

SIFMA Research Quarterly - 2Q21

US Fixed Income Markets – Outstanding

September 2021

The SIFMA Research Quarterlies contain data and statistics on U.S. markets. The fixed income reports are split into two – (1) issuance and trading, (2) outstanding – given a delay in the reporting of outstanding data. The reports cover data on total U.S. fixed income markets, as captured in the SIFMA Research databases: U.S. Treasuries, mortgage-backed securities, corporate bonds, municipal securities, federal agency securities, asset-backed securities, money markets (outstanding only), repurchase agreements (outstanding only) and secured overnight financing rate.

All reports, including the equity quarterly, and corresponding databases can be found at: www.sifma.org/research



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Associated Reports

Please also see SIFMA Research Quarterly Report: US Cash Equities, ETFs, Multi-Listed Options and Capital Formation & SIFMA Research Quarterly Report: US Fixed Income Markets – Issuance and Trading, which can be found at: www.sifma.org/research

SIFMA Insights Primers: The SIFMA Insights primer series is a reference tool that goes beyond a typical 101 series. By illustrating important technical and regulatory nuances, SIFMA Insights primers provide a fundamental understanding of the marketplace and set the scene to address complex issues arising in today's markets. The SIFMA Insights market structure primer series includes: Global Capital Markets & Financial Institutions; Primary, Secondary & Post-Trade Markets; Electronic Trading; U.S. Fixed Income; SOFR, the Transition from LIBOR; U.S. Equity; U.S. Multi-Listed Options; U.S. ETFs; U.S. Capital Formation and Listings Exchanges; and Evolution of the Fintech Narrative. The primers and other Insights reports can be found at: www.sifma.org/primers

SIFMA is the leading trade association for broker-dealers, investment banks and asset managers operating in the U.S. and global capital markets. On behalf of our industry's nearly 1 million employees, we advocate on legislation, regulation and business policy, affecting retail and institutional investors, equity and fixed income markets and related products and services. We serve as an industry coordinating body to promote fair and orderly markets, informed regulatory compliance, and efficient market operations and resiliency. We also provide a forum for industry policy and professional development. SIFMA, with offices in New York and Washington, D.C., is the U.S. regional member of the Global Financial Markets Association (GFMA). For more information, visit http://www.sifma.org.

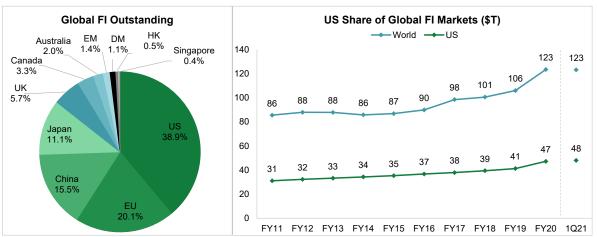
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Executive Summary

US Fixed Income Markets vs. Rest of World

The U.S. fixed income markets are the largest in the world, comprising 38.9% of the \$123 trillion securities outstanding across the globe, or \$48 trillion (as of 1Q21). This is 1.9x the next largest market, the EU. U.S. market share has averaged 38.7% over the last 10 years, troughing at 36.3% in 2011 and peaking at 40.8% in 2016.

US Market Share



Source: Bank for International Settlements (1Q21, BIS data for all countries has a lag)

Note: Country classification based on World Bank list of economies

Quarterly Performance

In this report, we utilized SIFMA Research's comprehensive fixed income and securitized products databases (www.sifma.org/statistics) to recap statistics for total U.S. fixed income markets, U.S. Treasuries (UST), mortgage-backed securities (MBS), corporate bonds (corporates), municipal securities (munis), federal agency securities (agency), asset-backed securities (ABS), money markets (MM), repurchase agreements (repos) and the secured overnight financing rate (SOFR).

Quarterly Highlights

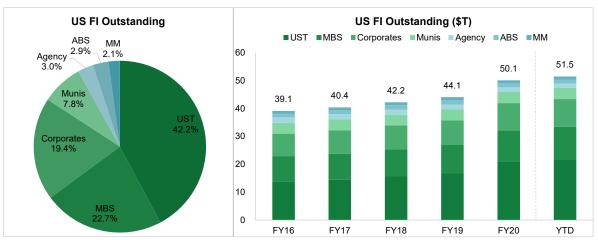
Outstanding (\$B)	2Q21	1Q21	2Q20	Q/Q	Y/Y	FY20	FY19	Y/Y
Total Market	51,499	50,869	48,656	1.2%	5.8%	50,107	44,073	13.7%
UST	21,733	21,381	19,899	1.6%	9.2%	20,973	16,673	25.8%
MBS	11,671	11,452	10,698	1.9%	9.1%	11,214	10,229	9.6%
Corporates	9,972	9,838	9,723	1.4%	2.6%	9,756	8,866	10.0%
Munis	4,002	3,980	3,895	0.6%	2.7%	3,953	3,870	2.2%
Agency	1,521	1,604	1,834	-5.2%	-17.1%	1,689	1,726	-2.2%
ABS	1,515	1,509	1,600	0.4%	-5.3%	1,535	1,663	- 7.7%
MM	1,085	1,105	1,007	-1.8%	7.8%	987	1,045	-5.6%

Sources: Refinitiv, Bloomberg, The Federal Reserve, US Agencies, US Treasury, SIFMA estimates

Chart Book: Total Fixed Income & Agency Securities

Total Fixed Income

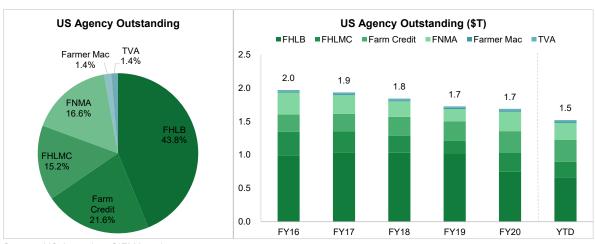
Outstanding: 2Q21 \$51.5T, +5.8% Y/Y, +1.2% Q/Q; FY20 \$50.1T, +13.7% Y/Y



Source: Refinitiv, Bloomberg, The Federal Reserve, US Agencies, US Treasury, SIFMA estimates

Agency Securities

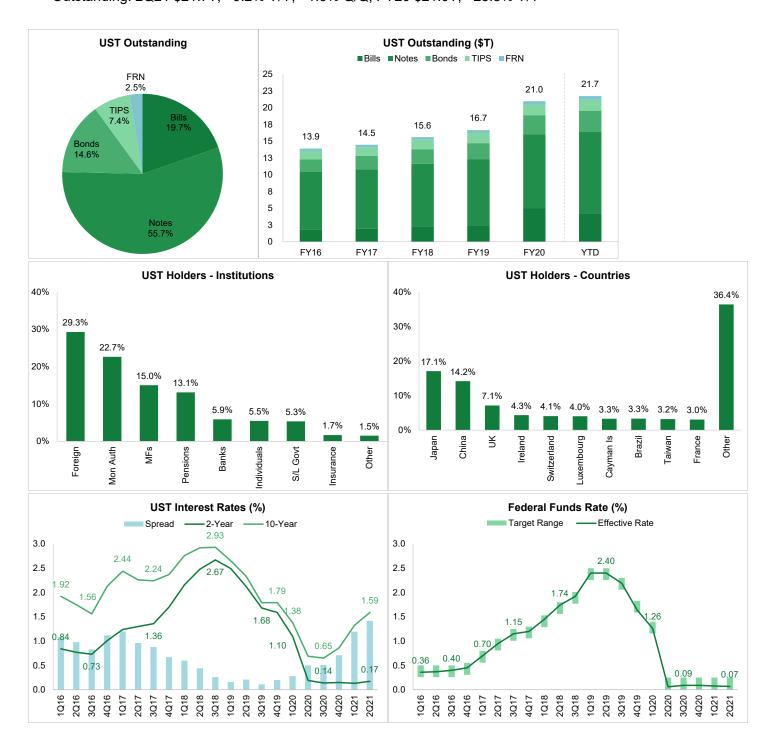
Outstanding: 2Q21 \$1.5T, -17.1% Y/Y, -5.2% Q/Q; FY20 \$1.7T, -2.2% Y/Y



Source: US Agencies, SIFMA estimates

Chart Book: US Treasuries (UST)

• Outstanding: 2Q21 \$21.7T, +9.2% Y/Y, +1.6% Q/Q; FY20 \$21.0T, +25.8% Y/Y

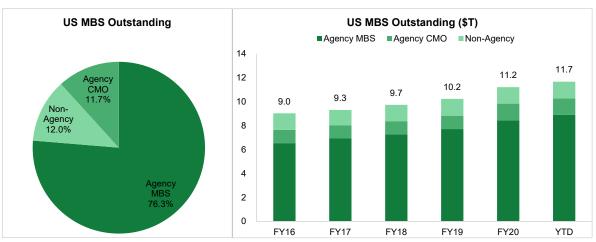


Sources: US Treasury, New York Federal Reserve, The Federal Reserve, SIFMA estimates

Chart Book: Structured Products (MBS & ABS)

Mortgage-Backed Securities (MBS)

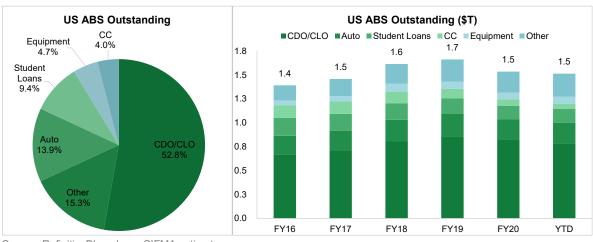
Outstanding: 2Q21 \$11.7T, +9.1% Y/Y, +1.9% Q/Q; FY20 \$11.2T, +9.6% Y/Y



Sources: Refinitiv, Bloomberg, US Agencies, SIFMA estimates

Asset-Backed Securities (ABS)

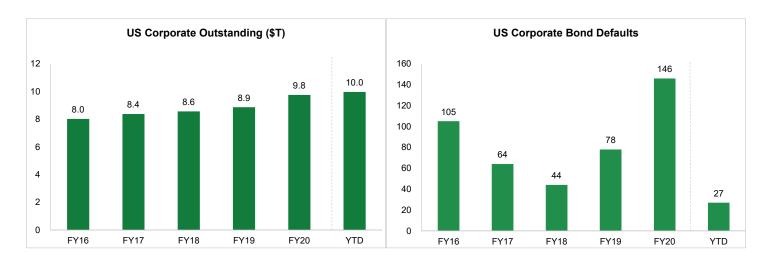
Outstanding: 2Q21 \$1.5T, -5.3% Y/Y, +0.4% Q/Q; FY20 \$1.5T, -7.7% Y/Y

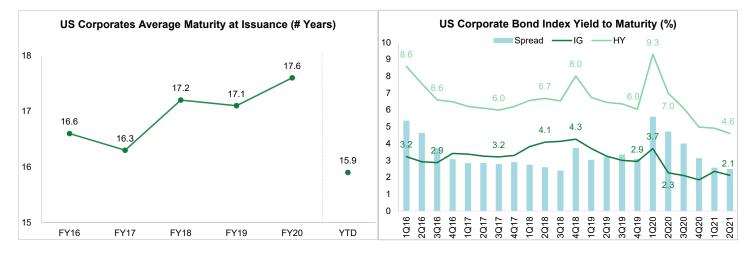


Source: Refinitiv, Bloomberg, SIFMA estimates

Chart Book: Corporate Bonds (Corporates)

Outstanding: 2Q21 \$10.0T, +2.6% Y/Y, +1.4% Q/Q; FY20 \$9.8T, +10.0% Y/Y

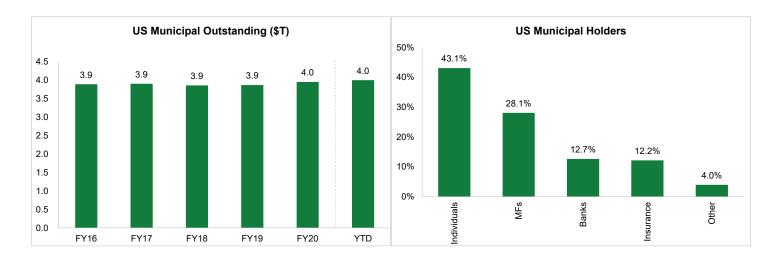


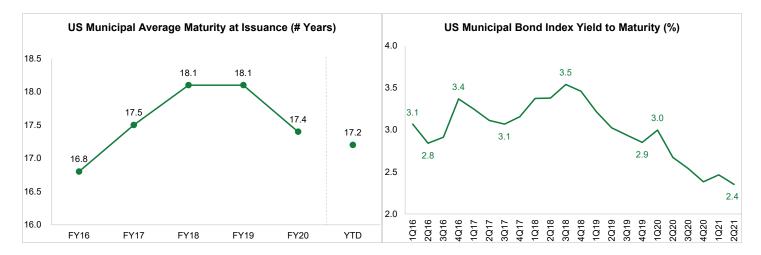


Sources: Refinitiv, The Federal Reserve, S&P Global Ratings, SIFMA estimates

Chart Book: Municipal Securities (Munis)

Outstanding: 2Q21 \$4.0T, +2.7% Y/Y, +0.6% Q/Q; FY20 \$4.0T, +2.2% Y/Y

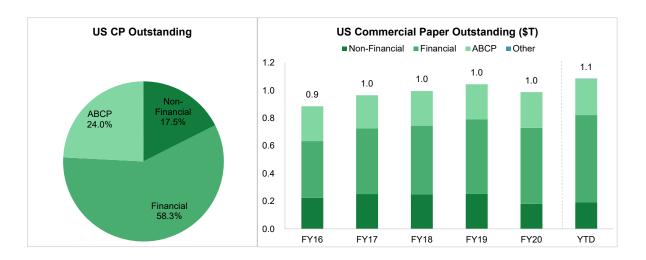




Source: Refinitiv, Bloomberg, The Federal Reserve, SIFMA estimates

Chart Book: Money Markets (MM)

• Outstanding: 2Q21 \$1.1T, +7.8% Y/Y, -1.8% Q/Q; FY20 \$1.0T, -5.6% Y/Y

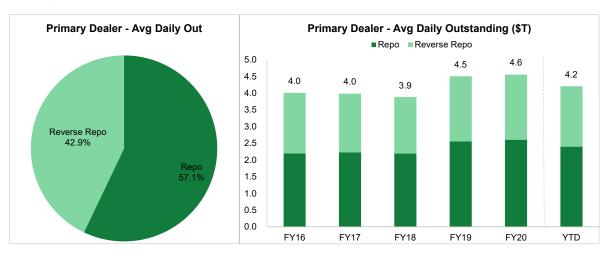


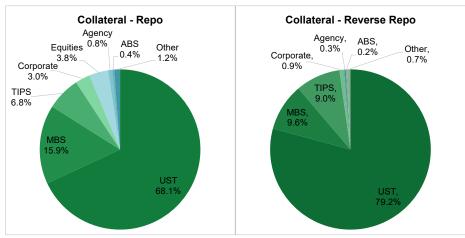
Source: The Federal Reserve, SIFMA estimates

Chart Book: Repurchase Agreements (Repo)

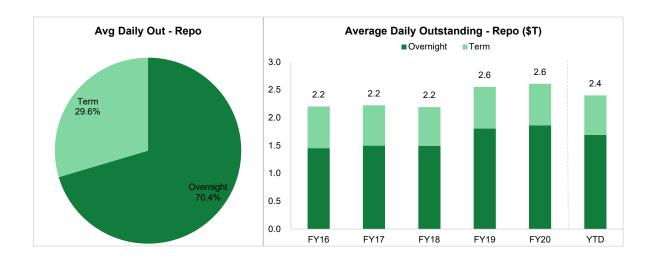
- Outstanding: Primary Dealer, 2Q21 \$4.2T, -4.0% Y/Y, -8.6% Q/Q; FY20 \$4.6T, +1.0% Y/Y
- ADV: GCF, 2Q21 \$81.8B, -17.1% Y/Y, -25.1% Q/Q; FY20 \$108.4B, -20.5% Y/Y

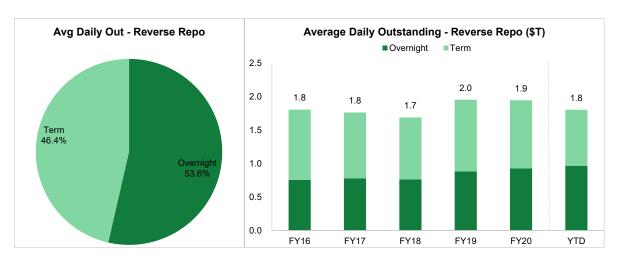
Primary Dealer Repo





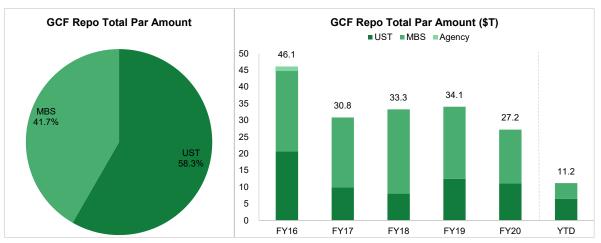
Source: Federal Reserve Bank of New York, SIFMA estimates

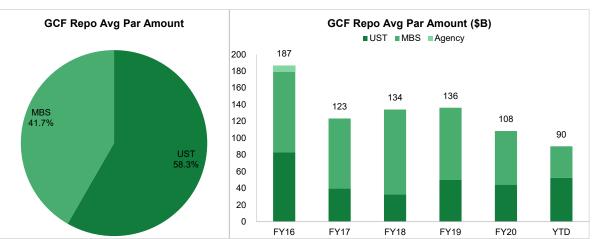


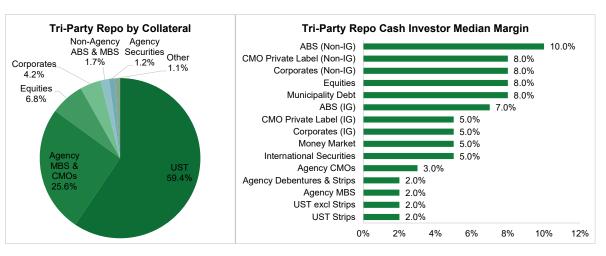


Source: Federal Reserve Bank of New York, SIFMA estimates

GCF Repo



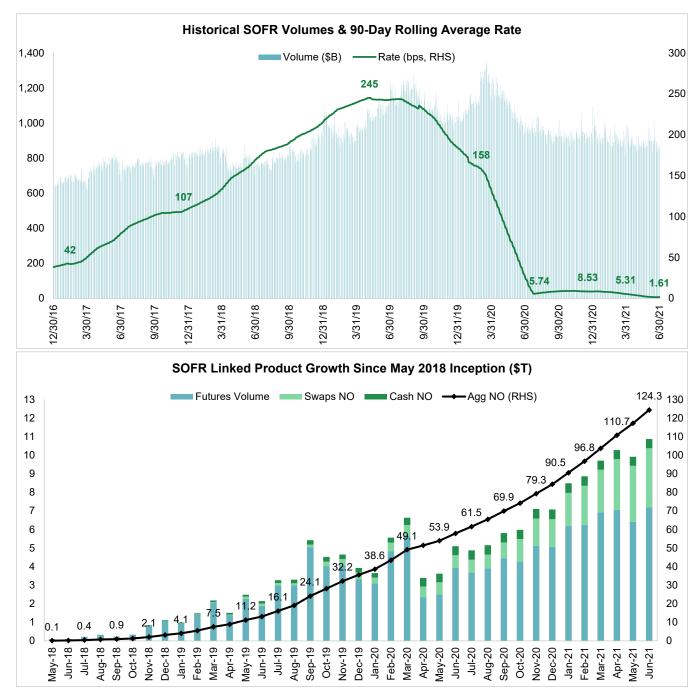




Source: The Federal Reserve Bank of New York, The Depository Trust & Clearing Corporation, SIFMA estimates

Chart Book: Secured Overnight Financing Rate (SOFR)

- SOFR Rate (90 day rolling average): As of 6/30/21 = 1.61 bps
- Fed Volumes: As of 6/30/21 = \$871B
- Market Volumes: As of 6/30/21 = futures \$7.2T, aggregate notional outstanding \$124.3T



Source: The Alternative Reference Rates Committee, Federal Reserve Bank of New York, SIFMA estimates

Appendix: Fixed Income Securities Definitions & Purpose

In general, fixed income securities are borrowed capital for the issuer to fund government operations, public projects, or corporate investments, thereby fueling economic growth. The diversity of fixed income products both increases the amount of funds available to borrow and spreads credit risk across multiple market participants.

- U.S. Treasury Securities (UST) UST are debt obligations of the federal government used to fund its
 operations. Since UST are backed by the full faith and credit of the U.S. government, these securities are
 considered by market participants as the benchmark credit. The U.S. government has a AAA rating,
 meaning it has essentially no credit risk and can easily meet its financial obligations on time and in full. In
 light of this, UST show a diversity of holders, in both institutional type and foreign holders.
- Mortgage-Backed Securities (MBS) Since mortgages (a debt instrument collateralized by a specified real estate property) are less liquid than other investment vehicles, they can be securitized into MBS, whether in pass-throughs or collateralized mortgage obligations (CMOs).
- Corporate Bonds (Corporates) Corporates are debt securities issued by public and private corporations. They are issued to raise money to fund investments or expansion plans. Corporates are considered riskier than UST, and receive ratings by credit ratings agencies to determine creditworthiness, i.e. probability of repayment of debt in a timely manner.
- Municipal Bonds (Munis) Munis are debt securities issued by state/local governments or government
 agencies and public entities (utilities, school districts) to fund public projects, predominantly infrastructure
 related. Efficient muni markets enable states and municipalities to borrow at low rates and finance capital
 expenditures over a longer time period.
- Federal Agency Securities (Agency) Agency securities are issued by quasi-governmental agencies (federal government, government sponsored enterprises) to fund operations. Unlike UST or munis, these securities are not always fully guaranteed by the U.S. or a municipal government. As such, they can hold credit and default risk.
- Asset-Backed Securities (ABS) ABS are financial securities collateralized by a pool of typically illiquid
 assets such as auto loans, student loans, credit cards, etc. Pooling these assets creates a more liquid
 investment vehicle, with a valuation based on the cash flows of the underlying and the structure of the
 transaction.
- Money Markets (MM) MMs involve highly liquid, short maturity (typically overnight to less than one year) financial instruments (certificates of deposit/CDs, bankers' acceptances, commercial paper/CP, etc.), used by investors to borrow and lend in the short term. Transactions in the money markets are wholesale, taking place only between institutional investors (no individual investors) and for large denominations.

- Repurchase Agreements (Repos) Repos are financial transactions in which one party sells an asset to another party with a promise to repurchase the asset at a pre-specified later date (a reverse repo is the same transaction seen from the perspective of the security buyer). Repos can be overnight (duration one day) or term (duration up to one year, albeit some are up to two years and the majority are three months or less). The repo market enables market participants to provide collateralized loans to one another, and financial institutions predominantly use repos to manage short-term fluctuations in cash holdings, rather than general balance sheet funding. Repos aid secondary market liquidity for the cash markets (ex: UST), allowing dealers to act as market makers in a very efficient manner.
- Secured Overnight Financing Rate (SOFR) In the U.S., the transition away from London Interbank
 Offered Rate (LIBOR) to its chosen alternative reference rate, SOFR, is underway. While LIBOR is not fully
 transaction based, SOFR is based on the overnight repo markets with ~ \$1 trillion of transactions per day.
 Publication of the SOFR rate began in April 2018. Trading and clearing of SOFR based swaps and futures
 began in May 2018.

Appendix: Terms to Know

Y/Y Year-over-Year Q/Q Quarter-over-Quarter YTD Year-to-Date BPS Basis Points PPS Percentage Points CAGR Compound Annual Growth Rate CUSIP Committee on Uniform Securities Identification Procedures CFTC Commodity Futures Trading Commission SEC Securities and Exchange Commission Fed Federal Reserve System FRB Federal Reserve Bank NY Fed Federal Reserve Bank of New York ARRC Alternative Reference Rates Committee ADV Average Daily Trading Volume Algo Algorithm (algorithmic trading) AT Automated Trading ATS Alternative Trading System AUM Assets Under Management Best Ex Best Execution CLOB Central Limit Order Book D2C Dealer-to-Client D2D Dealer-to-Dealer ECN Electronic Trading Platforms ETD Exchange Traded Derivative FI Fixed Income FICC Fixed Income, Currencies and Commodities GGF General Collateral Financing IDB Inter-Dealer Broker IIV Intraday Indicative Value IOI Indication of Interest MM Market Maker OI Open Interest OTC Over-the-Counter VWAP Volume Weighted Average Price IBOR Interbank Offered Rate LIBOR Interbank Offered Rate LIBOR London Inter-bank Offered Rate RFR Risk Free Rate SOFR Secured Overnight Financing Rate DV01 Dollar Value of Basis Point DVP Delivery-versus-Payment EFFFE Effective Fed Funds Rate PAI Price Alignment Interest Repo Repurchase Agreement		
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BPS Basis Points PPS Percentage Points CAGR Compound Annual Growth Rate CUSIP Committee on Uniform Securities Identification Procedures CFTC Commodity Futures Trading Commission SEC Securities and Exchange Commission Fed Federal Reserve System FRB Federal Reserve Bank NY Fed Federal Reserve Bank of New York ARRC Alternative Reference Rates Committee ADV Average Daily Trading Volume Algo Algorithm (algorithmic trading) AT Automated Trading ATS Alternative Trading System AUM Assets Under Management Best Ex Best Execution CLOB Central Limit Order Book D2C Dealer-to-Client D2D Dealer-to-Dealer ECN Electronic Communications Network ETP Electronic Trading Platforms ETD Exchange Traded Derivative FI Fixed Income FICC Fixed Income, Currencies and Commodities GCF General Collateral Financing IDB Inter-Dealer Broker IIV Intraday Indicative Value IOI Indication of Interest MM Market Maker OI Open Interest OTC Over-the-Counter VWAP Volume Weighted Average Price IBOR Interbank Offered Rate LIBOR London Inter-bank Offered Rate RFR Risk Free Rate SOFR Secured Overnight Financing Rate DV01 Dollar Value of Basis Point DVP Delivery-versus-Payment EFFR Effective Fed Funds Rate PAI Price Alignment Interest	Q/Q	Quarter-over-Quarter
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Repo Repurchase Agreement		
	Repo	Repurchase Agreement

UST	U.S. Treasury Securities
MBS	Mortgage-Backed Security
Corporates	Corporate Bonds
Munis	Municipal Securities
Agency	Federal Agency Securities
ABS	Asset-Backed Securities
MM	Money Markets
FRN	Floating Rate Note
FRA	Forward Rate Agreement
T-Bill	U.S. Treasury Bill
T-Note	U.S. Treasury Note
T-Bond	U.S. Treasury Bond
TIPS	Treasury Inflation Protected Securities
ABS	Asset-Backed Security
СМО	Collateralized Mortgage Obligation
MBS	Mortgage-Backed Security
CMBS	Commercial MBS
RMBS	Residential MBS
HY	High Yield Bond
IG	Investment Grade Bond
GO	General Obligation Bond
Revenue	Revenue Bond
CD	Certificate of Deposit
CDO	Collateralized Debt Obligation
CLO	Collateralized Loan Obligation
CP	Commercial Paper
ABCP	Asset-Backed Commercial Paper
MMF	Money Market Mutual Funds
FAMC	Farmer Mac/Federal Agricultural Mortgage Corporation
FCS	Farm Credit System
FHLB	Federal Home Loan Banks
FHLMC	Freddie Mac/Federal Home Loan Mortgage Corporation
FNMA	Fannie Mae/Federal National Mortgage Association
GNMA	Ginnie Mae/Government National Mortgage Association
TVA	Tennessee Valley Authority
IR	Interest Rate
IRS	Interest Rate Swap
OIS	Overnight Index Swap
TRS	Total Return Swap

STIR

Short-Term Interest Rate

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