

CENTRAL BANK SEMINAR

US RATES MARKET

OCTOBER 2025

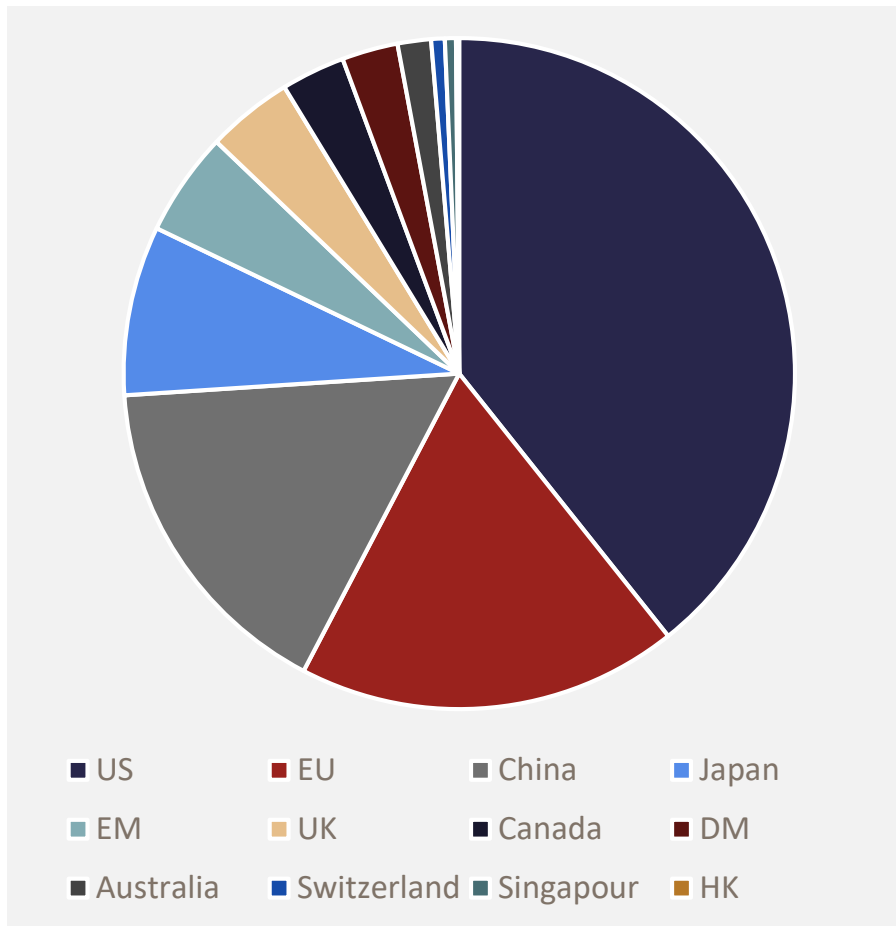


MARKET OVERVIEW

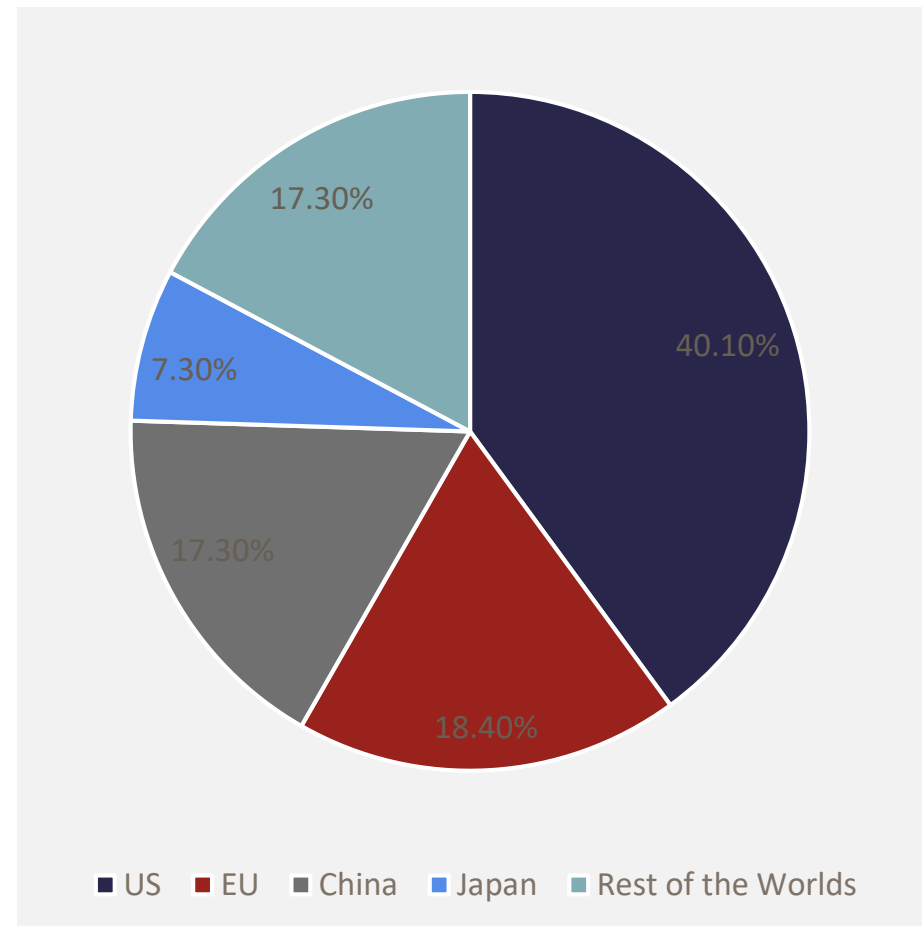
GLOBAL FIXED INCOME MARKET OUTSTANDING

As of the end of 2024 the size of the global fixed income market exceeded \$145tn growing by over \$65tn over the 2013-2024 period

The size of the US part has grown to over \$60.1tn



US accounts to 40.1% followed by EU 18% and China 17.1%

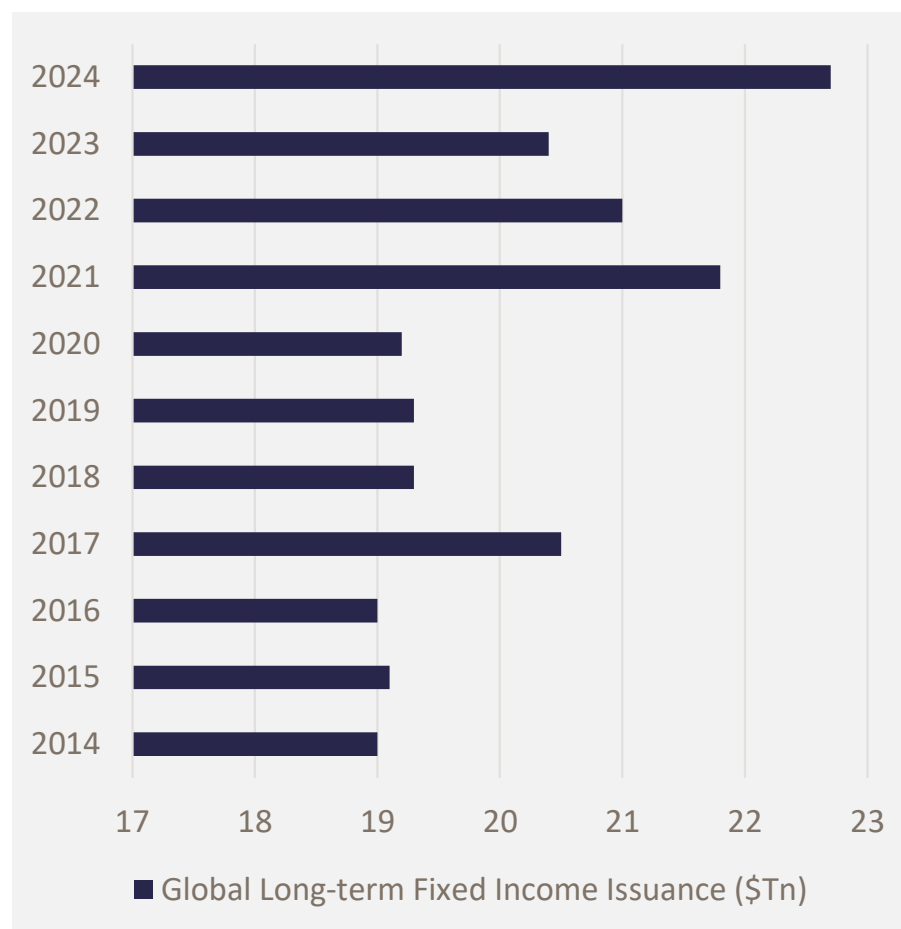


Source: BIS,SIFMA, September 2025

THE DEBT VERSUS EQUITY ISSUANCE

The pace of debt growth remains above the \$20tn mark per annum

Global Long-term* Fixed Income Issuance (\$Tn)



Global Equity Issuance (\$Tn)



*Minimum maturity of 13 months

Source: Bloomberg, Refinitiv, Sifma, September 2025

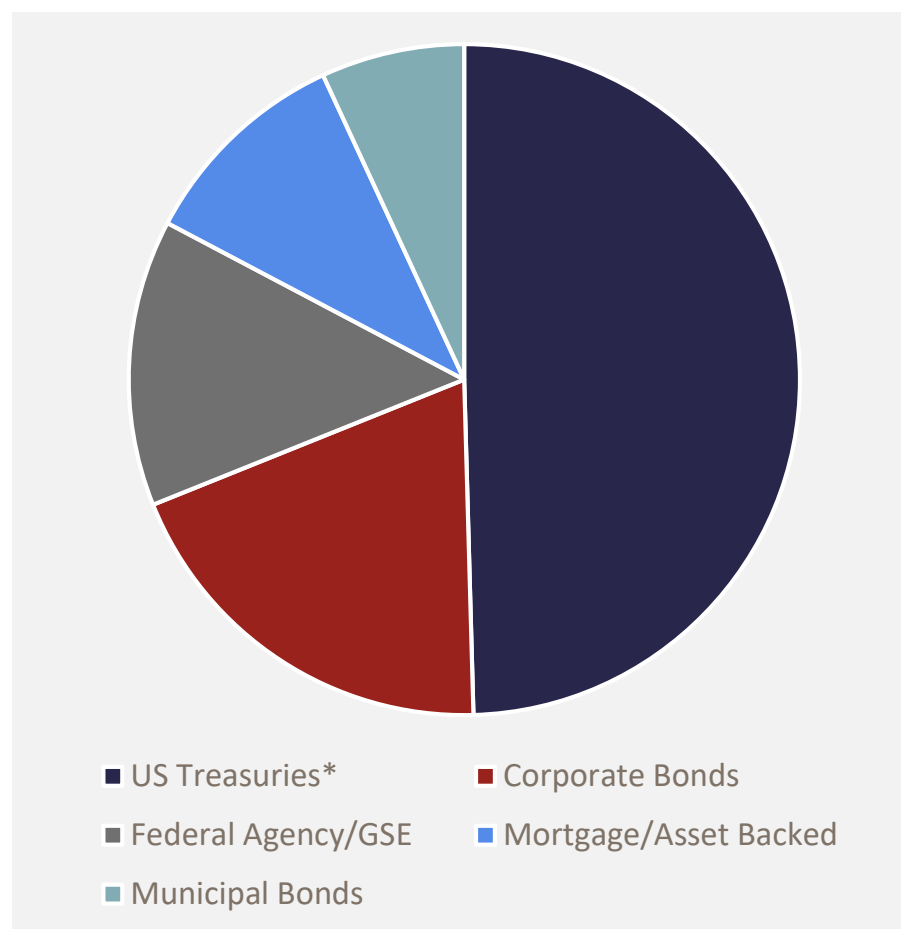


US RATES MARKET ON BLOOMBERG

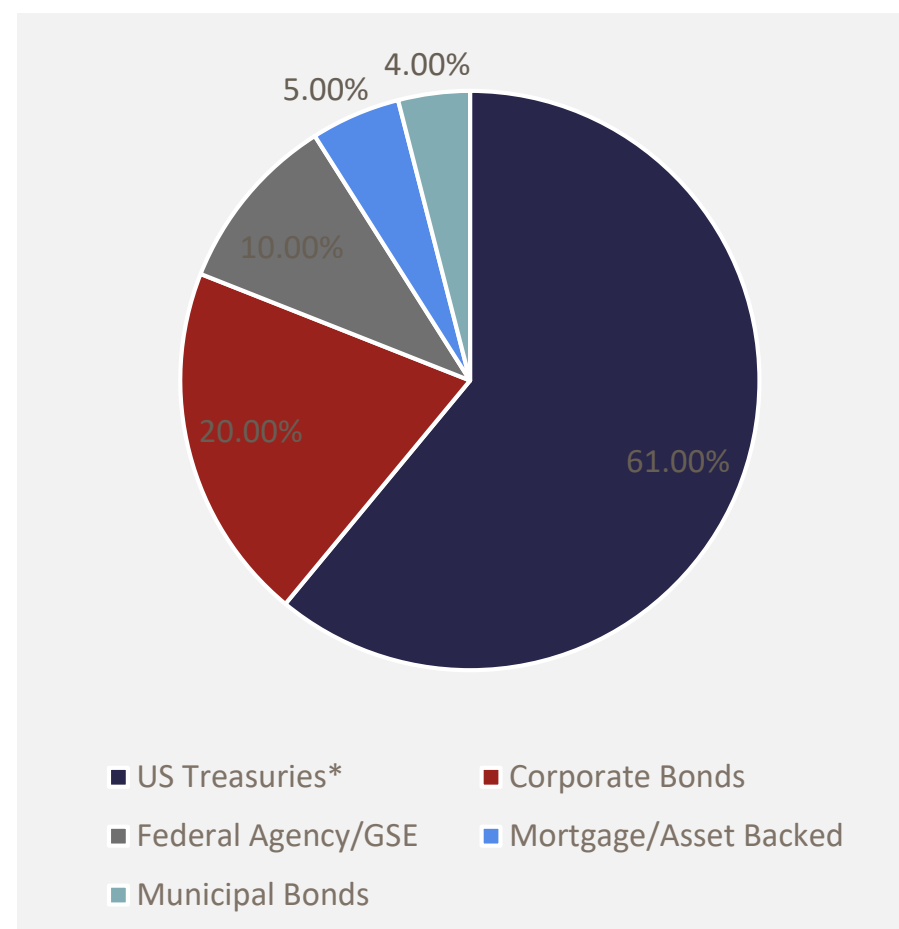
US DOLLAR DENOMINATED DEBT

UST market remains the largest and the most liquid part of the global fixed income market

UST bonds account for more than half of the size (+\$60tn)



Estimated average daily turnover in 2024 of \$1.45tn



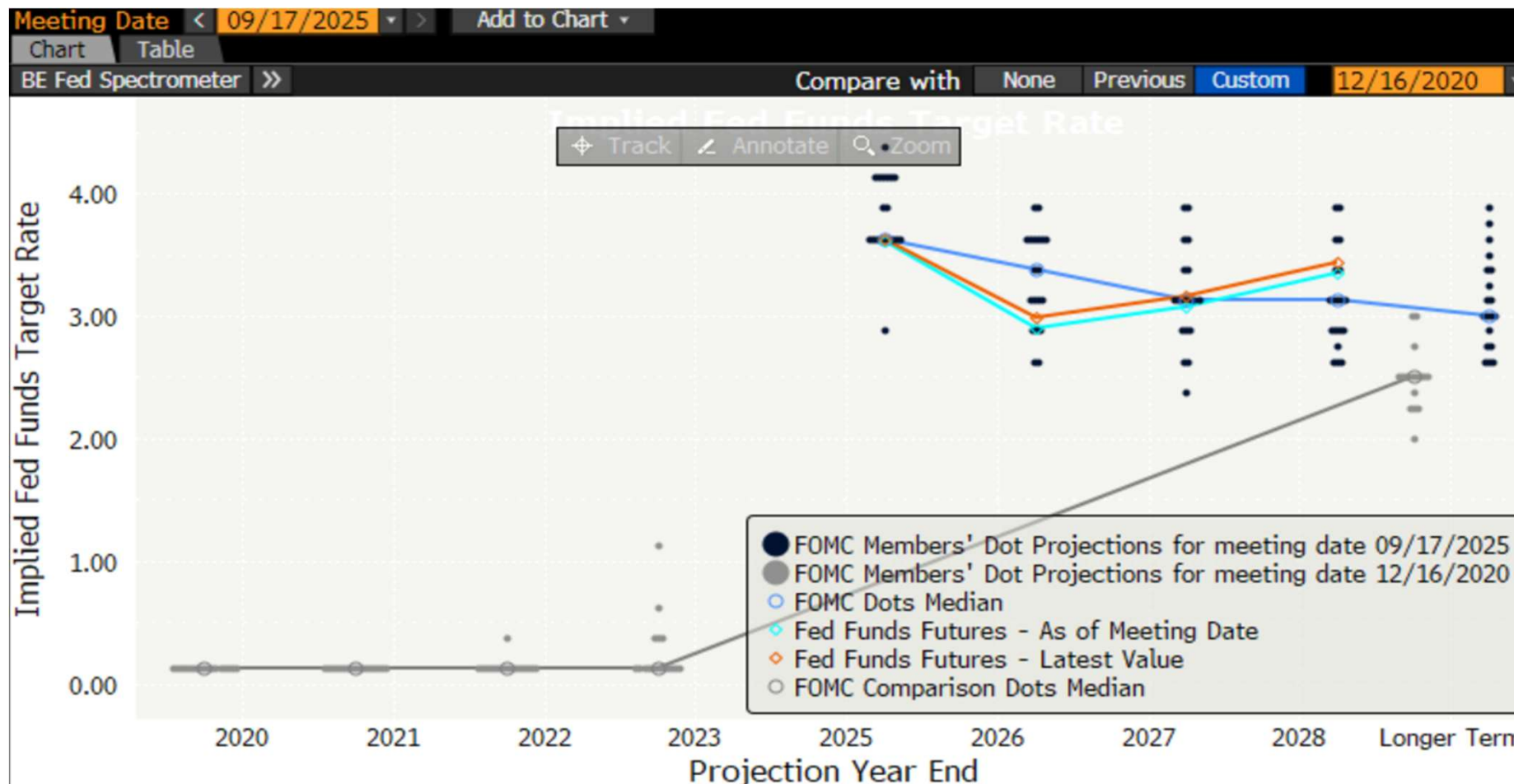
Source: BIS,SIFMA, September 2025
* Bills/Notes/Bonds/TIPS/FRNs

FDTR							4.25%		For Sep 17 Next Release 29 Oct 18:00						Survey 4.00%												
Federal Funds Target Rate - Upper Bound							Federal Reserve																				
Fed Balance Sheet														Federal Reserve													
<div>Policy<div>PolicyMembers</div><div>Contact FED</div></div>							Latest FOMC Decision <div>September 17, 2025</div>							Next FOMC Decision <div>October 29, 2025 at 18:00</div>							Toolbox <div>DS Docs/Speeches</div>						
<div>ActivityCalendarStatementsMinutesBeige BookFOMC PolicyFOMC DecisionsMonetary Policy ReleasesSpeeches & TestimonyFOMC SpeakWebsite</div>							<div>Funds Rate Upper Bound4.25 (25 bp Cut)Funds Rate Lower Bound4.00Discount Rate4.25Policy Concern--FOMC Vote11:1Side-by-Side StatementsInterest Rates on Reserve BalancesIORB4.15Temporary Open Market OperationsAward Rate (%)4.00Total Bids Accepted14.00Total Accepted Amount (US\$ bn) 25.392</div>							<div>Delayed RatesFed Funds Effective Rate4.09ICAP Market O/N Rate4.08Overnight Bank Funding Rate4.09Futures Implied RateDecember 20253.710March 20263.470June 20263.290Forward GuidanceBoard of Gov. Fed Funds ForecastForward Guidance Chart BookBE U.S. Primer</div>							<div>Fed Bond HoldingsDEBT SOMA Maturity DistributionECAN MBS HoldingsHTTP MBS Operations ScheduleFed Funds AnalyticsDOTS FOMC Dots ProjectionsWIRP Probability of Fed Funds Settin...MIPR Market Implied Policy RatesECFC Analyst ForecastsAVAT BE Fed SpectrometerU.S. Interest RatesBTMM Bond MarketFWCM Fwd Curve MatrixGC Trs'y CurveNDX Selected RatesXLTP OIS Implied Probability Calcula...ECST FRB H.15Leading IndicatorsGP Chicago FedGP Empire Mfg.GP Phila FedGP NBER RecessionNH NBER ResearchHTTP NBER Bus. CyclesGP Dallas Fed</div>						
<div>AggregatesBalance SheetMoney SupplyReservesReserve Balance FactorsBank AssetsDealer PositionsConsumer CreditForeign HoldingsDebt Outstanding</div>							<div>EventsNewsResearchBlogsReleasesAll Banks</div>							<div>News<div>100 Fed's Logan Signals Inflation Is Top Issue, Urges Rate CautionBN10/03101 Fed's Miran Says He'd Adjust Inflation View If Rents Turn HigherBN10/03102 Fed's Jefferson Again Cautions on Risks to Inflation, Jobs GoalsBN10/03103 Why Corporate Bonds Are on a Tear -- WSJWSJ10/30104 Rich World Puts Its Public-Finance Quagmire on Display: Eco WeekBN08:05105 The Shutdown Leaves the Fed Flying Blind. Don't Be So Sure About ...BRR08:00106 The Data at Risk as the US Government Shutdown Continues (Video)BLC10/04107 Stock Funds Hold a 11% Gain for 2025 So Far -- Journal ReportWSJ10/04108 Alternative Sources Fill Gaps in U.S. Statistics -- WSJWSJ10/04109 Stocks' Record Run Sparks Concern -- WSJWSJ10/04110 U.S. News: Why the GDP-Jobs Split? Look to AIWSJ10/04111 Review & Preview: Banking on Ma and PaBRR10/04112 Market ViewBRR10/04</div></div>							<div>FOMC Forecasts<div>2021202220232024202520262027</div><div>Real GDP (yoy%)6.202.502.902.801.601.801.90Core PCE (yoy%)3.575.344.182.943.102.602.10Unemployment (%)5.353.643.634.034.504.404.30</div></div>						

PRIVATE & CONFIDENTIAL

FED FORWARD 'GUIDANCE' TOOL

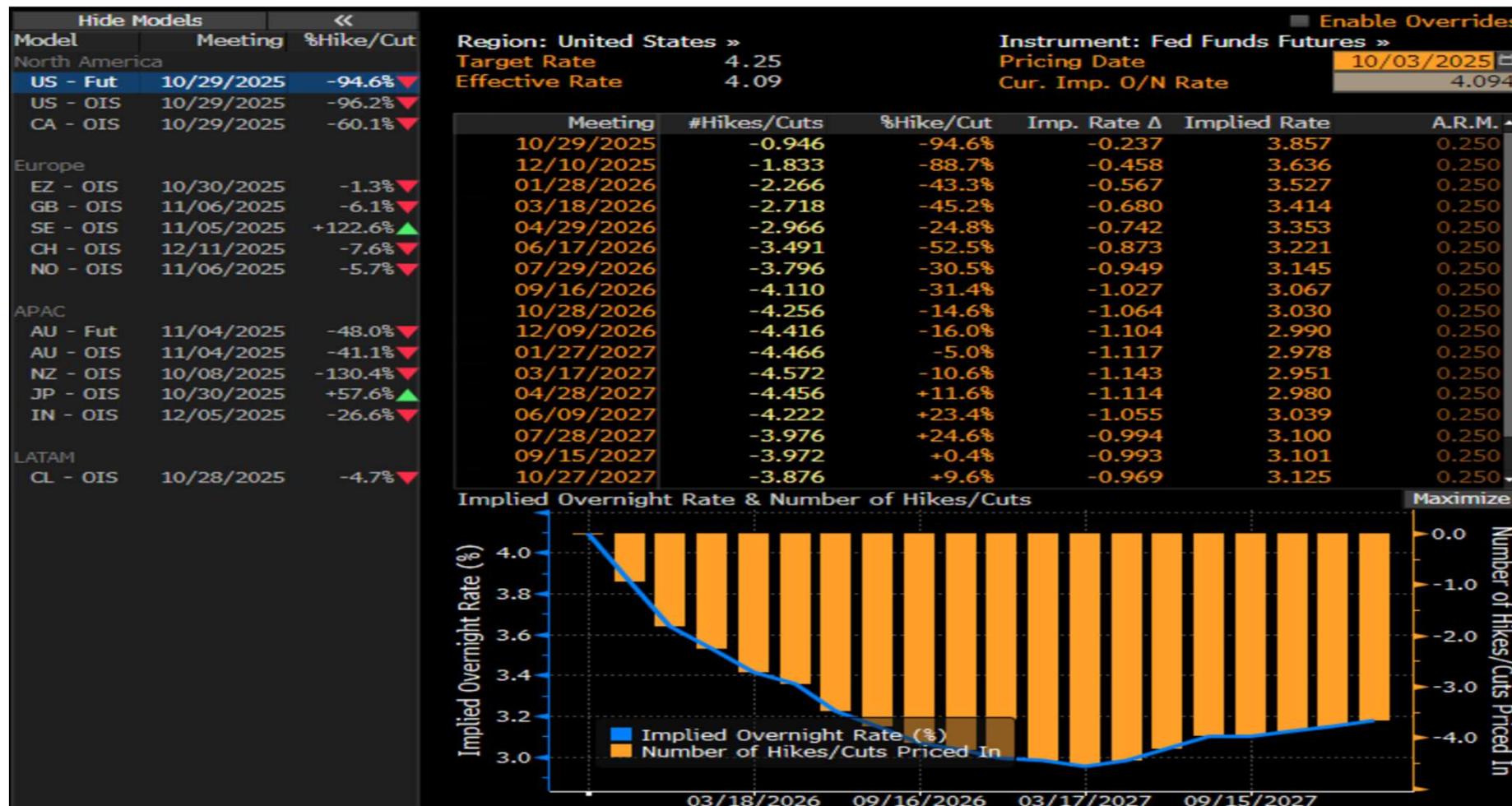
Since 2012 Fed officials started using the Dot Plot



Source: Bloomberg, CAIM, October 2025
*Bloomberg function 'DOTS'

THE FED'S INTEREST RATE PATH*

It is an active curve - subject to market changes.



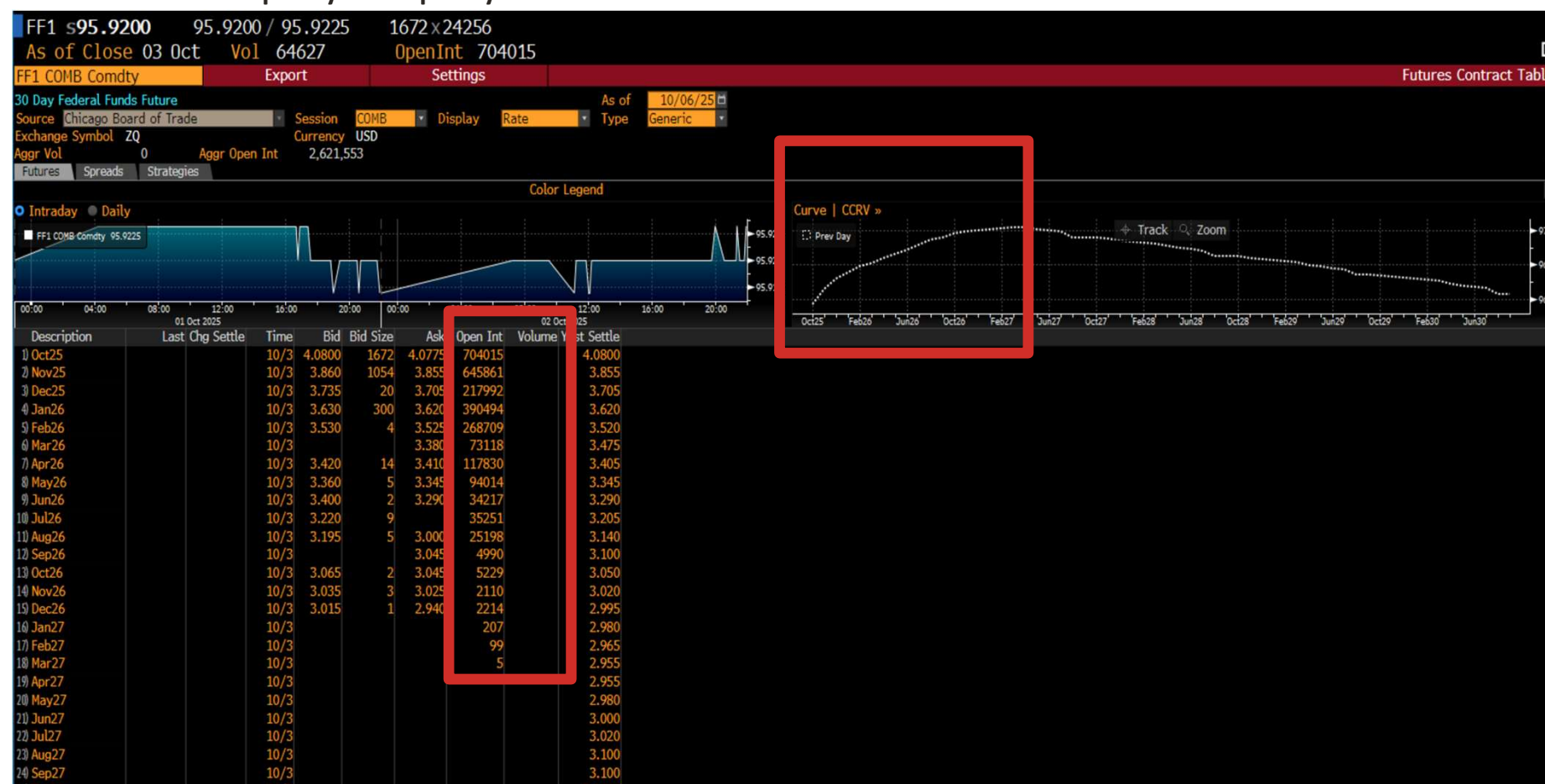
Source: Bloomberg, CAIM, , October 2025

*Bloomberg function 'WIRP'

THE 'FED'S' CURVE*

A 'crystal ball' for the interest rate path

Fed Funds Futures liquidity dries quickly with time.



Source: Bloomberg, CAIM, , October 2025

*Bloomberg function 'FFA Comdty CT'

US RATES MAIN MONITOR*

Some key market elements worth monitoring

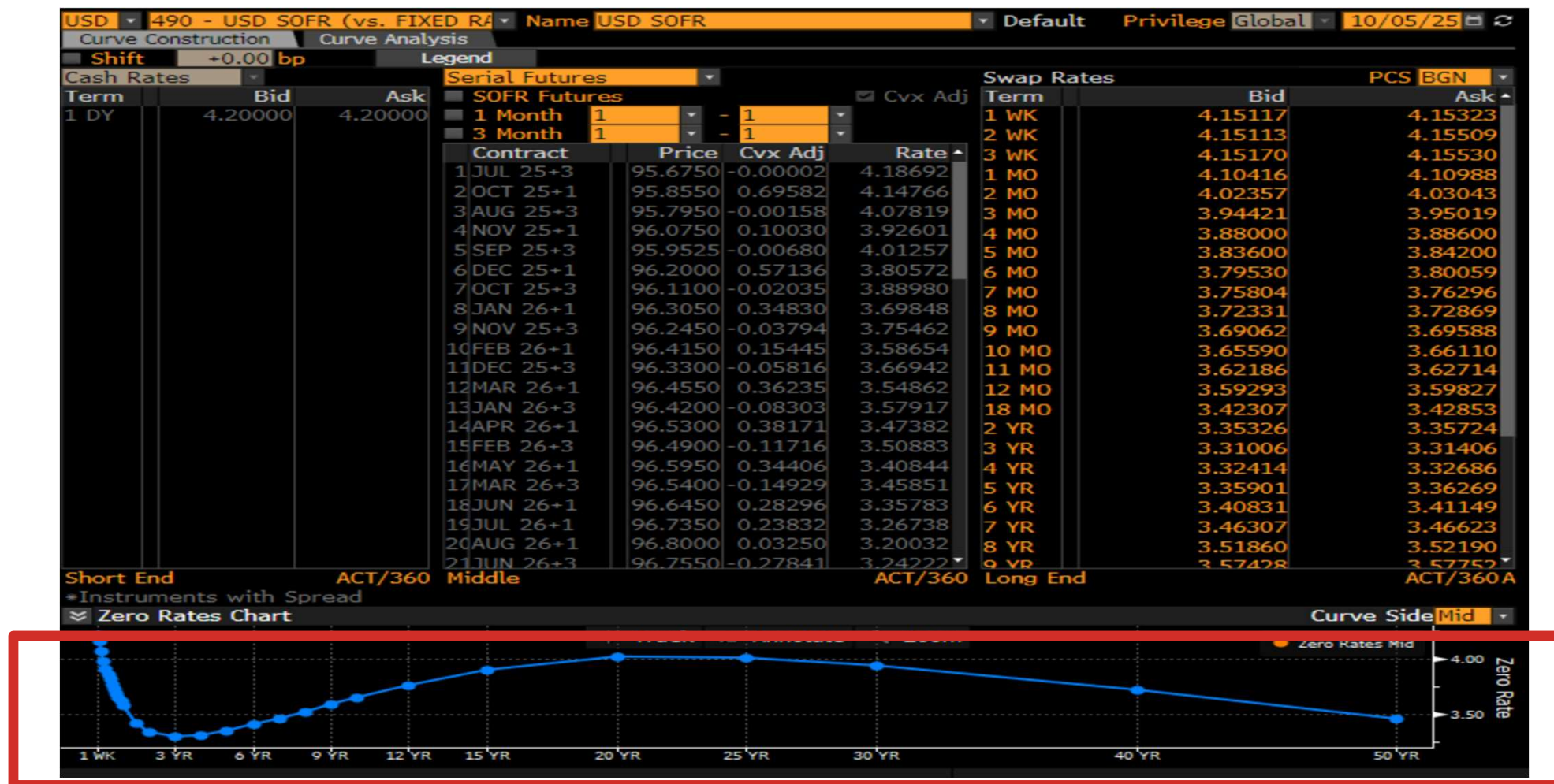
Fed Funds FOMC »			Fed O/N Repo			US T-Bill				USD Deposit Rates			Rev Repo (Bid/Ask)			
FDFD	4.0800	4.1100	TGCR		4.17	4W	4.07	+0.00	4.03	4.01	O/N	4.0800	4.2000	O/N	4.71	3.71
OBFR01		4.09	BGCR		4.17	2M	3.99	+0.00	3.93	3.92	1W	4.0601	4.2299	1W	4.26	4.22
Commercial Paper			AFX O/N Rate			3M	3.95	+0.00	3.87	3.86	2W	4.0800	4.2300	2W	4.24	4.22
30D		3.923				6M	3.82	+0.00	3.71	3.70	1M	3.9600	4.2600	1M	4.24	4.21
90D		3.984				1Y	3.63	+0.00	3.50	3.49						
Dow Jones			S&P 500 E-Mini Future			NASDAQ Composite Index				CRB Commodity Index						
DJIA	46758.28	+238.56	SPX Fut		6764.00	-2.75	CCMP	22780.51	-63.54	CRB	299.36	+1.03				
US Bonds FIT »						S&P 500		30D FF Futures		SOFR FUT		SOFR Fix				
T 3 ½ 09/30/27		3.576	99-27¼		99-27¾	+ 00	SPX	6715.79	OCT	95.920	SFR1	96.33	O/N	4.20		
T 3 ¾ 09/15/28		3.592	99-12+		99-12¾	+ 00	FOMC Forward FF		NOV	96.145	SFR2	96.54	1M	4.10		
T 3 ⅝ 09/30/30		3.715	99-18¾		99-19	+ 00	10/29/25	3.870	DEC	96.295	SFR3	96.76	3M	3.94		
T 3 ⅞ 09/30/32		3.903	99-26		99-26+	+ 00	12/10/25	3.649	JAN	96.380	SFR4	96.90	6M	3.79		
T 4 ¼ 08/15/35		4.119	101-01		101-01+	+ 00	01/28/26	3.537	FEB	96.480	SFR5	96.95	1Y	3.58		
T 4 ⅞ 08/15/45		4.679	102-15+		102-16+	+ 00	03/18/26	3.421	MAR	96.525	SFR6	96.96				
T 4 ¾ 08/15/55		4.711	100-18+		100-19+	+ 00	04/29/26	3.363								
Spot FX FXC »		Key Rates		SOFR OIS Swaps		10Y Note Future						Fed Repo				
JPY	147.4700	Prime	7.25	3Y	3.3121	CBT		112-21+	- 08			G/C ON		4.24		
EUR	1.1742	BLR	6.00	5Y	3.3609	Commodities				30Y MBS BBTM »						
GBP	1.3480	FDTR	4.25	10Y	3.6298	NYM WTI		60.88	+0.40	FNCL 5		99-13	99-14	+ 00		
CAD	1.3952	Discount	4.25	30Y	3.9188	GOLD		3886.54	+41.57	G2SF 5		99-19	99-20+	+ 00		
												Current Coupon		5.135		

Source: Bloomberg, CAIM, October 2025

*Bloomberg function 'BTMM US'

LIBOR IS 'DEAD'*

The SOFR is a new 'tool' to navigate through the US rates space



Source: Bloomberg, CAIM, , October 2025

*Bloomberg function 'ICVS 490'

THE SOFR IS OUR NEW 'LIBOR'*

Almost...

GV Ask/Chg		SOFR/GV		SOFR OIS		SOFR/FF		SOFR LCH/CME		Dow Jones	
2Y	3.576 +0.000	-22.1719	-0.4972	3.3553	+0.0304	-5.9770	+0.0240	2Y	-0.0500	DJIA	46758.28 +238.56
3Y	3.592 +0.000	-28.2459	-0.8960	3.3121	+0.0365	-5.8980	-0.0670	3Y	0.0500	S&P 500 Index	
4Y	3.664 -0.001	-32.9490	-0.7290	3.3255	+0.0398	-5.8425	-0.0440	4Y	0.1000	S&P 500	6715.79 +0.44
5Y	3.715 +0.000	-35.4935	-0.6185	3.3609	+0.0420	-5.8750	-0.0750	5Y	0.2500	NASDAQ Composite Index	
7Y	3.903 +0.001	-43.9150	-0.7251	3.4647	+0.0392	-5.8375	-0.0260	7Y	0.5000	CCMP	22780.51 -63.54
10Y	4.119 +0.000	-49.1250	-0.3750	3.6298	+0.0342	-6.1250	-0.1250	10Y	0.5000	Bloomberg European 500	
20Y	4.679 +0.001	-73.3400	-0.2800	3.9465	+0.0273	-6.0950	-0.0245	20Y	0.4500	BE500	1424.75 +7.12
30Y	4.711 +0.000	-79.3750		3.9188	+0.0256	-6.3115	-0.0030	30Y	0.4500		
CME Term SOFR		30D Fed Funds Futures		FOMC Forward SOFR		FOMC Forward FF		Active Futures			
O/N	4.20000 +0.00000	OCT	95.920 +0.000	10/29/25	3.94220	10/29/25	3.8703	2 Year	104-08	-0-01 ⁵ / ₈	
		NOV	96.145 -0.005	12/10/25	3.73200	12/10/25	3.6490	5 Year	109-09 ³ / ₄	-0-05	
1M	4.10159 -0.00432	DEC	96.295 -0.005	01/28/26	3.59850	01/28/26	3.5366	10 Year	112-21+	-0-08	
3M	3.93549 +0.00131	JAN	96.380 -0.010	03/18/26	3.48560	03/18/26	3.4214	US 10yr Ultra	115-11	-0-09	
6M	3.78802 +0.00220	FEB	96.480 -0.015	04/29/26	3.42300	04/29/26	3.3628	LONG BOND	116-30	-0-11	
1Y	3.58301 +0.00395	MAR	96.525 -0.015	06/17/26	3.29640	06/17/26	3.2251	ULTRA LONG	120-13	-0-11	
				07/29/26	3.19940	07/29/26	3.1446				
				09/16/26	3.13000	09/16/26	3.0750				
Cash Market		Generic SOFR Futures		SOFR Swaption 1Y		5Y		10Y		SOFR Futures	
ICAP FF	4.08000 +0.00000	SFR1	96.330 -0.020	1Y	81.357	81.713	80.337	1M SOFR	95.8550	-0.0025	
Fed Funds Eff	4.09000 +0.00000	SFR2	96.540 -0.025	2Y	83.609	83.246	82.005	3M SOFR	96.3300	-0.0200	
O/N Repo	4.21000 -0.03000	SFR3	96.755 -0.030	5Y	86.376	84.378	82.647				
AMERIBOR	4.14045 -0.03925	SFR4	96.895 -0.025	10Y	85.755	83.573	80.597				
		SFR5	96.950 -0.020								
		SFR6	96.955 -0.020								

Source: Bloomberg, CAIM, , October 2025

*Bloomberg function 'USSW'

SECURED VERSUS UNSECURED RISK

Disturbance of demand/supply forces



Source: Bloomberg, CAIM, , October 2025
*Bloomberg function 'GC'

UST ACTIVE MONITOR*

Liquidity does matter

4) Actives	5) Bills	6) Notes	7) TIPS	8) Strips	9) Sprds	10) Curves	11) FRN	12) Bfly	13) WI
31) 11/04/25		4.025 / 4.005		4.074	+0.025	Notes & Bonds			
32) 11/13/25		4.015 / 4.003		4.075	-0.002	54) 4 ³ / ₄ 555		100-17+ / 18	4.714 - 12+
33) 12/02/25		3.930 / 3.915		3.994	+0.060	55) 4 ³ / ₄ 855 30YR		100-18+ / 19+	4.711 - 12
34) 01/02/26		3.870 / 3.860		3.951	+0.010	56) WI 30YR		4.715 / 4.715	+0.025
35) 02/03/26		3.795 / 3.787		3.889	+0.005	TIPS			
36) 04/02/26		3.710 / 3.700		3.821	+0.010	57) 1 ⁵ / ₈ 430		101-14 / 101-16 ³ / ₄	1.277 - 04 ³ / ₄
37) 10/01/26		3.500 / 3.490		3.634	+0.020	58) 1 ⁷ / ₈ 735		100-25+ / 100-27 ³ / ₄	1.778 - 08 ¹ / ₄
Notes & Bonds						59) 2 ³ / ₈ 255		97-24+ / 97-29 ¹ / ₄	2.475 - 11
38) 3 ⁷ / ₈ 727		100-15 ¹ / ₈ / 15+		3.595	- 02	Curve Trades			
39) 3 ⁵ / ₈ 827		100-02 / 02 ¹ / ₄		3.585	- 02 ¹ / ₈	60) 2yr vs 5yr		13.700 / 14.080	+0.800
40) 3 ¹ / ₂ 927 2YR		99-27 ¹ / ₄ / 27 ³ / ₈		3.576	- 02 ¹ / ₄	61) 2yr vs 10yr		54.125 / 54.524	-0.057
41) 3 ⁵ / ₈ 828		100-02+ / 03		3.589	- 03+	62) 5yr vs 10yr		40.251 / 40.617	-0.858
42) 3 ³ / ₈ 928 3YR		99-12+ / 12 ³ / ₄		3.592	- 03+	63) 10yr vs 30yr		59.031 / 59.420	-1.319
43) WI 3YR		3.598 / 3.592			+0.045	Other Markets			
44) 3 ⁷ / ₈ 730		100-22 ¹ / ₄ / 22 ³ / ₄		3.712	- 06 ¹ / ₄	64) US Long(CBT)	10/03	116-30	-0-11
45) 3 ⁵ / ₈ 830		99-18 ³ / ₄ / 19		3.716	- 06+	65) 10yr Fut (CBT)	10/03	112-21+	-0-08
46) 3 ⁵ / ₈ 930 5YR		99-18 ³ / ₄ / 19		3.715	- 06+	66) 5Yr Fut(CBT)	10/03	109-09 ¹ / ₄	-0-05
47) 3 ⁷ / ₈ 832		99-27+ / 28		3.895	- 08+	67) Dow Jones Ind	10/03	46758.281	+238.563
48) 3 ⁷ / ₈ 932 7YR		99-26 / 26+		3.903	- 08+	68) S&P 500 Ind	10/03	6715.790	+0.440
49) 4 ¹ / ₄ 535		101-04+ / 05		4.103	- 09+	69) NYM WTI Crd	10/03 d	60.880	+0.400
50) 4 ¹ / ₄ 835 10YR		101-01 / 01+		4.119	- 09+	70) Gold	10/03	3886.540	+41.572
51) WI 10YR		4.125 / 4.117			+0.035	71) Global Agg	10/03	500.734	+0.215
52) 5 545		104-04+ / 05		4.674	- 11	72) US Agg	10/03	2328.897	-3.219
53) 4 ⁷ / ₈ 845 20YR		102-15+ / 16+		4.679	- 11	73) US Treasury	10/03	2416.923	-3.555

Source: Bloomberg, CAIM, , October 2025

*Bloomberg function 'FIT'

US TREASURIES*

What is cheap and what is dear?

The curve normalisation process is almost finished.

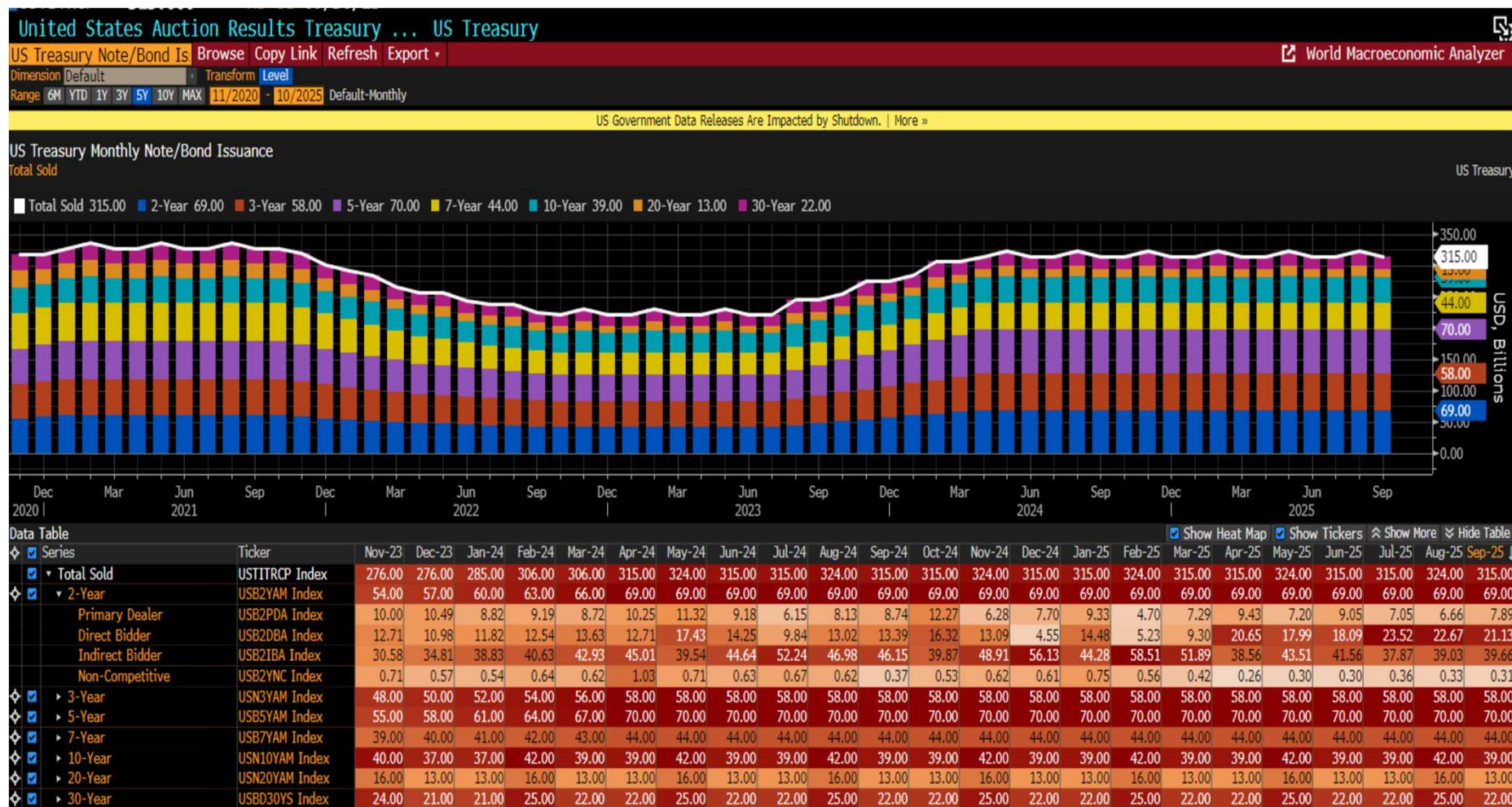


Source: Bloomberg, CAIM, , October 2025

*Bloomberg function 'GOVY'

UST MARKET GROWTH

Market is closely watching the issuance calendar and results!

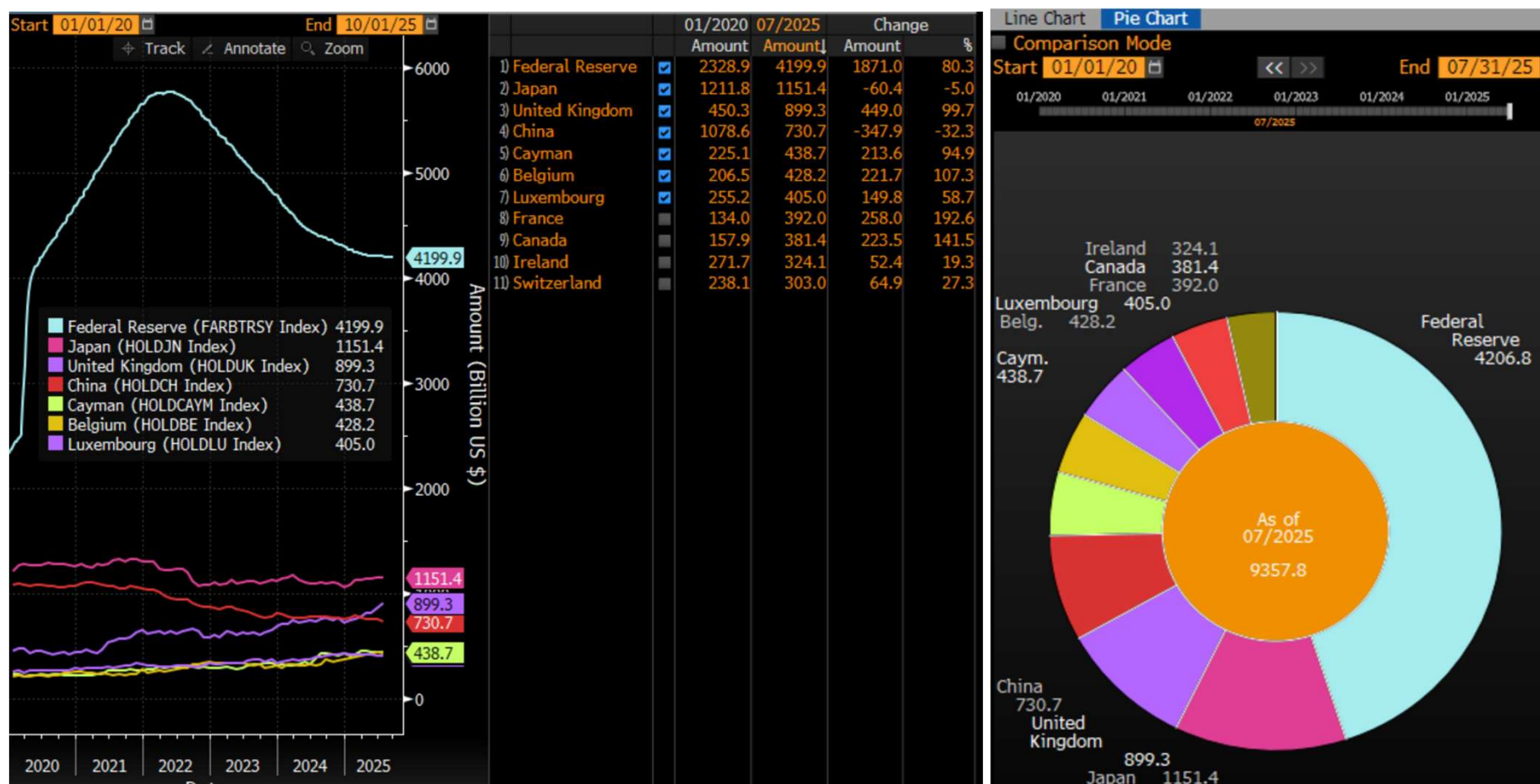


Source: Bloomberg, CAIM, , October 2025

*Bloomberg function 'ECAN'

UST OWNERSHIP STRUCTURE

The FED has remained the single largest investor



Source: Bloomberg, CAIM, , October 2025


*Bloomberg function 'DEBT'



APPENDIX

US CURVES ON BLOOMBERG

The lucky numbers are : 490 & 42!

Swap Curve Builder				
	Currency	Country/Region	Curve Number	Curve
	USD	United States of America	23	USD (30/360, S/A vs. 3M LIBOR)
	USD	United States of America	42	USD OIS
	USD	United States of America	47	USD (ACT/360, AHH vs. 3M LIBOR)
	USD	United States of America	50	USD (vs. 1M LIBOR)
	USD	United States of America	51	USD (vs. 6M LIBOR)
	USD	United States of America	52	USD (vs. T-BILL)
	USD	United States of America	85	USD (vs. FED FUNDS)
	USD	United States of America	86	USD (vs. PRIME)
	USD	United States of America	87	USD (vs. Comm Paper)
	USD	United States of America	349	USD (vs. 12M LIBOR)
	USD	United States of America	357	USD MUNI %
	USD	United States of America	389	USD EIOPA UFR Curve
	USD	United States of America	400	USD Cashflow CSA Curve(s)
	USD	United States of America	478	Onsh. CNY USD Deposit
	USD	United States of America	490	USD SOFR (vs. FIXED RATE)
	USD	United States of America	528	USD (vs. 3M BSBY)
	USD	United States of America	548	USD (vs. 1M BSBY)
	USD	United States of America	558	USD 1M CME Term SOFR
	USD	United States of America	559	USD 3M CME Term SOFR
	USD	United States of America	560	USD 6M CME Term SOFR
	USD	United States of America	561	USD 12M CME Term SOFR

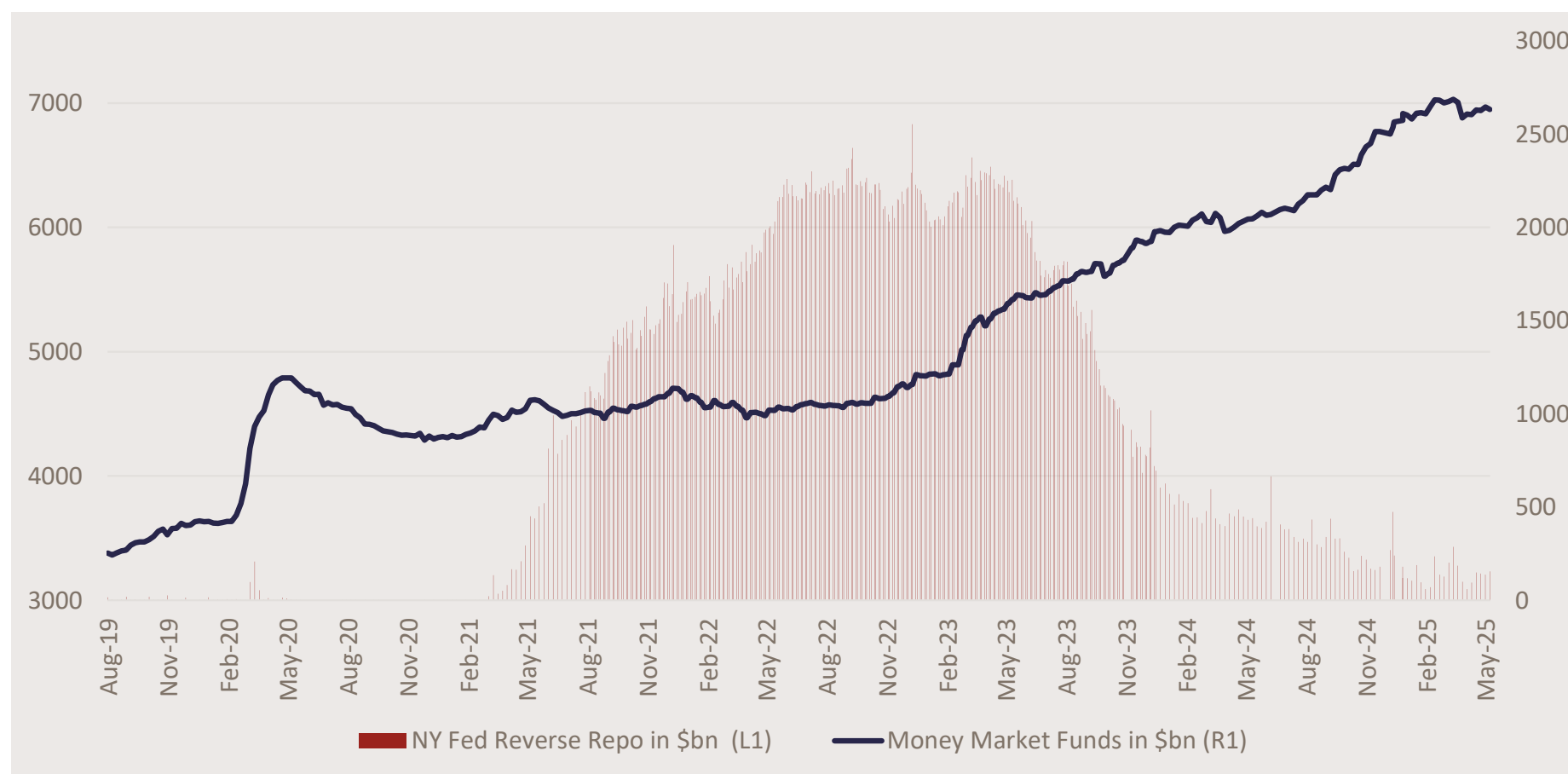
Source: Bloomberg, CAIM, , October 2025

*Bloomberg function 'ICVS'

LIQUIDITY SHIFT – ONE SIDED MARKET

Market closely monitoring cash levels at the FED

Funds ‘parked’ at the Fed going dangerously low while Money Market funds enjoy wave after wave of inflows



Source: Bloomberg Finance L.P., August 2025

Money Market funds flows behaviour remains one of the key questions in coming months



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