

CU Investment Solutions, LLC

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



New Issue Offerings 2/11/2019

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	3133EKAP1	2.580	2/19/2021	2/19/2020	100	2.00	12	Anytime	2/19/2019	0.10	2.580	2.580
FEDERAL FARM CREDIT BANK	3133EJ7J2	2.690	8/13/2021	5/13/2019	100	2.50	3	Anytime	2/13/2019	0.21	2.690	2.690
FEDERAL FARM CREDIT BANK	3133EJ7H6	2.800	5/13/2022	5/13/2019	100	3.25	3	Anytime	2/13/2019	0.33	2.801	2.800
FEDERAL FARM CREDIT BANK	3133EKAR7	2.800	8/15/2022	8/15/2019	100	3.50	6	Anytime	2/15/2019	0.33	2.800	2.800

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

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Indicative Offerings - Mortgage-Backed Securities 2/11/2019

MBS Pools											
Issue	Coupon	WAL	Yield	I Spread	Price	Principal	Type	OAS	Current Face	Cusip	
FN BM3776	2.50	3.41	2.71	24	99.21	03/19-10/27	10 Year	19.5	6,797,485	3140J8FS7	
FN MA2915	3.00	3.13	2.74	27	100.62	03/19-07/26	10 Year	23.0	11,939,125	31418CGZ1	
FN MA3321	3.50	3.15	2.71	24	102.15	03/19-10/27	10 Year	21.2	31,393,620	31418CVP6	
FG G18619	2.50	4.62	2.88	41	98.37	03/19-06/31	15 Year	23.2	25,241,235	3128MMVM2	
FN BM4409	2.50	3.52	2.78	31	98.98	03/19-10/27	15 Year	24.0	38,657,189	3140J83T8	
FG G16550	3.00	4.97	2.95	48	100.17	03/19-11/32	15 Year	23.7	169,529,224	3128MFQB7	
FN 890868	3.00	3.54	2.81	34	100.48	03/19-02/28	15 Year	27.9	33,014,059	31410LW57	
FG G18723	3.50	5.24	3.08	60	101.92	03/19-11/33	15 Year	26.0	25,816,561	3128MMYV9	
FN AL9230	3.50	3.49	2.77	30	102.18	03/19-03/28	15 Year	26.3	20,400,051	3138ERHG8	
FG G18724	4.00	5.34	3.34	85	103.09	03/19-10/33	15 Year	47.2	7,300,000	3128MMYW7	
FN MA2077	3.50	5.36	3.06	57	101.96	03/19-05/34	20 Year	29.6	20,584,326	31418BJX5	

CMOs											
Issue	Coupon	WAL	Yield	I Spread	Price	FMED U300 %	Principal	Type	OAS	Current Face	Cusip
FNR 2012-148 KH	3.00	4.31	3.00	53	99.87	-13.3%	03/19-05/29	EXCH,AD+	26.3	2,144,392	3136ABNF6
FNR 2016-40 PA	3.00	4.39	3.01	54	99.82	-14.3%	03/19-04/31	AD,+	28.9	4,299,203	3136ASF84
FNR 2017-56 PA	3.00	4.16	3.04	57	99.73	-13.5%	03/19-02/30	EXCH,+	28.8	2,964,479	3136AXBX2
FNR 2012-52 NB	3.50	3.14	2.88	41	101.63	-9.9%	03/19-11/25	PAC(11)	9.8	3,025,935	3136A6AW4
FNR 2018-73 DA	3.50	3.33	3.00	54	101.37	-13.1%	03/19-10/26	SEQ	27.0	21,057,891	3136B3DU1
FHR 4781 DA	3.50	3.11	3.01	55	101.34	-12.2%	03/19-02/26	SEQ	20.5	13,188,767	3137F42G6
FHR 4776 DJ	4.00	2.48	2.87	39	102.56	-9.2%	03/19-07/24	SEQ	17.3	15,994,282	3137F4MU3

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Secondary Offerings 2/11/2019

Callables									
Issuer	Coupon	Maturity	Call Date	Call Type	Price	YTC	YTM	Spread to Interp	
								Treas	Cusip
FEDERAL HOME LOAN BANK	2.000	4/30/2021	4/30/2019	Quarterly	98.84	7.396	2.541	0.06	3130ACLH5
FANNIE MAE	1.750	5/25/2021	2/25/2019	Quarterly	98.26	50.712	2.539	0.06	3136G3QU2
FANNIE MAE	1.500	6/30/2022	3/30/2019	Quarterly	96.48	28.866	2.593	0.12	3136G3T28
FEDERAL FARM CREDIT BANK	1.730	8/17/2023	2/19/2019	Anytime	96.20	342.983	2.628	0.16	3133EGRL1
FEDERAL FARM CREDIT BANK	2.640	2/14/2024	2/19/2019	Anytime	99.21	48.117	2.810	0.35	3133EG7C3

Bullets								
Issuer	Coupon	Maturity	Price	Yield	Spread to Interp			Cusip
					Treas	Benchmark		
FANNIE MAE	1.750	9/25/2020	98.78	2.525	0.06	T 2 1/2 01/31/21		3136G1HY8
FEDERAL HOME LOAN BANK	3.125	12/11/2020	101.09	2.510	0.04	T 2 1/2 01/31/21		313371U79
FARMER MAC	2.000	1/15/2021	99.06	2.505	0.03	T 2 1/2 01/31/21		3132X0MT5
FEDERAL FARM CREDIT BANK	2.540	4/5/2021	100.06	2.510	0.03	T 2 1/2 01/31/21		3133EJJD2
FARMER MAC	2.750	6/29/2021	100.52	2.525	0.05	T 2 1/2 01/31/21		3132X02W0
FEDERAL HOME LOAN BANK	2.000	12/3/2021	98.65	2.500	0.03	T 2 1/2 02/15/22		3130AADV7
FARMER MAC	2.900	1/3/2022	101.04	2.525	0.05	T 2 1/2 02/15/22		31422BAM2
FARMER MAC	2.680	2/1/2022	100.40	2.540	0.07	T 2 1/2 02/15/22		31422BCD0
FEDERAL FARM CREDIT BANK	3.050	9/19/2022	101.76	2.535	0.07	T 2 1/2 02/15/22		3133EJH44
FEDERAL HOME LOAN BANK	2.750	3/10/2023	100.81	2.540	0.07	T 2 1/2 01/31/24		3130ADRG9
FEDERAL FARM CREDIT BANK	2.720	4/3/2023	100.68	2.545	0.08	T 2 1/2 01/31/24		3133EJJB6
FEDERAL HOME LOAN BANK	2.700	8/28/2023	100.70	2.535	0.07	T 2 1/2 01/31/24		3130AFRW9
FEDERAL FARM CREDIT BANK	2.650	10/23/2023	100.42	2.555	0.09	T 2 1/2 01/31/24		3133EJ5W5
FANNIE MAE	2.500	2/5/2024	99.79	2.545	0.09	T 2 1/2 01/31/24		3135G0V34

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