

CU Investment Solutions, LLC

Brady McLeod, Registered Representative
 Walter Thompson, Registered Representative
 Julie Chapin, Registered Representative
 Chris Hageman, Registered Representative
 Rachel Palmer, Registered Representative
 Call 855-882-8474



**New Issue Offerings
 3/31/2023**

Fixed Rate Callables												
Issuer	Cusip	Coupon	Maturity	Call Date	Price	Years To	Lockout	Call Frequency	Settle Date	Spread to Interp		
						Maturity	in Months			Treas	YTM	YTC
FEDERAL HOME LOAN BANK	3130AVKA9	5.125	4/17/2024	7/17/2023	100	1.00	3	Quarterly	4/17/2023	0.67	5.125	5.125
FEDERAL HOME LOAN BANK	3130AVKE1	5.450	12/21/2026	7/21/2023	100	3.67	3	Quarterly	4/21/2023	1.59	5.452	5.452
FANNIE MAE	3135GAGB1	5.350	1/5/2027	10/5/2023	100	3.76	6	Quarterly	4/5/2023	1.50	5.352	5.352
FEDERAL HOME LOAN BANK	3130AVKD3	5.000	4/12/2027	4/12/2024	100	4.00	12	Quarterly	4/12/2023	1.19	5.000	5.000
FEDERAL HOME LOAN BANK	3130AVK50	5.000	4/24/2028	4/24/2024	100	5.01	12	Quarterly	4/24/2023	1.34	5.000	5.000
FEDERAL FARM CREDIT BANK	3133EPEM3	6.320	4/3/2036	7/3/2023	100	13.01	3	Anytime	4/3/2023	2.68	6.320	6.320

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Secondary Offerings 3/31/2023

Callables

Issuer	Coupon	Maturity	Call Date	Call Type	Price	YTC	YTM	YTM Spread to Interp Treas	Cusip
FEDERAL HOME LOAN BANK	0.950	6/28/2024	6/28/2023	Quarterly	95.62	20.359	4.639	0.27	3130AQ6V0
FREDDIE MAC	4.050	7/25/2025	4/25/2023	Monthly	98.86	22.790	4.573	0.50	3134GXE34
FEDERAL HOME LOAN BANK	1.000	7/27/2026	4/27/2023	Monthly	90.24	162.974	4.181	0.27	3130ANED8
FEDERAL HOME LOAN BANK	2.750	3/8/2027	4/8/2023	Monthly	95.17	367.879	4.093	0.27	3130AQZT3
FANNIE MAE	0.810	9/25/2028	9/25/2024	Annual	84.43	12.696	4.004	0.35	3136G43D3

Bullets

Issuer	Coupon	Maturity	Price	Yield	Spread to Interp	Benchmark	Cusip
FEDERAL HOME LOAN BANK	1.875	3/8/2024	97.48	4.677	0.19	T 3 7/8 03/31/25	3130A7PH2
FEDERAL HOME LOAN BANK	4.625	4/3/2024	99.93	4.697	0.24	T 3 7/8 03/31/25	3130AVK76
FEDERAL HOME LOAN BANK	5.250	6/14/2024	100.78	4.577	0.18	T 3 7/8 03/31/25	3130AV7F3
FEDERAL HOME LOAN BANK	5.250	9/13/2024	101.00	4.522	0.21	T 3 7/8 03/31/25	3130AVB84
FREDDIE MAC	3.375	1/27/2025	98.25	4.387	0.21	T 3 7/8 03/31/25	3134GXF25
FEDERAL HOME LOAN BANK	4.625	3/14/2025	100.52	4.337	0.19	T 3 7/8 03/31/25	3130AUZC1
FEDERAL FARM CREDIT BANK	1.800	8/22/2025	94.33	4.327	0.27	T 3 7/8 03/31/25	3133ENPX2
FARMER MAC	0.520	11/20/2025	91.05	4.146	0.13	T 4 5/8 03/15/26	31422B6W5
FEDERAL HOME LOAN BANK	1.800	2/27/2026	93.74	4.111	0.13	T 4 5/8 03/15/26	3130AQWH2
FEDERAL FARM CREDIT BANK	4.500	3/2/2026	101.12	4.086	0.11	T 4 5/8 03/15/26	3133EPCF0
FEDERAL HOME LOAN BANK	5.750	6/12/2026	104.93	4.086	0.14	T 4 5/8 03/15/26	3133XG6E9
FEDERAL FARM CREDIT BANK	4.375	9/15/2027	102.15	3.844	0.11	T 3 5/8 03/31/28	3133EPDJ1
FEDERAL FARM CREDIT BANK	3.625	3/21/2028	99.00	3.849	0.19	T 3 5/8 03/31/28	3133EPDP7
FEDERAL FARM CREDIT BANK	4.250	5/17/2028	101.73	3.874	0.22	T 3 5/8 03/31/28	3133EN2M1
FEDERAL FARM CREDIT BANK	2.830	8/3/2028	94.96	3.884	0.23	T 3 5/8 03/31/28	3133EAG51

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**Indicative Offerings - Mortgage-Backed Securities
 3/31/2023**

MBS Pools										
Issue	Coupon	WAL	Yield	I Spread	Price	Principal	Type	Current Face	Cusip	
FR SB8227	4.00	5.90	4.26	63	98.63	05/23-02/38	15 Year	10,000,000	3132D6D80	
FR SB8222	4.50	5.80	4.50	87	99.91	05/23-02/38	15 Year	10,000,000	3132D6D31	
FR SB8223	5.00	5.40	4.75	111	101.00	05/23-01/38	15 Year	10,000,000	3132D6D49	
FR SB8224	5.50	4.69	4.93	124	102.09	05/23-01/38	15 Year	10,000,000	3132D6D56	
	0	0.00	0.00	0	0.00	0.000	0	0	0.000	
FHR 4634 MA	4.50	3.54	4.35	52	100.44	05/23-03/31	SEQ	11,118,500	3137BSSL8	
FNR 2023-5 CD	5.00	3.52	4.56	72	101.22	05/23-02/30	SEQ	13,760,571	3136BPC90	
	0	0.00	0.00	0	0.00	0.000	0	0	0.000	
	0	0.00	0.00	0	0.00	0.000	0	0	0.000	
	0	0.00	0.00	0	0.00	0.000	0	0	0.000	
UMBS - 15 year	-	0.00	0.00	0	-	98-14	99-23	0	0.000	
Yield	-	0.00	0.00	0	-	4.314	4.538	0	0.000	
WAL	-	0.00	0.00	0	-	5.551	5.1943	0	0.000	
	0	0.00	0.00	0	0.00	0.000	0	0	0.000	
	0	0.00	0.00	0	0.00	0.000	0	0	0.000	
	0	0.00	0.00	0	2-Year	4-Year	5-Year	0	0.000	
	0	0.00	0.00	0	0.00	0.000	0	0	0.000	
Treasury	0.04	0.00	0.00	0	0.04	0.038	0.03641	0	0.000	

CMOs										
Issue	Coupon	WAL	Yield	I Spread	Price	FMED U300 % Change	Principal Window	Type	Current Face	Cusip
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
FHR 4634 MA	4.50	3.54	4.35	52	100.44	-9.3%	05/23-03/31	SEQ	11,118,500	3137BSSL8
FNR 2023-5 CD	5.00	3.52	4.56	72	101.22	-10.5%	05/23-02/30	SEQ	13,760,571	3136BPC90
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
TBA Offer Levels	0.02	0.00	0.00	0	0.03	3.5%	0.040	0.045	0	0.000
TBA Offer Levels	0.02	0.00	0.00	0	0.03	3.5%	0.040	0.045	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
UMBS - 15 year	-	0.00	0.00	0	-	-	98-14	99-23	0	0.000
Yield	-	0.00	0.00	0	-	-	4.314	4.538	0	0.000
WAL	-	0.00	0.00	0	-	-	5.551	5.1943	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	2-Year	3-Year	4-Year	5-Year	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
Treasury	0.04	0.00	0.00	0	0.04	3.9%	0.038	0.03641	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000
	0	0.00	0.00	0	0.00	0.0%	0.000	0	0	0.000

TBA Offer Levels	#VALUE!	2.50%	3.00%	3.50%	4.00%	4.50%	5.00%
FNCI - 15 year	97-15	100-09+	102-29	104-05	102-30+	102-26+	-
FGCI - 15 year	97-14	100-10+	102-27+	104-15	102-26	102-24	-
0							

	#VALUE!	6-Month	1-Year	2-Year	3-Year	4-Year	5-Year	6-Year	30-Year
Treasury	0.40%	0.63%	0.83%	1.15%	1.44%	1.72%	1.87%	###	3.13%

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Treasury Offerings 3/31/2023

Bullets						
Issuer	Coupon	Maturity	Price	Yield	Years	Cusip
US TREASURY N/B	1.250	7/31/2023	98.9078	4.613	0.33	912828S92
US TREASURY N/B	2.500	8/15/2023	99.2320	4.595	0.38	912828V56
US TREASURY N/B	1.375	9/30/2023	98.4625	4.571	0.50	912828T26
US TREASURY N/B	1.625	10/31/2023	98.3258	4.609	0.59	912828T91
US TREASURY N/B	2.750	11/15/2023	98.8414	4.675	0.63	912828WE6
US TREASURY N/B	2.250	12/31/2023	98.2867	4.617	0.75	912828V23
US TREASURY N/B	2.500	1/31/2024	98.2789	4.637	0.84	912828S29
US TREASURY N/B	2.125	2/29/2024	97.8063	4.619	0.92	912828W48
US TREASURY N/B	2.250	3/31/2024	97.7633	4.582	1.00	91282CEG2
US TREASURY N/B	2.000	4/30/2024	97.3347	4.569	1.08	912828X70
US TREASURY N/B	2.500	5/15/2024	97.8425	4.502	1.13	912828WJ5
US TREASURY N/B	3.000	6/30/2024	98.2448	4.464	1.25	91282CEX5
US TREASURY N/B	3.000	7/31/2024	98.1745	4.427	1.34	91282CFA4
US TREASURY N/B	3.250	8/31/2024	98.4441	4.400	1.42	91282CFG1
US TREASURY N/B	4.250	9/30/2024	99.8230	4.374	1.50	91282CFN6
US TREASURY N/B	4.375	10/31/2024	100.0495	4.340	1.59	91282CFQ9
US TREASURY N/B	2.250	11/15/2024	96.8386	4.294	1.63	912828G38
US TREASURY N/B	4.250	12/31/2024	99.9988	4.247	1.76	91282CGD7
US TREASURY N/B	4.125	1/31/2025	99.8542	4.206	1.84	91282CGG0
US TREASURY N/B	2.000	2/15/2025	96.0847	4.198	1.88	912828J27
US TREASURY N/B	1.750	3/15/2025	95.5730	4.138	1.96	91282CED9
US TREASURY N/B	2.625	4/15/2025	97.1081	4.122	2.04	91282CEH0
US TREASURY N/B	2.750	5/15/2025	97.3256	4.081	2.13	91282CEQ0
US TREASURY N/B	2.875	6/15/2025	97.5756	4.036	2.21	91282CEU1
US TREASURY N/B	3.000	7/15/2025	97.7631	4.033	2.29	91282CEY3
US TREASURY N/B	2.750	8/31/2025	97.1616	3.997	2.42	912828420
US TREASURY N/B	3.000	9/30/2025	97.7241	3.968	2.50	9128285C0
US TREASURY N/B	4.250	10/15/2025	100.6459	3.979	2.55	91282CFP1
US TREASURY N/B	4.500	11/15/2025	101.3334	3.957	2.63	91282CFW6
US TREASURY N/B	2.625	12/31/2025	96.6772	3.913	2.76	9128285T3
US TREASURY N/B	3.875	1/15/2026	99.8725	3.922	2.80	91282CGE5
US TREASURY N/B	4.000	2/15/2026	100.2553	3.904	2.88	91282CGL9
US TREASURY N/B	4.625	3/15/2026	102.0834	3.870	2.96	91282CGR6
US TREASURY N/B	0.750	4/30/2026	91.0744	3.856	3.08	91282CBW0
US TREASURY N/B	1.625	5/15/2026	93.5431	3.843	3.13	912828R36
US TREASURY N/B	1.875	6/30/2026	94.0978	3.827	3.25	9128287B0
US TREASURY N/B	0.625	7/31/2026	90.0666	3.832	3.34	91282CCP4
US TREASURY N/B	1.375	8/31/2026	92.2072	3.836	3.42	912828YD6

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Bullets						
Issuer	Coupon	Maturity	Price	Yield	Years	Cusip
US TREASURY N/B	1.625	9/30/2026	92.9650	3.795	3.50	912828YG9
US TREASURY N/B	1.125	10/31/2026	91.0900	3.815	3.59	91282CDG3
US TREASURY N/B	2.000	11/15/2026	93.9572	3.804	3.63	912828U24
US TREASURY N/B	1.250	12/31/2026	91.2228	3.787	3.76	91282CDQ1
US TREASURY N/B	1.500	1/31/2027	91.9259	3.785	3.84	912828Z78
US TREASURY N/B	2.250	2/15/2027	94.5978	3.762	3.88	912828V98
US TREASURY N/B	2.500	3/31/2027	95.3478	3.766	4.00	91282CEF4
US TREASURY N/B	2.750	4/30/2027	96.2528	3.750	4.08	91282CEN7
US TREASURY N/B	2.625	5/31/2027	95.7372	3.741	4.17	91282CET4
US TREASURY N/B	3.250	6/30/2027	98.1200	3.732	4.25	91282CEW7
US TREASURY N/B	2.750	7/31/2027	96.1591	3.718	4.34	91282CFB2
US TREASURY N/B	3.125	8/31/2027	97.6669	3.703	4.42	91282CFH9
US TREASURY N/B	4.125	9/30/2027	101.7138	3.707	4.50	91282CFM8
US TREASURY N/B	4.125	10/31/2027	101.7763	3.699	4.59	91282CFU0
US TREASURY N/B	2.250	11/15/2027	93.8856	3.703	4.63	9128283F5
US TREASURY N/B	3.875	12/31/2027	100.8778	3.671	4.76	91282CGC9
US TREASURY N/B	3.500	1/31/2028	99.2919	3.661	4.84	91282CGH8
US TREASURY N/B	4.000	2/29/2028	101.6200	3.636	4.92	91282CGP0
US TREASURY N/B	1.250	3/31/2028	89.0653	3.667	5.01	91282CBS9
US TREASURY N/B	1.250	4/30/2028	88.9313	3.660	5.09	91282CBZ3
US TREASURY N/B	2.875	5/15/2028	96.3063	3.673	5.13	9128284N7
US TREASURY N/B	1.250	6/30/2028	88.6266	3.653	5.25	91282CCH2
US TREASURY N/B	1.000	7/31/2028	87.2672	3.651	5.34	91282CCR0
US TREASURY N/B	2.875	8/15/2028	96.1500	3.671	5.38	9128284V9
US TREASURY N/B	1.250	9/30/2028	88.1109	3.659	5.51	91282CCY5
US TREASURY N/B	1.375	10/31/2028	88.5875	3.656	5.59	91282CDF5
US TREASURY N/B	3.125	11/15/2028	97.2828	3.664	5.63	9128285M8
US TREASURY N/B	1.375	12/31/2028	88.4469	3.621	5.76	91282CDP3
US TREASURY N/B	1.750	1/31/2029	90.1266	3.645	5.84	91282CDW8
US TREASURY N/B	2.625	2/15/2029	94.6578	3.644	5.88	9128286B1
US TREASURY N/B	2.375	3/31/2029	93.2281	3.643	6.01	91282CEE7
US TREASURY N/B	2.875	4/30/2029	95.8909	3.635	6.09	91282CEM9
US TREASURY N/B	2.750	5/31/2029	95.1878	3.628	6.17	91282CES6
US TREASURY N/B	3.250	6/30/2029	97.9300	3.623	6.25	91282CEV9
US TREASURY N/B	2.625	7/31/2029	94.4534	3.613	6.34	91282CFC0
US TREASURY N/B	3.125	8/31/2029	97.2191	3.615	6.42	91282CFJ5
US TREASURY N/B	3.875	9/30/2029	101.4925	3.615	6.51	91282CFL0
US TREASURY N/B	4.000	10/31/2029	102.2738	3.608	6.59	91282CFT3

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US TREASURY N/B	3.875	11/30/2029	101.6019	3.602	6.67	91282CFY2	
US TREASURY N/B	3.875	12/31/2029	101.6800	3.592	6.76	91282CGB1	
US TREASURY N/B	3.500	1/31/2030	99.4613	3.589	6.84	91282CGJ4	
US TREASURY N/B	4.000	2/28/2030	102.5081	3.586	6.92	91282CGQ8	
US TREASURY N/B	0.625	5/15/2030	81.8194	3.537	7.13	912828ZQ6	
US TREASURY N/B	0.875	11/15/2030	82.6787	3.484	7.63	91282CAV3	
US TREASURY N/B	1.125	2/15/2031	84.1319	3.444	7.88	91282CBL4	
US TREASURY N/B	1.625	5/15/2031	86.8494	3.500	8.13	91282CCB5	
US TREASURY N/B	1.250	8/15/2031	83.8025	3.499	8.38	91282CCS8	
US TREASURY N/B	1.375	11/15/2031	84.3181	3.499	8.63	91282CDJ7	
US TREASURY N/B	1.875	2/15/2032	87.6931	3.501	8.88	91282CDY4	
US TREASURY N/B	2.875	5/15/2032	95.0563	3.513	9.13	91282CEP2	
US TREASURY N/B	2.750	8/15/2032	94.0094	3.505	9.38	91282CFF3	
US TREASURY N/B	4.125	11/15/2032	104.9313	3.516	9.64	91282CFV8	
US TREASURY N/B	3.500	2/15/2033	100.0344	3.496	9.89	91282CGM7	

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