

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 5/15/2019

Fixed Rate Callables												
Issuer	Cusip	Coupon	Maturity	Call Date	Price	Years To Maturity	Lockout in Months	Call Frequency	Settle Date	Spread to Interp		
										Treas	YTM	YTC
FEDERAL FARM CREDIT BANK	3133EKL9	2.570	5/16/2022	8/16/2019	100	3.00	3	Anytime	5/16/2019	0.43	2.570	2.570
FARMER MAC	31422BFR6	2.470	5/20/2022	5/20/2020	100	3.00	12	Semi-Annual	5/20/2019	0.33	2.470	2.470
FEDERAL FARM CREDIT BANK	3133EKLW4	2.870	11/20/2024	8/20/2019	100	5.51	3	Anytime	5/20/2019	0.72	2.870	2.870
FEDERAL FARM CREDIT BANK	3133EKMD5	3.040	5/23/2029	5/23/2022	100	10.01	36	Anytime	5/23/2019	0.68	3.040	3.040

Step-Up Rate Callables												
Issuer	Cusip	Coupon	Maturity	Call Date	Price	Years To Maturity	Lockout in Months	Call Frequency	Settle Date	Spread to Interp		
										Treas	YTM	YTC

All securities are offered through CU Investment Solutions LLC (ISI). The home office of ISI is located at 8500 W. 110th St., Overland Park, KS 66210. ISI is registered with the Securities and Exchange Commission (SEC) as a broker-dealer under the Securities Exchange Act of 1934. ISI also is registered in the state of Kansas as an investment advisor. Member of FINRA and SIPC. All investments carry risk; please speak with your representative to gain a full understanding of said risks. Securities offered by ISI are not insured by the FDIC or NCUSIF and may lose value. All opinions, prices and yields are subject to change without notice.

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Indicative Offerings - Mortgage-Backed Securities 5/15/2019

MBS Pools											
Issue	Coupon	WAL	Yield	I Spread	Price	Principal	Type	OAS	Current Face	Cusip	
FN BM5535	3.00	3.17	2.44	33	101.53	07/19-12/26	10 Year	12.5	18,368,804	3140JAEH7	
FN MA3623	3.50	3.57	2.55	44	102.98	07/19-11/28	10 Year	13.6	9,313,598	31418DAZ5	
FG G18665	2.50	4.86	2.56	43	99.71	07/19-06/32	15 Year	12.2	5,528,916	3128MMW33	
FN BM4407	2.50	3.28	2.44	34	100.05	07/19-09/27	15 Year	18.1	21,043,969	3140J83R2	
FN MA3657	3.00	5.26	2.72	57	101.19	07/19-03/34	15 Year	17.4	11,410,500	31418DB35	
FN BM5543	3.00	3.79	2.54	43	101.47	07/19-06/29	15 Year	22.0	7,279,976	3140JAER5	
FN MA3540	3.50	4.52	2.82	69	102.64	07/19-08/33	15 Year	29.3	199,422,488	31418C5A8	
FN 890803	3.50	3.97	2.69	57	102.79	07/19-10/30	15 Year	33.1	12,110,640	31410LU42	
FN MA3671	3.00	6.67	2.86	64	100.71	07/19-02/39	20 Year	14.1	37,359,141	31418DCH3	
FN MA3634	3.50	5.56	2.94	78	102.60	07/19-01/39	20 Year	27.3	19,383,225	31418DBC5	
FN MA3590	4.00	5.01	3.01	87	104.25	07/19-11/38	20 Year	34.5	9,810,115	31418C7C2	

CMOs											
Issue	Coupon	WAL	Yield	I Spread	Price	FMED U300 %	Principal	Type	OAS	Current Face	Cusip
FNR 2016-103 KA	3.00	4.01	2.57	45	101.46	-12.1%	06/19-07/28	SEQ	7.1	20,000,400	3136AUY47
FNR 2013-58 KJ	3.00	3.59	2.56	45	101.33	-11.5%	06/19-03/30	EXCH,+	16.2	8,353,862	3136AELE5
FNR 2018-63 KH	3.00	3.43	2.60	49	101.13	-13.7%	06/19-03/27	EXCH,AD+	7.3	42,366,708	3136B24U3
FHR 4760 P	3.00	3.51	2.63	52	101.14	-12.9%	06/19-03/27	PAC	7.6	16,024,208	3137FEAD2
FNR 2018-22 MA	3.50	2.13	2.50	35	101.85	-10.5%	06/19-02/24	AD,PAC	6.3	9,502,379	3136B1NG5
FHR 4800 PA	3.50	2.51	2.56	42	102.17	-10.4%	06/19-09/24	PAC	12.8	9,293,264	3137F5ZB8
FNR 2018-29 PA	3.50	2.06	2.60	45	101.58	-10.8%	06/19-04/24	AD,PAC	29.3	25,908,392	3136B1ZP2

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Secondary Offerings 5/15/2019

Callables										
Issuer	Coupon	Maturity	Call Date	Call Type	Price	YTC	YTM	Spread to Interp		Cusip
								Treas		
FREDDIE MAC	1.765	6/26/2020	7/26/2019	Quarterly	99.50	4.328	2.219	-0.06		3134GBKN1
FEDERAL FARM CREDIT BANK	1.660	5/25/2021	5/22/2019	Anytime	98.98	62.824	2.176	0.04		3133EGBZ7
FEDERAL FARM CREDIT BANK	1.860	10/20/2023	5/22/2019	Anytime	98.28	106.815	2.271	0.14		3133EGZA6
FEDERAL FARM CREDIT BANK	1.980	10/25/2024	5/22/2019	Anytime	97.75	139.968	2.424	0.27		3133EGZW8
FEDERAL FARM CREDIT BANK	2.360	6/16/2025	5/22/2019	Anytime	98.58	88.189	2.615	0.43		3133EGFB6

Bullets								
Issuer	Coupon	Maturity	Price	Yield	Spread to Interp			Cusip
					Treas	Benchmark		
FEDERAL HOME LOAN BANK	2.875	9/11/2020	100.87	2.198	-0.04	T 2 1/4 04/30/21		313370US5
FEDERAL FARM CREDIT BANK	2.400	12/16/2020	100.33	2.188	-0.01	T 2 1/4 04/30/21		3133EKHA7
FEDERAL FARM CREDIT BANK	2.540	4/5/2021	100.66	2.178	0.03	T 2 1/4 04/30/21		3133EJJD2
FANNIE MAE	1.650	5/14/2021	98.97	2.178	0.04	T 2 1/4 04/30/21		3136G03S8
FEDERAL HOME LOAN BANK	2.780	11/4/2021	101.41	2.189	0.05	T 2 1/4 04/30/21		313376AV7
FEDERAL HOME LOAN BANK	2.500	3/11/2022	100.97	2.144	0.01	T 2 1/8 05/15/22		313378WG2
FEDERAL FARM CREDIT BANK	2.300	5/3/2022	100.43	2.149	0.01	T 2 1/8 05/15/22		3133EKKE5
FEDERAL HOME LOAN BANK	3.000	12/9/2022	102.89	2.154	0.02	T 2 1/8 05/15/22		3130AFE78
FEDERAL FARM CREDIT BANK	2.250	2/8/2023	100.47	2.118	-0.02	T 2 1/8 05/15/22		3133EKKT2
FEDERAL FARM CREDIT BANK	2.300	5/15/2023	100.57	2.151	0.02	T 2 1/8 05/15/22		3133EKLA2
FEDERAL FARM CREDIT BANK	3.500	12/20/2023	105.80	2.166	0.03	T 2 1/4 04/30/24		3133EDBU5
FEDERAL HOME LOAN BANK	2.375	3/8/2024	100.86	2.186	0.06	T 2 1/4 04/30/24		3130AB3H7

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