



DEPARTMENT OF FINANCE

DATE REC'D: JUN 24 2024

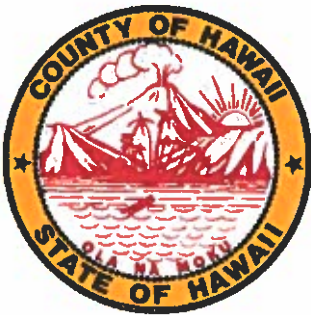
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Corporate &
Investment Banking



County of Hawaii

Statements of Qualification and Expressions of Interest
Public Finance Bond Underwriting Services
(HRS 103D-304)

June 30, 2024



June 30, 2024

Ms. Diane Nakagawa, *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 (HRS 103D-304) (FN.10)

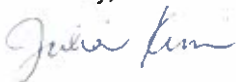
Dear Diane:

Thank you for this opportunity to present our statement of qualifications and expression of interest to provide public finance bond underwriting services (FN.10) to the County of Hawaii (the "County"). Wells Fargo Corporate & Investment Banking ("Wells Fargo" or "WFCIB") is committed to providing governmental entities with a full range of financial products and services. Below we highlight some of Wells Fargo's key attributes that we believe will make us a valuable financial partner to the County.

- **Understanding the Nuances of an Island Economy.** Over the past decade, Wells Fargo has had the privilege of serving as a public finance bond underwriter for various entities across the State of Hawaii. This vast experience has afforded us the deep knowledge and appreciation of operating as an island economy and how to communicate those nuances to the investing community. Specifically, we have served as the lead underwriter on \$220 million of General Obligation Bonds for the County of Maui, co-manager on nearly \$4 billion of GO Bonds for the State of Hawaii, co-senior and co-manager on \$1 billion of Revenue Bonds for the State of Hawaii Department of Transportation.
- **Local Presence.** Wells Fargo & Company ("WFC") is proud to be one of a few national financial institutions to maintain a local presence across the State. Wells Fargo Clearing Services, LLC, our retail brokerage affiliate, provides financial advisory services to local high net worth residents across the islands. Our national retail platform of nearly 9,000 financial advisors includes 27 financial advisors within the State of Hawaii. These local financial advisors manage over \$5.5 billion of assets for residents within the State. Additionally, and equally important, our sales team also covers local investors including regional banks, money managers, and smaller investment funds who they have maintained relationships with for over 30 years.
- **Capital Power.** As a bank dealer, WFCIB has access to the capital base of Wells Fargo Bank, N.A., which as of March 31, 2024, totaled approximately \$163.8 billion.¹ This capital strength differentiates us from our competitors, giving us the ability to support our pricings in even extremely volatile market conditions, which was tested during the COVID-19 pandemic. Wells Fargo continues to demonstrate conviction and leadership in the municipal market.

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 work with 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,



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

¹ Source: WFBNA Call Report as of March 31, 2024



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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 Corporate & Investment Banking and Wells Fargo Securities (each referred to herein as “CIB” and may be referred to elsewhere as “WFS”) are trade names used for the corporate banking, capital markets and investment banking services of Wells Fargo & Company (“WFC”) and its subsidiaries, including but not limited to Wells Fargo Bank, N.A. (“WFBNA”), a member of the National Futures Association, and Wells Fargo Bank, N.A. Municipal Finance Group, a separately identifiable department of WFBNA which is registered with the U.S. Securities and Exchange Commission (“SEC”) as a municipal securities dealer.

Commercial banking products and services are provided by Wells Fargo Bank, N.A. (“WFBNA”). Investment banking and capital markets products and services provided by CIB are not a condition to any banking product or service.

CIB, as potential underwriter or placement agent (together with any of its affiliates as context may require, “we”, or “Wells Fargo”) is 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 have or are 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”) on the transaction(s) described in the Materials. As part of its services as underwriter, CIB may provide information concerning the structure, timing, terms, and other similar matters concerning the issue of municipal securities that CIB 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 CIB in the context of serving as an underwriter and not as your municipal or financial advisor. Additionally, CIB, as underwriter, has financial and other interests that differ from your interests (or those of the issuer). In its capacity as underwriter, CIB’s 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 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”). 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.

CIB 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, WFCS, 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. Any secondary market trading data or information referenced herein represents the secondary market trading data or information of WFBNA MFG and/or WFSLLC unless otherwise noted. Source information for any ranking information not otherwise provided herein is available on request.

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 issuance of municipal securities, are provided to you in reliance upon the Bank, RFP, IRMA exemptions and underwriter exclusion, as applicable, provided under the Muni Advisor Rules. In the event the 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.

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 as purchaser / investor ("Purchaser"). CIB 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 CIB. The information contained herein regarding Purchaser's Direct Purchase is being provided to you by CIB 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 WFBNA, 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 CIB 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 has more than 4,300 retail bank branches across the country.² We currently have a market capitalization of \$201 billion, which is the third largest amongst all U.S. Banks.³

Wells Fargo Corporate & Investment Banking (“WFCIB”) 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”) and 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 through the 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 financial tools. For the County, this means that all activities including investment banking, direct purchases, credit, and treasury management products are accessed through one team 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 has been a public finance banker for two decades 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 in the states of Hawaii, California, and Washington. More specifically, Julia has dedicated her efforts to support over \$9 billion of financings within the State since 2012 and actively works with the Wells Fargo Clearing Services retail brokers sales team to market bonds to local retail investors in Hawaii. Julia has also served as the lead banker on back-to-back sole managed financings for the County of Maui since 2020.

Corporate & Investment Banking

Julia Kim
 Managing Director
 Public Finance – West Region

Wells Fargo Bank, N.A.
 333 S. Grand Ave., 9th Fl
 Los Angeles, CA 90071
 Tel 213-253-7252
 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 Corporate & Investment Banking 333 South Grand Avenue, 9 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., 9 th Fl., Los Angeles, CA 90071	NC	550 S. Tryon Street, Charlotte, NC, 28202
	333 Market Street, San Francisco, CA, 94105	NY	30 Hudson Yards, 15 th Fl., New York, NY, 10001
CO	1675 Broadway, Denver, CO 80202	PA	123 S. Broad Street, Philadelphia, PA, 19107
FL	100 S Ashley Drive, 10 th Fl., Tampa, FL 33602	TX	1000 Louisiana Street, Houston, TX 77002
	333 Avenue of the Americas, Miami, FL 33131		111 Congress Ave Austin, TX, 78701
IL	10 S. Wacker Drive., 5 th Fl., Chicago, IL 60606	DC	1700 K St NW, 9 th Fl., Washington, DC 20006
MS	188 E Capitol Street, Jackson, MS 39201		

² Source: Wells Fargo 2023 Annual Report
³ Source: Bloomberg as of March 31, 2024



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

Years in Business. Wells Fargo & Co. 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.

WFC and Public Finance (PF) Employees			
Year	Company	PF Banking	PF Sales & Trading
2019	247,938	88	56
2020	238,609	95	48
2021	212,091	88	34
2022	196,262	85	33
2023	232,220	84	31

Source: WFC Internal Data

Presence in the State of Hawaii. Wells Fargo is actively conducting business in the State of Hawaii and has been since 1973. We maintain various operations within the State and employ 62 professionals across the islands. Most relevant to public finance bond underwriting is our retail brokerage office through our affiliate, Wells Fargo Clearing Services, LLC (dba Wells Fargo Advisors). Wells Fargo Advisors maintains 27 local 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 they actively communicate to their local clients about upcoming bond transactions. This partnership has worked well and grown over the past decade.

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 in-person and virtual meetings and conference calls as requested. The following table displays our comprehensive team, which includes investment banking as well as professionals from our specialty teams, sales, trading and underwriting, quantitative analytics, and government banking partners.

Wells Fargo Corporate & Investment Banking Team to the County of Hawaii				
Name	Title	Responsibility	Office Location	Years in Industry
Public Finance Investment Banking				
Julia Kim	Managing Director	Primary Contact	Los Angeles, CA	20 Years
Michael Engelbrecht	Managing Director	Head of West Region Public Finance	Los Angeles, CA	30 Years
Kristen Fontana	Director	Credit Strategy	New York, NY	15 Years
Evan Watson	Associate	Deal Execution Support	Los Angeles, CA	2 Years
Grace Zhu	Analyst	Deal Execution Support	Los Angeles, CA	1 Year
Municipal Sales, Trading and Underwriting Team				
Parks Lineberger	Managing Director	Fixed Rate Underwriter	Charlotte, NC	16 Years
Will Illingworth	Director	Short-Term Underwriter	Charlotte, NC	17 Years
Rebekah Wales	Director	Head of Business Execution	Charlotte, NC	12 Years
Capital Strategies and Debt Solutions				
Scott Goldstein	Director	Quantitative Expert	Denver, CO	33 Years
Matt Antunes	Director	Direct Purchases	Charlotte, NC	13 Years
Wells Fargo Bank, N.A. Government Banking				
Lynn Love	Senior Vice President	Relationship Manager	Los Angeles, CA	29 Years



Julia Kim will continue to serve as the primary contact to the County. Julia joined Wells Fargo in May of 2009 after her five-year tenure with Bank of America Securities’ Public Finance Investment Banking group. She has 20 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 in the western region of the United States. More specifically, she has served as the lead banker to sole managed financings for the County of Maui and co-senior managed financings for the State’s Department of Transportation- Highways Division. Julia received her B.A. in Economics and a minor in Business Administration from the University of California, Berkeley.



Michael Engelbrecht is Co-Head of the West Region Public Finance Investment Banking group and will support the County from a senior management level. Michael has more than 30 years of capital markets experience during which he has provided investment banking services to water utilities, special districts and general municipal clients nationally. His water/wastewater utility experience includes senior managed financings totaling in excess of \$15



billion for over 140 separate water utility deals since 2015 and includes serving as senior and sole manager on financings for agricultural water agencies, urban water agencies, wholesale water agencies and direct retail water agencies. During his tenure at Wells Fargo, Michael has assisted issuers obtain initial credit ratings on 28 transactions with an aggregate par amount of approximately \$1 billion. Michael has also assisted clients with several unique financing structures including securitizations of third-party contracts for underground water banking facilities. Michael holds a Master's Degree in Finance from the University of Southern California and a bachelor's degree in business economics from Wheaton College.



Kristen Fontana serves as the banking team's credit strategist and will work closely with the County to develop and provide guidance on content and structure for credit presentations to investors and rating agencies. Kristen joined Wells Fargo 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.



Evan Watson joined Wells Fargo in May 2022 and provides quantitative and deal execution support for a variety of western region issuers. Since joining Wells Fargo, Evan has worked on a variety of credits across the United States including utility revenue, lease revenue, higher education, and special bonds for issuers such as the State of California, the City of Tucson, Southern California Public Power Authority, Los Angeles Department of Water and Power, and Sacramento Municipal Utility District, among others. Prior to joining Wells Fargo, Evan worked as an auditor for EY. Evan graduated from Gonzaga University with a B.A in Finance, B.B.A. in Accounting, and a minor in Leadership Studies.



Grace Zhu joined Wells Fargo CIB upon graduation in June 2023 and is responsible for providing day-to-day analytical, quantitative, and transaction support for a variety of municipal clients throughout the West. She holds a B.S. in Business from New York University Stern School of Business.

Municipal Sales, Trading & Underwriting



Parks Lineberger is a Managing Director and Co-Head of the Underwriting Desk. His career with Wells Fargo consists of over 17 years within the municipal finance group. Parks will be responsible for the marketing and sale of the County's bond transactions and will provide pricing details and general market updates and the impact of market movements on the County's financings. His experience includes, but is not limited to, GO bonds, revenue bonds, lease revenue, housing, water and wastewater revenue transactions, and other credits including healthcare, higher education, taxable, and corporate municipalities throughout the U.S. Parks holds a B.S. degree in Finance and Accounting from North Carolina State University.



Will Illingworth joined Wells Fargo in 2006 and currently serves as the firm's short-term underwriter nationally. He also works closely with the underwriting team to ensure a smooth execution and clear communication with the syndicate by providing preliminary and final pricing wires and coordinating with the sales team and underwriters. Will holds a B.S. in Business Administration, Finance & Corporate Real Estate from the University of South Carolina as well as a M.B.A. from the University of South Carolina, Moore School of Business.



Rebekah Wales currently serves as the Head of Business Execution and joined Wells Fargo's Municipal Finance Group in 2011 after four years of service in the public sector. Rebekah's roles within Wells Fargo focuses on regulatory risk mitigation, both for Public Finance transactions and on the Syndicate Desk. She focuses on ensuring adherence to all regulatory requirements while providing seamless execution for Wells Fargo's clients. Rebekah will work closely with Parks and Will and the sales team as she is 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 to all syndicate members. She has a B.A. in English and a Juris Doctorate from the University of Alabama School of Law.



Capital Strategies and Debt Solutions



Scott Goldstein joined Wells Fargo Securities in 1993 (via merger with A.G. Edwards). He has 34 years of experience in investment banking as a quantitative specialist with an 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 financial solutions. His primary focus has been in the area of higher education, system revenue and general infrastructure issues. He has been instrumental in developing and applying several refunding innovations, providing analytical decision-making framework for cash market and derivative solutions, as well as, improving escrow efficiencies to help issuers lower their cost of capital or overall funding cost. Scott is a graduate of the University of Maryland, College Park, Maryland, where he earned a B.S. degree in business with an emphasis in finance and accounting. He received his M.B.A. degree in finance from George Washington University, Washington, D.C.

Matt Antunes joined Wells Fargo in 2011 where he specializes in structured lending to municipal entities. He will be responsible for pricing any Direct Purchases on behalf of the County. Prior to his tenure at Wells Fargo, he had spent the previous six years at Bank of America Merrill Lynch. Matt has worked in a number of capacities including short-term municipal trading, Tender Option Bonds, and Public Finance Banking. Matt graduated from the University of Virginia.

Government Banking



Lynn Love from Wells Fargo Bank, N.A.'s commercial banking team, will serve as the County's Relationship Manager. She has the primary responsibility for all aspects of the County's traditional banking relationship including treasury management and lockbox services. Lynn brings over 25 years of government banking experience to her role at Wells Fargo, where she has worked for 20 years. Lynn earned her degree in economics from the University of La Verne.

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.

Wells Fargo 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.

<p>State of Hawaii \$750,000,000 Taxable General Obligation Bonds of 2023 Series GM</p> <p>Sale Date: December 2023 Rating: Aa2 / AA+ / AA Final Maturity: October 1, 2042 Tax-Status: Taxable</p> <p>Co-Manager</p> <p>WELLS FARGO Corporate & Investment Banking</p>	<p>County of Maui \$60,875,000 General Obligation Bonds Series 2022</p> <p>Sale Date: August 2022 Rating: Aa1 / AA+ / AA+ Final Maturity: March 1, 2042 Tax-Status: Tax-Exempt</p> <p>Sole Manager</p> <p>WELLS FARGO Corporate & Investment Banking</p>	<p>State of Hawaii \$1,882,955,000 General Obligation Bonds Series GD, GE, GF, GG, GH, GI, GJ</p> <p>Sale Date: September 29, 2021 Rating: Aa2 / AA+ / AA Final Maturity: October 1, 2041 Tax-Status: Exempt & Taxable</p> <p>Selling Group</p> <p>WELLS FARGO Corporate & Investment Banking</p>	<p>County of Maui \$84,740,000 General Obligation Bonds Series 2021</p> <p>Sale Date: August 8, 2021 Rating: Aa1/AA+/AA+ Final Maturity: March 1, 2041 Tax-Status: Tax-Exempt</p> <p>Sole Manager</p> <p>WELLS FARGO Corporate & Investment Banking</p>	<p>State of Hawaii DOT \$137,205,000 Highway Revenue Bonds Series 2021</p> <p>Sale Date: May 26, 2021 Rating: Aa2/AA+ Final Maturity: January 1, 2041 Tax-Status: Tax-Exempt</p> <p>Co-Senior Manager</p> <p>WELLS FARGO Corporate & Investment Banking</p>
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In the adjacent table we summarize our experience as both a senior and co-manager for public finance bond issues since 2020. Further in **Appendix I** we provide our full detailed list of transactions in which WFCIB has served as a senior or co-manager from January 2020 to present.

Year	Senior Manager		Co-Manager	
	Par (\$000s)	# of Deals	Par (\$000s)	# of Deals
2020	\$44,223	299	\$86,757	406
2021	28,652	286	72,327	360
2022	29,927	218	56,931	270
2023	17,388	116	31,202	151
2024 YTD	15,717	91	44,611	155



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 Wells Fargo and its professionals have provided.

Client References		
<p style="text-align: center;">Mr. Steve Tesoro Internal Controls County of Maui 200 South High Street Wailuku, Hawaii 96793 (808) 270-7722 steve.tesoro@co.maui.us</p>	<p style="text-align: center;">Ms. Tammy Lee Deputy Director, Administration State of Hawaii Dept of Transportation 869 Punchbowl Street Honolulu, Hawaii 96813 (808) 587-2218 tammy.l.lee@hawaii.gov</p>	<p style="text-align: center;">Mr. Kalbert Young VP / Chief Financial Officer University of Hawaii System 2444 Dole Street Honolulu, Hawaii 96822 (808) 956-8903 kalbert@hawaii.edu</p>
<p style="text-align: center;">Mr. Louis McClure Finance Team Lead County of Orange 400 West Civic Center Drive Santa Ana, CA 92701 (714) 834-5999 Louis.McClure@ocgov.com</p>	<p style="text-align: center;">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</p>	

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

Wells Fargo has a broad range of financing experience and expertise and has been a top underwriter across the various sectors of public finance for the past several years. **For 2024 year-to-date, WFCIB has underwritten 246 negotiated and competitive transactions nationally.**⁴ Further, as one of the largest financial service providers in the world, we are able to offer broad-range financing solutions that reach beyond municipal underwriting when working collaboratively with our commercial banking partners. To illustrate Wells Fargo's breadth of expertise, below we summarize our financing experience.

Wells Fargo Corporate & Investment Banking Negotiated Financing Experience Since 2020						
	Senior/Sole Managed		Co-Managed		Total	
	Par (\$000s)	# of Deals	Par (\$000s)	# of Deals	Par (\$000s)	# of Deals
General Obligation Bonds	\$59,878	391	\$85,059	302	\$144,937	693
Transportation Bonds (Ports, Highways, Airport)	24,061	96	46,787	123	70,848	219
Single and Multi-Family Housing Bonds	11,286	249	54,744	706	66,030	955
Certificates of Participation and Lease Revenue	2,966	32	4,528	20	7,494	52
Healthcare Related Bonds	2,862	26	12,788	43	15,650	69
Public and Private Higher Education Bonds	12,647	109	33,173.76	115	45,821	224
Other Long-Term Financings	22,207	107	54,748	33	76,955	140
Total	\$135,907	1,010	\$291,828	1,342	427,735	2,352

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

Serving Hawaii-Based Issuers. Wells Fargo is extremely proud of our history serving clients in the State of Hawaii. The advantages of utilizing an underwriter with the knowledge of issues within the State include i) familiarity with State and local economic conditions, ii) understanding Hawaii's statutes and bond laws, iii) adhering to the State's Constitutional requirements, 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 sales. In the following table, we provide our transaction history in Hawaii since 2013.

Wells Fargo Transactions in Hawaii Since 2013				
Sale Date	Issuer	Issue Type	Par (\$mm)	Role
03/12/24	Honolulu Board of Water Supply	Water Revenue	\$72.8	Selling Group
12/06/23	State of Hawaii	General Obligation Bonds	750.0	Co-Manager
09/13/23	City and County of Honolulu	General Obligation Bonds	189.8	Selling Group
08/09/23	City and County of Honolulu	General Obligation Bonds	271.0	Selling Group
10/19/22	State of Hawaii	General Obligation Bonds	800.0	Selling Group
08/18/22	County of Maui	General Obligation Bonds	60.9	Sole Manager
01/20/22	State of HI DOT – Airports Division	Airport Revenue	262.3	Selling Group
09/29/21	State of Hawaii	General Obligation Bonds	59.5	Direct Purchase*
09/29/21	State of Hawaii	General Obligation Bonds	1,882.9	Selling Group

⁴ Source Securities Data Corp., Full to Bookrunner (1/1/2024 – 6/10/2024)



Wells Fargo Transactions in Hawaii Since 2013				
Sale Date	Issuer	Issue Type	Par (\$mm)	Role
08/04/21	County of Maui	General Obligation Bonds	84.7	Sole Manager
07/21/21	City and County of Honolulu	General Obligation Bonds	595.6	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
07/22/20	City and County of Honolulu	General Obligation Bonds	346.3	Selling Group
02/13/20	City and County of Honolulu	General Obligation Bonds	295.2	Selling Group
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

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

Powerful Distribution Capabilities. Wells Fargo utilizes a 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. Wells Fargo 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	Tier 1 Clients	National Middle Market Sales*	Hawaii Middle Market Sales*	National Retail Sales**	Hawaii Retail Sales**
14 member sales team 2 offices nationwide	250+ National Buyers 425+ Account Base	60 sales professionals 17 offices nationwide	Have covered on island accounts for 30+ years	8,967 Retail advisors 2,466 Locations	27 Retail advisors \$5.5 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. Wells Fargo’s 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 over 425 institutional accounts. Our Municipal Institutional Client Services Group includes 14 dedicated municipal institutional sales professionals located in Charlotte and New York. This includes coverage of large “Tier 1” high grade accounts – current top holders of the County’s bonds – with assets over \$1 billion such as Vanguard, BlackRock, and Northern Trust in addition to money managers, insurance companies, bank portfolios, hedge funds and pension funds. While these large institutional



accounts are covered by all major broker-dealers, Wells Fargo maintains a formidable relationship with a majority of the County’s largest holders.⁵

2. Middle Markets Sales. One of our competitive advantages is the ability to reach middle market investors – an asset class that can be additive. As the County seeks to expand its investor base, we believe this to be particularly relevant. Indeed, most national underwriters do not focus on these investors since large institutional investors tend to dominant the municipal market. While Wells Fargo continues to be a top distributor to institutional accounts, our business model allows us to focus on smaller and regional investors who tend to buy-and-hold securities relative to their larger institutional counterparts. Wells Fargo has 60 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 the State’s most recent Highway Revenue Bond sale, a local municipal fund, which Wells Fargo has a proprietary relationship with, entered an order directly through our firm during the initial offering even though we were serving as a co-manager. When Wells Fargo 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 allows us to be more focused in marketing and pricing bonds on the County’s behalf.

Hawaii Middle Market Trade Activity Since 2021			
Investor	2021	2022	2023
Bank of Hawaii	\$36,440,000	\$33,215,000	\$3,145,000
Bishop Street	\$4,250,000	\$5,795,000	\$4,220,000

Source: Wells Fargo Municipal Underwriting Desk **CONFIDENTIAL**

3. Hawaii Retail Sales. Our municipal sales desk works closely with our retail brokerage network, through our affiliate Wells Fargo Advisors, and maintains one of the largest retail brokerage network in the country. Our national retail platform currently employs 8,967 full-service retail brokers and has approximately \$1.8 trillion in total client held assets.⁶ Of this amount, over \$319 million of Hawaii based issuances are held by our retail clients. Our Honolulu-based retail brokerage offices maintain 27 financial advisors who actively sell and trade municipal bonds, among other financial products. Specifically, our financial advisors based in the State manage over 22,600 active accounts with a combined \$5.5 billion of assets for State of Hawaii residents. In fact, as of May 2024, more than 310 accounts held over \$12.14 million of the County’s various bonds, as shown to the right.⁷

Wells Fargo Advisors		
	National	County of Hawaii
Client Assets*	\$1,815,569,130,575	\$12,143,495
Number of WFA Accounts*	6,505,606	311
Number of WFA Salespeople	8,967**	27***
Municipal Bond Holdings****	\$71,762,070,128	\$12,473,833

*Source Wells Fargo Clearing Services, LLC. As of March 31, 2024; **As of March 31, 2024; ***Total salespeople across the island as of March 31, 2024; ****As of May 29, 2024.

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 most 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. As such, we are not required to prepare FOCUS reports, nor do we report equity capital, net capital or excess net capital.

Since WFBNA currently meets the definition of a “well capitalized” bank under the OCC’s capital regulations, WFBNA (Wells Fargo Securities or Wells Fargo Corporate & Investment Banking as the trade 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 following table, we present our annual capital position from calendar years 2019 through 2023.

⁵Source: Bloomberg as of June 12, 2024

⁶WFA statistical information as of March 31, 2024. Data is a combination of Wells Fargo Clearing Services, LLC; Wells Fargo Advisors Financial Network; LLC and First Clearing, LLC.

⁷Source: Wells Fargo Clearing Services LLC as of May 31, 2024



Wells Fargo Bank, N.A. Capital			
December 31	Tier One Capital	Total Risk-Based Capital	Total Capital
2023	\$142,108,000,000	\$155,560,000,000	\$163,002,000,000
2022	\$140,644,000,000	\$154,292,000,000	\$161,470,000,000
2021	\$149,318,000,000	\$163,213,000,000	\$171,142,000,000
2020	\$150,168,000,000	\$164,412,000,000	\$170,928,000,000
2019	\$145,149,000,000	\$158,615,000,000	\$167,393,000,000

Source: WFBNA Call Report

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 2024 of approximately \$2.0 billion; and, as a commercial bank, providing credit enhancement, liquidity support, and direct purchase credit to municipal issuers, such as we did for the State of Hawaii’s 2021 GO Bond sale.⁸ Below we highlight recent examples where Wells Fargo used our capital to provide underwriting support in the primary market.

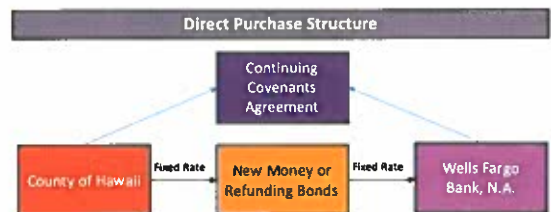
Wells Fargo CIB’s Recent Largest Municipal Negotiated Capital Commitments

Issuer Name	Pricing Date	Par Amount	Underwritten	% Underwritten
New Mexico Fin. Auth.	4/17/2024	\$49,890,000	\$25,685,000	51.48%
Bay Area Toll Authority	2/28/2024	\$110,000,000	\$27,000,000	24.55%
State of Washington	3/26/2024	\$1,092,550,000	\$100,045,000	9.16%
Bay Area Toll Authority	2/28/2024	\$110,000,000	\$27,000,000	24.55%
Texas Water Dev Board	9/27/2023	\$1,048,250,640	\$173,321,000	16.53%
City of Lakeland	8/29/2023	\$154,470,000	\$31,575,000	20.44%
State of Illinois	4/19/2023	\$2,311,210,000	\$159,580,000	6.90%

Note: Balances may have been placed with investors at any of various points after pricing. Source: Wells Fargo Underwriting Desk

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.⁹ 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.



What makes Wells Fargo Bank, N.A.’s Direct Purchase option distinctive is that we have the ability to offer the County an option to prepay without any breakage fee or prepayment penalty after the initial negotiated period. Further, the funds that are drawn and paid back, can be re-drawn again in the future. And probably the most beneficial aspect is that any amount not used would be charged a lower fee (typically 15-25 basis points), which can result in significant cost savings, particularly when compared to the capital markets in a volatile rising interest rate environment. Our Direct Purchase can be offered as fixed or variable, taxable or tax-exempt and short- or long-term options.

⁸ Source: WFS Municipal Underwriting Desk

⁹ WFBNA Direct Purchase is a product of WFBNA and is subject to credit approval

APPENDIX I
Wells Fargo Corporate and Investment Banking
Public Finance Bond Underwriting Experience Since January 2020

Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
01/07/20	197.075	El Paso ISD	Unltd Tx School Building Bonds	N	TX	CO-MGR
01/08/20	400.000	Colorado	Education Loan Program TRAns	C	CO	LEAD
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
01/16/20	50.025	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
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
01/23/20	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	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 (CHEFA)	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	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
02/13/20	109.140	Oakland City-California	GO & Refunding Bonds	C	CA	SOLE
02/18/20	116.995	Duluth Economic Dev Auth	Health Care Facs Revenue Bonds	P	MN	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

APPENDIX I
Wells Fargo Corporate and Investment Banking
Public Finance Bond Underwriting Experience Since January 2020

Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
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
02/25/20	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
02/26/20	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 University of California	Medical Center Pooled Rev Bonds	N	CA	CO-MGR
02/27/20	650.000	Regents of the University of California	Medical Center Pooled Rev Bonds	N	CA	CO-MGR
02/27/20	850.000	Regents of the University 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	Installation 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	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
03/11/20	55.000	Colorado Hsg & Fin Auth (CHFA)	Homeownership Class I Bonds	N	CO	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
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	Inlivian	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	195.000	Lancaster Co (Lincoln) PSD #1	GO School Bonds	C	NE	SOLE

APPENDIX I
Wells Fargo Corporate and Investment Banking
Public Finance Bond Underwriting Experience Since January 2020

Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
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
04/20/20	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	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	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
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 District	Limited Tax Refunding Bonds	N	IL	CO-MGR
05/20/20	9.585	Chicago Park District	Unlimited Tax Park Bonds	N	IL	CO-MGR
05/20/20	30.225	Chicago Park District	Unlimited Tax Park Bonds	N	IL	CO-MGR
05/20/20	38.620	Chicago Park District	Limited Tax Park Bonds	N	IL	CO-MGR
05/20/20	40.160	Chicago Park District	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
06/02/20	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

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Wells Fargo Corporate and Investment Banking
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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
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	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
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	6.005	Winston-Salem City-North Carolina	General Obligation Bonds	C	NC	SOLE
06/10/20	47.800	Albuquerque Bernalillo 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
06/10/20	60.000	Union Co-New Jersey	BANs	C	NJ	SOLE
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
06/11/20	56.255	Suffolk Co (Amityville) UFSD	BANs	C	NY	LEAD
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	Student 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	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

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Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
06/18/20	1,288.210	NYS Urban Development Corp	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
06/18/20	340.000	Riverside Co-California	TRANS	N	CA	LEAD
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
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 & Refunding Bonds	N	AK	CO-MGR
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	1,200.000	Los Angeles Co-California	TRANS	N	CA	CO-MGR
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	230.000	Houston City-Texas	TRANS	C	TX	LEAD
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 University of California	General Revenue Bonds	N	CA	LEAD
07/09/20	400.000	Regents of the University of California	General Revenue Bonds	N	CA	LEAD
07/09/20	500.000	Regents of the University of California	General Revenue Bonds	N	CA	LEAD
07/09/20	600.000	Regents of the University of California	General Revenue Bonds	N	CA	LEAD
07/09/20	826.195	Regents of the University 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	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

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Public Finance Bond Underwriting Experience Since January 2020

Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
07/21/20	22.500	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
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
07/28/20	410.000	Colorado	Education Loan Prog TRANS	C	CO	LEAD
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
07/30/20	600.000	Colorado	General Fund TRANS	C	CO	LEAD
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	0.007	Williamson Co (Leander) ISD	Refunding Bonds	N	TX	CO-MGR
08/05/20	0.007	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
08/11/20	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
08/13/20	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
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	74.995	San Fran Bay Area Rapid Trans Dt	General Obligation Bonds	N	CA	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	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
08/19/20	7,200.000	Texas	TRANS	C	TX	LEAD
08/20/20	6.425	Rockwall ISD	Refunding Bonds	N	TX	CO-MGR

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
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	9.445	Berkeley Co SD	General Obligation Bonds	C	SC	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	96.665	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	1,511.015	New York Transportation Dev Corp	Special Facilities Rev Bonds	N	NY	CO-MGR
09/01/20	300.000	Philadelphia City-Pennsylvania	TRANS	N	PA	LEAD
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	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
09/11/20	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	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	0.815	Allamuchy Twp-New Jersey	Water Utility BANs	C	NJ	SOLE
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	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	475.000	Miami-Dade Co SD	TANs	C	FL	LEAD
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

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Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
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	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
10/05/20	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
10/08/20	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
10/08/20	99.570	Riverside Co-California	Teeter Plan Obligation Notes	N	CA	LEAD
10/09/20	178.070	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
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	0.365	Ellis Co (Midlothian) ISD	Refunding Cap Appreciation Bonds	N	TX	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	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	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	25.000	Charleston Co SD	TANs	C	SC	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	1.168	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

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
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
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
11/10/20	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
11/17/20	93.185	Hartford Co Metropolitan Dt	General Obligation BANs	C	CT	SOLE
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	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	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
12/03/20	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

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
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
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
12/08/20	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	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	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
12/16/20	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	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	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
01/13/21	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 School 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	Tumpike 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
01/26/21	50.000	Los Angeles Dept Wtr & Pwr (LADWP)	Power System Demand Rev Bonds	N	CA	SOLE
01/26/21	135.010	Ohio Turnpike & Infrastructure Comm	Tumpike 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
01/28/21	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
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 Transportation Authority	Transportation Rev Green Bonds	C	NY	SOLE
02/09/21	160.206	Metropolitan Transportation Authority	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 Hway Reimburse Rev Bonds	C	FL	LEAD
02/11/21	70.370	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	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

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
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	114.975	Colorado St Univ Sys Bd of Gov	System Enterprise Rev Ref Bond	P	CO	SOLE
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 University of California	General Revenue Bonds	N	CA	CO-MGR
02/23/21	1,089.330	Regents of the University 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 University of California	Revenue Bonds	N	CA	CO-MGR
02/25/21	739.045	Regents of the University 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 University of California	Limited Project Revenue Bonds	N	CA	CO-MGR
03/03/21	46.420	Emery Co SD	General Obligation Bonds	C	UT	SOLE
03/04/21	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
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	Wstwrtr 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
03/16/21	11.500	San Francisco City/Co-California	General Obligation Bonds	C	CA	SOLE
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	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

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
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	75.000	Missouri Joint Municipal Electric Utility Comm	Credit Agreement	P	MO	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
04/07/21	300.400	California Educational Facs Auth	Revenue Bonds	N	CA	CO-MGR
04/07/21	21.260	Caroline County Government	Water & Sewer System Rev Bonds	C	VA	SOLE
04/07/21	37.870	Florence Co Public Facilities Corp	Installation 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	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	Multi-Family Housing Rev 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	1.295	Charleston Co SD	General Obligation BANS	C	SC	SOLE
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
05/06/21	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	101.125	Energy Northwest	Electric Revenue & Ref Bonds	N	WA	LEAD
05/11/21	610.600	Energy Northwest	Electric Revenue & Ref Bonds	N	WA	LEAD

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Sale Date	Par Amount (\$mls)	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	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	Piano 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 Financne 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	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
06/01/21	13.000	Truckee Meadows Water Auth	Sub Water Rev Ref Bonds	P	NV	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	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
06/04/21	9.338	Oakland Park City-Florida	Promissory Note Refunding Bonds	P	FL	SOLE
06/07/21	125.000	Wake Forest University	Revenue Bonds	P	NC	SOLE
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
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	50.785	Sarpy Co-Nebraska	Hway 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

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Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
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	225.000	Dallas-Fort Worth Intl Airport	Subordinate Lien Rev Bonds	P	TX	SOLE
06/17/21	6.430	Franklin City-Virginia	General Obligation Bonds	C	VA	SOLE
06/17/21	39.363	San Jose City-California	Multi-Family Housing Rev Note	P	CA	SOLE
06/18/21	125.963	Oklahoma Muni Power Auth (OMPA)	Power Supply System Rev Ref Bonds	N	OK	CO-MGR
06/18/21	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	10.530	Michigan St Hsg Dev Au (MSHDA)	Multi-Family Housing Rev Bonds	N	MI	SOLE
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	686.340	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
06/24/21	94.655	Northern Tobacco Sec Corp	Tobacco Settle Asset-Backe Bonds	N	AK	CO-MGR
06/24/21	187.825	Northern Tobacco Sec Corp	Tobacco Settle Asset-Backe Bonds	N	AK	CO-MGR
06/29/21	192.510	Texas Municipal Power Agency	Transmission Sys Rev Ref Bonds	N	TX	CO-MGR
07/01/21	50.000	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds	N	NY	CO-MGR
07/01/21	400.000	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds	N	NY	CO-MGR
07/01/21	45.865	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
07/01/21	67.090	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
07/01/21	149.765	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
07/01/21	241.845	Philadelphia Auth for Indus Dev	Hospital Revenue Bonds	P	PA	SOLE
07/02/21	62.500	San Francisco City/Co-California	Multifamily Housing Revenue Note	P	CA	SOLE
07/08/21	124.235	California State Univ Trustees	Systemwide Revenue Bonds	N	CA	CO-MGR
07/08/21	1,664.085	California State Univ Trustees	Systemwide Revenue Bonds	N	CA	CO-MGR
07/13/21	370.000	Colorado	Education Loan Prog TRANS	C	CO	LEAD
07/13/21	82.525	Fairfax Co Water Authority	Water Revenue Bonds	C	VA	SOLE
07/13/21	11.395	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
07/14/21	121.815	Jacksonville Electric Authority (JEA)	Wtr & Swr System Revenue Bonds	N	FL	LEAD
07/14/21	300.000	Univ of Virginia Rector & Visitors	General Rev Pledge & Ref Bonds	N	VA	CO-MGR
07/15/21	44.560	Jacksonville Electric Authority (JEA)	Electric System & Sub Rev Bonds	N	FL	CO-MGR
07/15/21	40.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
07/15/21	582.820	NYC Transitional Finance Auth	Building Aid Revenue Bonds	N	NY	CO-MGR
07/16/21	4.290	Lakeland City-Florida	Capital Improvement Rev Bonds	N	FL	SOLE
07/16/21	15.005	Lakeland City-Florida	Capital Imp Rev & Ref Bonds	N	FL	SOLE
07/16/21	26.195	Lakeland City-Florida	Capital Imp Rev & Ref Bonds	N	FL	SOLE
07/20/21	39.475	Gainesville City-Florida	Utilities Systems Revenue Bonds	N	FL	CO-MGR
07/20/21	56.285	Gainesville City-Florida	Utilities Systems Revenue Bonds	N	FL	CO-MGR
07/20/21	54.030	NYS Thruway Authority	Revenue Bonds	C	NY	SOLE
07/21/21	32.805	Chapel Hill Town-North Carolina	Limited Obligation Bonds	N	NC	CO-MGR
07/21/21	2.770	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
07/21/21	36.230	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
07/21/21	65.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
07/21/21	170.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
07/21/21	280.750	Travis Co (Austin) ISD	School Building & Refunding Bonds	N	TX	CO-MGR

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
07/21/21	19.175	Virginia Resources Auth (VRA)	State Moral Oblig Rev Bonds	C	VA	SOLE
07/22/21	140.000	Florida Housing Finance Corp	Homeowner Mtg Revnuw Bonds	N	FL	CO-MGR
07/22/21	7.010	Huntsville City-Alabama	Water Revenue Warrants	N	AL	CO-MGR
07/22/21	71.010	Huntsville City-Alabama	Water Revenue Warrants	N	AL	CO-MGR
07/23/21	13.680	Monroe City-North Carolina	Limited Obligation Bonds	N	NC	SOLE
07/26/21	29.885	Port Freeport-Texas	Senior Lien Revenue Bonds	N	TX	CO-MGR
07/27/21	234.600	New Mexico Finance Auth (NMFA)	State Transportation Rev Bonds	N	NM	LEAD
07/28/21	112.345	Iowa State Board of Regents	Hospital & Revenue Ref Bonds	C	IA	SOLE
07/28/21	76.055	Loudoun Co Sanitation Auth	Water & Sewer Sys Rev & Ref Bonds	C	VA	SOLE
07/28/21	8.545	Panoche Financing Auth	Revenue Bonds	N	CA	SOLE
07/28/21	8.610	Panoche Financing Auth	Revenue Bonds	N	CA	SOLE
07/29/21	128.230	Collin Co (McKinney) ISD	Unlimited Tax Bldg & Ref Bonds	N	TX	CO-MGR
07/29/21	15.380	Walnut Valley Water Dt	Water Revenue Refunding Bonds	N	CA	SOLE
07/29/21	282.555	Washington	Various Purpose GO Bonds	C	WA	SOLE
07/30/21	111.025	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
08/04/21	84.740	Mauli Co-Hawaii	General Obligation Bonds	N	HI	SOLE
08/04/21	50.000	Montgomery Co Hsg Opportunities Comm	Limited Obligation Bonds	N	MD	CO-MGR
08/04/21	10.120	Patriots Energy Group	Gas System Imp Revenue Bonds	N	SC	SOLE
08/04/21	51.400	Patriots Energy Group	Gas System Imp & Ref Rev Bonds	N	SC	SOLE
08/04/21	166.000	South Carolina St Hsg Fin & Dev Au	Mortgage Revenue Bonds	N	SC	CO-MGR
08/04/21	80.990	Virginia Transportation Board	Senior Lien Revenue Bonds	N	VA	LEAD
08/05/21	932.050	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
08/10/21	53.185	Garland City-Texas	Electric Util Sys Rev Ref Bonds	N	TX	CO-MGR
08/10/21	153.105	Garland City-Texas	Electric Util Sys Rev Ref Bonds	N	TX	CO-MGR
08/10/21	42.000	Lexington Co SD #3	GO BANs	C	SC	SOLE
08/10/21	325.000	Massachusetts Bay Transport Auth	Subordinated Sales Tax BANs	C	MA	LEAD
08/10/21	151.168	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	LEAD
08/11/21	50.070	Johnston Co-North Carolina	Water & Sewer System Rev Bonds	N	NC	LEAD
08/11/21	75.000	Maryland	GO State & Loc Facs Loan Bonds	C	MD	SOLE
08/11/21	22.695	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
08/11/21	155.500	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
08/17/21	69.410	Jefferson Co (Nederland) ISD	School Building Bonds	N	TX	LEAD
08/17/21	504.535	Kansas Development Fin Auth	Revenue Bonds	N	KS	CO-MGR
08/17/21	5.995	Rowland Water Dt	Water Revenue Refunding Bonds	N	CA	SOLE
08/17/21	30.175	Rowland Water Dt	Water Revenue Refunding Bonds	N	CA	SOLE
08/18/21	89.125	Des Moines City-Iowa	General Obligation Bonds	C	IA	SOLE
08/18/21	43.610	New Mexico Finance Auth (NMFA)	Revolving Fund Revenue Bonds	N	NM	CO-MGR
08/18/21	99.000	Oregon Hsg & Comm Svcs Dept	Mortgage Revenue Bonds	N	OR	CO-MGR
08/19/21	316.390	Miami-Dade Co-Florida	Seaport & Sub Rev Refunding Bonds	N	FL	LEAD
08/19/21	384.670	Miami-Dade Co-Florida	Seaport Sub & Rev Refunding Bonds	N	FL	LEAD
08/19/21	541.770	Miami-Dade Co-Florida	Seaport & Sub Rev Refunding Bonds	N	FL	LEAD
08/19/21	15.000	Mississippi Development Bank	Special Obligation Bonds	N	MS	SOLE
08/19/21	950.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
08/19/21	294.750	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
08/24/21	10.020	Berkeley Co SD	General Obligation Bonds	C	SC	SOLE
08/24/21	131.500	Broomfield City and Co-Colorado	Water Revenue Bonds	N	CO	SOLE
08/24/21	335.115	Montgomery Co-Maryland	GO Cons Pub Imp Proj & Ref Bonds	C	MD	SOLE
08/24/21	115.335	North Fort Bend Wtr Auth	Water System & Rev Ref Bonds	N	TX	CO-MGR
08/24/21	18.360	Salt Lake Co Muni Bldg Auth	Lease Revenue Bonds	N	UT	SOLE
08/24/21	99.990	Tennessee Hsg Dev Agcy (THDA)	Residential Fin Program Bonds	N	TN	CO-MGR
08/25/21	25.700	Gloucester City-Massachusetts	GO Municipal Purpose Loan Bonds	C	MA	SOLE
08/25/21	70.175	Houston City-Texas	Airport Sys Special Fac Rev Bonds	N	TX	CO-MGR
08/25/21	219.320	Houston City-Texas	Airport Sys Special Fac Rev Bonds	N	TX	CO-MGR
08/25/21	108.950	King Co (Federal Way) SD #210	GO Unlimited Tax Bonds	C	WA	SOLE
08/25/21	252.595	North Carolina	Grant Anticip Rev Vehicle Bonds	N	NC	CO-MGR
08/26/21	22.362	Kennesaw Dev Auth	Multi-Family Housing Bonds	N	GA	SOLE
08/26/21	22.362	Kennesaw Urban Redev Agency	Multi Family Bonds	N	GA	SOLE
08/26/21	430.290	SC Pub Svc Au (Santee Cooper)	Revenue Refunding & Imp Bonds	N	SC	CO-MGR
08/27/21	162.000	North Carolina Housing Fin Agcy	Home Ownership Revenue Bonds	N	NC	LEAD
08/31/21	125.000	Cary Town-North Carolina	GO Public Improvement Bonds	C	NC	SOLE
08/31/21	9.950	Ventura Co (Conejo Valley) USD	General Obligation Bonds	N	CA	SOLE
08/31/21	10.070	Ventura Co (Conejo Valley) USD	General Obligation Bonds	N	CA	SOLE
08/31/21	10.190	Ventura Co (Conejo Valley) USD	General Obligation Bonds	N	CA	SOLE
09/01/21	250.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	C	NY	SOLE
09/02/21	950.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
09/03/21	5.000	District of Columbia Hsg Fin Agcy	Multi-Family Dev Program Bonds	N	DC	SOLE
09/03/21	49.475	District of Columbia Hsg Fin Agcy	Multi-Family Dev Program Bonds	N	DC	SOLE

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
09/07/21	14.855	Webster City-Texas	Comb Tax & Rev COBs	C	TX	SOLE
09/08/21	37.275	Cape May Co-New Jersey	General Obligation Bonds	C	NJ	SOLE
09/08/21	30.230	Spartanburg Co-South Carolina	General Obligation Bonds	C	SC	SOLE
09/09/21	37.795	Cecil Co-Maryland	GO Public Improvement Bonds	C	MD	SOLE
09/09/21	13.675	Cleveland City-Ohio	Sub Ln Income Tax & Ref Bonds	N	OH	CO-MGR
09/09/21	68.080	Cleveland City-Ohio	Sub Ln Income Tax & Ref Bonds	N	OH	CO-MGR
09/09/21	89.900	Massachusetts Housing Fin Agcy	Single Family Hsg Revenue Bonds	N	MA	CO-MGR
09/09/21	6.500	Wichita City-Kansas	GO Temporary Notes	C	KS	SOLE
09/14/21	2,095.070	California	Various Purp GO & Refunding Bonds	N	CA	LEAD
09/14/21	2.430	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds	N	CT	CO-MGR
09/14/21	158.960	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds	N	CT	CO-MGR
09/14/21	137.155	Nebraska Public Power Dt	General Revenue Bonds	N	NE	CO-MGR
09/14/21	178.225	Washington Health Care Facs Au	Refunding Rev Bonds	N	WA	CO-MGR
09/15/21	194.390	Long Island Power Authority	Electric System Gen Revenue Bonds	N	NY	LEAD
09/15/21	355.755	Long Island Power Authority	Electric System Revenue Gen Bonds	N	NY	LEAD
09/15/21	15.020	Maine State Housing Authority	Revenue Bonds	N	ME	CO-MGR
09/15/21	38.930	Maine State Housing Authority	Revenue Bonds	N	ME	CO-MGR
09/15/21	88.100	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds	N	NY	CO-MGR
09/15/21	542.235	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds	N	NY	CO-MGR
09/21/21	222.975	Massachusetts	GO Refunding Bonds	C	MA	SOLE
09/21/21	45.565	Montana Bd of Regents of Higher Ed	General Revenue Bonds	N	MT	SOLE
09/21/21	72.150	Montana Bd of Regents of Higher Ed	General Revenue Bonds	N	MT	SOLE
09/21/21	600.000	Ohio State University	General Receipts Bonds	N	OH	CO-MGR
09/21/21	662.820	Orange Co Transportation Auth	BANs	N	CA	CO-MGR
09/22/21	37.820	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev & Ref Bonds	N	NY	LEAD
09/22/21	109.965	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	LEAD
09/23/21	10.938	District of Columbia Hsg Fin Agcy	Multi-Family Housing Rev Bonds	N	DC	SOLE
09/23/21	38.000	King Co (Bellevue) SD #405	Unlimited Tax GO Bonds	C	WA	SOLE
09/24/21	5.000	District of Columbia Hsg Fin Agcy	Multi-Family Dev Program Bonds	N	DC	LEAD
09/24/21	25.145	District of Columbia Hsg Fin Agcy	Multi-Family Dev Program Bonds	N	DC	LEAD
09/28/21	59.090	Riverside Co Infrastructure Fin Auth	Lease Revenue Refunding Bonds	N	CA	CO-MGR
09/28/21	440.710	Riverside Co Infrastructure Fin Auth	Lease Revenue Refunding Bonds	N	CA	CO-MGR
09/29/21	101.705	Wisconsin Public Finance Auth	Refunding Revenue Bonds	N	WI	CO-MGR
09/30/21	73.255	Albuquerque Bernalillo Co Wtr Util Auth	Sr Ln Jt Wtr&Swr Sys Imp Rev Bond	N	NM	CO-MGR
09/30/21	125.195	Georgia Muni Electric Au (MEAG)	Subordinated Bonds	N	GA	LEAD
09/30/21	178.720	Georgia Muni Electric Au (MEAG)	Subordinated Bonds	N	GA	LEAD
09/30/21	1,839.955	Golden State Tobacco Sec Corp	Enhance Tobacco Settle Bonds	N	CA	CO-MGR
09/30/21	10.000	Macon-Bibb Co Housing Auth	Multi-Family Housing Rev Bonds	P	GA	SOLE
09/30/21	444.735	Texas Water Development Board	St Wtr Implementation Fund Bonds	N	TX	LEAD
10/05/21	22.705	Greensboro City-North Carolina	Limited Obligation Ref Bonds	N	NC	LEAD
10/05/21	25.140	Greensboro City-North Carolina	Limited Obligation Ref Bonds	N	NC	LEAD
10/05/21	0.405	Maryland Dept Hsg & Com Dev (DHCD)	Multi-Family Dev Rev Bonds	N	MD	SOLE
10/05/21	0.790	Maryland Dept Hsg & Com Dev (DHCD)	Multi-Family Dev Rev Bonds	N	MD	SOLE
10/05/21	1.485	Maryland Dept Hsg & Com Dev (DHCD)	Multi-Family Dev Rev Bonds	N	MD	SOLE
10/05/21	7.115	Maryland Dept Hsg & Com Dev (DHCD)	Multi-Family Dev Rev Bonds	N	MD	SOLE
10/05/21	7.750	Maryland Dept Hsg & Com Dev (DHCD)	Multi-Family Dev Rev Bonds	N	MD	SOLE
10/05/21	9.505	Maryland Dept Hsg & Com Dev (DHCD)	Multi-Family Dev Rev Bonds	N	MD	SOLE
10/05/21	88.735	Riverside Co Trans Comm (RCTC)	Toll Revenue Senior Ln Ref Bonds	N	CA	CO-MGR
10/05/21	526.324	Riverside Co Trans Comm (RCTC)	Toll Revenue Sr Lien Ref Bonds	N	CA	CO-MGR
10/05/21	14.405	Westmoreland Co Indus Dev Auth	Pub Facility Revenue Ref Bonds	C	VA	SOLE
10/06/21	299.085	California St Public Works Board	Lease Revenue Ref Bonds	N	CA	CO-MGR
10/06/21	253.390	Lower Colorado River Authority (LCRA)	Refunding Revenue Bonds	N	TX	CO-MGR
10/06/21	44.500	Rhode Island & Providence Plan	GO Consolidated Cap Dev Loan	C	RI	SOLE
10/06/21	87.410	Riverside Co-California	Teeter Plan Obligation Notes	N	CA	CO-MGR
10/07/21	20.440	Alabama Fed Aid Highway Fin Auth	Special Obligation Revenue Bonds	N	AL	CO-MGR
10/07/21	1,496.170	Alabama Fed Aid Highway Fin Auth	Special Obligation Revenue Bonds	N	AL	CO-MGR
10/07/21	438.935	Omaha Public Power Dt (OPPD)	Electric System Revenue Bonds	N	NE	LEAD
10/07/21	70.180	Trinity River Authority	Reg Wastewater Sys Ref Bonds	N	TX	LEAD
10/07/21	227.605	Univ of Colorado Bd of Regents	Uni Enterprise Ref Rev Bonds	P	CO	SOLE
10/08/21	28.870	Colorado St Univ Sys Bd of Gov	Sys Enterprise Rev Ref Bonds	N	CO	LEAD
10/08/21	38.580	Colorado St Univ Sys Bd of Gov	Sys Enterprise Rev & Ref Bonds	N	CO	LEAD
10/13/21	167.260	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds	N	TX	CO-MGR
10/14/21	10.000	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds	N	CT	CO-MGR
10/14/21	20.000	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds	N	CT	CO-MGR
10/14/21	20.950	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Prog Bonds	N	CT	CO-MGR
10/14/21	39.960	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Prog Bonds	N	CT	CO-MGR
10/14/21	55.605	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds	N	CT	CO-MGR

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Wells Fargo Corporate and Investment Banking
Public Finance Bond Underwriting Experience Since January 2020

Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
10/14/21	125.000	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
10/14/21	3.095	South Texas College Dt	Limited Tax Refunding CABs	N	TX	CO-MGR
10/14/21	55.065	South Texas College Dt	Limited Tax Refunding Bonds	N	TX	CO-MGR
10/15/21	4.465	Tarrant Co (Keller) ISD	Refunding PCABs	N	TX	CO-MGR
10/15/21	166.325	Tarrant Co (Keller) ISD	Refunding Bonds	N	TX	CO-MGR
10/19/21	191.250	California Statewide CDA (CSCDA)	Student Housing Revenue Bonds	N	CA	CO-MGR
10/19/21	1.880	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
10/19/21	28.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
10/19/21	42.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
10/19/21	53.120	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
10/19/21	232.895	Dallas City-Texas	Hotel Occupancy Tx Rev Ref Bonds	N	TX	CO-MGR
10/19/21	427.040	Georgia Ports Authority	Revenue Bonds	N	GA	CO-MGR
10/19/21	60.885	Missouri Board of Public Bldgs	Special Obligation Bonds	C	MO	SOLE
10/19/21	3.995	Savannah Economic Dev Auth	Revenue Ref & Imp Bonds	N	GA	SOLE
10/19/21	32.330	Savannah Economic Dev Auth	Revenue Ref & Imp Bonds	N	GA	SOLE
10/19/21	69.575	Univ of Colorado Bd of Regents	Univ Enterprise Ref Rev Bonds	N	CO	LEAD
10/19/21	447.845	Utah Transit Au (UTA)	Sub & Sales Tx Ref Rev Bonds	N	UT	SOLE
10/20/21	142.010	American Municipal Power Inc	Revenue Refunding Bonds	N	OH	CO-MGR
10/20/21	16.165	Richland Co-South Carolina	Ref Assessment Rev Bonds	N	SC	SOLE
10/20/21	27.000	Weber Co (Ogden City) SD BOE	GO School Building Bonds	C	UT	SOLE
10/21/21	206.350	Dallas & Fort Worth Cities-Texas	Joint Revenue Refunding Bonds	N	TX	CO-MGR
10/21/21	101.235	Georgia Housing Finance Authority	Single Family Mortgage Bonds	N	GA	CO-MGR
10/21/21	454.140	Hudson Yards Infrastructure Corp	Hudson Yards Revenue Bonds	N	NY	CO-MGR
10/21/21	226.630	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
10/22/21	40.500	California Municipal Fin Auth	Multifamily Housing Revenue Note	P	CA	SOLE
10/26/21	141.415	Fort Bend Co (Lamar) CISD	Unlimited Tax Refunding Bonds	N	TX	LEAD
10/26/21	25.880	Morgan Hill Metro Dt #3	Sr&Sub GO Ltd Tx Ref&Imp Bonds	N	CO	SOLE
10/26/21	7.500	Oregon	General Obligation Bonds	N	OR	CO-MGR
10/26/21	38.675	Oregon	General Obligation Bonds	N	OR	CO-MGR
10/27/21	34.280	Virginia Resources Auth (VRA)	State Moral Obligation Rev Bonds	C	VA	SOLE
10/28/21	261.325	Indiana Finance Authority	State Revolving Fund Prog Bonds	N	IN	CO-MGR
10/28/21	41.345	Montgomery Co-Maryland	Ltd Obligation Ref Certificates	C	MD	SOLE
11/01/21	8.445	Louisiana Gov Env Fac & CDA (LCDA)	Revenue Bonds	N	LA	SOLE
11/02/21	16.300	North Dakota Hsg Fin Agcy	Housing Finance Program Bonds	N	ND	CO-MGR
11/02/21	125.000	North Dakota Hsg Fin Agcy	Housing Finance Program Bonds	N	ND	CO-MGR
11/02/21	132.980	Washington	Var Purpose GO Refunding Bonds	C	WA	SOLE
11/03/21	7.370	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
11/03/21	8.475	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
11/03/21	28.740	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
11/03/21	168.005	Miami-Dade Co SD	GO School Refunding Bonds	C	FL	SOLE
11/04/21	23.250	Adams Co Housing Authority	Multifamily Housing Revenue Note	P	CO	SOLE
11/04/21	73.545	Charleston Co-South Carolina	Special Source Rev Ref Bonds	N	SC	SOLE
11/04/21	26.880	Dallas City-Texas	Equip Acquisition Contract Oblig	C	TX	LEAD
11/04/21	45.920	Dallas City-Texas	Comb & Tax Rev COBs	C	TX	LEAD
11/04/21	53.475	Fairfax Co Economic Dev Auth	Revenue Refunding Bonds	N	VA	LEAD
11/04/21	33.450	Los Angeles Housing Authority	Multifamily Housing Revenue Note	P	CA	SOLE
11/04/21	167.770	Minneapolis City-Minnesota	Health Care Sys Rev Bonds	N	MN	CO-MGR
11/04/21	45.000	Pima Co-Arizona	Sewer System Rev Obligations	P	AZ	SOLE
11/04/21	50.000	Pima Co-Arizona	Certificates of Participation	P	AZ	SOLE
11/04/21	2.700	Washington St Hsg Fin Commission	Single-Family Prog Bonds	N	WA	CO-MGR
11/04/21	76.825	Washington St Hsg Fin Commission	Single-Family Program Bonds	N	WA	CO-MGR
11/09/21	448.665	California	Various Purpose GO & Ref Bonds	C	CA	SOLE
11/09/21	576.355	Dallas Area Rapid Transit Auth	Sr Lien Sales Tx Rev Ref Bonds	N	TX	CO-MGR
11/09/21	36.010	Lenexa City-Kansas	General Obligation Bonds	C	KS	SOLE
11/09/21	39.330	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
11/09/21	125.715	Snohomish Co-Washington	Limited Tax GO & Refunding Bonds	C	WA	SOLE
11/09/21	200.000	South Broward Hospital Dt	Hospital Revenue Bonds	C	FL	SOLE
11/10/21	56.385	Arizona Transportation Board	Highway Revenue Ref Bonds	P	AZ	SOLE
11/10/21	43.745	California Municipal Fin Auth	Multi-Family Housing Rev Bonds	N	CA	SOLE
11/10/21	133.035	Charlotte City-North Carolina	GO Refunding Bonds	N	NC	CO-MGR
11/10/21	500.000	Connecticut	Special Tax Obligations Bonds	N	CT	CO-MGR
11/10/21	144.540	NYS Environmental Facs Corp	State Revolving Funds Rev Bonds	N	NY	CO-MGR
11/10/21	23.760	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
11/10/21	25.000	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
11/10/21	199.510	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
11/10/21	253.150	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
11/11/21	141.210	Univ of North Carolina Bd of Gov	General Revenue Refunding Bonds	N	NC	LEAD

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Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
11/16/21	48.205	Chandler City-Arizona	GO Refunding Bonds	N	AZ	LEAD
11/16/21	3.235	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
11/16/21	7.850	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
11/16/21	17.000	Macon-Bibb Co Housing Auth	Multifamily Note	P	GA	SOLE
11/16/21	51.120	Utah Co (Alpine) SD BOE	GO Refunding Bonds	C	UT	SOLE
11/17/21	20.560	Harris Co (Pasadena) ISD	Unlimited Tax Refunding Bonds	N	TX	CO-MGR
11/17/21	13.180	Liberty Ranch Metro Dt	Limited Tax GO Refunding Bonds	N	CO	SOLE
11/17/21	33.860	New Orleans City-Louisiana	Limited Tax Bonds	C	LA	SOLE
11/17/21	79.180	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Prog Bonds	N	TN	CO-MGR
11/17/21	90.820	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Prog Bonds	N	TN	CO-MGR
11/17/21	6.515	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
11/17/21	142.565	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
11/18/21	25.885	Andover Town-Massachusetts	GO Muni Purp Loan Bonds	C	MA	SOLE
11/18/21	166.120	Mississippi	General Obligation Bonds	N	MS	LEAD
11/18/21	964.850	Mississippi	GO & Refunding Bonds	N	MS	LEAD
11/18/21	7.115	Montgomery Co Hsg Opportunities Comm	Multi-Family Housing Dev Bonds	N	MD	CO-MGR
11/18/21	104.245	Montgomery Co Hsg Opportunities Comm	Multi-Family Housing Dev Bonds	N	MD	CO-MGR
11/18/21	100.167	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
11/18/21	245.450	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
11/18/21	28.455	Ohio Higher Ed Fac Commission	Revenue Refunding Bonds	N	OH	CO-MGR
11/18/21	35.000	Ohio Higher Ed Fac Commission	Revenue Refunding Bonds	N	OH	CO-MGR
11/23/21	70.860	Massachusetts Housing Fin Agcy	Single Family Hsg Rev Bonds	N	MA	CO-MGR
11/30/21	24.000	Macon-Bibb Co Housing Auth	Multifamily Note	P	GA	SOLE
12/01/21	250.250	Anaheim Public Financing Auth	Lease Revenue Bonds	N	CA	CO-MGR
12/01/21	31.295	Chandler City-Arizona	General Obligation Bonds	C	AZ	SOLE
12/01/21	154.205	Los Angeles Municipal Imp Corp	Lease Revenue Bonds	C	CA	SOLE
12/01/21	30.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Ref Bonds	N	MD	CO-MGR
12/01/21	221.770	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Ref Bonds	N	MD	CO-MGR
12/02/21	15.140	Allegheny Co Higher Ed Bldg Auth	University Revenue Bonds	N	PA	LEAD
12/02/21	47.890	Allegheny Co Higher Ed Bldg Auth	University Revenue Bonds	N	PA	LEAD
12/02/21	61.335	Anchorage City-Alaska	GO Refunding Bonds	N	AK	CO-MGR
12/02/21	100.545	Anchorage City-Alaska	General Obligation Bonds	N	AK	CO-MGR
12/02/21	98.295	Harris Co-Texas	Permanent Imp Refunding Bonds	N	TX	LEAD
12/02/21	24.660	Maryland Dept Hsg & Com Dev (DHCD)	Multi-Family Dev Rev Bonds	N	MD	CO-MGR
12/02/21	38.570	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
12/02/21	46.800	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
12/02/21	134.910	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
12/02/21	210.185	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
12/02/21	44.620	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	CO-MGR
12/02/21	49.890	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	CO-MGR
12/03/21	122.795	Alaska Housing Finance Corp	General Mortgage Revenue Bonds	N	AK	CO-MGR
12/07/21	123.295	Lakeland City-Florida	Energy System Revenue Bonds	N	FL	CO-MGR
12/07/21	315.940	Pulaski Co (Little Rock) SD	Revenue & Construction Bonds	C	AR	SOLE
12/08/21	87.465	Denton Co ISD	Unlimited Tax Refunding Bonds	N	TX	CO-MGR
12/08/21	1,384.990	Golden State Tobacco Sec Corp	Tobacco Settle Asset-Backed CABs	N	CA	CO-MGR
12/08/21	2,799.625	Golden State Tobacco Sec Corp	Tobacco Settle Asset-Backed Bonds	N	CA	CO-MGR
12/08/21	100.000	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	LEAD
12/08/21	134.080	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
12/08/21	185.105	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
12/09/21	339.710	NYS Dorm Authority	State Personal Inc Tax Rev Bonds	C	NY	SOLE
12/09/21	37.870	New Jersey Hsg & Mtg Fin Agency	Multi-Family Conduit Rev Bonds	N	NJ	SOLE
12/09/21	186.285	Utah State Board of Regents	General Revenue Bonds	N	UT	CO-MGR
12/09/21	28.500	Vancouver Housing Authority	Multifamily Note	P	WA	SOLE
12/10/21	28.790	NYS Housing Fin-Mortgage Agcy	Multi-Family Mtg-Backed Bonds	N	NY	SOLE
12/10/21	171.210	NYS Housing Fin-Mortgage Agcy	Multi-Family Mtg-Backed Bonds	N	NY	SOLE
12/14/21	46.045	Colorado St Univ Sys Bd of Gov	System Enterprise Rev Ref Bonds	N	CO	LEAD
12/14/21	20.000	Myrtle Beach City-South Carolina	Limited Obligation Bonds	N	SC	SOLE
12/15/21	3.420	Atlanta City-Georgia	Various Purpose GO Bonds	N	GA	CO-MGR
12/15/21	188.500	Atlanta City-Georgia	GO Refunding Bonds	N	GA	CO-MGR
12/15/21	3.800	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/15/21	16.330	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/15/21	39.895	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/15/21	77.770	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/15/21	84.600	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/15/21	112.335	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/15/21	165.270	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/15/21	300.000	Connecticut	General Obligation Bonds	N	CT	CO-MGR

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
12/15/21	11.265	Heritage Ridge Metropolitan Dt	Sr Ltd Tax GO Refunding Bonds	N	CO	SOLE
12/23/21	15.425	Denver City and Co-Colorado	Multifamily Housing Revenue Note	P	CO	SOLE
01/05/22	50.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
01/05/22	50.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
01/06/22	54.610	New Hampshire Muni Bond Bank	Revenue Bonds	C	NH	SOLE
01/12/22	21.795	Louisiana	Gasoline & Fuels Tx Rev Ref Bonds	N	LA	LEAD
01/12/22	620.995	Louisiana	Gasoline & Fuel Tx Rev Ref Bonds	N	LA	LEAD
01/12/22	4.000	Mississippi Home Corporation	Single Family Mtg Rev Ref Bonds	N	MS	LEAD
01/12/22	70.675	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	LEAD
01/12/22	32.340	Nebraska Municipal Energy Agency	Power Supply Sys Ref Rev Bonds	N	NE	CO-MGR
01/13/22	42.820	Charleston City-South Carolina	Limited Obligation Bonds	N	SC	SOLE
01/13/22	47.935	Miami University	General Receipts & Ref Rev Bonds	N	OH	CO-MGR
01/13/22	82.295	Rockwall ISD	Unlimited Tax Schl Building Bonds	N	TX	CO-MGR
01/13/22	16.520	South Dakota Housing Dev Auth	Homeownership Mtg Bonds	N	SD	CO-MGR
01/13/22	99.000	South Dakota Housing Dev Auth	Homeownership Mtg Bonds	N	SD	CO-MGR
01/19/22	20.465	Charleston Public Facs Corp	Installment Purchase Rev Bonds	N	SC	LEAD
01/19/22	750.000	New Jersey Trans Trust Fund Au	Transportation Program Bonds	N	NJ	CO-MGR
01/20/22	100.000	Cobb Co SD	General Obligation Notes	C	GA	SOLE
01/20/22	13.370	Sacramento City Housing Authority	Multi-Family Mtg-backed Bonds	N	CA	SOLE
01/21/22	330.105	Metro Washington Airports Auth	Dulles Toll Road Rev Ref Bonds	N	DC	LEAD
01/21/22	424.725	Metro Washington Airports Auth	Dulles Toll Road Rev Ref Bonds	N	DC	LEAD
01/21/22	950.000	NYC Transitional Finance Auth	Future Tax Subordinate Bonds	N	NY	CO-MGR
01/25/22	35.000	California Educational Facs Auth	Revenue Bonds	N	CA	SOLE
01/25/22	4.220	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Bonds	N	CO	CO-MGR
01/25/22	28.630	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Bonds	N	CO	CO-MGR
01/25/22	45.780	Colorado Hsg & Fin Auth (CHFA)	Single Family Mtg Bonds	N	CO	CO-MGR
01/25/22	75.285	Lawrence City-Massachusetts	GO State Qualified Muni Purp Loan	C	MA	SOLE
01/25/22	194.815	San Francisco City & Co Airport Comm	Revenue Bonds	N	CA	CO-MGR
01/25/22	236.475	San Francisco City & Co Airport Comm	Revenue Bonds	N	CA	CO-MGR
01/25/22	301.530	San Francisco City & Co Airport Comm	Revenue Bonds	N	CA	CO-MGR
01/25/22	43.095	San Jacinto Comm College Dt	Ltd Tax GO Bldg & Ref Bonds	N	TX	LEAD
01/25/22	38.075	University of Idaho Regents	Gen Revenue & Rev Ref Bonds	N	ID	SOLE
01/27/22	672.750	Montgomery Co Hghr Ed & Health Auth	Revenue Bonds	N	PA	CO-MGR
02/01/22	350.000	Massachusetts	GO Consolidated Loan Bonds	C	MA	SOLE
02/02/22	24.990	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
02/02/22	75.000	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
02/02/22	3.600	VDW Metropolitan Dt #2	Limited Tax GO Ref Bonds	N	CO	SOLE
02/02/22	7.220	VDW Metropolitan Dt #2	Limited Tax GO Ref Bonds	N	CO	SOLE
02/02/22	41.615	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	LEAD
02/04/22	500.000	NYC Municipal Water Fin Auth	Water & Sewer Revenue Bonds	N	NY	CO-MGR
02/07/22	346.850	Indiana Finance Authority	Lease Approp Refunding Bonds	N	IN	CO-MGR
02/08/22	19.735	Greater Orlando Aviation Auth	Airport Facs Ref Rev Bonds	N	FL	LEAD
02/08/22	75.540	Greater Orlando Aviation Auth	Airport Revenue & Ref Bonds	N	FL	LEAD
02/08/22	191.765	Greater Orlando Aviation Auth	Airport Facs Rev & Ref Bonds	N	FL	LEAD
02/08/22	310.220	Ohio Turnpike & Infrastructure Comm	Turnpike Jr Lien Rev Ref Bonds	N	OH	CO-MGR
02/09/22	7.585	Denton Co ISD	Unlimited Tax Refunding Bonds	N	TX	CO-MGR
02/09/22	9.335	Duplin Co-North Carolina	Limited Obligation Ref Bonds	N	NC	SOLE
02/09/22	1,283.191	SC Pub Svc Au (Santee Cooper)	Revenue Oblig Ref Bonds	N	SC	CO-MGR
02/10/22	26.280	Denton Co ISD	Refunding Bonds	N	TX	CO-MGR
02/10/22	34.650	Denton Co ISD	GO Improvement & Refunding Bonds	N	TX	CO-MGR
02/10/22	145.060	Maricopa Co Industrial Dev Auth	Exempt Facs Revenue Bonds	N	AZ	CO-MGR
02/10/22	104.250	NYC Housing Dev Corp	Housing Impact Bonds	N	NY	CO-MGR
02/10/22	60.050	San Bernardino Co Trans Auth	Sales Tax Revenue Ref Bonds	N	CA	SOLE
02/15/22	50.000	Indianapolis Loc Pub Imp Bond Bank	Revenue Bonds	N	IN	LEAD
02/15/22	140.000	Peninsula Corridor Jt Power Board	Sales Tax Revenue Bonds	N	CA	CO-MGR
02/15/22	57.775	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
02/15/22	5.065	Waco City-Texas	Comb Tax & Rev Certs of Oblig	C	TX	SOLE
02/15/22	24.570	Waco City-Texas	GO Refunding Bonds	C	TX	SOLE
02/15/22	47.990	Winrock Town Ctr Tax Incr Dev Dt #1	Snr Lien Gross Rec Tax Inc Bonds	N	NM	SOLE
02/16/22	100.355	Provo City SD Muni Bldg Auth	Lease Revenue Bonds	C	UT	SOLE
02/17/22	16.750	Berthoud-Heritage Metropolitan Dt #10	Sr & Sub Ltd Tax GO Bonds	N	CO	SOLE
02/17/22	207.760	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	LEAD
02/23/22	20.500	San Diego Co (Escondido) USD	General Obligation Bonds	N	CA	SOLE
02/24/22	13.055	Dallas Co (Duncanville) ISD	Unlimited Tax Refunding Bonds	N	TX	LEAD
02/24/22	230.000	Gwinnett Co SD	GO Sales Tax Bonds	C	GA	SOLE
02/24/22	25.325	Hale Center Education Facs Corp	Revenue Improvement & Ref Bonds	N	TX	SOLE
02/24/22	111.390	Hillsborough Co Aviation Auth	Revenue Bonds	N	FL	CO-MGR

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
02/24/22	263.760	Hillsborough Co Aviation Auth	Revenue Bonds	N	FL	CO-MGR
02/24/22	348.105	Hillsborough Co Aviation Auth	Sub Revenue Refunding Bonds	N	FL	CO-MGR
02/24/22	180.400	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
02/25/22	16.895	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
02/25/22	45.210	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
02/25/22	153.590	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
02/28/22	1.415	Dallas Co (Duncanville) ISD	Unlimited Tax Refunding Bonds	N	TX	LEAD
02/28/22	105.765	Dallas Co (Duncanville) ISD	Unlimited Tax Refunding Bonds	N	TX	LEAD
03/01/22	22.530	Greeley City-Colorado	Fist-Lien Sewer Imp Rev Bonds	C	CO	SOLE
03/02/22	8.905	Connecticut Housing & Fin Auth (CHFA)	Hsg Mtg Finance Program Bonds	N	CT	CO-MGR
03/02/22	74.995	Connecticut Housing & Fin Auth (CHFA)	Hsg Mtg Finance Program Bonds	N	CT	CO-MGR
03/02/22	33.650	Fort Bend Co-Texas	Certificates of Obligation	N	TX	CO-MGR
03/02/22	778.970	NYC Municipal Water Fin Auth	Wtr&Swr Sys 2nd Gen Res Rev Bonds	N	NY	CO-MGR
03/02/22	268.620	Virginia Transportation Board	Transpo Cap Proj & Ref Bonds	C	VA	SOLE
03/03/22	43.655	Fort Bend Co-Texas	Road Bonds	N	TX	CO-MGR
03/03/22	494.670	Los Angeles Dept Wtr & Pwr (LADWP)	Water System Revenue Bonds	N	CA	LEAD
03/03/22	12.455	Louisiana Gov Env Fac & CDA (LCDA)	Revenue Bonds	N	LA	SOLE
03/03/22	342.630	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds	N	TX	CO-MGR
03/03/22	50.000	Minnesota Housing Fin Agency	Residential Hsg Fin Bonds	N	MN	CO-MGR
03/03/22	100.000	Minnesota Housing Fin Agency	Residential Hsg Finance Bonds	N	MN	CO-MGR
03/07/22	264.805	Dallas ISD	Unlimited Tax Refunding Bonds	N	TX	LEAD
03/09/22	150.000	California	Various Purpose GO Ref Bonds	N	CA	LEAD
03/09/22	200.000	California	Various Purpose GO Ref Bonds	N	CA	LEAD
03/09/22	1,878.890	California	Various Purpose GO & Ref Bonds	N	CA	LEAD
03/10/22	120.000	Florida Housing Finance Corp	Homeowner Mtg Rev Bonds	N	FL	CO-MGR
03/10/22	140.525	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
03/10/22	709.795	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
03/14/22	63.000	Ramsey Co (White Bear Lake) ISD #624	GO School Building Bonds	C	MN	SOLE
03/15/22	2,422.335	NYS Dorm Authority	State Personal Inc Tax Rev Bonds	N	NY	LEAD
03/15/22	50.000	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	C	VA	SOLE
03/17/22	84.000	South Carolina St Hsg Fin & Dev Au	Mortgage Revenue Bonds	N	SC	CO-MGR
03/22/22	49.980	Salt Lake Co (Canyons) SD BOE	GO Refunding Bonds	C	UT	SOLE
03/22/22	46.885	Tulsa Co (Broken Arrow) ISD #3	GO Combined Purpose Bonds	C	OK	SOLE
03/23/22	17.845	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/23/22	102.440	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/23/22	217.945	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/23/22	175.000	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
03/24/22	900.905	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
03/24/22	200.000	North Carolina Housing Fin Agcy	Home Ownership Revenue Bonds	N	NC	CO-MGR
03/25/22	398.265	NYC Housing Dev Corp	Capital Fund Program Rev Bonds	N	NY	CO-MGR
03/29/22	413.720	San Antonio City-Texas	Electric & Gas Sys Rev Ref Bonds	N	TX	LEAD
03/29/22	26.375	Utah Co (Alpine) SD BOE	GO Refunding Bonds	C	UT	SOLE
03/30/22	41.335	Alaska Municipal Bond Bank	General Obligation Bonds	N	AK	LEAD
03/30/22	204.560	Louisiana	General Obligation Bonds	C	LA	SOLE
03/30/22	30.000	North Dakota Hsg Fin Agcy	Housing Finance Program Bonds	N	ND	CO-MGR
03/30/22	125.000	North Dakota Hsg Fin Agcy	Housing Finance Program Bonds	N	ND	CO-MGR
03/30/22	41.255	Ohio Higher Ed Fac Commission	Higher Ed Facility Rev Bonds	N	OH	LEAD
03/31/22	184.590	Idaho Housing & Fin Assoc	Sales Tax Revenue Bonds	N	ID	CO-MGR
03/31/22	950.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
04/01/22	28.365	Kaufman Co (Crandall) ISD	School Building Bonds	N	TX	CO-MGR
04/05/22	1,188.105	Dallas & Fort Worth Cities-Texas	Joint Revenue Improvement Bodns	N	TX	CO-MGR
04/05/22	97.200	Massachusetts Bay Transport Auth	Assessment Bonds	N	MA	LEAD
04/05/22	197.970	Massachusetts Bay Transport Auth	Assessment Bonds	N	MA	LEAD
04/05/22	172.195	Monroeville Finance Authority	UPMC Revenue Bonds	N	PA	CO-MGR
04/05/22	608.310	NYS Power Authority	Revenue Bonds	N	NY	CO-MGR
04/05/22	7.000	Oregon Hsg & Comm Svcs Dept	Mortgage Revenue Bonds	N	OR	CO-MGR
04/05/22	77.900	Oregon Hsg & Comm Svcs Dept	Mortgage Revenue Bonds	N	OR	CO-MGR
04/05/22	212.430	Pennsylvania Econ Dev Fin Auth	Revenue Bonds	N	PA	CO-MGR
04/05/22	413.205	Regents of the University of Michigan	General Revenue Bonds	N	MI	CO-MGR
04/05/22	1,000.015	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax Ref Bonds	N	NY	CO-MGR
04/06/22	20.000	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
04/06/22	125.000	Illinois Housing Dev Authority	Revenue Bonds	N	IL	LEAD
04/07/22	75.000	California Municipal Fin Auth	Revenue Bonds	N	CA	SOLE
04/07/22	31.140	Los Angeles Co Development Auth	General Revenue Bonds	N	CA	SOLE
04/12/22	15.210	District of Columbia	Revenue Bonds	N	DC	LEAD
04/12/22	144.485	District of Columbia	Private Activity Revenue Bonds	N	DC	LEAD
04/12/22	111.970	Georgia Housing Finance Authority	Single Family Mortgage Bonds	N	GA	CO-MGR

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Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
04/12/22	257.570	Guam Power Authority	Revenue Refunding Bonds	N	GU	LEAD
04/12/22	23.425	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
04/13/22	34.095	Anaheim Hsg & Pub Imp Auth	Revenue Refunding Bonds	N	CA	LEAD
04/13/22	79.855	Anaheim Hsg & Pub Imp Auth	Revenue Refunding Bonds	N	CA	LEAD
04/13/22	230.785	Anaheim Hsg & Pub Imp Auth	Revenue Bonds	N	CA	LEAD
04/13/22	50.000	Minnesota Housing Fin Agency	Residential Hsg Fin Bonds	N	MN	CO-MGR
04/13/22	100.000	Minnesota Housing Fin Agency	Residential Hsg Finance Bonds	N	MN	CO-MGR
04/13/22	51.960	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
04/19/22	75.090	Clark Co-Nevada	GO Limited Tax Bonds	C	NV	SOLE
04/20/22	140.085	Collin Co (Frisco) ISD	Unltd Tx School Building Bonds	N	TX	CO-MGR
04/20/22	6.360	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds	N	CT	CO-MGR
04/20/22	78.030	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds	N	CT	CO-MGR
04/20/22	207.830	Massachusetts Dev Finance Agcy	Revenue Bonds	N	MA	CO-MGR
04/20/22	50.185	Midcities Metro Dt #2	Spec Rev Refunding Bonds	N	CO	SOLE
04/20/22	18.815	Nebraska St Colleges Facs Corp	Facilities Program Ref Bonds	N	NE	CO-MGR
04/20/22	0.216	San Bernardino Co (Barstow) USD	General Obligation Bonds	N	CA	SOLE
04/20/22	5.280	San Bernardino Co (Barstow) USD	General Obligation Bonds	N	CA	SOLE
04/21/22	33.670	Charleston City-South Carolina	Hospitality Tax Rev Bonds	N	SC	LEAD
04/21/22	31.360	Maryland Dept Hsg & Com Dev (DHCD)	Multi-Family Dev Rev Bonds	N	MD	CO-MGR
04/22/22	5.695	Waterfall Metro Dt #1	Sr&Sub GO Ltd Tax Ref Bonds	N	CO	SOLE
04/26/22	168.250	San Diego Public Facs Fin Auth	Sub Sewer Revenue Bonds	N	CA	LEAD
04/26/22	327.300	San Francisco City/Co-California	GO Refunding Bonds	N	CA	LEAD
04/27/22	48.375	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
04/27/22	188.910	Gilbert Town-Arizona	General Obligation Bonds	N	AZ	LEAD
04/27/22	407.875	Hampton Roads Trans Acc Com (HRTAC)	Transportation Funds Sr Ln Bonds	N	VA	LEAD
04/27/22	500.825	Maricopa Co-Arizona	Pledged Revenue Obligations	P	AZ	SOLE
04/27/22	222.030	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
04/27/22	1,100.000	Regents of the University of California	Medical Ctr Pooled Rev Bonds	N	CA	CO-MGR
04/27/22	1,900.000	Regents of the University of California	Medical Ctr Pooled Rev Bonds	N	CA	CO-MGR
04/28/22	34.755	High Point City-North Carolina	Comb Enterprise Sys Rev Bonds	N	NC	LEAD
04/28/22	30.000	North Dakota Hsg Fin Agcy	Housing Finance Program Bonds	N	ND	CO-MGR
05/04/22	100.000	California Poll Control Fin Auth	Var Rate Dmnd Solid Wst Dis Note	P	CA	LEAD
05/04/22	31.000	Harris Co (Alief) ISD	Unltd Tax Sch Bldg & Ref Bonds	C	TX	SOLE
05/04/22	135.045	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Rev Bonds	N	MI	CO-MGR
05/05/22	300.000	North Carolina	Limited Obligation Bonds	N	NC	LEAD
05/05/22	50.000	North Dakota Hsg Fin Agcy	Hsg Finance Program Bonds	N	ND	CO-MGR
05/10/22	2.215	Energy Northwest	Electric Revenue Ref Bonds	N	WA	CO-MGR
05/10/22	513.955	Energy Northwest	Electric Revenue & Ref Bonds	N	WA	CO-MGR
05/10/22	175.745	Oregon	General Obligation Bonds	N	OR	CO-MGR
05/10/22	242.635	Oregon	General Obligation Bonds	N	OR	CO-MGR
05/10/22	26.500	Pennsylvania State University	Revenue Bonds	N	PA	CO-MGR
05/10/22	125.450	Pennsylvania State University	Revenue Bonds	N	PA	CO-MGR
05/10/22	106.980	Queen Creek Town-Arizona	Excise Tax & State Rev Oblig	N	AZ	CO-MGR
05/10/22	184.910	Wisconsin	General Obligation Bonds	C	WI	SOLE
05/11/22	820.000	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
05/11/22	13.350	Virginia Resources Auth (VRA)	State Moral Oblig Rev Bonds	C	VA	SOLE
05/12/22	48.070	Virginia College Building Auth	Education Facilities Rev Bonds	N	VA	CO-MGR
05/12/22	584.175	Virginia College Building Auth	Education Facilities Rev Bonds	N	VA	CO-MGR
05/17/22	29.360	Camden Co-New Jersey	General Obligation Bonds	C	NJ	SOLE
05/17/22	1.395	Maine Hlth & Hghr Ed Facs Auth	Revenue Bonds	N	ME	CO-MGR
05/17/22	48.310	Maine Hlth & Hghr Ed Facs Auth	Revenue Bonds	N	ME	CO-MGR
05/18/22	150.000	Florida Housing Finance Corp	Homeowner Mtg Rev Bonds	N	FL	CO-MGR
05/18/22	123.605	St Louis Co-Missouri	Special Obligation Bonds	C	MO	SOLE
05/19/22	23.270	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
05/19/22	37.375	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
05/19/22	111.625	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
05/19/22	130.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
05/19/22	950.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
05/24/22	26.840	Durham City-North Carolina	GO Refunding Bonds	C	NC	SOLE
05/24/22	109.070	Metropolitan St Louis Sewer Dt	Wastewater Sys Imp & Ref Bonds	N	MO	CO-MGR
05/24/22	66.000	South Dakota Housing Dev Auth	Homeownership Mtg Bonds	N	SD	CO-MGR
05/25/22	97.700	Alaska Housing Finance Corp	State Capital Projet Bonds	N	AK	CO-MGR
05/25/22	59.395	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
05/25/22	149.990	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
05/26/22	2.180	Connecticut	GO Refunding Bonds	N	CT	CO-MGR
05/26/22	5.765	Connecticut	General Obligation Bonds	N	CT	CO-MGR
05/26/22	10.795	Connecticut	General Obligation Bonds	N	CT	CO-MGR

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Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
05/26/22	16.005	Connecticut	General Obligation Bonds	N	CT	CO-MGR
05/26/22	75.940	Connecticut	General Obligation Bonds	N	CT	CO-MGR
05/26/22	117.435	Connecticut	General Obligation Bonds	N	CT	CO-MGR
05/26/22	136.000	Connecticut	General Obligation Bonds	N	CT	CO-MGR
05/26/22	138.060	Connecticut	General Obligation Bonds	N	CT	CO-MGR
05/26/22	566.690	Connecticut	GO Refunding Bonds	N	CT	CO-MGR
06/02/22	197.120	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
06/02/22	111.555	NYS Housing Fin- Mortgage Agcy	Affordable Hsg Revenue Bonds	N	NY	CO-MGR
06/02/22	351.490	NYS Housing Fin- Mortgage Agcy	Affordable Hsg Revenue Bonds	N	NY	CO-MGR
06/03/22	18.500	Aurora City Housing Auth	Multi-Family Housing Rev Note	P	CO	SOLE
06/07/22	900.000	Los Angeles Co-California	TRANS	N	CA	CO-MGR
06/07/22	115.705	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	LEAD
06/07/22	1.175	Sweetgrass Metro Dt #2	Sub GO Ltd Tax Ref Bonds	N	CO	SOLE
06/07/22	8.150	Sweetgrass Metro Dt #2	General Obligation Bonds	N	CO	SOLE
06/08/22	150.000	Maryland	GO State & Loc Facs Loan Bonds	C	MD	SOLE
06/08/22	18.770	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/08/22	25.840	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/08/22	30.345	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/08/22	100.000	Minnesota Housing Fin Agency	Rental Housing Finance Bonds	N	MN	CO-MGR
06/08/22	53.215	New Mexico Finance Auth (NMFA)	Pub Proj Revolv Fund Bonds	N	NM	CO-MGR
06/08/22	88.035	Ohio Higher Ed Fac Commission	Revenue Bonds	C	OH	LEAD
06/08/22	41.750	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	LEAD
06/09/22	49.245	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
06/09/22	29.790	Watertown Town-Massachusetts	GO Muni Purp Loan Bonds	C	MA	SOLE
06/16/22	5.000	New Jersey Hsg & Mtg Fin Agency	Multi-Family Conduit Rev Bonds	N	NJ	SOLE
06/16/22	37.130	Southern Illinois Univ Bd of Tr	Facilities System Rev Bonds	N	IL	SOLE
06/22/22	151.190	Charleston City-South Carolina	Capital Improvement Rev Bonds	N	SC	LEAD
06/22/22	226.595	Georgia	General Obligation Bonds	C	GA	SOLE
06/22/22	150.000	Massachusetts	Transportation Fund Rev Bonds	N	MA	LEAD
06/22/22	200.000	Massachusetts	Transportation Fund Rev Bonds	N	MA	LEAD
06/22/22	115.670	Northern Virginia Trans Dt Comm	Transpo Dt Special Oblig Bonds	N	VA	CO-MGR
06/24/22	2.940	Montgomery Co Hsg Opportunities Comm	Single Family Mtg Rev Bonds	N	MD	CO-MGR
06/24/22	3.000	Montgomery Co Hsg Opportunities Comm	Single Family Mtg Rev Bonds	N	MD	CO-MGR
06/24/22	14.660	Montgomery Co Hsg Opportunities Comm	Single Family Mtg Rev Bonds	N	MD	CO-MGR
06/28/22	509.015	Alabama Corrections Inst Fin Au	Revenue Bonds	N	AL	CO-MGR
06/28/22	48.500	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds	N	CT	CO-MGR
06/29/22	50.405	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	CO-MGR
06/29/22	51.185	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	CO-MGR
06/29/22	61.565	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	CO-MGR
06/29/22	212.005	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	CO-MGR
06/29/22	103.560	Scott Co SD Finance Corp	School Building Revenue Bonds	C	KY	SOLE
06/29/22	52.645	Wisconsin Public Finance Auth	Educational Facs & Ref Bonds	N	WI	LEAD
06/30/22	83.865	Harris Co (Deer Park) ISD	School Building Bonds	N	TX	CO-MGR
06/30/22	950.000	NYC Transitional Finance Auth	Future tax Secured Sub Bonds	N	NY	CO-MGR
07/06/22	9.971	Oregon Hsg & Comm Svcs Dept	Multi-Family Hsg Mtg-Backed Bonds	N	OR	SOLE
07/06/22	14.810	Oregon Hsg & Comm Svcs Dept	Multi-Family Housing Rev Bonds	N	OR	SOLE
07/07/22	36.730	Duchesne SD Muni Bldg Auth	Lease Revenue Bonds	N	UT	SOLE
07/08/22	761.654	Oklahoma Dev Finance Auth	Ratepayer-Backed Bonds	N	OK	CO-MGR
07/12/22	295.000	Colorado	Education Loan Prog Tax & RANs	C	CO	SOLE
07/12/22	4.480	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
07/12/22	35.515	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
07/12/22	26.465	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
07/12/22	131.650	Phoenix City Civic Imp Corp	Sub Excise Tax Rev Bonds	N	AZ	CO-MGR
07/12/22	85.910	Seattle City-Washington	Water System Imp & Ref Rev Bonds	C	WA	SOLE
07/13/22	401.145	NYS Thruway Authority	State Personal Inc Tax Rev Bonds	C	NY	SOLE
07/14/22	50.000	Colorado Hsg & Fin Auth (CHFA)	Homeownership Bonds	N	CO	CO-MGR
07/18/22	20.300	Albuquerque City	Gross Receipts Tax Imp Rev Bonds	N	NM	CO-MGR
07/18/22	66.655	Albuquerque City	Gross Receipts Tax Imp Rev Bonds	N	NM	CO-MGR
07/19/22	75.000	North Dakota Hsg Fin Agcy	Housing Finance Program Bonds	N	ND	CO-MGR
07/19/22	28.145	Oregon	General Obligation Bonds	N	OR	CO-MGR
07/20/22	13.190	District of Columbia Hsg Fin Agy	Multi-Family Dev Prog Bonds	N	DC	LEAD
07/20/22	24.105	District of Columbia Hsg Fin Agy	Multi-Family Dev Prog Bonds	N	DC	LEAD
07/20/22	54.180	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
07/21/22	104.600	Collin Co (McKinney) ISD	School Building and Ref Bonds	N	TX	CO-MGR
07/21/22	492.295	NYC Transitional Finance Auth	Building Aid Revenue Bonds	N	NY	CO-MGR
07/22/22	151.340	NYC Housing Dev Corp	Multi-Family Housing Bonds	N	NY	CO-MGR
07/26/22	15.950	Maryland Dept Hsg & Com Dev (DHCD)	Multi-Family Dev Rev Bonds	N	MD	SOLE

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Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
07/28/22	50.075	Indiana Co Indust Dev Auth	Refunding Revenue Bonds	N	PA	SOLE
08/03/22	755.615	Georgia Ports Authority	Revenue Bonds	N	GA	CO-MGR
08/03/22	72.355	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	CO-MGR
08/03/22	15.000	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	CO-MGR
08/10/22	3.600	Crystal Valley Metropolitan Dt #2	Limited Tax GO Bonds	N	CO	SOLE
08/16/22	290.000	Arkansas Development Fin Auth	Environmental Imp Rev Bonds	N	AR	CO-MGR
08/16/22	4.620	Santa Clara Co (Cambrian) SD	GO Refunding Bonds	C	CA	SOLE
08/16/22	2.050	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
08/16/22	80.335	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
08/17/22	132.190	Dallas Co-Texas	Certificates of Obligation Bonds	N	TX	CO-MGR
08/17/22	130.360	Long Island Power Authority	Electric Sys Gen Rev Bonds	N	NY	LEAD
08/17/22	100.000	Long Island Power Authority	Electric Sys Gen Rev Bonds	N	NY	LEAD
08/17/22	150.000	Long Island Power Authority	Electric Sys Gen Rev Bonds	N	NY	LEAD
08/17/22	60.875	Maui Co-Hawaii	General Obligation Bonds	N	HI	SOLE
08/17/22	65.240	Regents of the University of California	General Revenue Bonds	N	CA	CO-MGR
08/17/22	702.330	Regents of the University of California	General Revenue Bonds	N	CA	CO-MGR
08/18/22	950.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
08/18/22	1,354.200	Oklahoma Dev Finance Auth	Ratepayer-Backed Bonds	N	OK	CO-MGR
08/18/22	317.960	Regents of the University of California	General Revenue Bonds	N	CA	CO-MGR
08/18/22	52.500	Wisconsin Hsg & Econ Dev Auth	Home Ownership Rev Bonds	N	WI	CO-MGR
08/23/22	80.760	Berkeley Co SD	General Obligation Bonds	C	SC	SOLE
08/23/22	145.900	Minneapolis-St Paul Metro Airports Comm	Sub Airport Revenue Bonds	N	MN	LEAD
08/23/22	226.785	Minneapolis-St Paul Metro Airports Comm	Sub Airport Revenue Bonds	N	MN	LEAD
08/23/22	50.000	Minnesota Housing Fin Agency	Homeownership Finance Bonds	N	MN	CO-MGR
08/23/22	160.000	South Carolina St Hsg Fin & Dev Au	Mortgage Revenue Bonds	N	SC	CO-MGR
08/23/22	955.000	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax BANs	C	NY	LEAD
08/24/22	24.245	Sacramento Transportation Auth	Revenue Refunding Bonds	N	CA	SOLE
08/25/22	51.345	California Educational Facs Auth	Revenue Bonds	N	CA	SOLE
08/25/22	10.650	California Educational Facs Auth	Refunding Revenue Bonds	N	CA	SOLE
08/25/22	464.680	Charlotte City-North Carolina	Water & Swr Sys Rev Bonds	N	NC	LEAD
08/25/22	13.405	Charlotte City-North Carolina	Water & Swr Sys Rev Bonds	N	NC	LEAD
08/25/22	98.720	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
08/25/22	867.470	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
08/25/22	129.685	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
08/25/22	23.270	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
08/30/22	12.490	Great Lakes Water Auth (GLWA)	Swg Disposal Sys Rev Ref Bonds	N	MI	CO-MGR
08/30/22	207.215	Great Lakes Water Auth (GLWA)	Revenue Sr Lien Bonds	N	MI	CO-MGR
08/30/22	197.965	Great Lakes Water Auth (GLWA)	Swg Disposal Sys Rev Bonds	N	MI	CO-MGR
08/30/22	122.215	Laredo City-Texas	Waterworks & Swr Sys Rev Bonds	N	TX	CO-MGR
08/30/22	219.335	Manatee Co-Florida	Public Improvement & Ref Bonds	N	FL	LEAD
08/30/22	206.190	South Carolina St Hsg Fin & Dev Au	Mortgage Revenue Notes	N	SC	CO-MGR
08/31/22	698.570	Chicago City-Illinois	General Airport Sr Lien Rev Bonds	N	IL	CO-MGR
08/31/22	575.905	Chicago City-Illinois	General Airport Rev & Ref Bonds	N	IL	CO-MGR
08/31/22	343.080	Chicago City-Illinois	General Airport Sr Lien Ref Bonds	N	IL	CO-MGR
08/31/22	150.450	Chicago City-Illinois	General Airport Sr Lien Bonds	N	IL	CO-MGR
08/31/22	104.195	Minnesota Housing Fin Agency	State Appropriation Bonds	N	MN	CO-MGR
08/31/22	185.900	Palm Beach Co School Board	Certificates of Participations	N	FL	CO-MGR
09/01/22	25.315	York Co (Fort Mill) SD #4	General Obligation BANs	C	SC	SOLE
09/07/22	60.000	Horry Co-South Carolina	Limited Obligation Bonds	N	SC	LEAD
09/08/22	25.000	California	Various Purpose GO Ref Bonds	N	CA	CO-MGR
09/08/22	2,291.685	California	Various Purpose GO & Ref Bonds	N	CA	CO-MGR
09/08/22	420.565	Omaha Public Power Dt (OPPD)	Electric System Revenue Bonds	N	NE	CO-MGR
09/12/22	60.250	Martin Co-Texas	Tax Notes	C	TX	SOLE
09/13/22	34.990	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
09/13/22	40.000	Minnesota Housing Fin Agency	Residential Hsg Finance Bonds	N	MN	CO-MGR
09/13/22	25.000	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
09/13/22	150.000	Wasatch Co SD Loc Bldg Auth	Lease Revenue Bonds	N	UT	CO-MGR
09/15/22	72.760	Univ of Mississippi Ed Bldg Corp	Revenue Bonds	N	MS	CO-MGR
09/15/22	128.050	Wichita City-Kansas	GO Temporary Notes	C	KS	SOLE
09/15/22	18.000	Wichita City-Kansas	General Obligation Bonds	C	KS	SOLE
09/15/22	9.815	Wichita City-Kansas	General Obligation Bonds	C	KS	SOLE
09/16/22	787.290	NYS Utility Debt Securitization Auth	Restructuring Bonds	N	NY	CO-MGR
09/16/22	94.780	NYS Utility Debt Securitization Auth	Restructuring Bonds	N	NY	CO-MGR
09/16/22	53.585	NYS Utility Debt Securitization Auth	Restructuring Bonds	N	NY	CO-MGR
09/20/22	2.080	Gainesville Redev Authority	Revenue Bonds	C	GA	SOLE
09/21/22	35.485	Arizona Industrial Dev Auth	Lease Revenue Bonds	N	AZ	SOLE
09/22/22	60.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
09/22/22	49.035	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
09/22/22	10.175	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
09/27/22	33.000	South Dakota Housing Dev Auth	Homeownership Mtg Bonds	N	SD	LEAD
09/27/22	17.000	South Dakota Housing Dev Auth	Homeownership Mtg Bonds	N	SD	SOLE
09/28/22	140.000	Florida Housing Finance Corp	Homeowner Mtg Rev Bonds	N	FL	CO-MGR
09/28/22	280.000	Illinois	General Obligation Bonds	C	IL	SOLE
09/28/22	95.000	Massachusetts Bay Transport Auth	Sub Var Rate Demand Oblig Bonds	N	MA	SOLE
09/28/22	961.850	Texas Water Development Board	St Wtr Implementation Rev Fund	N	TX	CO-MGR
09/29/22	194.220	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds	N	TX	CO-MGR
09/29/22	6.465	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
09/29/22	16.750	Mulberry Metropolitan Dt #2	Sub & Limited Tax GO Bonds	N	CO	SOLE
09/29/22	17.000	Mulberry Metropolitan Dt #2	Capital Facilities Fee Rev Bonds	N	CO	SOLE
09/29/22	24.810	Oregon Hsg & Comm Svcs Dept	Mortgage Revenue Bonds	N	OR	CO-MGR
09/29/22	160.000	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
10/04/22	84.055	Riverside Co-California	Tester Plan Obligation Notes	N	CA	LEAD
10/05/22	167.130	California	Veterans GO Bonds	N	CA	LEAD
10/05/22	950.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
10/05/22	400.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
10/05/22	71.570	Orange Co (Bridge City) ISD	Unlimited Tax School Bldg Bonds	C	TX	SOLE
10/05/22	0.830	Orange Co (Bridge City) ISD	Unlimited Tax School Bldg Bonds	C	TX	SOLE
10/05/22	20.000	Summerville-South Carolina	Limited Obligation Bonds	N	SC	SOLE
10/06/22	100.000	California Municipal Fin Auth	Solid Waste Disposal Rev Bonds	N	CA	CO-MGR
10/11/22	140.000	Clay Co (No Kansas City) SD #74	GO Improvement Bonds	C	MO	SOLE
10/12/22	40.000	Boone Co (Columbia) SD	GO Improvement Bonds	C	MO	SOLE
10/12/22	700.000	New Jersey Turnpike Authority	Turnpike Revenue Bonds	N	NJ	LEAD
10/12/22	122.075	Tampa Bay Water Auth	Water Supp Auth Util Sys Bonds	N	FL	CO-MGR
10/12/22	127.235	Williamson Co (Leander) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
10/13/22	25.170	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds	N	CT	LEAD
10/13/22	30.030	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds	N	CT	LEAD
10/13/22	43.445	NYS Housing Fin-Mortgage Agcy	Affordable Hsg Revenue Bonds	N	NY	CO-MGR
10/13/22	94.850	NYS Housing Fin-Mortgage Agcy	Affordable Hsg Revenue Bonds	N	NY	CO-MGR
10/17/22	68.225	Pima Co-Arizona	Sewer Sys Rev & Ref Oblig Bonds	N	AZ	CO-MGR
10/18/22	88.375	California Dept of Veteran Affairs	Home Purchase Revenue Bonds	N	CA	LEAD
10/18/22	44.760	Collin Co (Frisco) ISD	Refunding Bonds	N	TX	LEAD
10/18/22	60.300	Rhode Island	GO Consolidated Cap Dev Loan	C	RI	SOLE
10/18/22	510.655	Southeast Pennsylvania Trans Auth	Revenue Bonds	N	PA	CO-MGR
10/19/22	1,143.490	Connecticut	Special Tax Oblig & Ref Bonds	N	CT	CO-MGR
10/19/22	117.815	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds	N	CT	CO-MGR
10/19/22	8.025	Johnstown North Metro Dt #2	Limited Tax GO Ref & Imp Bonds	N	CO	SOLE
10/19/22	65.465	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
10/19/22	73.610	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
10/19/22	257.090	Wisconsin	GO Refunding Bonds	N	WI	CO-MGR
10/19/22	20.585	Wisconsin	GO Refunding Bonds	N	WI	CO-MGR
10/20/22	109.755	Anchorage City-Alaska	Solid Waste Services Ref Bonds	N	AK	CO-MGR
10/20/22	18.700	Jersey City-New Jersey	Special Emergency Notes	C	NJ	SOLE
10/20/22	60.515	Pima Co-Arizona	Certificates of Participation	N	AZ	LEAD
10/20/22	27.930	Pima Co-Arizona	Certificates of Participation	N	AZ	LEAD
10/21/22	14.770	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	LEAD
10/21/22	65.690	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	LEAD
10/21/22	14.000	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	LEAD
10/25/22	78.860	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
10/25/22	39.175	Virginia Resources Auth (VRA)	Infrastructure Revenue Bonds	N	VA	CO-MGR
10/26/22	319.065	California	Various Purp GO Refunding Bonds	C	CA	SOLE
10/26/22	193.930	Collin Co (Richardson) ISD	School Building Bonds	N	TX	LEAD
10/26/22	33.475	Harvey (Hesston) USD #460	GO School Building Bonds	C	KS	SOLE
10/26/22	137.410	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	C	NY	SOLE
10/26/22	24.240	Salt Lake City-Utah	Sales & Excise Tax Rev Bonds	N	UT	CO-MGR
10/26/22	40.015	Salt Lake City-Utah	Sales & Excise Tax Rev Bonds	N	UT	CO-MGR
10/26/22	35.590	St Petersburg City-Florida	Public Utility Revenue Bonds	C	FL	SOLE
10/27/22	950.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	LEAD
10/27/22	52.515	University of Connecticut	Special Oblig Student Fee Bonds	N	CT	CO-MGR
10/28/22	100.000	Bartow Co Development Authority	Solid Waste Disposal Facs Bonds	N	GA	SOLE
10/28/22	243.920	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
10/28/22	45.155	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
10/28/22	50.000	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
11/01/22	109.715	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
11/01/22	20.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR

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Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
11/01/22	36.000	Maine State Housing Authority	Mortgage Purchase Bonds	N	ME	CO-MGR
11/03/22	67.500	New Mexico Finance Auth (NMFA)	Senior Lien Revolv Fund Bonds	N	NM	CO-MGR
11/03/22	46.590	Overland Park City-Kansas	Special Obligation Rev Bonds	N	KS	SOLE
11/07/22	11.555	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
11/08/22	43.400	Clark Co-Nevada	Refunding Revenue Bonds	N	NV	LEAD
11/08/22	40.230	Clark Co-Nevada	Jet Aviation Refunding Rev Bonds	N	NV	LEAD
11/08/22	4.335	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
11/08/22	35.660	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
11/08/22	26.465	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
11/09/22	547.310	California	General Obligation Bonds	C	CA	SOLE
11/09/22	50.000	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
11/09/22	24.290	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
11/09/22	75.710	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
11/09/22	114.360	Ohio	Major New St Infrastructure Bonds	N	OH	CO-MGR
11/09/22	426.640	SC Pub Svc Au (Santee Cooper)	Revenue Imp & Ref Bonds	N	SC	CO-MGR
11/09/22	194.850	SC Pub Svc Au (Santee Cooper)	Revenue Imp & Ref Bonds	N	SC	CO-MGR
11/10/22	9.275	Santa Clara Co (Union) ESD	General Obligation Bonds	N	CA	SOLE
11/10/22	6.950	Santa Clara Co (Union) ESD	General Obligation CABs	N	CA	SOLE
11/15/22	66.370	Hennepin Co (Minneapolis) SSD #1	Refunding COPs	C	MN	SOLE
11/15/22	29.880	Hennepin Co (Minneapolis) SSD #1	Long-Term Facs Maintenance Bonds	C	MN	SOLE
11/15/22	100.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
11/15/22	6.705	Nevada	Natural Resources Bonds	C	NV	SOLE
11/15/22	44.000	Travis Co Housing Finance Corp	Multi-Family Housing Rev Bonds	N	TX	LEAD
11/16/22	25.610	Centerra Metropolitan Dt #1	Special Revenue Imp Bonds	N	CO	SOLE
11/16/22	150.000	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
11/16/22	458.000	Louisiana Gov Env Fac & CDA (LCDA)	Insurance Assessment Rev Bonds	N	LA	LEAD
11/16/22	23.025	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
11/16/22	72.075	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
11/17/22	98.955	Florida Dept of Transportation	Revenue Bonds	C	FL	SOLE
11/17/22	43.685	Missouri Joint Municipal Electric Utility Comm	Power Supply Sys Rev Bonds	N	MO	CO-MGR
11/17/22	28.550	Montgomery Co-Maryland	Water Qual & Ref Rev Bonds	C	MD	SOLE
11/17/22	180.000	North Carolina Housing Fin Agcy	Home Ownership Revenue Bonds	N	NC	CO-MGR
11/17/22	670.790	NYC Municipal Water Fin Auth	Water & Sewer System Bonds	N	NY	CO-MGR
11/17/22	24.915	NYC Municipal Water Fin Auth	Water & Sewer System Bonds	N	NY	CO-MGR
11/17/22	27.150	NYC Municipal Water Fin Auth	Water & Sewer System Bonds	N	NY	CO-MGR
11/17/22	27.145	NYC Municipal Water Fin Auth	Water & Sewer System Bonds	N	NY	CO-MGR
11/21/22	200.000	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
11/29/22	29.525	Connecticut	GO Refunding Bonds	N	CT	CO-MGR
11/29/22	250.000	Connecticut	General Obligation Bonds	N	CT	CO-MGR
11/29/22	225.940	Connecticut	GO Refunding Bonds	N	CT	CO-MGR
11/29/22	6.900	Connecticut	GO Refunding Bonds	N	CT	CO-MGR
11/29/22	77.035	Connecticut	General Obligation Bonds	N	CT	CO-MGR
11/29/22	31.605	Connecticut	General Obligation Bonds	N	CT	CO-MGR
11/29/22	165.340	Connecticut	General Obligation Bonds	N	CT	CO-MGR
11/29/22	57.025	Connecticut	General Obligation Bonds	N	CT	CO-MGR
11/29/22	68.995	Connecticut	General Obligation Bonds	N	CT	CO-MGR
11/30/22	32.790	Milwaukee City-Wisconsin	Promissory Notes&Corp Purp Bonds	C	WI	SOLE
11/30/22	268.355	San Jose Financing Authority	Wastewater Revenue Bonds	N	CA	LEAD
12/02/22	24.690	NYS Housing Fin-Mortgage Agcy	Affordable Hsg Rev Bonds	N	NY	CO-MGR
12/02/22	48.125	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
12/06/22	48.150	Arvada City-Colorado	Water Enterprise Revenue Bonds	C	CO	SOLE
12/07/22	21.055	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
12/07/22	51.070	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
12/07/22	141.100	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
12/07/22	354.070	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
12/07/22	214.035	Oregon Dept of Transportation	Highway User Tx Rev Sr Lien Bonds	N	OR	CO-MGR
12/07/22	125.000	Virginia Small Business Fin Auth	Environmental Facs Rev Bonds	N	VA	SOLE
12/08/22	100.000	NYC Municipal Water Fin Auth	Water and Sewer System Bonds	N	NY	SOLE
12/08/22	770.000	Triborough Bridge & Tunnel Auth	Payroll Mobility Tax BANs	C	NY	LEAD
12/09/22	87.965	Alaska Housing Finance Corp	Gen Mortgage Revenue Bonds	N	AK	CO-MGR
12/13/22	1,759.135	Pennsylvania Econ Dev Fin Auth	Private Activity Revenue Bonds	N	PA	LEAD
12/15/22	253.615	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds	N	ID	CO-MGR
12/16/22	110.000	Portland City-Oregon	Second Lien Sewer Sys Rev Bonds	P	OR	SOLE
01/05/23	69.015	Owensboro Reg Water Resource Agy	Wastewater Revenue Bonds	C	KY	SOLE
01/06/23	33.755	Los Angeles Co Development Auth	Multi-Family Housing Rev Bonds	N	CA	SOLE
01/10/23	631.450	Collin Co (Plano) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR
01/10/23	233.980	Harris Co (Tomball) ISD	Unltd Tax School Building Bonds	N	TX	CO-MGR

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Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
01/11/23	34.665	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
01/11/23	299.000	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
01/11/23	154.380	Utah State Board of Regents	General Revenue Bonds	N	UT	LEAD
01/13/23	61.665	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	LEAD
01/13/23	8.525	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	LEAD
01/13/23	16.740	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	LEAD
01/13/23	44.720	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	LEAD
01/13/23	128.035	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	LEAD
01/13/23	192.370	Georgia Muni Electric Au (MEAG)	Revenue Bonds	N	GA	LEAD
01/18/23	46.000	South Dakota Housing Dev Auth	Homeownership Mtg Bonds	N	SD	CO-MGR
01/18/23	99.000	South Dakota Housing Dev Auth	Homeownership Mtg Bonds	N	SD	CO-MGR
01/18/23	226.950	Washington	Various Purpose GO Bonds	C	WA	SOLE
01/19/23	100.000	Georgia Housing Finance Authority	Single Family Mortgage Bonds	N	GA	CO-MGR
01/24/23	72.555	Brazoria Co (Angleton) ISD	Unlimited Tax School Bldg Bonds	C	TX	SOLE
01/26/23	24.655	Arvin-Edison Water Storage Dt	Wtr Certificates of Participation	N	CA	SOLE
01/31/23	29.880	Alaska Municipal Bond Bank	General Obligation Bonds	N	AK	CO-MGR
01/31/23	56.640	Alaska Municipal Bond Bank	General Obligation Bonds	N	AK	CO-MGR
02/01/23	23.525	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
02/01/23	84.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
02/07/23	26.085	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
02/07/23	3.290	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
02/07/23	36.705	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
02/07/23	98.445	Harris Co (Sheldon) ISD	Unltd Tax School Building Bonds	C	TX	SOLE
02/07/23	11.570	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
02/07/23	55.420	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
02/07/23	33.000	Minnesota Housing Fin Agency	Rental Housing Finance Bonds	N	MN	CO-MGR
02/08/23	46.870	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
02/08/23	22.940	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
02/08/23	3.500	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
02/08/23	7.820	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
02/08/23	11.435	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
02/08/23	63.335	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
02/09/23	130.000	Florida Housing Finance Corp	Homeowner Mtg Rev Bonds	N	FL	CO-MGR
02/09/23	1,077.595	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
02/15/23	365.045	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds	N	TX	CO-MGR
02/15/23	25.000	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	LEAD
02/15/23	52.455	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	LEAD
02/15/23	52.350	Regents of the University of California	General Revenue Bonds	N	CA	CO-MGR
02/15/23	1,771.690	Regents of the University of California	General Revenue Bonds	N	CA	CO-MGR
02/22/23	17.205	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	P	MD	CO-MGR
02/23/23	61.355	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
02/23/23	95.000	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
02/23/23	688.320	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
02/24/23	12.541	Richmond Redev & Housing Agency	Multi-Family Housing Rev Bonds	N	VA	SOLE
02/28/23	120.000	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
02/28/23	37.500	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
03/01/23	181.155	Illinois Finance Authority	Revenue Bonds	N	IL	CO-MGR
03/01/23	162.040	Oyster Bay Town-New York	Water District Notes	C	NY	SOLE
03/02/23	98.980	Florida Dept of Transportation	Seaport Investment Prog Ref Bonds	C	FL	SOLE
03/03/23	124.780	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds	N	MI	CO-MGR
03/03/23	205.295	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds	N	MI	CO-MGR
03/03/23	17.910	Michigan St Hsg Dev Au (MSHDA)	Rental Housing Revenue Bonds	N	MI	CO-MGR
03/08/23	1,804.055	California	Various Purpose GO Bonds	N	CA	LEAD
03/08/23	171.715	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
03/08/23	63.652	Westborough Town-Massachusetts	General Obligation BANs	C	MA	SOLE
03/09/23	65.025	Metro Atlanta Rapid Transit Au (MARTA)	Sales Tax Revenue Bonds	N	GA	CO-MGR
03/09/23	1,293.000	NYC Municipal Water Fin Auth	Wtr&Swr Sys 2nd Gen Res Rev Bonds	N	NY	CO-MGR
03/15/23	950.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
03/15/23	175.605	Oregon	General Obligation Bonds	N	OR	CO-MGR
03/15/23	652.025	Oregon	General Obligation Bonds	N	OR	CO-MGR
03/15/23	8.540	Oregon	General Obligation Bonds	N	OR	CO-MGR
03/15/23	152.875	Oregon	General Obligation Bonds	N	OR	CO-MGR
03/17/23	49.610	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds	N	ID	CO-MGR
03/17/23	80.285	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds	N	ID	CO-MGR
03/21/23	1,491.485	Louisiana Gov Env Fac & CDA (LCDA)	System Restoration Bonds	N	LA	LEAD
03/22/23	111.200	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	LEAD
03/22/23	86.200	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	LEAD

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
03/22/23	144.715	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	LEAD
03/22/23	34.875	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	LEAD
03/22/23	125.725	NYS Housing Fin-Mortgage Agcy	Affordable Housing Revenue Bonds	N	NY	LEAD
03/28/23	98.125	Purdue Univ Board of Trustees	Purdue Uni Student Facs Sys Bonds	N	IN	LEAD
03/29/23	240.000	New York City-New York	General Obligation Bonds	C	NY	SOLE
03/29/23	20.000	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
03/29/23	120.000	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
03/30/23	314.865	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
03/30/23	950.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
04/03/23	33.530	Manvel-Texas	Comb Tax&Rev Certs of Oblig Bonds	C	TX	SOLE
04/04/23	139.850	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
04/04/23	15.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
04/04/23	21.260	West City-Texas	Comb Tax&Rev Certs of Oblig Bonds	C	TX	SOLE
04/05/23	2,552.715	California	Various Purpose GO & Ref Bonds	N	CA	CO-MGR
04/05/23	16.080	Colorado Hsg & Fin Auth (CHFA)	Multi-Family/Project Bonds	N	CO	CO-MGR
04/06/23	9.210	Sanford City-North Carolina	Limited Obligation Bonds	N	NC	SOLE
04/11/23	52.410	Oregon	General Obligation Bonds	N	OR	CO-MGR
04/12/23	62.485	Anne Arundel Co-Maryland	GO Ref & Water and Swr Bonds	C	MD	SOLE
04/12/23	349.685	Idaho Housing & Fin Assoc	Sales Tax Rev Bonds	N	ID	CO-MGR
04/12/23	25.575	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
04/12/23	180.000	North Carolina Housing Fin Agcy	Home Ownership Revenue Bonds	N	NC	LEAD
04/13/23	88.145	Palm Beach Co-Florida	Public Improvement Rev Bonds	C	FL	SOLE
04/18/23	27.730	Arizona Board of Regents	System Revenue Bonds	N	AZ	CO-MGR
04/18/23	88.815	Arizona Board of Regents	System Revenue Bonds	N	AZ	CO-MGR
04/18/23	72.855	Arizona Board of Regents	System Revenue Bonds	N	AZ	CO-MGR
04/18/23	368.710	Harris Co (Cypress-Fairbanks) ISD	School Building Bonds	N	TX	CO-MGR
04/19/23	135.505	Collin Co (Frisco) ISD	School Building and Ref Bonds	N	TX	CO-MGR
04/19/23	200.000	Illinois	General Obligation Bonds	N	IL	LEAD
04/19/23	2,311.210	Illinois	General Obligation & Ref Bonds	N	IL	LEAD
04/19/23	60.000	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
04/19/23	60.000	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
04/19/23	11.210	Oregon Hsg & Comm Svcs Dept	Mtg Revenue Bonds	N	OR	CO-MGR
04/19/23	40.005	Oregon Hsg & Comm Svcs Dept	Mortgage Revenue Bonds	N	OR	CO-MGR
04/19/23	254.695	So California Pub Pwr Au (SCPPA)	Revenue Bonds	N	CA	LEAD
04/19/23	116.855	Wake Co-North Carolina	Limited Obligation Bonds	N	NC	CO-MGR
04/20/23	56.550	Iowa State Board of Regents	Parking System BANS	C	IA	SOLE
04/20/23	164.410	Ohio State University	General Receipts Bonds	N	OH	SOLE
04/25/23	108.800	Norfolk City-Virginia	GO Capital Improvement Bonds	N	VA	CO-MGR
04/25/23	15.070	Norfolk City-Virginia	GO Capital Improvement Bonds	N	VA	CO-MGR
04/25/23	431.495	So California Pub Pwr Au (SCPPA)	Revenue Bonds	N	CA	LEAD
04/25/23	134.405	Union Co-North Carolina	GO School Bonds	C	NC	SOLE
04/26/23	242.960	Fort Bend Co (Katy) ISD	School Building Bonds	N	TX	CO-MGR
04/26/23	60.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
04/26/23	90.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
04/26/23	150.960	NYS Environmental Facs Corp	Revenue Bonds	N	NY	CO-MGR
04/26/23	201.195	Virginia Port Authority	Revenue & Refunding Bonds	N	VA	LEAD
04/26/23	8.230	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
04/26/23	14.700	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
04/26/23	41.770	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
04/27/23	50.000	Emeryville-California	General Obligation Bonds	C	CA	SOLE
04/27/23	495.425	Wisconsin	GO Refunding Bonds	N	WI	CO-MGR
05/02/23	506.815	Energy Northwest	Electric Rev Ref Bonds	N	WA	LEAD
05/02/23	181.500	Minneapolis City-Minnesota	Health Care System Rev Bonds	N	MN	CO-MGR
05/02/23	181.500	Minneapolis City-Minnesota	Health Care System Rev Bonds	N	MN	CO-MGR
05/03/23	254.210	Chicago City-Illinois	Second Lien Water Rev Bonds	N	IL	CO-MGR
05/03/23	322.205	Chicago City-Illinois	Second Lien Water Rev Ref Bonds	N	IL	CO-MGR
05/09/23	42.000	California Infstr & Eco Dev Bank	Rev Refunding Bonds	N	CA	SOLE
05/09/23	472.570	Lower Colorado River Authority (LCRA)	Transmission Contract Ref Bonds	N	TX	LEAD
05/09/23	191.885	Manatee Co-Florida	Pub Util Rev Imp & Ref Bonds	N	FL	CO-MGR
05/09/23	24.040	Oakland Co (Pontiac) SD	GO School Building & Site Bonds	N	MI	LEAD
05/10/23	85.085	Fort Worth City-Texas	Comb Tax&Rev Certs of Oblig Bonds	C	TX	SOLE
05/11/23	240.000	Arkansas Development Fin Auth	Environmental Imp Rev Bonds	N	AR	CO-MGR
05/11/23	31.950	Garrard Co SD Fin Corp	School Building Rev Bonds	C	KY	SOLE
05/11/23	112.505	Metro Atlanta Rapid Transit Au (MARTA)	Sales Tax Revenue Bonds	N	GA	LEAD
05/17/23	150.000	Florida Housing Finance Corp	Homeowner Mortgage Rev Bonds	N	FL	CO-MGR
05/18/23	22.390	Los Angeles Co (Wiseburn) USD	General Obligation Ref Bonds	C	CA	SOLE
05/18/23	14.500	Pima Co (Amphitheater) USD #10	School Improvement Bonds	N	AZ	SOLE

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
05/23/23	495.530	Los Angeles Dept Wtr & Pwr (LADWP)	Water System Rev Bonds	N	CA	LEAD
05/23/23	64.203	Somerville City-Massachusetts	General Obligation BANS	C	MA	SOLE
05/24/23	28.220	Dorchester Co-South Carolina	Wtrwks & Swr Sys Rev Bonds	N	SC	SOLE
05/24/23	105.195	Georgetown City-Texas	Utility System Revenue Bonds	N	TX	CO-MGR
05/24/23	388.910	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
05/24/23	5.070	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mortgage Rev Bonds	N	PA	CO-MGR
05/25/23	215.090	Oregon	H-way User Tax Rev Sub Lien Bonds	N	OR	LEAD
05/25/23	215.090	Oregon Dept of Transportation	Highway User Tax Rev Sub Ln Bonds	N	OR	LEAD
05/25/23	3.710	Rock Co-Wisconsin	GO Promissory Notes	C	WI	SOLE
05/31/23	72.500	Illinois Housing Dev Authority	Multi-Family Housing Rev Bonds	N	IL	SOLE
05/31/23	41.638	Los Angeles Co Development Auth	Multi-Family Housing Rev Bonds	N	CA	SOLE
05/31/23	32.000	Santa Clara Co (Union) ESD	General Obligation Bonds	N	CA	SOLE
05/31/23	106.190	South Carolina St Hsg Fin & Dev Au	Mortgage Revenue Bonds	N	SC	CO-MGR
06/01/23	58.235	New Jersey Hsg & Mtg Fin Agency	Multi-Family Housing Rev Bonds	N	NJ	CO-MGR
06/01/23	45.860	New Jersey Hsg & Mtg Fin Agency	Multi-Family Housing Rev Bonds	N	NJ	CO-MGR
06/01/23	29.850	New Jersey Hsg & Mtg Fin Agency	Multi-Family Housing Rev Bonds	N	NJ	CO-MGR
06/01/23	150.695	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
06/01/23	1,409.180	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
06/01/23	303.205	Raleigh City-North Carolina	Comb Enterprise Sys Rev&Ref Bonds	N	NC	CO-MGR
06/01/23	163.790	Utah State Board of Regents	General Revenue Bonds	N	UT	LEAD
06/02/23	4.715	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
06/02/23	75.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
06/02/23	45.285	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
06/06/23	20.000	Carteret Co-North Carolina	GO School Bonds	C	NC	SOLE
06/06/23	12.165	Franklin Co Industrial Dev Auth	Public Facility Revenue Bonds	N	VA	LEAD
06/06/23	40.000	Los Angeles Co (Norwalk-La Mirada) USD	General Obligation Bonds	N	CA	SOLE
06/06/23	337.915	Univ of Texas Sys Bd of Regents	Revenue Fin System Bonds	N	TX	CO-MGR
06/07/23	21.405	Montgomery Co Hsg Opportunities Comm	Single Fam Mtg Rev Bonds	N	MD	CO-MGR
06/07/23	8.000	Montgomery Co Hsg Opportunities Comm	Single Fam Mtg Rev Bonds	N	MD	CO-MGR
06/07/23	217.510	Virginia Transportation Board	Transportation Rev Bonds	C	VA	SOLE
06/08/23	187.375	Arlington Co-Virginia	GO Public Improvement Bonds	C	VA	SOLE
06/08/23	14.385	Montana Bd of Regents of Higher Ed	General Revenue Ref Bonds	N	MT	SOLE
06/08/23	300.000	Ohio Water Development Authority	Wtr Pollution Ctrl Loan Fund Rev	N	OH	CO-MGR
06/09/23	172.855	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
06/09/23	419.870	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
06/12/23	47.365	Chambers Co-Texas	Comb Tx & Rev Certs of Oblig	C	TX	SOLE
06/13/23	159.990	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
06/14/23	29.390	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	LEAD
06/14/23	91.645	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	LEAD
06/15/23	60.000	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
06/15/23	90.000	Minnesota Housing Fin Agency	Residential Hsg Finance Bonds	N	MN	CO-MGR
06/20/23	80.000	Gaston Co-North Carolina	GO School BANS	C	NC	SOLE
06/21/23	6.570	College Station City-Texas	General Obligation Bonds	C	TX	SOLE
06/21/23	9.410	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
06/21/23	9.300	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
06/21/23	3.900	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Project Bonds	N	CO	CO-MGR
06/21/23	149.360	Massachusetts Dev Finance Agcy	Refunding Revenue Bonds	N	MA	CO-MGR
06/21/23	50.370	Massachusetts Dev Finance Agcy	Refunding Revenue Bonds	N	MA	CO-MGR
06/21/23	47.545	Orange Co Transportation Auth	Sr Lien Toll Road Rev Ref Bonds	N	CA	LEAD
06/21/23	99.995	Putnam Co SD (FL)	GO School Bonds	C	FL	SOLE
06/21/23	89.580	Texas	GO Wtr Financial Assistance Bonds	N	TX	CO-MGR
06/21/23	24.875	Texas	GO Wtr Financial Assistance Bonds	N	TX	CO-MGR
06/21/23	35.750	Texas	GO Wtr Fin Assistance Ref Bonds	N	TX	CO-MGR
06/22/23	290.725	NYC Housing Dev Corp	Housing Impact Bonds	N	NY	CO-MGR
06/22/23	29.580	NYC Housing Dev Corp	Housing Impact Bonds	N	NY	CO-MGR
06/22/23	125.200	Swarthmore Borough Authority	Swarthmore College Rev Bonds	C	PA	SOLE
06/27/23	41.060	Harris Co (Klein) ISD	Unlimited Tax Ref Bonds	C	TX	SOLE
06/27/23	433.355	San Diego Co Reg Trans Comm	Sales Tax Revenue Bonds	N	CA	LEAD
06/27/23	135.000	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
06/27/23	100.000	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
06/28/23	10.000	Wisconsin Hsg & Econ Dev Auth	Weekly Var Rate Hsg Rev Bonds	N	WI	SOLE
06/29/23	2.780	Battery Park City Authority	Senior Revenue Bonds	N	NY	CO-MGR
06/29/23	339.820	Battery Park City Authority	Senior Revenue Bonds	N	NY	CO-MGR
06/29/23	9.205	Battery Park City Authority	Senior Revenue Bonds	N	NY	CO-MGR
06/29/23	380.720	Battery Park City Authority	Senior Revenue Bonds	N	NY	CO-MGR
06/29/23	138.320	Corpus Christi City-Texas	Utility Sys Rev Imp & Ref Bonds	N	TX	CO-MGR
06/29/23	227.655	Florida Insurance Assistance Interlocal Agy	Insurance Spec Assessment Bonds	N	FL	LEAD

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
06/29/23	125.000	Florida Insurance Assistance Interlocal Agy	Insurance Assesment Rev Bonds	N	FL	LEAD
06/29/23	237.670	Florida Insurance Assistance Interlocal Agy	Insurance Spec Assessment Bonds	N	FL	LEAD
06/29/23	70.000	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
06/29/23	30.000	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
06/29/23	62.785	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
06/29/23	32.215	NYS Housing Fin-Mortgage Agcy	Homeowner Mortgage Rev Bonds	N	NY	CO-MGR
06/30/23	18.000	So California Metro Water Dt	Flexible Rate Revolving Note	P	CA	SOLE
07/06/23	116.645	Galveston Co (Dickinson) ISD	Schoolhouse Bonds	N	TX	LEAD
07/07/23	29.295	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	CO-MGR
07/07/23	70.000	Mississippi Home Corporation	Single Family Mtg Rev Bonds	N	MS	CO-MGR
07/11/23	44.025	Allegheny Co Higher Ed Bldg Auth	Revenue Bonds	N	PA	SOLE
07/11/23	75.000	Charlotte City-North Carolina	GO Housing Bonds	C	NC	SOLE
07/11/23	146.830	Connecticut Housing & Fin Auth (CHFA)	Housing Mortgage Fin Prog Bonds	N	CT	CO-MGR
07/11/23	76.665	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
07/11/23	25.880	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
07/11/23	414.035	San Francisco City/Co Public Util Comm	Water Revenue Bonds	N	CA	LEAD
07/11/23	37.135	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	LEAD
07/11/23	73.760	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	LEAD
07/12/23	18.535	Frisco City-Texas	Comb Tx & Surplus Rev COBs	C	TX	SOLE
07/12/23	42.775	Frisco City-Texas	Comb Tx & Surplus Rev COBs	C	TX	SOLE
07/12/23	160.000	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
07/13/23	54.035	Miami Beach City-Florida	General Obligation Bonds	N	FL	LEAD
07/13/23	43.120	Miami Beach City-Florida	General Obligation Bonds	N	FL	LEAD
07/18/23	280.985	Michigan State Building Auth	Revenue Refunding Bonds	N	MI	CO-MGR
07/18/23	559.535	Santa Clara Valley Trans Auth	Sales Tax Rev Ref Bonds	N	CA	LEAD
07/19/23	337.155	California State Univ Trustees	Systemwide Revenue Bonds	N	CA	CO-MGR
07/19/23	462.200	California State Univ Trustees	Systemwide Revenue Bonds	N	CA	CO-MGR
07/19/23	37.055	Gastonia City-North Carolina	Combined Utilities Sys Rev Bonds	N	NC	SOLE
07/19/23	130.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	C	NY	SOLE
07/19/23	600.000	Salt Lake City-Utah	Airport Revenue Bonds	N	UT	CO-MGR
07/19/23	486.875	San Francisco City/Co Public Util Comm	Refunding Revenue Bonds	N	CA	CO-MGR
07/19/23	27.980	San Francisco City/Co Public Util Comm	Refunding Revenue Bonds	N	CA	CO-MGR
07/20/23	2.200	District of Columbia Hsg Fin Agy	Multi-Family Housing Rev Bonds	N	DC	SOLE
07/20/23	521.730	Fort Bend Co (Lamar) CISD	Unltd Tax Schoolhouse Bonds	N	TX	CO-MGR
07/20/23	80.595	Johnston Co-North Carolina	Water and Sewer Sys Rev Bonds	N	NC	CO-MGR
07/20/23	115.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
07/20/23	185.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
07/20/23	950.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
07/20/23	72.725	Philadelphia Energy Auth	City Service Agreement Rev Bonds	N	PA	LEAD
07/20/23	10.800	Philadelphia Energy Auth	City Service Agreement Rev Bonds	N	PA	LEAD
07/20/23	23.500	Texas State Affordable Hsg Corp	Multi-Family Housing Rev Bonds	N	TX	SOLE
07/25/23	18.865	Columbus Hospital Authority	Refunding Revenue Antic Certs	C	GA	SOLE
07/26/23	199.000	North Carolina Housing Fin Agcy	Home Ownership Rev Bonds	N	NC	CO-MGR
07/27/23	141.580	Charleston Ed Excellence Fin Corp	Installation Purch Rev Ref Bonds	N	SC	SOLE
07/27/23	130.000	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
07/27/23	20.000	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
07/27/23	38.435	Myrtle Beach City-South Carolina	Wtrwrks & Swr Sys Ref & Imp Bonds	N	SC	SOLE
08/01/23	50.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
08/01/23	62.500	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
08/01/23	23.415	Marble Falls City-Texas	Comb Tax & Rev COBs	C	TX	SOLE
08/01/23	31.050	San Marcos City-Texas	Comb Tax & Rev COBs	C	TX	SOLE
08/02/23	165.405	Harris Co (Spring Branch) ISD	Unltd Tx Schoolhouse Bonds	N	TX	LEAD
08/02/23	400.000	Long Island Power Authority	Electric System Gen Rev Bonds	N	NY	LEAD
08/02/23	179.310	Long Island Power Authority	Electric System Gen Rev Bonds	N	NY	LEAD
08/02/23	3.645	Montgomery Co Hsg Opportunities Comm	Multiple Purpose Bonds	N	MD	CO-MGR
08/02/23	57.355	Montgomery Co Hsg Opportunities Comm	Multiple Purpose Bonds	N	MD	CO-MGR
08/03/23	61.290	NYS Dorm Authority	State Sales Tax Revenue Bonds	N	NY	CO-MGR
08/03/23	1,303.485	NYS Dorm Authority	State Sales Tax Revenue Bonds	N	NY	CO-MGR
08/03/23	379.765	NYS Dorm Authority	State Sales Tax Revenue Bonds	N	NY	CO-MGR
08/08/23	119.135	Harris Co-Texas	Permanent Imp Ref Bonds	N	TX	CO-MGR
08/08/23	96.560	Harris Co-Texas	Road Refunding Bonds	N	TX	CO-MGR
08/08/23	797.800	Washington Metro Area Transit Au	Second Lien Dedicated Rev Bonds	N	DC	LEAD
08/09/23	106.000	Florida Housing Finance Corp	Homeowner Mtg Rev Bonds	N	FL	CO-MGR
08/09/23	64.000	Florida Housing Finance Corp	Homeowner Mtg Rev Bonds	N	FL	CO-MGR
08/09/23	72.610	Garland City-Texas	Electric Util Sys Rev Ref Bonds	N	TX	CO-MGR
08/10/23	950.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
08/10/23	66.685	New York City-New York	General Obligation Bonds	N	NY	CO-MGR

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
08/10/23	51.190	Webster Town-New York	BANs	C	NY	SOLE
08/11/23	0.745	California Municipal Fin Auth	Multi-Family Housing Rev Bonds	P	CA	SOLE
08/14/23	61.945	Kingsport City-Tennessee	GO Public Improvement Bonds	C	TN	SOLE
08/15/23	76.070	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds	N	ID	CO-MGR
08/15/23	150.295	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds	N	ID	CO-MGR
08/15/23	225.890	Louisiana	Grant Anticipation Revenue Bonds	N	LA	LEAD
08/16/23	180.000	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
08/16/23	452.680	Tennessee	General Obligation Bonds	C	TN	SOLE
08/22/23	296.415	Sacramento Transportation Auth	Measure A Sales Tax Rev Ref Bonds	N	CA	CO-MGR
08/23/23	1,193.645	Michigan	State Trunk Line Fund Bonds	N	MI	LEAD
08/23/23	70.000	Minnesota Housing Fin Agency	Residential Hsg Fin Bonds	N	MN	CO-MGR
08/23/23	30.000	Minnesota Housing Fin Agency	Residential Hsg Fin Bonds	N	MN	CO-MGR
08/24/23	126.665	California Infrstr & Eco Dev Bank	Revenue Refunding Bonds	N	CA	SOLE
08/24/23	1,000.000	NYC Transitional Finance Auth	Future Tax Sec Sub Bonds	N	NY	LEAD
08/24/23	185.000	Wisconsin Hsg & Econ Dev Auth	Home Ownership Rev Bonds	N	WI	CO-MGR
08/29/23	190.000	Huntsville Health Care Auth	Bonds	N	AL	SOLE
08/29/23	154.470	Lakeland City-Florida	Energy System Rev & Ref Bonds	N	FL	LEAD
08/29/23	100.000	South Carolina St Hsg Fin & Dev Au	Mortgage Revenue Bonds	N	SC	CO-MGR
08/30/23	26.635	Minnesota Housing Fin Agency	State Appropriation Bonds	N	MN	CO-MGR
08/30/23	110.970	Richmond City-Virginia	Pub Utility Rev & Ref Bonds	N	VA	LEAD
09/06/23	50.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	CO-MGR
09/06/23	99.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	CO-MGR
09/07/23	2,581.595	California	Var Purp GO & Ref Bonds	N	CA	CO-MGR
09/07/23	29.920	Maryland Dept Hsg & Com Dev (DHCD)	Housing Rev Bonds	N	MD	CO-MGR
09/07/23	4.280	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
09/07/23	99.450	Washington St Hsg Fin Commission	Single-Family Program Bonds	N	WA	CO-MGR
09/07/23	81.945	Washington St Hsg Fin Commission	Single Family Program Bonds	N	WA	CO-MGR
09/08/23	351.370	Arizona Transportation Board	Highway Rev & Rev Ref Bonds	N	AZ	LEAD
09/08/23	87.310	Michigan St Hsg Dev Au (MSHDA)	Single Family Mortgage Rev Bonds	N	MI	CO-MGR
09/08/23	305.615	Michigan St Hsg Dev Au (MSHDA)	Single-Family Mtg Rev Bonds	N	MI	CO-MGR
09/12/23	169.845	Greenville Co SD	General Obligation Notes	C	SC	SOLE
09/12/23	10.995	Minnesota Housing Fin Agency	Residential Hsg Fin Bonds	N	MN	CO-MGR
09/12/23	49.005	Minnesota Housing Fin Agency	Residential Hsg Fin Bonds	N	MN	CO-MGR
09/12/23	60.000	Minnesota Housing Fin Agency	Residential Hsg Fin Bonds	N	MN	CO-MGR
09/12/23	30.000	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
09/12/23	265.570	Ohio State University	General Receipts Bonds	N	OH	CO-MGR
09/12/23	111.885	Ohio State University	General Receipts Ref Bonds	N	OH	CO-MGR
09/12/23	41.330	Royse City-Texas	Comb Tx & Ltd Surp Rev COBs	C	TX	SOLE
09/13/23	26.020	Central Kitsap Fire & Rescue	Unitd Tax GO Bonds	C	WA	SOLE
09/14/23	888.855	NYS Dorm Authority	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
09/14/23	37.715	NYS Dorm Authority	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
09/18/23	40.615	Upton Co-Texas	Tax Notes	C	TX	SOLE
09/18/23	50.000	York Co (Clover) SD #2	General Obligation BANs	C	SC	SOLE
09/19/23	154.490	Minneapolis-St Paul Metro Airports Comm	Sub Airport Revenue Ref Bonds	N	MN	CO-MGR
09/19/23	8.290	Minneapolis-St Paul Metro Airports Comm	Sub Airport Revenue Ref Bonds	N	MN	CO-MGR
09/25/23	40.000	Walnut Creek Special Utility Dt	Water System Revenue Bonds	C	TX	SOLE
09/27/23	94.175	Missouri Joint Municipal Electric Utility Comm	Power Project Rev Ref Bonds	N	MO	CO-MGR
09/27/23	5.080	Texas Water Development Board	Revenue Bonds	N	TX	LEAD
09/27/23	1,007.490	Texas Water Development Board	Revenue Bonds	N	TX	LEAD
09/28/23	33.305	Muscle Shoals Solid Waste Disposal Auth	Revenue Bonds	N	AL	LEAD
09/28/23	604.015	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds	N	NY	CO-MGR
09/28/23	88.710	NYC Municipal Water Fin Auth	Wtr & Swr Sys 2nd Gen Res Bonds	N	NY	CO-MGR
10/02/23	55.000	Indiana Finance Authority	Revenue Bonds	D	IN	SOLE
10/03/23	549.760	Omaha Public Power Dt (OPPD)	Electric System Revenue Bonds	N	NE	CO-MGR
10/03/23	77.600	Utah Transit Au (UTA)	Sales Tax Rev Ref Bonds	N	UT	SOLE
10/04/23	440.545	California	Various Purpose GO Bonds	C	CA	SOLE
10/04/23	87.180	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
10/04/23	22.500	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
10/04/23	178.750	Illinois Housing Dev Authority	Revenu Bonds	N	IL	LEAD
10/04/23	64.165	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
10/04/23	305.000	Tennessee Hsg Dev Agcy (THDA)	Residential Fin Prog Bonds	N	TN	CO-MGR
10/04/23	55.000	Tennessee Hsg Dev Agcy (THDA)	Residential Fin Prog Bonds	N	TN	CO-MGR
10/04/23	100.000	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	CO-MGR
10/04/23	150.000	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	CO-MGR
10/04/23	77.552	Woodbridge Twp-New Jersey	BANs	C	NJ	SOLE
10/05/23	110.000	Florida Housing Finance Corp	Homeowner Mtg Revenue Bonds	N	FL	CO-MGR
10/05/23	40.000	Florida Housing Finance Corp	Homeowner Mtg Revenue Bonds	N	FL	CO-MGR

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
10/05/23	14.565	Lee Co-North Carolina	Limited Obligation Bonds	N	NC	SOLE
10/05/23	700.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
10/05/23	265.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
10/11/23	85.065	Charlotte City-North Carolina	Refunding Certs of Participation	N	NC	LEAD
10/11/23	130.140	Georgia Housing Finance Authority	Single Family Mortgage Bonds	N	GA	CO-MGR
10/11/23	271.300	Houston City-Texas	Public Improvement & Ref Bonds	N	TX	CO-MGR
10/12/23	15.750	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds	N	CT	LEAD
10/12/23	36.430	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Finance Prog Bonds	N	CT	LEAD
10/17/23	260.000	Massachusetts	GO Consolidated Loan Bonds	C	MA	SOLE
10/17/23	577.235	North Texas Tollway Auth (NTTA)	System Revenue Ref Bonds	N	TX	CO-MGR
10/18/23	35.250	Arlington Co Industrial Dev Auth	Revenue Bonds	N	VA	CO-MGR
10/18/23	21.590	Colorado Hsg & Fin Auth (CHFA)	Multi-Family/Project Bonds	N	CO	CO-MGR
10/18/23	2.360	Colorado Hsg & Fin Auth (CHFA)	Multi-Family/Project Bonds	N	CO	CO-MGR
10/18/23	100.810	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	LEAD
10/18/23	42.350	Pima Co-Arizona	Sewer Sys Revenue & Ref Oblig	N	AZ	CO-MGR
10/19/23	20.640	Augusta Dev Auth	Revenue Bonds	N	GA	SOLE
10/19/23	1,224.005	Connecticut	Special Tax Oblig & Ref Bonds	N	CT	CO-MGR
10/19/23	187.975	Empire State Development Corp	State Sales Tax Rev Bonds	C	NY	SOLE
10/19/23	43.500	Maiker Housing Partners	Multi-Family Housing Rev Bonds	N	CO	SOLE
10/19/23	64.865	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
10/19/23	4.105	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
10/19/23	90.895	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
10/19/23	1,000.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
10/19/23	23.915	Pima Co-Arizona	Certificates of Participation	N	AZ	LEAD
10/19/23	15.155	Pima Co-Arizona	Certificates of Participation	N	AZ	LEAD
10/24/23	734.220	NYS Power Authority	Revenue Bonds	N	NY	CO-MGR
10/24/23	100.000	Pinellas Co SD	TANs	C	FL	SOLE
10/25/23	389.370	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mtg Rev Bonds	N	PA	LEAD
10/25/23	20.235	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mtg Rev Bonds	N	PA	LEAD
10/31/23	40.220	Cleveland City-Ohio	Refunding Certs of Participation	N	OH	LEAD
10/31/23	14.485	Myrtle Beach City-South Carolina	Limited Obligation Bonds	N	SC	SOLE
10/31/23	140.020	Oregon	General Obligation Bonds	N	OR	CO-MGR
10/31/23	18.050	Oregon	General Obligation Bonds	N	OR	CO-MGR
11/01/23	190.125	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Prog Bonds	N	CT	CO-MGR
11/01/23	74.240	Montgomery Co Hsg Opportunities Comm	Multiple Purpose Bonds	N	MD	CO-MGR
11/06/23	275.000	University of Pittsburgh	University Capital Project Bonds	N	PA	LEAD
11/06/23	200.000	University of Pittsburgh	Higher Education Pitt Asset Notes	N	PA	LEAD
11/07/23	110.000	California Educational Facs Auth	Revenue Bonds	N	CA	LEAD
11/07/23	200.000	Charlotte City-North Carolina	General Obligation Bonds	D	NC	SOLE
11/07/23	126.960	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
11/08/23	50.000	California Municipal Fin Auth	Solid Waste Disposal Rev Bonds	N	CA	CO-MGR
11/08/23	48.375	Charleston Public Facs Corp	Installment Purchase Rev Bonds	N	SC	LEAD
11/08/23	75.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
11/08/23	325.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Rev Bonds	N	MD	CO-MGR
11/08/23	282.250	Massachusetts Clean Water Trust	State Revolving Fund & Ref Bonds	N	MA	CO-MGR
11/08/23	111.870	Massachusetts Clean Water Trust	State Revolving Fund Bonds	N	MA	CO-MGR
11/08/23	48.750	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
11/08/23	82.500	Minnesota Housing Fin Agency	Residential Hsg Finance Bonds	N	MN	CO-MGR
11/08/23	43.750	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
11/08/23	358.045	University of Connecticut	GO & Refunding Bonds	N	CT	CO-MGR
11/08/23	50.000	Yolo Co (Washington) USD	General Obligation Bonds	C	CA	SOLE
11/09/23	141.000	Hampton Roads Trans Acc Com (HRTAC)	Trans Fund Intermediate Lien BANs	N	VA	LEAD
11/09/23	30.175	Miami City-Florida	Spec Oblig Non-Ad Val Rev Bonds	N	FL	CO-MGR
11/09/23	241.220	Miami City-Florida	Special Oblig Rev Bonds	N	FL	CO-MGR
11/09/23	75.000	North Carolina Housing Fin Agcy	Home Ownership Rev Bonds	N	NC	CO-MGR
11/09/23	235.000	North Carolina Housing Fin Agcy	Home Ownership Rev Bonds	N	NC	CO-MGR
11/09/23	128.960	NYS Utility Debt Securitization Auth	Restructuring Bonds	N	NY	CO-MGR
11/09/23	661.500	NYS Utility Debt Securitization Auth	Restructuring Bonds	N	NY	CO-MGR
11/09/23	6.555	NYS Utility Debt Securitization Auth	Restructuring Bonds	N	NY	CO-MGR
11/09/23	36.200	NYS Utility Debt Securitization Auth	Restructuring Bonds	N	NY	CO-MGR
11/09/23	65.000	Southampton Co Indus Dev Auth	Environmental Imp Rev Bonds	N	VA	SOLE
11/10/23	41.900	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
11/10/23	125.955	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
11/13/23	121.500	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
11/14/23	297.060	Great Lakes Water Auth (GLWA)	Sewage Disposal Sys Ref Bonds	N	MI	CO-MGR
11/14/23	215.745	Great Lakes Water Auth (GLWA)	Water Supply Sys Rev & Ref Bonds	N	MI	CO-MGR
11/15/23	48.750	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
11/15/23	26.250	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
11/15/23	88.000	Orange Co (Anaheim) ESD	General Obligation Bonds	C	CA	SOLE
11/15/23	40.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	LEAD
11/15/23	105.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	LEAD
11/15/23	70.000	South Dakota Housing Dev Auth	Homeownership Mtg Bonds	N	SD	SOLE
11/15/23	20.000	South Dakota Housing Dev Auth	Homeownership Mtg Bonds	N	SD	SOLE
11/16/23	2.200	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
11/16/23	50.505	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
11/16/23	65.590	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
11/16/23	59.165	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
11/16/23	1,250.000	New Jersey Trans Trust Fund Au	Transportation Program Bonds	N	NJ	LEAD
11/17/23	23.400	Atlanta Urban Resdntl Fin Auth	Multi-Family Housing Rev Note	P	GA	SOLE
11/17/23	65.500	Maryland Dept Hsg & Com Dev (DHCD)	Project Loan	P	MD	SOLE
11/28/23	44.210	Colorado Reg Transportation Dt	Certificates of Participation	N	CO	CO-MGR
11/29/23	28.460	Allegheny Co Higher Ed Bldg Auth	University Revenue Bonds	N	PA	SOLE
11/29/23	206.785	Idaho Housing & Fin Assoc	Single Family Mortgage Rev Bonds	N	ID	CO-MGR
11/29/23	14.605	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
11/29/23	100.000	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	LEAD
11/29/23	50.000	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	LEAD
11/29/23	155.000	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	LEAD
11/29/23	200.000	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	LEAD
11/30/23	34.575	Colorado Hsg & Fin Auth (CHFA)	Multi-Family/Project Bonds	N	CO	CO-MGR
11/30/23	175.000	Manatee Co-Florida	Revenue Improvement Bonds	N	FL	CO-MGR
12/05/23	7.320	Franklin City-Virginia	GO Public Improvement Bonds	N	VA	SOLE
12/06/23	30.430	Goleta Water Dt	Refunding Revenue Bonds	N	CA	SOLE
12/06/23	750.000	Hawaii	General Obligation Bonds	N	HI	CO-MGR
12/06/23	56.195	NYS Housing Fin-Mortgage Agcy	Affordable Hsg Rev Bonds	N	NY	CO-MGR
12/06/23	22.740	NYS Housing Fin-Mortgage Agcy	Affordable Hsg Rev Bonds	N	NY	CO-MGR
12/06/23	52.835	NYS Housing Fin-Mortgage Agcy	Affordable Hsg Rev Bonds	N	NY	CO-MGR
12/06/23	31.500	Texas State Affordable Hsg Corp	Multi-Family Housing Rev Bonds	N	TX	SOLE
12/06/23	24.900	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	LEAD
12/06/23	57.700	Wisconsin Hsg & Econ Dev Auth	Housing Revenue Bonds	N	WI	LEAD
12/07/23	198.030	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
12/07/23	53.585	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
12/07/23	1,269.070	NYC Transitional Finance Auth	Future Tx Sec Sub Bonds	N	NY	CO-MGR
12/08/23	32.650	Riverhead IDA Econ Job Dev Corp	Multi-Family Bonds	N	NY	SOLE
12/11/23	22.130	Illinois Housing Dev Authority	Multi-Family Housing Rev Bonds	N	IL	SOLE
12/12/23	199.568	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	D	MD	LEAD
12/13/23	37.395	Comm of Iron Range Res & Rehab Minnesota	Educ Fac Rev Bonds	C	MN	SOLE
12/13/23	99.595	Illinois Housing Dev Authority	Multi-Family Housing Rev Bonds	N	IL	SOLE
12/14/23	46.000	Alliance Regional Water Auth	BANs	D	TX	SOLE
12/14/23	334.625	Empire State Development Corp	State Personal Inc Tx Rev Bonds	C	NY	SOLE
12/14/23	873.710	Illinois State Toll Highway Auth	Toll Highway Sr Rev Bonds	N	IL	LEAD
12/14/23	40.000	Worcester (Spencer East-Brookfield) RSD	General Obligation BANs	C	MA	SOLE
12/15/23	16.245	Serritoga Falls Metro Dt #1	Senior GO Limited Tax Bonds	P	CO	SOLE
12/15/23	8.755	Serritoga Falls Metro Dt #1	Senior GO Limited Tax Bonds	P	CO	SOLE
12/19/23	18.895	Dorchester Co-South Carolina	Summers Corner Imp Dt Asmt Bonds	N	SC	SOLE
12/19/23	15.500	Westchester Co Indust Dev Agcy	Multi-Family Housing Rev Bonds	N	NY	SOLE
12/19/23	10.000	Wisconsin Hsg & Econ Dev Auth	Housing Rev Bonds	N	WI	SOLE
12/20/23	209.570	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/20/23	426.190	Connecticut	GO & Refunding Bonds	N	CT	CO-MGR
12/20/23	45.470	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/20/23	47.840	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/20/23	97.120	Connecticut	General Obligation Bonds	N	CT	CO-MGR
12/20/23	22.310	Erie Co Industrial Dev Agency	Multi-Family Bonds	N	NY	SOLE
01/04/24	61.530	Truckee Meadows Water Auth	Water Revenue Bonds	N	NV	LEAD
01/09/24	63.800	Tacoma City-Washington	Water Sys Rev Ref Bonds	N	WA	LEAD
01/10/24	100.000	North Carolina Housing Fin Agcy	Home Ownership Revenue Bonds	N	NC	LEAD
01/10/24	200.000	North Carolina Housing Fin Agcy	Home Ownership Revenue Bonds	N	NC	LEAD
01/11/24	670.000	Colorado	Educ Loan Prog TRANs	C	CO	LEAD
01/11/24	213.680	Dallas City-Texas	Comb Tx & Revenue COBs	C	TX	SOLE
01/11/24	54.060	Fulton Co Development Authority	Georgia Tech Facs Revenue Bonds	N	GA	CO-MGR
01/11/24	1,882.265	Massachusetts	GO Cons Loan & Ref Bonds	N	MA	CO-MGR
01/12/24	19.660	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	LEAD
01/12/24	70.000	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	LEAD
01/17/24	93.750	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
01/18/24	281.280	Los Angeles Dept Wtr & Pwr (LADWP)	Water System Revenue Bonds	N	CA	LEAD

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
01/19/24	62.615	Howard Co Housing Commission	General Revenue Bonds	N	MD	CO-MGR
01/22/24	19.250	Fayette Co (Schulenburg) ISD	Unlimited Tax Schl Bldg Bonds	C	TX	SOLE
01/23/24	34.060	Fulton Co Development Authority	Revenue Bonds	N	GA	CO-MGR
01/23/24	73.605	Minnesota Housing Fin Agency	Residential Hsg Fin Bonds	N	MN	CO-MGR
01/23/24	31.395	Minnesota Housing Fin Agency	Residential Hsg Fin Bonds	N	MN	CO-MGR
01/23/24	82.650	Mississippi St Univ Ed Bldg Corp	Revenue & Refunding Bonds	N	MS	LEAD
01/23/24	48.325	Mississippi St Univ Ed Bldg Corp	Refunding Bonds	N	MS	LEAD
01/24/24	120.000	Alaska Housing Finance Corp	Gen Mortgage Revenue Bonds II	N	AK	CO-MGR
01/24/24	123.120	Alaska Housing Finance Corp	Gen Mtg Rev Bonds II	N	AK	CO-MGR
01/24/24	53.750	Lynnfield Town-Massachusetts	General Obligation BANs	C	MA	SOLE
01/24/24	143.970	Regents of the University of California	General Revenue Bonds	N	CA	CO-MGR
01/24/24	1,251.925	Regents of the University of California	General Revenue Bonds	N	CA	CO-MGR
01/24/24	162.000	Rock Hill City-South Carolina	Combined Util System Rev Bonds	N	SC	SOLE
01/24/24	150.000	South Carolina St Hsg Fin & Dev Au	Mortgage Revenue Bonds	N	SC	CO-MGR
01/25/24	32.350	Tacoma City-Washington	Reg Wtr Supply Sys Rev Ref Bonds	N	WA	CO-MGR
01/25/24	9.250	Ventura Co (Conejo Valley) USD	General Obligation CIBs	N	CA	SOLE
01/25/24	20.341	Ventura Co (Conejo Valley) USD	General Obligation CABs	N	CA	SOLE
01/31/24	75.000	Bristol Co (Bristol-Plymouth) RSD	General Obligation BANs	C	MA	SOLE
01/31/24	1,024.320	NYS Thruway Authority	General Revenue Bonds	N	NY	CO-MGR
02/01/24	31.575	Aiken-South Carolina	Water & Sewer Sys Rev Bonds	N	SC	SOLE
02/05/24	23.345	Runnels Co (Jim Ned) CISD	Unlimited Tax Sch Bldg Bonds	C	TX	SOLE
02/06/24	190.000	Wisconsin Hsg & Econ Dev Auth	Home Ownership Rev Bonds	N	WI	CO-MGR
02/07/24	658.605	Massachusetts	GO Refunding Bonds	N	MA	CO-MGR
02/07/24	20.000	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
02/07/24	29.395	North Charleston City-South Carolina	Limited Obligation Bonds	N	SC	SOLE
02/07/24	31.050	San Joaquin Co Transpo Auth	Measure K Sales Tax Ref Bonds	N	CA	SOLE
02/07/24	87.300	Sherburne Co (Elk River Area) ISD #728	GO Schl Bldg&Alt Facs Ref Bonds	C	MN	SOLE
02/07/24	150.000	Wisconsin	Environmental Imp Fund Rev Bonds	C	WI	SOLE
02/08/24	145.000	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
02/08/24	1,000.000	NYC Transitional Finance Auth	Future Tax Secured Sub Bonds	N	NY	CO-MGR
02/13/24	94.500	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
02/13/24	175.500	Tennessee Hsg Dev Agcy (THDA)	Residential Finance Program Bonds	N	TN	CO-MGR
02/14/24	349.250	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
02/14/24	28.975	University System of Maryland	Aux Facs & Tuition Rev Bonds	C	MD	SOLE
02/14/24	75.890	University System of Maryland	Aux Facs & Tuition Rev Bonds	C	MD	SOLE
02/20/24	32.205	Wisconsin Public Finance Auth	Revenue Bonds	N	WI	SOLE
02/21/24	197.195	Connecticut Housing & Fin Auth (CHFA)	Housing Mgt Fin Prog Bonds	N	CT	CO-MGR
02/21/24	622.765	Maryland Transportation Authority	Revenue Refunding Bonds	N	MD	CO-MGR
02/21/24	412.570	Univ of Texas Sys Bd of Regents	Permanent Univ Fund Bonds	N	TX	LEAD
02/21/24	129.465	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
02/21/24	9.900	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
02/21/24	37.705	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
02/22/24	217.555	Bay Area Toll Authority (BATA)	Revenue Bonds	N	CA	CO-MGR
02/22/24	182.160	Bay Area Toll Authority (BATA)	Revenue Bonds	N	CA	CO-MGR
02/22/24	152.840	Bay Area Toll Authority (BATA)	Revenue Bonds	N	CA	CO-MGR
02/22/24	281.450	California Infrstr & Eco Dev Bank	Revenue Bonds	N	CA	SOLE
02/22/24	38.440	Rock Co-Wisconsin	General Obligation Bonds	C	WI	SOLE
02/23/24	126.330	Michigan St Hsg Dev Au (MSHDA)	Single-Family Mortgage Rev Bonds	N	MI	CO-MGR
02/23/24	248.295	Michigan St Hsg Dev Au (MSHDA)	Single-Family Mortgage Rev Bonds	N	MI	CO-MGR
02/27/24	165.857	Oyster Bay Town-New York	Water District Notes	C	NY	SOLE
02/28/24	110.000	Bay Area Toll Authority (BATA)	Revenue Bonds	N	CA	LEAD
02/28/24	205.620	Pennsylvania Housing Fin Agcy (PHFA)	Single-Family Mtg Rev Bonds	N	PA	CO-MGR
02/28/24	59.060	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mtg Rev Bonds	N	PA	CO-MGR
02/29/24	39.695	Fulton Co Development Authority	Georgia Tech Fac Ref Rev Bonds	N	GA	CO-MGR
02/29/24	1,200.000	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
02/29/24	309.905	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
03/05/24	10.575	Kentucky	Revenue Refunding Bonds	C	KY	SOLE
03/05/24	1,092.295	Regents of the University of California	General Revenue Bonds	N	CA	CO-MGR
03/06/24	244.850	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds	N	ID	CO-MGR
03/06/24	290.940	Idaho Housing & Fin Assoc	Single Family Mortgage Bonds	N	ID	CO-MGR
03/06/24	318.180	Lower Colorado River Authority (LCRA)	Transmission Cont Ref Rev Bonds	N	TX	LEAD
03/06/24	14.765	Maryland Dept Hsg & Com Dev (DHCD)	Housing Revenue Bonds	N	MD	CO-MGR
03/06/24	1,363.775	NYC Municipal Water Fin Auth	Water and Sewer Revenue Bonds	N	NY	CO-MGR
03/07/24	60.000	Florida Housing Finance Corp	Homeowner Mortgage Rev Bonds	N	FL	CO-MGR
03/07/24	110.000	Florida Housing Finance Corp	Homeowner Mortgage Rev Bonds	N	FL	CO-MGR
03/11/24	60.000	Minnesota Housing Fin Agency	Residential Housing Finance Bonds	N	MN	CO-MGR
03/11/24	160.000	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds,	N	VA	CO-MGR

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Sale Date	Par Amount (\$mils)	Issuer	Issue Description	Bid	State	Role
03/11/24	80.000	Virginia Housing Dev Auth (VHDA)	Commonwealth Mortgage Bonds	N	VA	CO-MGR
03/12/24	54.080	Portland City-Oregon	Limited Tax Revenue Bonds	C	OR	SOLE
03/13/24	70.000	Anderson Co SD #4	General Obligation BANS	C	SC	SOLE
03/13/24	285.190	California Health Facs Fin Auth	Revenue Bonds	N	CA	CO-MGR
03/13/24	319.375	Clark Co-Nevada	Airport System Sub Lien Ref Rev	N	NV	CO-MGR
03/13/24	150.920	Clark Co-Nevada	Airport Sys Jr Sub Ln Rev Notes	N	NV	CO-MGR
03/13/24	718.200	Colorado Health Facilities Auth	Revenue Bonds	N	CO	CO-MGR
03/13/24	100.000	Texas Dept of Hsg & Comm Affairs	Residential Mortgage Rev Bonds	N	TX	CO-MGR
03/13/24	150.000	Texas Dept of Hsg & Comm Affairs	Residential Mortgage Rev Bonds	N	TX	CO-MGR
03/13/24	37.251	Winchester Town-Massachusetts	General Obligation BANS	C	MA	SOLE
03/14/24	338.780	Idaho Housing & Fin Assoc	Sales Tax Rev Bonds	N	ID	CO-MGR
03/14/24	64.735	NYS Dorm Authority	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
03/14/24	2,811.100	NYS Dorm Authority	State Personal Inc Tax Rev Bonds	N	NY	CO-MGR
03/15/24	58.910	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/15/24	15.205	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/15/24	209.510	NYS Housing Fin-Mortgage Agcy	Affordable Housing Rev Bonds	N	NY	CO-MGR
03/19/24	127.255	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Bonds	N	CO	CO-MGR
03/19/24	114.325	Los Angeles Co Metro Trans Auth	1st Tier Sr Sls Tx Rev Ref Bonds	N	CA	LEAD
03/19/24	42.680	Los Angeles Co Metro Trans Auth	1st Tier Sr Sls Tx Rev Ref Bonds	N	CA	LEAD
03/19/24	235.843	New Hampshire National Fin Auth	Municipal Certificates Series	N	NH	CO-MGR
03/19/24	235.843	New Hampshire National Fin Auth	Municipal Certificates Series	N	NH	CO-MGR
03/19/24	242.185	NYS Dorm Authority	Consol Fifth Gen Reso Rev Bonds	C	NY	SOLE
03/19/24	11.000	San Diego Co (Escondido) USD	General Obligation Bonds	N	CA	SOLE
03/19/24	207.580	Wisconsin	Transportation Rev Ref Bonds	N	WI	LEAD
03/22/24	717.295	NYS Environmental Facs Corp	Revenue Bonds	N	NY	CO-MGR
03/26/24	2,608.650	California	Various Purpose GO & Ref Bonds	N	CA	LEAD
03/26/24	1,092.550	Washington	GO Refunding Bonds	N	WA	LEAD
03/27/24	43.000	Colorado Hsg & Fin Auth (CHFA)	Multi-Family Housing Rev Bonds	N	CO	SOLE
03/27/24	1,280.105	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
03/27/24	174.765	New York City-New York	General Obligation Bonds	N	NY	CO-MGR
03/27/24	72.530	Purdue Univ Board of Trustees	Purdue Univ Student Fee Bonds	N	IN	CO-MGR
03/27/24	33.065	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	CO-MGR
03/27/24	99.000	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	CO-MGR
03/27/24	15.935	South Dakota Housing Dev Auth	Homeownership Mortgage Bonds	N	SD	CO-MGR
04/02/24	28.420	Arizona Board of Regents	Speed Revenue Ref Bonds	N	AZ	LEAD
04/02/24	150.000	Colorado Bridge & Tunnel Enterprise	Senior Infrastructure Rev Bonds	N	CO	CO-MGR
04/02/24	13.240	Dorchester Co-South Carolina	Limited Obligation Bonds	N	SC	SOLE
04/02/24	130.845	Trinity River Authority	Reg Wstwr Sys Rev Imp & Ref	N	TX	LEAD
04/04/24	182.810	North Carolina Turnpike Authority	Revenue & Refunding Bonds	N	NC	CO-MGR
04/04/24	190.835	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
04/04/24	131.460	NYC Housing Dev Corp	Multi-Family Housing Rev Bonds	N	NY	CO-MGR
04/09/24	27.000	Arizona Industrial Dev Auth	Multi-Family Bonds	N	AZ	SOLE
04/09/24	17.565	Cape Coral City-Florida	General Obligation Bonds	N	FL	SOLE
04/09/24	30.000	Inlivian	Multi-Family Bonds	N	NC	SOLE
04/09/24	734.995	Massachusetts Dev Finance Agcy	Revenue Bonds	N	MA	CO-MGR
04/09/24	62.095	Minnesota Housing Fin Agency	Residential Hsg Fin Bonds	N	MN	CO-MGR
04/09/24	11.125	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
04/09/24	26.780	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
04/09/24	377.450	Sacramento MUD (SMUD)	Electric Revenue Ref Bonds	N	CA	CO-MGR
04/09/24	250.000	Sacramento MUD (SMUD)	Electric Revenue Bonds	N	CA	CO-MGR
04/09/24	22.160	Sacramento MUD (SMUD)	Electric Revenue Ref Bonds	N	CA	CO-MGR
04/10/24	600.000	NYS Dorm Authority	Revenue Bonds	N	NY	CO-MGR
04/11/24	29.555	Arizona Board of Regents	No AR Univ Sys Rev Ref Bonds	N	AZ	LEAD
04/11/24	44.450	Colorado Science & Tech Pk Metro Dt #1	Spec&Sub Spec Rev Ref&Imp Bonds	N	CO	LEAD
04/11/24	9.775	Colorado Science & Tech Pk Metro Dt #1	Sub Special Rev Ref & Imp Bonds	N	CO	LEAD
04/16/24	153.970	Arizona Board of Regents	System Revenue Bonds	N	AZ	LEAD
04/16/24	168.440	Arizona Board of Regents	System Revenue Bonds	N	AZ	LEAD
04/16/24	60.455	Arizona Board of Regents	System Revenue Bonds	N	AZ	LEAD
04/16/24	45.215	Lakes at Centerra Metro Dt #2	Ltd Tax GO Refunding Bonds	N	CO	SOLE
04/17/24	31.885	Laurens Co Public Fac Auth	Purchase Revenue Bonds	N	SC	SOLE
04/17/24	49.890	New Mexico Finance Auth (NMFA)	Sub Lien Pub Project Rev Bonds	N	NM	LEAD
04/17/24	788.560	NYC Municipal Water Fin Auth	Water & Sewer 2nd Gen Res Bonds	N	NY	CO-MGR
04/18/24	151.485	Arizona Board of Regents	Speed Revenue Bonds	N	AZ	CO-MGR
04/18/24	1,000.000	Florida St Board Admin Fin Corp	Revenue Bonds	N	FL	LEAD
04/23/24	573.405	Energy Northwest	Elec Rev & Ref Bonds	N	WA	CO-MGR
04/23/24	91.630	Long Beach City-California	Senior Water Revenue Bonds	N	CA	CO-MGR
04/23/24	27.690	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
04/23/24	210.000	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bonds	N	MD	CO-MGR
04/23/24	12.310	Maryland Dept Hsg & Com Dev (DHCD)	Residential Revenue Bond	N	MD	CO-MGR
04/23/24	49.680	Washington St Hsg Fin Commission	Single-Family Program Bonds	N	WA	CO-MGR
04/23/24	3.710	Washington St Hsg Fin Commission	Single-Family Program Bonds	N	WA	CO-MGR
04/23/24	45.895	Washington St Hsg Fin Commission	Single-Family Program Bonds	N	WA	CO-MGR
04/24/24	266.685	Oregon	General Obligation Bonds	N	OR	LEAD
04/24/24	299.080	Oregon	General Obligation Bonds	N	OR	LEAD
04/24/24	0.790	Oregon	General Obligation Bonds	N	OR	LEAD
04/24/24	69.410	South Carolina Jobs Econ Dev Au	Educational Facs Rev Bonds	N	SC	CO-MGR
04/25/24	48.365	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
04/25/24	73.900	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
04/25/24	2.485	Massachusetts Housing Fin Agcy	Single Family Housing Rev Bonds	N	MA	CO-MGR
04/25/24	84.300	North Texas Municipal Water Dt	Reg Wstwr Sys Con Rev Bonds	C	TX	SOLE
04/25/24	25.030	St Louis Co (Webster Groves) SD	General Obligation Bonds	C	MO	SOLE
04/26/24	2,219.280	Florida Development Fin Corp	Revenue Bonds	N	FL	CO-MGR
04/26/24	28.419	Fulton Co Development Authority	Senior Hsg Rev Note	P	GA	SOLE
04/30/24	1,909.790	South Carolina Jobs Econ Dev Au	Health Care Facs Rev Bonds	N	SC	CO-MGR
04/30/24	136.070	Virginia Resources Auth (VRA)	Infrastructure Rev Bonds	N	VA	CO-MGR
05/01/24	96.625	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds	N	CT	CO-MGR
05/01/24	150.000	Connecticut Housing & Fin Auth (CHFA)	Housing Mtg Fin Program Bonds	N	CT	CO-MGR
05/01/24	116.140	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
05/01/24	228.500	Illinois Housing Dev Authority	Revenue Bonds	N	IL	CO-MGR
05/07/24	26.395	Arizona Board of Regents	Refunding COPs	N	AZ	CO-MGR
05/07/24	250.000	Augusta City-Georgia	General Obligation Bonds	C	GA	SOLE
05/07/24	79.050	Brazoria Co (Angleton) ISD	Ulld Tax Sch Bldg Bonds	C	TX	SOLE
05/07/24	115.585	Hampton Roads Sanitation Dt	Wastewater Revenue Ref Bonds	N	VA	LEAD
05/07/24	1,018.270	Illinois Finance Authority	Revenue Bonds	N	IL	LEAD
05/07/24	69.355	Iowa Finance Authority	Single Family Mortgage Bonds	N	IA	CO-MGR
05/07/24	80.000	Iowa Finance Authority	Single Family Mortgage Bonds	N	IA	CO-MGR
05/07/24	89.665	Plano City-Texas	GO Refunding & Improvement Bonds	C	TX	SOLE
05/07/24	160.000	Virginia Housing Dev Auth (VHDA)	Commonwealth Mtg Bonds	N	VA	LEAD
05/07/24	23.830	Waterbury Housing Authority	Multi-Family Bonds	N	CT	SOLE
05/08/24	266.800	Energy Northwest	Electric Rev Ref Bonds	N	WA	SOLE
05/08/24	112.170	Polk Co-Iowa	GO Capital Loan Notes	N	IA	CO-MGR
05/09/24	313.865	Metro Atlanta Rapid Transit Au (MARTA)	Sales Tax Rev & Ref Bonds	N	GA	LEAD
05/09/24	340.615	San Francisco City/Co-California	GO Refunding Bonds	N	CA	LEAD
05/14/24	17.000	Arkansas	Wtr,Wst Disp&Poll Abate Fac Bond	C	AR	SOLE
05/14/24	18.540	San Francisco City & Co Airport Comm	Revenue Refunding Bonds	N	CA	CO-MGR
05/14/24	782.535	San Francisco City & Co Airport Comm	2nd Series Revenue Refunding Bond	N	CA	CO-MGR
05/14/24	123.590	San Francisco City & Co Airport Comm	2nd Series Revenue Refunding Bond	N	CA	CO-MGR
05/14/24	288.885	Tarrant Regional Water Dt	Water Revenue Ref & Imp Bonds	N	TX	CO-MGR
05/14/24	178.500	Tennessee Hsg Dev Agcy (THDA)	Residential Fin Prog Bonds	N	TN	CO-MGR
05/14/24	76.500	Tennessee Hsg Dev Agcy (THDA)	Residential Fin Prog Bonds	N	TN	CO-MGR
05/15/24	145.510	Colorado Hsg & Fin Auth (CHFA)	Single Family Mortgage Rev Bonds	N	CO	CO-MGR
05/15/24	117.450	Georgetown City-Texas	Utility System Rev Bonds	N	TX	CO-MGR
05/15/24	534.420	Miami-Dade Co-Florida	Water & Sewer Sys & Ref Rev	N	FL	CO-MGR
05/16/24	75.000	Kentucky Housing Corporation	Single Family Mortgage Rev Bonds	N	KY	CO-MGR
05/16/24	75.000	Kentucky Housing Corporation	Single Family Mortgage Rev Bonds	N	KY	CO-MGR
05/16/24	60.000	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
05/16/24	15.000	Minnesota Housing Fin Agency	Residential Housing Fin Bonds	N	MN	CO-MGR
05/16/24	1,500.000	NYC Transitional Finance Auth	Future Tx Secured Sub Bonds	N	NY	CO-MGR
05/16/24	956.830	NYS Dorm Authority	Sch Dt Rev Fin Program Bonds	N	NY	CO-MGR
05/16/24	5.075	San Antonio City Ed Facs Corp	Higher Ed Rev Ref & Imp Bonds	N	TX	CO-MGR
05/16/24	62.165	San Antonio City Ed Facs Corp	Higher Ed Rev Ref & Imp Bonds	N	TX	CO-MGR
05/21/24	7.740	Arlington City-Texas	Permanent Imp Ref Bonds	C	TX	SOLE
05/21/24	384.105	Great Lakes Water Auth (GLWA)	Wtr Supply Sys Rev Ref Bonds	N	MI	CO-MGR
05/21/24	387.565	Great Lakes Water Auth (GLWA)	Sewage Disp Sys Rev Ref Bonds	N	MI	CO-MGR
05/21/24	24.750	Monroe Twp-New Jersey	BANs	C	NJ	SOLE
05/21/24	278.758	New Hampshire National Fin Auth	Municipal Certificates	N	NH	CO-MGR
05/21/24	609.425	Texas St Univ Sys Bd of Regents	Rev Fin Sys & Ref Bonds	N	TX	LEAD
05/22/24	100.000	Florida Housing Finance Corp	Homeowner Mtg Revenue Bonds	N	FL	CO-MGR
05/22/24	150.000	Florida Housing Finance Corp	Homeowner Mortgage Rev Bonds	N	FL	CO-MGR
05/22/24	148.305	Fort Worth City-Texas	Water & Sewer Sys Rev Bonds	C	TX	SOLE
05/22/24	75.170	Pennsylvania Housing Fin Agcy (PHFA)	Single-Family Mortgage Rev Bonds	N	PA	CO-MGR
05/22/24	374.795	Pennsylvania Housing Fin Agcy (PHFA)	Single Family Mtg Rev Bonds	N	PA	CO-MGR
05/22/24	8.000	Rock Hill City-South Carolina	Ltd Obligation Bonds	N	SC	SOLE
05/22/24	190.000	Wisconsin Hsg & Econ Dev Auth	Home Ownership Rev Bonds	N	WI	CO-MGR

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Sale Date	Par Amount (\$mls)	Issuer	Issue Description	Bid	State	Role
05/23/24	30.385	South Carolina Jobs Econ Dev Au	Economic Dev Rev Bonds	N	SC	SOLE
05/24/24	280.000	Clayton Co SD	General Obligation Bonds	D	GA	SOLE
05/29/24	274.140	University of Cincinnati	Gen Rec & Gen Rec Ref Bonds	N	OH	CO-MGR
05/30/24	17.065	Montgomery Co Hsg Opportunities Comm	Single Family Mortgage Rev Bonds	N	MD	CO-MGR
05/30/24	12.935	Montgomery Co Hsg Opportunities Comm	Single Family Mtg Rev Bonds	N	MD	CO-MGR
05/30/24	63.820	Spartanburg City-South Carolina	Installment Purchase Rev Bonds	N	SC	SOLE
06/03/24	138.640	E-470 Public Highway Authority	Senior Revenue Bonds	N	CO	LEAD
06/03/24	0.975	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
06/03/24	23.580	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
06/03/24	5.030	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
06/03/24	50.685	Virginia Housing Dev Auth (VHDA)	Rental Housing Bonds	N	VA	CO-MGR
06/04/24	90.385	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/04/24	20.095	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/04/24	27.155	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/04/24	115.100	Massachusetts Housing Fin Agcy	Housing Bonds	N	MA	CO-MGR
06/04/24	97.130	Prince Georges Co-Maryland	GO Pub Imp Ref Bonds	C	MD	SOLE
06/04/24	1,098.840	San Antonio City-Texas	Elec & Gas Sys Rev & Ref Bonds	N	TX	CO-MGR
06/05/24	45.680	Alexandria Sanitary Authority	Wastewater Revenue Bonds	N	VA	CO-MGR
06/05/24	346.065	Bay Area Toll Authority (BATA)	Toll Bridge & Sub Toll Bridge Rev	N	CA	CO-MGR
06/05/24	250.000	Bay Area Toll Authority (BATA)	Toll Bridge Revenue Bonds	N	CA	CO-MGR
06/05/24	284.735	Chesterfield Co Eco Dev Auth	Revenue Bonds	N	VA	LEAD
06/05/24	200.000	Maryland	GO St & Lcl Facs Loan Bonds	C	MD	SOLE
06/05/24	823.615	Metro Washington Airports Auth	Airport Sys Rev & Ref Bonds	N	DC	CO-MGR
06/05/24	98.735	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	CO-MGR
06/05/24	29.260	Mississippi Home Corporation	Single Family Mortgage Rev Bonds	N	MS	CO-MGR
06/05/24	199.500	North Carolina Housing Fin Agcy	Home Ownership Rev Bonds	N	NC	CO-MGR
06/05/24	100.000	North Carolina Housing Fin Agcy	Home Ownership Rev Bonds	N	NC	CO-MGR
06/05/24	89.445	So California Metro Water Dt	Subordinate Water Rev Ref Bonds	N	CA	CO-MGR
06/05/24	86.940	So California Metro Water Dt	Subordinate Water Rev Ref Bonds	N	CA	CO-MGR
06/06/24	254.655	Lower Colorado River Authority (LCRA)	Refunding Revenue Bonds	N	TX	CO-MGR
06/06/24	76.020	Port of Morrow-Oregon	Transmission Facs Rev Bonds	N	OR	LEAD
06/06/24	425.000	Riverside Co-California	TRANS	N	CA	CO-MGR
06/10/24	27.820	Univ of Arizona Board of Regents	Rev Ref Bonds	N	AZ	SOLE
TOTAL:	\$452,668.387					

Source: Thomson Reuters SDC 1/1/2020-6/10/2024



Disclosures (Continued):

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