	Los Angeles Dept Wtr & Pwr (LADWP)	Water Sytem Revenue Bonds	N	CA	CO-MGR
12/08/20	37.040	Ohio Higher Ed Fac Commission	Revenue Bonds	N	OH	LEAD
12/09/20	15.585	El Paso Co-Colorado	Revenue Refunding Bonds	N	CO	SOLE
12/09/20	22.765	El Paso Co-Colorado	Revenue Refunding Bonds	N	CO	SOLE
12/09/20	484.160	Georgia State Road & Tollway Auth	Fed Hway GANs & Reimburse Bonds	N	GA	CO-MGR
12/09/20	2.800	Massachusetts Housing Fin Agcy	Single Family Mortgage Rev Bonds	N	MA	CO-MGR
12/09/20	102.365	Massachusetts Housing Fin Agcy	Single Family Mortgage Rev Bonds	N	MA	CO-MGR
12/09/20	16.525	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
12/09/20	108.475	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
12/09/20	39.050	New Jersey Hsg & Mtg Fin Agency	Multi-Family Revenue Bonds	N	NJ	LEAD
12/09/20	41.550	New Jersey Hsg & Mtg Fin Agency	Multi-Family Revenue Bonds	N	NJ	LEAD
12/09/20	202.315	Port of Morrow-Oregon	Transmission Facs Rev Bonds	N	OR	LEAD
12/09/20	279.315	University of Connecticut	GO & Refunding Bonds	N	CT	CO-MGR
12/10/20	27.240	Tucson City-Arizona	Ref Certificates of Participation	N	AZ	SOLE
12/11/20	19.800	Florida Gulf Coast Univ Fin Corp	Capital Improvement Ref Rev Bonds	N	FL	SOLE
12/11/20	137.605	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
12/11/20	315.345	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
12/15/20	109.310	Collin Co (Frisco) ISD	Refunding Bonds	N	TX	CO-MGR
12/15/20	182.170	Collin Co (Frisco) ISD	School Building & Refunding Bonds	N	TX	CO-MGR
12/15/20	319.025	Empire State Development Corp	Revenue Bonds	C	NY	SOLE
12/15/20	338.605	Empire State Development Corp	Revenue Bonds	C	NY	SOLE
12/15/20	37.550	New Hampshire	GO Refunding Bonds	C	NH	SOLE
12/15/20	39.000	Travis Co Housing Finance Corp	Multi-Family Housing Rev Bonds	N	TX	LEAD
12/16/20	21.000	District of Columbia Hsg Fin Agy	Multi-Family Housing Rev Bonds	N	DC	SOLE
12/16/20	310.195	NYC Health & Hosp Corp	Health System Bonds	N	NY	CO-MGR
12/16/20	73.260	NYC Trust for Cultural Resources	Refunding Revenue Bonds	N	NY	CO-MGR
12/16/20	6.750	Three Springs Metro Dt #1	Sub Ltd Tx GO Refunding Bonds	N	CO	SOLE
12/17/20	20.805	Denton Co (Little Elm) ISD	Refunding Bonds	N	TX	LEAD
12/17/20	1,500.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
12/17/20	.500	South Carolina St Hsg Fin & Dev Au	Multi-Family Rental Hsg Rev Bonds	N	SC	SOLE
12/17/20	14.500	South Carolina St Hsg Fin & Dev Au	Multi-Family Rental Hsg Rev Bonds	N	SC	SOLE
01/06/21	1.475	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
01/06/21	28.915	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
01/06/21	51.525	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
01/06/21	54.275	Louisiana Transportation Auth	Refunding Bonds	N	LA	LEAD
01/07/21	71.500	California Infrstr & Eco Dev Bank	Refunding Revenue Bonds	N	CA	SOLE
01/07/21	228.500	California Infrstr & Eco Dev Bank	Refunding Revenue Bonds	N	CA	SOLE
01/07/21	89.580	Multnomah Co-Oregon	Full Faith & Credit Ref Oblig	C	OR	SOLE
01/12/21	79.000	Salt Lake Co (Canyons) SD BOE	General Obligation Bonds	C	UT	SOLE
01/12/21	52.345	San Diego Co (Escondido) USD	GO Refunding Bonds	N	CA	SOLE
01/12/21	99.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	CO-MGR
01/13/21	46.665	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	SOLE
01/14/21	250.000	Long Island Power Authority	Electric System Gen Rev Notes	N	NY	CO-MGR
01/14/21	34.995	Virginia Polytechnic Ins & State Univ	General Rev Pledge Ref Bonds	N	VA	CO-MGR
01/15/21	35.780	Greensboro City-North Carolina	Limited Obligation Bonds	N	NC	LEAD
01/20/21	117.285	Harris Co (Channelview) ISD	Unlimited Tax Schhool Bldg Bonds	C	TX	SOLE
01/21/21	99.250	Montgomery Co Hsg Opportunities Comm	Multi-Family Housing Dev Bonds	N	MD	LEAD
01/21/21	995.235	New Jersey Turnpike Authority	Turnpike Revenue Bonds	N	NJ	CO-MGR
01/21/21	7.920	Scottsdale Muni Property Corp	Excise Tax Rev Ref Bonds	N	AZ	LEAD
01/21/21	135.185	Scottsdale Muni Property Corp	Excise Tax Rev Ref Bonds	N	AZ	LEAD
01/21/21	76.870	Utah State Board of Regents	General Revenue Refunding Bonds	N	UT	CO-MGR
01/21/21	94.620	Utah State Board of Regents	General Revenue Refunding Bonds	N	UT	CO-MGR
01/26/21	50.000	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Demand Rev Bonds	N	CA	SOLE

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
01/26/21	125.000	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Demand Rev Bonds	N	CA	SOLE
01/26/21	135.010	Ohio Turnpike & Infrastructure Comm	Turnpike Revenue Bonds	N	OH	CO-MGR
01/26/21	4.365	Oregon	Revenue Bonds	N	OR	CO-MGR
01/26/21	26.260	Oregon	Revenue & Refunding Bonds	N	OR	CO-MGR
01/26/21	76.470	Scott Co (Shakopee) ISD #720	GO School Building Ref Bonds	N	MN	SOLE
01/26/21	38.295	University of Idaho Regents	General Revenue Ref Bonds	N	ID	SOLE
01/28/21	52.985	Amarillo City-Texas	General Obligation Bonds	C	TX	SOLE
01/28/21	557.505	Chicago City BOE	GO & Ref Dedicated Rev Bonds	N	IL	CO-MGR
01/28/21	37.135	Port Freeport-Texas	General Obligation Bonds	C	TX	SOLE
01/29/21	25.205	Colorado High Performance Trans Ent	Trans Enterprise Toll Rev Notes	P	CO	SOLE
02/02/21	95.000	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
02/02/21	197.725	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
02/03/21	205.435	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	C	NY	SOLE
02/04/21	900.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	LEAD
02/04/21	178.195	New Orleans City-Louisiana	Sewerage Svc Rev Ref Bonds	N	LA	CO-MGR
02/04/21	194.300	New Orleans City-Louisiana	Water Revenue Refunding Bonds	N	LA	CO-MGR
02/09/21	147.330	Austin City-Texas	Rental Car Spec Fac Rev Ref Bonds	N	TX	LEAD
02/09/21	68.659	Metropolitan Transport Auth (MTA)	Transportation Rev Green Bonds	C	NY	SOLE
02/09/21	160.206	Metropolitan Transport Auth (MTA)	Transportation Rev Green Bonds	C	NY	SOLE
02/09/21	713.365	Tennessee State School Bond Au	Higher Ed Facs 2nd Program Bonds	N	TN	CO-MGR
02/10/21	118.885	Florida Dept of Transportation	Federal Hwy Reimburse Rev Bonds	C	FL	LEAD
02/10/21	83.328	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
02/11/21	70.370	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
02/11/21	86.140	Galveston Co (Dickinson) ISD	School House Bonds	N	TX	CO-MGR
02/16/21	17.525	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
02/16/21	175.515	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
02/17/21	135.000	Florida Housing Finance Corp	Homeowner Mortgage Rev Bonds	N	FL	CO-MGR
02/17/21	169.985	Pulaski Co (No Little Rock) SD #1	Refunding Bonds	C	AR	SOLE
02/17/21	658.055	Tucson City-Arizona	Certificates of Participation	N	AZ	CO-MGR
02/18/21	50.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
02/18/21	81.590	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	LEAD
02/19/21	35.800	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
02/19/21	122.125	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
02/23/21	225.000	Mecklenburg Co-North Carolina	GO School Bonds	C	NC	SOLE
02/23/21	290.230	Regents of the Univ of California	General Revenue Bonds	N	CA	CO-MGR
02/23/21	1,089.330	Regents of the Univ of California	General Revenue Bonds	N	CA	CO-MGR
02/24/21	107.490	Galveston Co (Clear Creek) ISD	School Building Bonds	N	TX	CO-MGR
02/24/21	50.000	Maryland	GO State & Local Facs Loan Bonds	C	MD	SOLE
02/24/21	9.190	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
02/24/21	94.940	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
02/24/21	212.000	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
02/24/21	75.000	NYC Municipal Water Fin Auth	Wtr & Swr 2nd Gen Reso Rev Bonds	N	NY	CO-MGR
02/24/21	75.000	NYC Municipal Water Fin Auth	Wtr & Swr 2nd Gen Reso Rev Bonds	N	NY	CO-MGR
02/24/21	403.260	NYC Municipal Water Fin Auth	Wtr & Swr 2nd Gen Reso Rev Bonds	N	NY	CO-MGR
02/24/21	127.605	Nebraska Public Power Dt	General Revenue Bonds	N	NE	CO-MGR
02/24/21	269.810	Sacramento Co Sanit Dt Fin Au	Refunding Revenue Bonds	N	CA	CO-MGR
02/25/21	392.945	Regents of the Univ of California	Revenue Bonds	N	CA	CO-MGR
02/25/21	739.045	Regents of the Univ of California	Revenue Bonds	N	CA	CO-MGR
02/25/21	44.245	Unified Gov of Wyandotte Co/Kansas City	GO Improvement Bonds	C	KS	SOLE
02/25/21	95.250	Univ of North Carolina Bd of Gov	General Revenue Bonds	N	NC	CO-MGR
03/02/21	411.710	Regents of the Univ of California	Limited Project Revenue Bonds	N	CA	CO-MGR
03/03/21	46.420	Emery Co SD	General Obligation Bonds	C	UT	SOLE
03/03/21	219.240	Illinois Finance Authority	Revenue Bonds	N	IL	CO-MGR
03/03/21	23.060	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
03/03/21	101.940	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
03/04/21	88.810	Indiana Finance Authority	Environmental Improvement Bonds	N	IN	CO-MGR
03/04/21	119.735	Mississippi	General Obligation Bonds	N	MS	LEAD
03/04/21	361.385	New York City-New York	General Obligation Bonds	N	NY	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
03/04/21	900.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
03/09/21	148.490	Wisconsin	Transportation Revenue Bonds	N	WI	CO-MGR
03/10/21	116.150	San Diego Co Reg Trans Comm	Ltd Tx Sub Sales Tax Rev Bonds	N	CA	CO-MGR
03/10/21	149.840	San Diego Co Reg Trans Comm	Ltd Tx Sales Tax Rev Bonds	N	CA	LEAD
03/11/21	125.000	California	GO Various Purpose Bonds	N	CA	CO-MGR
03/11/21	1,717.060	California	GO Various Purpose & Ref Bonds	N	CA	CO-MGR
03/11/21	58.040	Hillsborough Co-Florida	Wstwr Impact Fee Special Assess	N	FL	CO-MGR
03/11/21	574.795	NYC Municipal Water Fin Auth	Municipal Wtr Finance Auth	N	NY	CO-MGR
03/12/21	14.055	Pitt Co-North Carolina	Limited Obligation Bonds	N	NC	SOLE
03/12/21	16.885	Pitt Co-North Carolina	Limited Obligation Bonds	N	NC	SOLE
03/16/21	90.420	Alaska Housing Finance Corp	State Capital Project Bonds	N	AK	LEAD
03/16/21	49.170	Montgomery Co (New Caney) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
03/16/21	20.910	Oregon	General Obligation Bonds	N	OR	CO-MGR
03/16/21	152.520	Oregon	General Obligation Bonds	N	OR	CO-MGR
03/16/21	436.725	Oregon	General Obligation Bonds	N	OR	CO-MGR
03/17/21	145.880	Florida Dept of Transportation	Refunding Bonds	C	FL	SOLE
03/17/21	143.250	Orlando Utilities Commission (OUC)	Utility Sytem Revenue Bonds	N	FL	LEAD
03/17/21	150.860	Orlando Utilities Commission (OUC)	Utility Sytem Revenue Bonds	N	FL	CO-MGR
03/17/21	15.000	Texas Dept of Hsg & Comm Affairs	Sustainable Multifamily Bonds	N	TX	SOLE
03/18/21	186.720	Wake Co-North Carolina	GO Public Improvement Bonds	N	NC	LEAD
03/19/21	291.640	NYS Dorm Authority	St Personal Income Tax Rev Bonds	N	NY	CO-MGR
03/19/21	1,871.420	NYS Dorm Authority	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
03/19/21	34.015	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
03/19/21	96.780	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
03/19/21	17.865	North Carolina Housing Fin Agcy	Home Ownership Rev Ref Bonds	N	NC	CO-MGR
03/19/21	150.000	North Carolina Housing Fin Agcy	Home Ownership Rev Bonds	N	NC	CO-MGR
03/23/21	695.475	California St Public Works Board	Lease Revenue Ref Bonds	N	CA	LEAD
03/23/21	8.225	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Proj Class I Bonds	N	CO	CO-MGR
03/23/21	20.895	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Proj Class I Bonds	N	CO	CO-MGR
03/23/21	244.185	Ctl Texas Reg Mobility Au (CTRMA)	Sub Lien Revenue BANS	N	TX	CO-MGR
03/23/21	255.075	Ctl Texas Reg Mobility Au (CTRMA)	Senior Lien Revenue Bonds	N	TX	CO-MGR
03/23/21	48.025	Georgetown City-Texas	Comb Tx Surplus Pub Contract Ob	P	TX	SOLE
03/23/21	149.990	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Prog Bonds	N	TN	CO-MGR
03/24/21	67.400	Arizona Board of Regents	System Revenue Bonds	N	AZ	CO-MGR
03/24/21	94.405	Arizona Board of Regents	System Revenue Bonds	N	AZ	CO-MGR
03/24/21	121.450	Arizona Board of Regents	System Revenue Bonds	N	AZ	CO-MGR
03/24/21	52.995	California Educational Facs Auth	Revenue Bonds	N	CA	SOLE
03/24/21	746.005	Maryland Transportation Auth	Transportation Facs Proj Rev Bond	N	MD	CO-MGR
03/24/21	1,001.070	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
03/24/21	294.020	San Jose City-California	Airport Revenue Ref Bonds	N	CA	CO-MGR
03/25/21	47.430	Allegheny Co Hospital Dev Auth	Revenue Bonds	N	PA	CO-MGR
03/25/21	39.145	Calleguas Municipal Water Dt	Water Revenue Ref Bonds	N	CA	SOLE
03/25/21	11.095	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/25/21	26.705	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/25/21	35.245	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/25/21	45.000	Orange Co (Irvine) USD	General Obligation Bonds	C	CA	SOLE
03/25/21	221.860	Pennsylvania Econ Dev Fin Auth	Revenue Bonds	N	PA	CO-MGR
03/25/21	146.490	San Diego Co Water Auth	Sub Ln Water Rev Ref Bonds	N	CA	CO-MGR
03/31/21	58.865	Government of Guam	Hotel Occupancy Tx Rev Ref Bonds	N	GU	CO-MGR
03/31/21	330.700	San Antonio City-Texas	Electric & Gas Sys Jr Ln Ref Bond	N	TX	CO-MGR
03/31/21	181.265	University of Pittsburgh	Pitt Asset Notes	N	PA	CO-MGR
04/01/21	18.785	Troy Industrial Dev Board	Industrial Development Bonds	N	AL	SOLE
04/06/21	29.740	Lawrence City-Kansas	GO Improvement Bonds	C	KS	SOLE
04/06/21	2.350	Purdue Univ Board of Trustees	Certificates of Participation	N	IN	LEAD
04/06/21	29.935	Purdue Univ Board of Trustees	Certificates of Participation	N	IN	LEAD
04/06/21	117.145	San Diego Public Facs Fin Auth	Lease Revenue Bonds	N	CA	CO-MGR
04/07/21	21.000	Austin Housing Finance Corp	Multi-Family Mtg-Backed Bonds	N	TX	SOLE
04/07/21	300.400	California Educational Facs Auth	Revenue Bonds	N	CA	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
04/07/21	21.260	Caroline Co-Virginia	Water & Sewer System Rev Bonds	C	VA	SOLE
04/07/21	548.175	Central Florida Expressway Au	Sr Lien Refunding Rev Bonds	N	FL	LEAD
04/07/21	37.870	Florence Co Public Facilities Corp	Installment Purchase Rev Ref Bond	N	SC	SOLE
04/07/21	129.070	San Francisco City & Co Airport Comm	Revenue Refunding Bonds	N	CA	CO-MGR
04/07/21	195.225	San Francisco City & Co Airport Comm	Revenue Refunding Bonds	N	CA	CO-MGR
04/07/21	222.810	San Francisco City & Co Airport Comm	Revenue Refunding Bonds	N	CA	CO-MGR
04/07/21	381.865	Univ of Texas Sys Bd of Regents	Revenue Financing System Bonds	N	TX	LEAD
04/08/21	240.985	California	Various Purpose GO & Ref Bonds	C	CA	SOLE
04/08/21	29.755	Clayton Co Development Authority	Revenue Bonds	N	GA	SOLE
04/08/21	50.195	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds	N	MA	CO-MGR
04/08/21	56.265	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds	N	MA	CO-MGR
04/08/21	544.770	Massachusetts Bay Transport Auth	Subordinated Sales Tax Bonds	N	MA	CO-MGR
04/08/21	19.840	San Antonio Hsg Trust Fin Corp	Multi-Family Housing Rev Bonds	N	TX	SOLE
04/08/21	101.620	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
04/13/21	14.190	Oregon Dept of Admin Services	Revenue Refunding Bonds	N	OR	CO-MGR
04/13/21	109.915	Oregon Dept of Admin Services	Revenue Refunding Bonds	N	OR	CO-MGR
04/13/21	69.235	Palm Beach Co-Florida	Public Improvement Rev Ref Bonds	C	FL	SOLE
04/13/21	827.580	Pennsylvania Econ Dev Fin Auth	Revenue Bonds	N	PA	CO-MGR
04/13/21	10.050	Wilmington City-North Carolina	GO Refunding Bonds	C	NC	SOLE
04/14/21	40.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
04/14/21	74.000	Texas Dept of Hsg & Comm Affairs	Sustainable Multi-Family Bonds	N	TX	SOLE
04/20/21	7.060	American Municipal Power Inc	Revenue Bonds	N	OH	CO-MGR
04/20/21	91.185	American Municipal Power Inc	Revenue Bonds	N	OH	CO-MGR
04/20/21	1,076.210	California	Var Purp GO Refunding Bonds	N	CA	CO-MGR
04/20/21	77.790	Virginia Public School Authority	School Financing Bonds	C	VA	SOLE
04/21/21	3.790	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
04/21/21	27.210	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
04/21/21	54.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
04/21/21	17.290	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
04/21/21	47.455	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
04/21/21	132.825	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
04/21/21	87.940	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
04/21/21	124.395	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
04/21/21	150.000	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	LEAD
04/21/21	101.940	Orange Co School Board	Certificates of Participation	N	FL	CO-MGR
04/21/21	300.000	Pima Co-Arizona	Pledged Revenue Obligations	N	AZ	CO-MGR
04/23/21	144.190	Connecticut	Special Tax Oblig Ref Bonds	N	CT	CO-MGR
04/23/21	886.695	Connecticut	Special Tax Oblig & Ref Bonds	N	CT	CO-MGR
04/28/21	304.500	New Jersey Trans Trust Fund Au	Transportation System Bonds	N	NJ	CO-MGR
04/28/21	580.420	New Jersey Trans Trust Fund Au	Transportation System Bonds	N	NJ	CO-MGR
04/28/21	589.250	New Jersey Trans Trust Fund Au	Transportation Program Bonds	N	NJ	CO-MGR
04/28/21	99.035	Northern Illinois Univ Brd of Rgt	Auxiliary Facs System Rev Bonds	N	IL	CO-MGR
05/05/21	86.065	Maine Hlth & Hghr Ed Facs Auth	Revenue Bonds	N	ME	CO-MGR
05/05/21	156.870	Maine Hlth & Hghr Ed Facs Auth	Revenue Bonds	N	ME	CO-MGR
05/05/21	75.930	Miami University	General Receipts Rev & Ref Bonds	N	OH	CO-MGR
05/05/21	66.890	Milledgeville-Baldwin Co Dev Auth	Revenue Bonds	N	GA	SOLE
05/05/21	31.520	Tulsa Co (Jenks) ISD #5	Combined Purpose Bonds	C	OK	SOLE
05/05/21	40.020	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	LEAD
05/05/21	40.860	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	LEAD
05/05/21	75.495	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	LEAD
05/06/21	80.545	Los Angeles Co (Norwalk-La Mirada) USD	General Obligation Bonds	N	CA	SOLE
05/07/21	71.230	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
05/10/21	29.380	Galveston ISD	Refunding Bonds	N	TX	CO-MGR
05/11/21	1.900	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
05/11/21	5.100	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
05/11/21	9.100	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
05/11/21	101.125	Energy Northwest	Electric Revenue & Ref Bonds	N	WA	LEAD
05/11/21	610.600	Energy Northwest	Electric Revenue & Ref Bonds	N	WA	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
05/11/21	17.695	Indiana Finance Authority	Educ Fac Ref Revenue Bonds	N	IN	SOLE
05/11/21	6.785	Orange Co (Huntington Beach) UHSD	Ref Certificates of Participation	N	CA	SOLE
05/12/21	49.022	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
05/12/21	22.105	North Charleston Pub Fac Corp	Installment Purchase Rev Bonds	N	SC	SOLE
05/12/21	39.755	North Charleston Pub Fac Corp	Installment Purchase Ref Bonds	N	SC	SOLE
05/12/21	10.605	Plano City-Texas	Waterworks & Swr Sys Rev Bonds	C	TX	SOLE
05/12/21	71.630	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
05/13/21	35.820	Bulloch Co Development Authority	Revenue Bonds	N	GA	SOLE
05/13/21	216.200	Fairfax Co-Virginia	Sewer Revenue & Ref Bonds	N	VA	CO-MGR
05/13/21	120.000	North Dakota Hsg Fin Agcy	Housing Finance Program Bonds	N	ND	CO-MGR
05/13/21	103.930	Orange Co (Huntington Beach) UHSD	GO Refunding Bonds	N	CA	SOLE
05/18/21	39.450	University of Louisville	General Receipts Bonds	C	KY	SOLE
05/19/21	500.000	Colorado	Certificates of Participation	N	CO	CO-MGR
05/19/21	13.700	Glendale City-Arizona	General Obligation Bonds	N	AZ	CO-MGR
05/19/21	155.240	Louisiana	Grant Anticipation Rev Bonds	N	LA	LEAD
05/19/21	24.020	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
05/19/21	154.145	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
05/19/21	41.070	Plymouth Town-Massachusetts	GO Municipal Purpose Loan Bonds	C	MA	SOLE
05/19/21	82.340	University of Cincinnati	General Receipts & Ref Bonds	N	OH	LEAD
05/19/21	25.670	West Virginia University Bd of Gov	Improvement Revenue Bonds	N	WV	CO-MGR
05/19/21	45.005	West Virginia University Bd of Gov	Improvement Revenue Bonds	N	WV	CO-MGR
05/20/21	38.895	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
05/20/21	136.675	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
05/20/21	32.920	Wisconsin Public Finance Auth	Revenue & Refunding Bonds	N	WI	LEAD
05/20/21	34.080	Wisconsin Public Finance Auth	Revenue Bonds	N	WI	LEAD
05/21/21	300.000	Charlotte-Mecklenburg Hosp Auth	Health Care Revenue Bonds	N	NC	CO-MGR
05/21/21	300.000	Charlotte-Mecklenburg Hosp Auth	Health Care Revenue Bonds	N	NC	CO-MGR
05/21/21	50.100	Univ of North Carolina Bd of Gov	General Revenue Refunding Bonds	N	NC	SOLE
05/25/21	16.300	California Housing Finance Agcy	Multi-Family Mtg-Backed Rev Bonds	N	CA	SOLE
05/25/21	3.630	Collin Co (Frisco) ISD	Refunding Bonds	N	TX	LEAD
05/25/21	36.550	Collin Co (Frisco) ISD	Refunding Bonds	N	TX	LEAD
05/25/21	105.175	Florida Development Fin Corp	Solid Waste Disposal Rev Bonds	N	FL	CO-MGR
05/25/21	22.720	Glendale City-Arizona	Water & Sewer Revenue Bonds	N	AZ	LEAD
05/25/21	17.355	Indiana Finance Authority	Educational Facs Ref Rev Bonds	N	IN	SOLE
05/25/21	6.210	Wake Forest Town-North Carolina	GO Public Improvement Bonds	C	NC	SOLE
05/25/21	22.790	Williamson Co (Leander) ISD	Refunding Bonds	N	TX	CO-MGR
05/25/21	108.960	Williamson Co (Leander) ISD	Refunding Bonds	N	TX	CO-MGR
05/25/21	160.070	Williamson Co (Leander) ISD	Refunding Bonds	N	TX	CO-MGR
05/26/21	26.705	Baseline Metro Dt #1	Sub & Special Revenue Bonds	N	CO	SOLE
05/26/21	137.205	Hawaii	Highway Revenue Bonds	N	HI	LEAD
05/26/21	11.755	Louisiana Gov Env Fac & CDA (LCDA)	Revenue Bonds	N	LA	SOLE
05/26/21	16.145	Montgomery Co Hsg Opportunities Comm	Multi-Family Housing Dev Bonds	N	MD	CO-MGR
05/27/21	39.245	Will Co-Illinois	GO Alt Revenue Source Bonds	N	IL	SOLE
06/02/21	12.675	Contra Costa Transportation Auth	Sales Tax Rev Ltd Tx Ref Bonds	N	CA	LEAD
06/02/21	97.240	Contra Costa Transportation Auth	Sales Tax Rev Ltd Tx Ref Bonds	N	CA	LEAD
06/02/21	25.800	Pennsylvania Housing Fin Agcy (PHFA)	Spec Ltd Oblig Multi-Fam Hsg Bond	N	PA	SOLE
06/02/21	12.240	Salt Lake & Sandy Metro Water Dt	Water Revenue Refunding Bonds	N	UT	SOLE
06/02/21	43.340	Salt Lake & Sandy Metro Water Dt	Water Revenue Refunding Bonds	N	UT	SOLE
06/03/21	19.160	Iowa State Board of Regents	Dormitory Revenue Bonds	C	IA	SOLE
06/03/21	19.685	Orlando Utilities Commission (OUC)	Utility System Revenue Ref Bonds	N	FL	CO-MGR
06/03/21	124.470	Rhode Island Hlth & Ed Bldg Corp	Pub Sch Rev Bond Fin Prog Bonds	N	RI	CO-MGR
06/03/21	82.220	Seattle City-Washington	Water System Imp & Ref Rev Bonds	C	WA	SOLE
06/04/21	73.420	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds	N	MI	CO-MGR
06/04/21	247.670	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds	N	MI	CO-MGR
06/08/21	126.010	Charlotte-Mecklenburg Hosp Auth	Health Care Refunding Rev Bonds	N	NC	CO-MGR
06/08/21	39.340	Garland City-Texas	GO Refunding Bonds	C	TX	SOLE
06/08/21	407.775	Georgia	General Obligation Bonds	C	GA	SOLE
06/09/21	13.605	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR

Source: Refinitiv as of June 30, 2021

Sale Date	Par (\$ mils)	Issuer	Issue Description	Bid	State	Role
06/09/21	42.595	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/09/21	50.655	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/09/21	97.095	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	CO-MGR
06/09/21	31.305	New Mexico Finance Auth (NMFA)	Sub Ln Pub Proj Revolv Fund Bond	N	NM	CO-MGR
06/09/21	55.370	Piedmont Muni Power Agency	Electric Revenue Ref Bonds	N	SC	LEAD
06/09/21	50.785	Sarpy Co-Nebraska	Hwy Alloc Fund Pledge Bonds	C	NE	SOLE
06/09/21	23.360	Savannah Economic Dev Auth	Revenue Refunding Bonds	N	GA	SOLE
06/09/21	333.630	West Virginia Parkways Auth	Sr Ln Turnpike Toll Rev Bonds	N	WV	LEAD
06/10/21	138.755	Anaheim Public Financing Auth	Lease Revenue Bonds	N	CA	CO-MGR
06/10/21	30.604	Atlantic Co (Buena) RSD	School Bonds	C	NJ	SOLE
06/10/21	38.885	Douglas-Arizona	Pledged Revenue Obligations	N	AZ	CO-MGR
06/10/21	50.515	Massachusetts	Commonwealth Trans Fund Rev Bonds	N	MA	CO-MGR
06/10/21	162.200	Massachusetts	Commonwealth Trans Fund Rev Bonds	N	MA	CO-MGR
06/10/21	187.285	Massachusetts	Commonwealth Trans Fund Rev Bonds	N	MA	CO-MGR
06/10/21	289.355	Massachusetts	Commonwealth Trans Fund Rev Bonds	N	MA	CO-MGR
06/10/21	163.772	Memphis-Shelby IDB Eco Dev Grow Engine	Local Gov Public Imp Bonds	N	TN	CO-MGR
06/10/21	5.650	Montgomery Co Hsg Opportunities Comm	Single Family Mortgage Rev Bonds	N	MD	CO-MGR
06/10/21	22.750	Montgomery Co Hsg Opportunities Comm	Single Family Mortgage Rev Bonds	N	MD	CO-MGR
06/10/21	40.015	Upper Trinity Regional Water Dt	Reg Treated Wtr Supp Sys Ref Bond	N	TX	CO-MGR
06/15/21	122.480	Charleston City-South Carolina	Wtrwrks & Swr Sys Ref Rev Bonds	N	SC	LEAD
06/15/21	309.275	Idaho Energy Resources Auth	Transmission Facs Rev Bonds	N	ID	CO-MGR
06/15/21	52.285	Manassas City-Virginia	GO Public Improvement & Ref Bonds	C	VA	SOLE
06/15/21	37.230	Wisconsin Public Finance Auth	Health Care Facs Rev Bonds	N	WI	LEAD
06/16/21	241.895	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
06/16/21	258.310	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
06/16/21	32.165	NYS Dorm Authority	State Personal Income Tax Bonds	N	NY	CO-MGR
06/16/21	1,825.620	NYS Dorm Authority	State Personal Income Tax Bonds	N	NY	CO-MGR
06/16/21	284.745	NYS Environmental Facs Corp	St Clean & Drinking Wtr Fund Bond	N	NY	CO-MGR
06/16/21	80.000	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
06/17/21	6.430	Franklin City-Virginia	General Obligation Bonds	C	VA	SOLE
06/17/21	114.315	Oklahoma Muni Power Auth (OMPA)	Power Supply System Rev Ref Bonds	N	OK	CO-MGR
06/17/21	172.015	Oklahoma Muni Power Auth (OMPA)	Power Supply System Rev Ref Bonds	N	OK	CO-MGR
06/22/21	32.050	Santa Clara Co (Evergreen) SD	General Obligation Bonds	N	CA	SOLE
06/23/21	60.000	Collin Co (Melissa) ISD	School Building Bonds	N	TX	CO-MGR
06/23/21	5.655	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
06/23/21	5.960	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
06/23/21	32.965	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
06/23/21	34.805	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
06/23/21	48.460	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
06/23/21	81.795	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	CO-MGR
06/23/21	167.755	Tennessee	General Obligation Bonds	N	TN	CO-MGR
06/23/21	490.910	Tennessee	GO Refunding Bonds	N	TN	CO-MGR
06/24/21	10.000	Lexington Ind Dev Auth	Educational Facs Rev Ref Bonds	N	VA	SOLE
06/24/21	15.810	Lexington Ind Dev Auth	Educational Facs Rev Ref Bonds	N	VA	SOLE
06/24/21	39.825	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
06/24/21	94.655	Northern Tobacco Sec Corp	Tobacco Settle Assect-Backe Bonds	N	AK	CO-MGR
06/24/21	187.825	Northern Tobacco Sec Corp	Tobacco Settle Assect-Backe Bonds	N	AK	CO-MGR
Total	250,085.853					



Disclosures (Continued):

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rate used in your LIBOR-based swap, SBS, or financing transactions. Therefore, if LIBOR is discontinued during the term of your swap or SBS, your payments would be calculated differently and could be higher or more volatile than expected. These risks and others are discussed in greater detail at the IBOR Alternative Reference Rates disclosure at: [Swap Disclosures](#). Other information is available at: <https://www.wellsfargo.com/con/focus/libor/>.

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