Federal Home Loan Bank of Des Moines Monthly Price Report

The Federal Home Loan Bank of Des Moines (Bank) is providing estimated valuations for specific Convertible, Amortizing and Non-Amortizing advances set forth below for members' information and convenience only. The estimated valuations are generated by models used for the Bank's own asset/liability management purposes. The models use specific assumptions, for example, market volatility and discount curve adjusted for the Bank's spread, to estimate the value of the advance**. The valuations represent theoretical market prices only and should not be construed as a liquidation price for the specific advance.**

It is expressly understood that in providing these valuations to members, the Bank is not performing any advisory service. The valuations are provided without representation or warranty and the member is solely responsible for any decision it makes or actions it takes based on the valuations provided. It is recommended that members maintain independent capabilities to value their asset/liability positions, including Convertible, Amortizing and Non-Amortizing advances. You should consult with your own tax, legal, accounting, credit and financial advisors with respect to the transaction structure and information detailed herein.

The table depicts valuation estimates resulting from immediate parallel interest-rate movements of plus/minus 400 basis points in 100 basis point increments. To identify your advance, locate the appropriate maturity date and verify the advance rate. The advances in report are grouped by advance type and then within each type sorted in ascending order by maturity date. Once the appropriate structure is located, read across to view the sensitivity analysis for that advance.

If you have any questions, contact the Money Desk at 800.544.3452, ext. 2122.

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
050812A00050	8/12/2005	4.97	8/12/2025	100.15284	100.1194537	100.086105	100.0527956	100.0195252	99.98629385	99.95310148	99.91994798	99.88683329
050823A00085	8/23/2005	4.78	8/25/2025	100.30354	100.2339689	100.1645029	100.0951439	100.0258917	99.95674617	99.88770696	99.81877383	99.74994655
050823A00088	8/23/2005	4.78	8/25/2025	100.30354	100.2339689	100.1645029	100.0951439	100.0258917	99.95674617	99.88770695	99.81877383	99.74994655
050902A00032	9/2/2005	4.69	8/22/2025	100.26226	100.20104	100.1399048	100.0788588	100.0179017	99.95703343	99.89625372	99.83556238	99.77495921
050923A00096	9/23/2005	4.86	9/22/2025	100.65421	100.5066966	100.3596265	100.2129987	100.0668111	99.92106186	99.77574883	99.63087007	99.4864236
051003A00009	10/3/2005	5.15	10/15/2025	100.98678	100.7752369	100.5645985	100.3548555	100.1460023	99.938033	99.73094205	99.52472377	99.31937257
051107A00075	11/7/2005	5.29	11/17/2025	101.48543	101.1814069	100.8792162	100.5788453	100.2802779	99.98349753	99.68848814	99.39523378	99.10371869
060308A00014	3/8/2006	5.44	3/16/2026	103.17638	102.5385002	101.9085435	101.2863617	100.6718112	100.0647517	99.46504646	98.87256213	98.28716846
060808A00022	8/8/2006	5.57	6/15/2026	104.5725	103.6768916	102.7967111	101.9315621	101.081061	100.2448371	99.4225321	98.61379973	97.81830505
070518A00023	5/18/2007	5.46	5/18/2027	106.919	105.5653945	104.2392588	102.9398231	101.6663451	100.4181093	99.19442585	97.99462938	96.8180778
100809A00029	8/9/2010	4.23	8/15/2025	100.15832	100.1166109	100.0749585	100.0333584	99.99181059	99.95031498	99.90887145	99.86747989	99.8261402
100824A00009	8/24/2010	3.91	9/2/2025	100.31383	100.2221543	100.1306478	100.0393112	99.94814398	99.85714566	99.76631578	99.67565387	99.58515946
100930A00008	9/30/2010	3.82	9/30/2025	100.56518	100.3956973	100.2267799	100.0584281	99.8906392	99.72341032	99.55673872	99.39062164	99.22505633
110505A00022	5/5/2011	4.59	5/15/2026	103.33368	102.5295019	101.7378835	100.9585297	100.1911566	99.43548895	98.69125975	97.95821021	97.23608927
110701A00011	7/1/2011	3.87	7/1/2026	101.87111	101.3278519	100.7918961	100.2630792	99.741244	99.22623777	98.71791264	98.21612521	97.72073635
110719A00017	7/19/2011	3.68	7/20/2026	101.78232	101.235407	100.6959429	100.1637601	99.63869524	99.12058993	98.60929085	98.1046494	97.60652151
110805A00014	8/5/2011	4.06	8/17/2026	103.91325	102.8469277	101.8025421	100.779424	99.77692762	98.79443319	97.83134546	96.88709266	95.96112531
110824A00006	8/24/2011	2.69	8/24/2026	101.41932	100.8314596	100.2551825	99.69012527	99.13594185	98.59230046	98.05888271	97.535383	97.02150786
110909A00006	9/9/2011	2.26	9/9/2026	101.16933	100.5435142	99.92753717	99.32114276	98.72408347	98.13612081	97.55702483	96.98657373	96.42455348
111007A00007	10/7/2011	3.92	10/7/2031	118.35055	112.89777	107.7658337	102.9335022	98.38107607	94.09027276	90.04411596	86.22683492	82.62377187
111216A00001	12/16/2011	3.95	12/30/2031	123.1808	116.3008188	109.8619345	103.833422	98.18684985	92.89589873	87.9361946	83.28515543	78.92185082
120113A00012	1/13/2012	3.62	1/15/2027	104.96504	103.4904543	102.0440968	100.6252317	99.23314348	97.86714097	96.52655637	95.21074417	93.91908026
120113A00013	1/13/2012	3.87	1/15/2032	122.76572	115.8555816	109.3915053	103.3422152	97.67878338	92.37444574	87.40442923	82.74579417	78.3772896
120127A00018	1/27/2012	3.64	2/1/2027	105.16969	103.6474376	102.1551765	100.6921004	99.25742779	97.85040445	96.47030249	95.11641902	93.78807514
120127A00019	1/27/2012	3.87	1/30/2032	122.86152	115.9077284	109.4054122	103.3227238	97.63022661	92.30069871	87.3089557	82.63168794	78.24731181
120410A00005	4/10/2012	2.35	4/12/2027	102.67023	101.4247618	100.2032961	99.00515445	97.82968746	96.67627011	95.54430082	94.4332002	93.34241005
120411A00013	4/11/2012	3.59	4/15/2027	105.87249	104.137709	102.439861	100.7778356	99.15056313	97.55701641	95.99620917	94.46719379	92.96905939
120621A00009	6/21/2012	3.18	6/21/2032	114.76509	109.3470121	104.2624849	99.48817265	95.0025224	90.78561961	86.81905406	83.08579757	79.57009242
120709A00016	7/9/2012	3.2	7/15/2027	106.03055	104.0444763	102.1058885	100.2133635	98.36552569	96.5610503	94.79866059	93.07712598	91.39526001
120806A00015	8/6/2012	2.38	8/6/2027	102.32362	101.2306533	100.1595218	99.10959679	98.0802745	97.07097356	96.08113429	95.11021758	94.15770395
120807A00026	8/7/2012	2.42	8/9/2027	102.36817	101.2746134	100.2029097	99.15242597	98.12255779	97.11272343	96.12236276	95.15093629	94.19792417
120808A00006	8/8/2012	2.06	8/9/2027	102.04712	100.9559107	99.88652117	98.83832633	97.81072191	96.80312634	95.81497974	94.8457428	93.89489591
120827A00048	8/27/2012	2.01	8/27/2027	102.02578	100.9413103	99.88199725	98.84704151	97.83567941	96.84717763	95.8808317	94.93596464	94.01192566

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7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
120827A00052	8/27/2012	2.01	8/27/2027	102.02578	100.9413103	99.88199725	98.84704151	97.83567941	96.84717762	95.88083169	94.93596464	94.01192566
121116A00006	11/16/2012	2.64	11/13/2025	100.63733	100.3461976	100.0567559	99.76899474	99.48289947	99.19845556	98.91564863	98.6344645	98.35488914
121116A00021	11/16/2012	2.35	11/17/2025	100.59573	100.2934021	99.99290388	99.69421804	99.39732813	99.10221789	98.80887122	98.51727225	98.2274053
121116A00022	11/16/2012	2.78	11/16/2029	111.95927	107.5166149	103.2767612	99.22936413	95.36466418	91.67345004	88.14702473	84.77717392	81.55613649
121120A00010	11/20/2012	1.93	11/22/2027	102.42075	101.0800286	99.7693183	98.48770538	97.23431048	96.00828769	94.80882297	93.63513267	92.48646221
121120A00011	11/20/2012	2.22	11/22/2027	104.37383	102.3390241	100.3584084	98.43020549	96.55270585	94.72426629	92.94330692	91.20830831	89.51780877
121217A00009	12/17/2012	2.02	12/17/2027	102.71273	101.2842016	99.88827566	98.52396296	97.19030849	95.88639287	94.61133068	93.36426903	92.14438614
130107A00002	1/7/2013	3.22	1/18/2028	107.76877	105.2515954	102.8067034	100.4316069	98.12391623	95.88133825	93.70167202	91.58280425	89.52270538
130206A00004	2/6/2013	2.14	2/7/2028	102.7012	101.3647934	100.0601083	98.78613121	97.54188811	96.32644375	95.13889971	93.97839269	92.84409279
130206A00009	2/6/2013	2.83	2/7/2028	106.05052	103.8096895	101.6328538	99.51775568	97.46222982	95.46420229	93.52168608	91.63277676	89.7956484
130207A00012	2/7/2013	2.9	2/7/2033	110.73505	106.4719029	102.4435743	98.63460187	95.03067118	91.61851965	88.38585169	85.32126146	82.41416224
130211A00017	2/11/2013	3.27	2/15/2028	108.15763	105.5567197	103.0323494	100.58181	98.20250429	95.89194346	93.64774174	91.46761152	89.34935855
130405A00007	4/5/2013	2.91	4/17/2028	107.94194	105.1672493	102.4784021	99.87218449	97.3455247	94.89548831	92.51927084	90.21419095	87.97768403
130424A00005	4/24/2013	3.07	4/24/2030	114.44219	109.4988636	104.8005244	100.3336628	96.08559256	92.04439569	88.19887118	84.53848755	81.05333873
130531A00021	5/31/2013	3.22	5/30/2028	109.1821	106.2717087	103.4544993	100.7269906	98.08585458	95.52790524	93.05009128	90.64948987	88.32330041
130913A00018	9/13/2013	3.72	9/13/2028	106.01102	104.2784282	102.5960279	100.9619426	99.37437969	97.83162745	96.33205032	94.87408511	93.45623715
130926A00009	9/26/2013	4	10/2/2028	112.80453	109.4904571	106.2927029	103.2064849	100.2272473	97.35065048	94.57255928	91.88903185	89.29630921
131018A00006	10/18/2013	3.28	10/20/2025	100.89087	100.5834872	100.2779984	99.97438904	99.67264155	99.37273874	99.07466359	98.7783993	98.48392927
131217A00024	12/17/2013	4.34	1/2/2029	114.73699	111.1393341	107.6761665	104.3417394	101.1305785	98.03747191	95.05745608	92.18580284	89.41800677
140219A00005	2/19/2014	3.13	2/20/2029	105.7526	103.8464111	101.9951178	100.1966947	98.44920234	96.75078717	95.09967692	93.49417647	91.93266396
140423A00036	4/23/2014	4.03	4/23/2029	114.88956	110.9714679	107.2107997	103.600302	100.1330996	96.80267562	93.6028508	90.52776334	87.57185053
140521A00019	5/21/2014	3.43	5/22/2028	109.70833	106.8122618	104.0082505	101.2928463	98.66275263	96.11481571	93.64601727	91.25346795	88.9344009
140626A00036	6/26/2014	3.55	6/26/2029	113.97196	109.8840671	105.9676928	102.2147412	98.61753738	95.16880697	91.86165312	88.68953489	85.64624704
140717A00027	7/17/2014	3.14	7/17/2026	102.79836	101.7875451	100.7971905	99.82667673	98.87540632	97.94280576	97.02832418	96.13143231	95.2516214
140815A00032	8/15/2014	3.59	10/15/2029	114.8686	110.4620472	106.252081	102.2288108	98.38290472	94.70555293	91.18843489	87.82368922	84.60388544
140911A00033	9/11/2014	3.02	9/13/2027	104.59782	102.9689908	101.3810212	99.83255398	98.32228519	96.84896534	95.41139674	94.00843085	92.63896575
140917A00030	9/17/2014	3.23	9/17/2029	111.66185	107.9126043	104.3230261	100.8852703	97.59192671	94.43599393	91.410854	88.51024888	85.72825859
140924A00057	9/24/2014	3.25	9/25/2028	109.88106	106.7618585	103.752072	100.8471558	98.04278974	95.33486205	92.71945738	90.192846	87.75147358
141117A00011	11/17/2014	3.81	11/17/2034	128.86967	118.8985029	109.8104244	101.521757	93.95718062	87.04886077	80.73566857	74.96248573	69.6795848
150203A00027	2/3/2015	2.26	2/4/2030	105.27669	102.870093	100.5477133	98.30588778	96.14114221	94.05017783	92.02986126	90.07721502	88.18940873
150319A00012	3/19/2015	3.13	3/19/2029	111.19998	107.4483124	103.8448298	100.3828379	97.05598717	93.85825119	90.7839081	87.82752332	84.98393331
150319A00013	3/19/2015	3.25	3/19/2030	114.67185	109.8343576	105.2319455	100.8519002	96.68226695	92.71179994	88.92991599	85.32665183	81.89262423
150427A00014	4/27/2015	2.98	4/27/2035	113.2449	107.9077504	102.9268662	98.27435422	93.92474435	89.85476441	86.04313433	82.47038103	79.11867168

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7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
150601A00261	6/1/2015	3.19	2/11/2033	111.77298	107.6489718	103.7463325	100.0509274	96.5496399	93.23028857	90.08155379	87.09291088	84.25456872
150601A00270	6/1/2015	3.12	3/21/2031	108.87137	105.8453666	102.9458889	100.1665058	97.50116014	94.94414586	92.49008506	90.13390701	87.87082842
150601A00396	6/1/2015	3.61	1/3/2029	106.03173	104.2361193	102.4908923	100.7942188	99.14435223	97.53962221	95.97843045	94.4592472	92.98060778
150601A00405	6/1/2015	4.63	1/17/2034	133.45044	124.1136261	115.5334438	107.6438483	100.3849054	93.70219505	87.54627743	81.87221314	76.63913182
150601A00411	6/1/2015	3.38	1/24/2029	105.63417	103.8420136	102.1002276	100.4069812	98.76052511	97.15918651	95.601365	94.08552889	92.61021181
150601A00426	6/1/2015	3.37	2/21/2029	105.75579	103.9202437	102.1372146	100.4047645	98.72104435	97.0842869	95.49280217	93.94497361	92.43925439
150601A00440	6/1/2015	3.27	3/16/2029	105.71047	103.834001	102.0121521	100.2428793	98.52423378	96.85435356	95.23145923	93.65384954	92.11989747
150601A00450	6/1/2015	3.28	4/27/2029	105.86626	103.9451499	102.0809477	100.2714968	98.5147367	96.80870037	95.151509	93.54136748	91.97656004
150601A00460	6/1/2015	3.05	5/16/2029	105.55895	103.600669	101.701381	99.85881906	98.07081983	96.33531887	94.65034542	93.01401744	91.42453694
150601A00475	6/1/2015	3.04	6/1/2029	105.54245	103.5834384	101.683492	99.8403362	98.05180432	96.31582871	94.63043545	92.99373945	91.40393977
150601A00477	6/1/2015	3.21	6/1/2029	106.14126	104.1305044	102.1808705	100.2899955	98.45562691	96.67561536	94.94790929	93.27054978	91.64166564
150601A00506	6/1/2015	3.14	7/6/2029	105.9873	103.9400812	101.9565772	100.0342705	98.17076633	96.36378121	94.61113737	92.91075692	91.26065658
150601A00512	6/1/2015	3.79	7/16/2029	114.60458	110.4571135	106.485619	102.6816893	99.03736118	95.54509204	92.19773581	88.98851983	85.91102332
150601A00523	6/1/2015	4.55	7/25/2031	125.30261	118.8000635	112.688698	106.9427695	101.5383624	96.45324935	91.66676419	87.15968387	82.91412078
150601A00528	6/1/2015	3.08	7/27/2029	105.87078	103.8239775	101.8409486	99.91916971	98.05624065	96.2498732	94.49788506	92.79819424	91.14881368
150601A00559	6/1/2015	3.06	8/31/2029	105.9565	103.8664308	101.8425551	99.88221995	97.9829009	96.1421925	94.35780199	92.62754321	90.94933085
150601A00664	6/1/2015	3.78	1/16/2032	121.8373	114.9540166	108.5157736	102.4913311	96.85180016	91.57045446	86.62255746	81.98520472	77.63717935
150601A00665	6/1/2015	3.82	1/14/2033	124.41771	116.4479202	109.061506	102.2124267	95.85850624	89.96109165	84.48474149	79.39694379	74.66785988
150601A00666	6/1/2015	3.88	1/16/2035	129.33445	119.1846193	109.9474433	101.5351536	93.86887124	86.87766666	80.49772078	74.67157843	69.34748359
150601A00667	6/1/2015	3.88	1/16/2036	131.24334	120.0371983	109.9298481	100.8063508	92.56438722	85.11281556	78.37039756	72.26467525	66.73098029
150601A00668	6/1/2015	3.89	1/16/2037	132.77573	120.545747	109.6129297	99.8307699	91.07008651	83.21689203	76.17053313	69.84206735	64.15284468
150601A00736	6/1/2015	2.87	5/1/2030	106.49271	104.0599909	101.7142294	99.45156419	97.26833341	95.1610641	93.12646105	91.16139638	89.26289996
150601A00832	6/1/2015	7.17	8/28/2025	100.26497	100.2245963	100.184283	100.1440338	100.1038485	100.0637271	100.0236695	99.98367529	99.94374452
150601A00851	6/1/2015	7.12	4/30/2027	106.16541	105.2328695	104.3175467	103.4189612	102.5366462	101.670153	100.8190497	99.98292052	99.16136497
150601A00864	6/1/2015	7.37	3/31/2028	109.99109	108.529252	107.1015023	105.7067668	104.3440096	103.0122363	101.7104911	100.4378559	99.19344759
150601A00868	6/1/2015	7.08	6/5/2028	110.51987	108.9178884	107.3555467	105.8315393	104.3446147	102.8935726	101.4772608	100.094573	98.74444683
150601A00871	6/1/2015	6.74	7/31/2028	110.30539	108.6598032	107.0558538	105.4921466	103.9673454	102.4801691	101.0293887	99.61382478	98.23234527
150601A00872	6/1/2015	7.42	7/31/2028	111.40177	109.739079	108.1184583	106.5384979	104.9978479	103.4952139	102.0293541	100.5990769	99.20323829
150601A00875	6/1/2015	7.14	9/29/2028	111.59462	109.8383882	108.1283512	106.4629175	104.8405615	103.2598219	101.719298	100.2176472	98.75358199
150601A00883	6/1/2015	6.21	11/30/2028	110.57156	108.7423393	106.9630832	105.2320198	103.5474523	101.9077572	100.3113796	98.75683077	97.24268394
150601A00888	6/1/2015	5.92	3/1/2029	110.85228	108.8834349	106.9714056	105.1140895	103.309476	101.5556436	99.8507551	98.19305364	96.58085824
150601A00889	6/1/2015	6.55	3/2/2029	112.35404	110.3139725	108.333735	106.4110856	104.543881	102.7300741	100.9677085	99.25491384	97.58990178
150601A00893	6/1/2015	6.49	4/6/2029	112.53104	110.441807	108.414926	106.4480268	104.538844	102.6852149	100.885074	99.13644807	97.43745112

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
150601A00897	6/1/2015	6.15	5/28/2029	112.12714	109.998954	107.935444	105.9341128	103.9925773	102.1085631	100.2798997	98.50451435	96.78042731
150601A00899	6/1/2015	7.07	6/14/2029	113.54438	111.4370598	109.3936992	107.4118249	105.4890735	103.6231904	101.812024	100.0535199	98.34571607
150601A00905	6/1/2015	6.14	10/29/2029	113.49639	111.1121502	108.806547	106.5763301	104.4184056	102.3298296	100.3078	98.34964854	96.45283361
150601A00906	6/1/2015	6.2	11/1/2029	113.63636	111.248917	108.9402274	106.7070338	104.5462373	102.4548895	100.4301838	98.46944782	96.57013595
150601A00912	6/1/2015	5.96	11/30/2029	113.3499	110.9230307	108.5774689	106.3098081	104.1168097	101.9953937	99.94262996	97.95572966	96.03203769
150601A00916	6/1/2015	7.27	4/5/2030	133.33413	128.0142966	122.9493216	118.1254691	113.5298225	109.1502322	104.9752661	100.9941622	97.196786
150601A00927	6/1/2015	6.08	8/7/2030	115.27726	112.5227942	109.87139	107.3182745	104.8589293	102.4890775	100.2046697	98.00186997	95.87704301
150601A00928	6/1/2015	5.94	8/21/2030	114.92497	112.1758784	109.5297345	106.9817603	104.5274397	102.1624984	99.88288915	97.68477842	95.56453339
150601A00929	6/1/2015	5.91	8/30/2030	115.62495	112.7297943	109.9451897	107.2659502	104.6871719	102.2042158	99.81269103	97.5084405	95.28752648
150601A00935	6/1/2015	6.46	11/21/2030	118.04411	114.945492	111.9699933	109.1116305	106.3647573	103.7240416	101.1844464	98.74121082	96.38983327
150601A00939	6/1/2015	5.79	1/17/2031	116.56991	113.4179276	110.3944536	107.493099	104.7078427	102.0330053	99.46322756	96.99344997	94.61889419
150601A00943	6/1/2015	6.44	5/9/2031	119.70367	116.2744336	112.9920962	109.8490289	106.8380532	103.952415	101.1857565	98.53209026	95.9857749
150601A00948	6/1/2015	6.04	10/22/2031	118.27733	114.8524649	111.5792847	108.4496082	105.4557572	102.5905247	99.84714241	97.21925093	94.70087237
150601A01024	6/1/2015	5.33	2/27/2026	102.83595	102.246202	101.6632276	101.0869134	100.5171456	99.95381316	99.39680734	98.84602193	98.30135307
150601A01041	6/1/2015	5.99	10/2/2036	134.07238	126.8498231	120.1749719	113.9994363	108.2795449	102.9758503	98.05268881	93.4777885	89.2219205
150603A00012	6/3/2015	2.77	6/3/2030	107.00331	104.3850923	101.8639317	99.43539305	97.09527749	94.83960743	92.66461347	90.56672209	88.54254407
150604A00039	6/4/2015	2.82	6/4/2030	107.13556	104.5140507	101.9897254	99.55814112	97.21509349	94.95659963	92.77888516	90.67837185	88.65166602
150610A00008	6/10/2015	3.58	6/10/2030	117.28511	112.1431728	107.2612753	102.6249013	98.22041793	94.03501746	90.05666353	86.27404067	82.67650764
150714A00003	7/14/2015	3.76	7/12/2030	109.80439	107.0729255	104.4441797	101.9133978	99.47608198	97.12797436	94.86504232	92.68346512	90.57962129
150721A00027	7/21/2015	3.74	7/22/2030	118.05785	112.7915101	107.7968002	103.0582385	98.56131037	94.29239873	90.23872378	86.38828734	82.72982099
150803A00033	8/3/2015	3.41	8/2/2030	114.48922	109.870688	105.4841175	101.3163611	97.35509532	93.58876245	90.00651813	86.59818355	83.35420077
150803A00036	8/3/2015	3.41	8/2/2030	114.48922	109.870688	105.4841175	101.3163611	97.35509532	93.58876245	90.00651813	86.59818355	83.35420077
150803A00037	8/3/2015	3.41	8/2/2030	114.48922	109.870688	105.4841175	101.3163611	97.35509532	93.58876245	90.00651813	86.59818355	83.35420077
150803A00038	8/3/2015	3.41	8/2/2030	114.48922	109.870688	105.4841175	101.3163611	97.35509532	93.58876245	90.00651813	86.59818355	83.35420077
150803A00039	8/3/2015	3.01	8/2/2030	107.70081	104.9825499	102.3677935	99.85170196	97.42969574	95.0974418	92.85083856	90.68600197	88.59925246
150803A00041	8/3/2015	3.01	8/2/2030	107.70081	104.9825499	102.3677935	99.85170196	97.42969574	95.0974418	92.85083856	90.68600197	88.59925246
150803A00042	8/3/2015	3.01	8/2/2030	107.70081	104.9825499	102.3677935	99.85170196	97.42969574	95.0974418	92.85083856	90.68600197	88.59925246
150812A00052	8/14/2015	2.13	8/14/2025	100.06773	100.0288478	99.99001245	99.95122513	99.91248576	99.87379426	99.83515051	99.79655443	99.75800593
150814A00029	8/14/2015	2.39	8/14/2025	100.07538	100.0365142	99.99769776	99.95892911	99.92020812	99.88153468	99.84290871	99.80433012	99.76579881
150817A00099	8/17/2015	3.19	8/17/2027	106.30526	104.2271503	102.200459	100.22358	98.29496585	96.41312864	94.5766372	92.78411446	91.03423497
150819A00012	8/19/2015	3.04	8/19/2025	100.13597	100.0831986	100.0305035	99.97788038	99.92532927	99.87284996	99.82044231	99.76810617	99.71584138
150819A00013	8/19/2015	3.51	8/19/2030	117.11482	111.7947395	106.7529398	101.9733489	97.44091198	93.14151792	89.06193509	85.18975195	81.51332186
150824A00033	8/24/2015	2.22	8/25/2025	100.11583	100.0492384	99.9827424	99.91634661	99.85005077	99.78385465	99.71775803	99.65176069	99.5858624

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
150824A00050	8/24/2015	2.03	8/25/2025	100.10763	100.0409923	99.97445859	99.90802561	99.84169313	99.77546091	99.70932873	99.64329634	99.57736353
150826A00038	8/26/2015	2.94	8/26/2026	102.87243	101.7861841	100.7228565	99.68172374	98.662096	97.66331185	96.68473676	95.72576169	94.7858019
150826A00039	8/26/2015	3.22	8/27/2029	113.19006	108.9468861	104.8886032	101.0061402	97.29092537	93.7348525	90.33025317	87.06987056	83.94683493
150925A00034	9/25/2015	2.36	9/25/2025	100.22129	100.1033658	99.98574775	99.86843876	99.75143749	99.63474265	99.51835294	99.40226709	99.28648383
150929A00076	9/29/2015	2.28	9/29/2025	100.22185	100.0983804	99.97525695	99.85247408	99.73003027	99.60792401	99.48615381	99.36471819	99.24361568
150929A00083	9/29/2015	2.09	9/29/2025	100.20679	100.0832604	99.96007111	99.83722351	99.7147161	99.59254736	99.47071579	99.34921989	99.22805816
150929A00087	9/29/2015	2.09	9/29/2025	100.20679	100.0832604	99.96007111	99.83722351	99.7147161	99.59254736	99.47071579	99.34921989	99.22805816
151001A00023	10/1/2015	2.02	10/1/2025	100.22432	100.0845921	99.94529127	99.80641422	99.66795891	99.52992334	99.3923055	99.25510342	99.11831511
151013A00033	10/13/2015	2.23	10/14/2025	100.26409	100.1133473	99.96311301	99.81338853	99.66417104	99.5154578	99.36724603	99.21953304	99.0723161
151029A00008	10/29/2015	2.28	10/29/2025	100.29897	100.1334256	99.96852282	99.80425743	99.64062538	99.47762266	99.31524529	99.15348933	98.99235089
151030A00026	10/30/2015	3.29	10/30/2030	114.41235	109.6083949	105.0551946	100.7380673	96.64327521	92.75795476	89.07005691	85.56829122	82.2420742
151106A00011	11/6/2015	3.1	1/15/2026	101.25502	100.7887452	100.3267786	99.86905582	99.41551828	98.96610864	98.52077056	98.07944872	97.64208882
151116A00025	11/16/2015	3.04	11/14/2025	100.76138	100.4672477	100.1748486	99.88416276	99.59517522	99.30787098	99.02223526	98.73825347	98.45591118
151118A00037	11/18/2015	2.75	11/18/2025	100.87925	100.5014857	100.1266022	99.75456857	99.38535208	99.01892052	98.65524218	98.29428583	97.9360207
151120A00019	11/20/2015	2.72	11/20/2030	107.44171	104.5967925	101.8647897	99.24022152	96.71791405	94.29298124	91.96080686	89.71702776	87.55751825
151125A00037	11/25/2015	2.41	11/25/2025	100.40033	100.1949534	99.99057775	99.78719935	99.58481021	99.38340237	99.18296797	98.98349924	98.78498851
151204A00011	12/4/2015	2.28	12/4/2025	100.44867	100.2120224	99.97669464	99.74267553	99.50995322	99.27851601	99.04835236	98.81945085	98.59180022
151209A00024	12/9/2015	2.22	12/9/2025	100.43994	100.2005528	99.9625255	99.72584648	99.49050318	99.25648326	99.02377456	98.79236504	98.56224285
151223A00072	12/23/2015	2.81	12/23/2025	100.98976	100.5872203	100.187893	99.79174333	99.3987334	99.00882586	98.62198399	98.23817162	97.85735316
151223A00074	12/23/2015	3.01	12/23/2027	107.20347	104.7599364	102.3847965	100.0757558	97.83061076	95.64724421	93.52362168	91.45778752	89.44786138
151223A00077	12/23/2015	3.57	12/24/2035	129.31991	118.2260715	108.2188069	99.18476525	91.02300385	83.64356899	76.96624831	70.91947025	65.43933282
151223A00078	12/23/2015	2.28	12/23/2025	100.47018	100.2229923	99.97727912	99.73302953	99.4902291	99.24886357	99.00891889	98.77038121	98.53323684
151228A00013	12/28/2015	2.27	12/29/2025	100.47333	100.2233732	99.97493565	99.7280042	99.48256363	99.23859896	98.99609542	98.75503846	98.51541373
151229A00026	12/29/2015	2.28	12/29/2025	100.47697	100.2264474	99.97745748	99.72998231	99.4840065	99.23951491	98.99649263	98.75492497	98.51479743
151229A00079	12/29/2015	3	12/30/2025	101.0905	100.6687176	100.250448	99.83564833	99.42427561	99.0162875	98.6116424	98.21029936	97.81221812
151229A00080	12/29/2015	3.49	12/30/2030	117.96688	112.255322	106.8609113	101.7643524	96.94761829	92.39386322	88.08733968	84.01332125	80.15803146
151229A00081	12/29/2015	3.76	12/31/2035	130.50839	119.3797195	109.3391484	100.2732257	92.08091889	84.67219394	77.96676607	71.89299822	66.3869288
160106A00042	1/6/2016	2.43	1/6/2026	100.5634	100.2811093	100.0007393	99.72226433	99.44566335	99.1709157	98.898001	98.62689919	98.35759054
160115A00011	1/15/2016	2.18	1/15/2026	100.50025	100.2140167	99.92977218	99.647495	99.3671627	99.08875314	98.81224455	98.53761548	98.26484486
160119A00019	1/19/2016	2.95	1/19/2027	104.00905	102.5311055	101.081669	99.65999161	98.26534597	96.89702974	95.55436443	94.23669436	92.94338572
160119A00025	1/19/2016	3.05	1/19/2028	107.35286	104.8382279	102.3959246	100.0234497	97.71840948	95.47850702	93.3015377	91.1853849	89.1280159
160119A00026	1/19/2016	3.14	1/19/2029	110.71732	107.1430829	103.7048607	100.3967487	97.21312822	94.14865392	91.19823932	88.35704256	85.62045334
160119A00027	1/19/2016	3.25	1/18/2030	114.18019	109.5259352	105.0910511	100.8640337	96.83404312	92.99086087	89.3248514	85.82692559	82.48850698

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	Parallel-Shift Sensitivity Analysis											
7/31/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
160119A00028	1/19/2016	3.34	1/21/2031	117.27827	111.5257894	106.0963387	100.9700451	96.12835998	91.55396356	87.23067766	83.14338462	79.27795246
160119A00029	1/19/2016	3.39	1/20/2032	119.66515	112.8404117	106.4588677	100.4893098	94.90288715	89.672914	84.77469659	80.18537471	75.88377671
160119A00030	1/19/2016	3.44	1/18/2033	122.00356	114.1112472	106.7992247	100.0215544	93.73616676	87.90451492	82.4912625	77.46400105	72.79299348
160119A00072	1/19/2016	2.77	1/21/2031	108.13492	104.9373123	101.8776033	98.94858008	96.1434645	93.45587974	90.87982389	88.40964553	86.04002092
160126A00004	1/26/2016	2.52	1/26/2026	101.25789	100.6806839	100.1100807	99.545969	98.98823829	98.43678057	97.89149028	97.35226422	96.81900148
160129A00066	1/29/2016	3.04	1/29/2031	116.07273	110.3174114	104.8874381	99.76268042	94.92435755	90.35494	86.03805977	81.95842752	78.10175611
160129A00067	1/29/2016	2.53	1/29/2026	101.10861	100.6037689	100.1039578	99.60910601	99.11914002	98.63398772	98.15357841	97.67784279	97.2067129
160201A00016	2/1/2016	2.1	2/2/2026	100.5436	100.2194358	99.89782157	99.57872683	99.26211918	98.94796675	98.63623829	98.32690307	98.01993092
160209A00006	2/9/2016	1.91	2/9/2026	100.48635	100.1592383	99.83474022	99.51282498	99.19345865	98.87660792	98.56224009	98.25032305	97.94082529
160209A00008	2/9/2016	2.45	2/10/2031	106.74936	103.7992455	100.9706767	98.25755568	95.65413676	93.15500305	90.75504553	88.44944338	86.23364581
160210A00042	2/10/2016	2.57	2/10/2026	101.1646	100.6270682	100.0952508	99.56905365	99.048388	98.53316681	98.02330488	97.51871879	97.01932687
160210A00049	2/10/2016	1.78	2/10/2026	100.46672	100.1390386	99.81398363	99.49152428	99.17162627	98.85425601	98.53938051	98.22696737	97.9169848
160210A00051	2/10/2016	2.28	2/10/2031	106.4525	103.5066898	100.6823761	97.97345759	95.37418544	92.87914038	90.48321136	88.18157593	85.96968202
160210A00054	2/10/2016	1.78	2/10/2026	100.46672	100.1390386	99.81398364	99.49152428	99.17162627	98.85425602	98.53938051	98.22696737	97.9169848
160211A00036	2/11/2016	2.41	2/11/2026	101.08385	100.5438309	100.0095759	99.48099684	98.95800336	98.44050717	97.92842181	97.42166263	96.92014673
160211A00038	2/11/2016	1.83	2/11/2026	100.46116	100.1333392	99.80815692	99.48557322	99.16555379	98.84806493	98.53307359	98.22054732	97.91045424
160212A00037	2/12/2016	3.03	2/12/2031	115.69026	109.9182074	104.474209	99.33786074	94.4901341	89.91327533	85.5907133	81.50697471	77.6476058
160212A00047	2/12/2016	1.94	2/12/2026	100.49796	100.1696271	99.84394019	99.52086106	99.20035518	98.88238865	98.56692823	98.25394127	97.9433957
160222A00005	2/22/2016	2.79	2/22/2028	106.98206	104.3761555	101.8474495	99.39319225	97.01074706	94.69758826	92.45129562	90.2695492	88.1501245
160222A00018	2/22/2016	2.59	2/23/2026	101.25175	100.6782452	100.111233	99.55060056	98.99624049	98.44804796	97.9059204	97.36975753	96.83946127
160222A00019	2/22/2016	3.09	2/21/2031	116.08427	110.2744145	104.7958881	99.62801473	94.75151313	90.14839866	85.80188912	81.69631826	77.81705575
160303A00020	3/3/2016	2.97	3/3/2031	115.88768	110.0396554	104.5271041	99.32897765	94.42565673	89.79884854	85.43148987	81.3076581	77.41248901
160303A00035	3/3/2016	2.14	3/3/2026	100.68482	100.2872834	99.89347279	99.50332786	99.11679284	98.73381313	98.35433529	97.978307	97.60567702
160307A00024	3/7/2016	2.17	3/6/2026	100.64529	100.2762776	99.91060934	99.54823704	99.18911164	98.83318512	98.48041045	98.13074159	97.7841334
160307A00027	3/7/2016	2.71	3/6/2026	101.38849	100.7843586	100.1874245	99.59755672	99.01463025	98.43852299	97.86911568	97.30629183	96.74993767
160307A00028	3/7/2016	2.91	3/7/2028	107.41131	104.7605555	102.1891411	99.69419917	97.27298881	94.92288633	92.64137919	90.42606055	88.27462395
160307A00029	3/7/2016	3.21	3/7/2031	116.84519	110.9743439	105.439953	100.2209114	95.29754501	90.65151044	86.26569756	82.1241402	78.21193374
160328A00038	3/28/2016	2.54	3/30/2026	101.55897	100.8241024	100.1000295	99.38650915	98.68331075	97.99021055	97.30699117	96.63344145	95.96935623
160328A00045	3/28/2016	2.49	3/27/2026	101.41748	100.7551116	100.1013813	99.45612204	98.81916998	98.19036538	97.56955261	96.95657996	96.35129956
160329A00017	3/29/2016	2.48	3/30/2026	101.51465	100.7800355	100.0562105	99.34293473	98.63997783	97.94711605	97.26413206	96.59081478	95.92695909
160330A00054	3/30/2016	2.9	3/31/2031	115.62942	109.7128913	104.1397761	98.88827566	93.93809566	89.27032991	84.86735801	80.71275089	76.79118397
160404A00019	4/4/2016	2.48	4/4/2031	107.02585	103.9830741	101.0687969	98.27642741	95.59976243	93.03296127	90.57052183	88.20725872	85.93828285
160412A00029	4/12/2016	2.48	4/14/2031	107.02626	103.9831574	101.068588	98.27595951	95.59906572	93.03206302	90.56944672	88.20602905	85.9369188

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
160413A00014	4/13/2016	2.55	4/14/2031	107.24214	104.1928462	101.2723531	98.47405145	95.79172202	93.21950905	90.75189642	88.3836856	86.10997521
160413A00016	4/13/2016	2.55	4/14/2031	107.24214	104.1928462	101.2723531	98.47405145	95.79172202	93.21950905	90.75189642	88.3836856	86.10997521
160413A00021	4/13/2016	2.48	4/13/2026	101.60628	100.8295446	100.0648073	99.31178847	98.57021929	97.83983895	97.12039459	96.41164092	95.71333996
160413A00033	4/13/2016	2.32	4/13/2026	101.42189	100.6768317	99.9431028	99.22044162	98.50859624	97.80732237	97.11638304	96.43554839	95.76459536
160414A00042	4/13/2016	2.48	4/13/2026	101.60628	100.8295446	100.0648073	99.31178847	98.57021929	97.83983895	97.12039459	96.41164092	95.71333996
160421A00016	4/21/2016	2.26	4/21/2026	101.5151	100.7259406	99.94925721	99.18475477	98.43214668	97.69115528	96.96151151	96.24295461	95.53523174
160422A00026	4/22/2016	2.62	4/22/2026	101.61494	100.8812248	100.1580906	99.44531256	98.74266927	98.04994555	97.36693231	96.69342628	96.02922985
160427A00004	4/27/2016	2.09	4/27/2026	100.69727	100.2794445	99.86598208	99.45680805	99.05184831	98.65103053	98.25428411	97.86154015	97.47273142
160428A00028	4/28/2016	2	4/28/2026	100.68893	100.2705167	99.85648134	99.44675025	99.04124876	98.63990408	98.24264517	97.84940271	97.46010903
160504A00004	5/4/2016	2.3	5/4/2026	101.49707	100.7302924	99.97507458	99.23115691	98.4982872	97.77622065	97.06471966	96.36355355	95.67249832
160511A00015	5/11/2016	2.42	5/11/2026	101.72583	100.8724596	100.0335607	99.20876844	98.39772777	97.60009546	96.81553964	96.04373933	95.28438402
160511A00016	5/11/2016	2.48	5/12/2031	107.11811	104.0298463	101.0736245	98.24259168	95.5303065	92.93070752	90.43808839	88.0470746	85.75260188
160523A00086	5/23/2016	2.2	5/26/2026	101.65695	100.7750604	99.90874897	99.05760786	98.22123874	97.39925723	96.59129218	95.79698516	95.01598991
160524A00015	11/25/2016	2.71	11/25/2026	103.22669	101.9000312	100.5982673	99.3207236	98.0667546	96.83573759	95.62707185	94.44017762	93.27449523
160524A00027	5/24/2016	3.06	5/27/2031	116.41007	110.3305516	104.6116557	99.2300953	94.1642016	89.39380466	84.90012256	80.66565913	76.67410966
160603A00014	6/3/2016	1.74	6/3/2026	100.69053	100.1949232	99.70544324	99.22196753	98.74437415	98.27254467	97.80636399	97.34572024	96.89050462
160603A00029	6/3/2016	2.18	6/3/2031	106.48213	103.3660498	100.3849281	97.53168535	94.79966661	92.18261361	89.67463821	87.27019803	84.96407377
160606A00004	6/6/2016	2.43	6/8/2026	101.75267	100.8897285	100.0413992	99.20730989	98.38710429	97.5804377	96.78697684	96.00639925	95.23839292
160606A00005	6/6/2016	2.92	6/6/2031	115.63268	109.5483469	103.8268573	98.44468075	93.37993084	88.6122394	84.12264405	79.89348443	75.90830664
160606A00018	6/6/2016	1.74	6/5/2026	100.69174	100.1953779	99.70517157	99.22099397	98.74272227	98.27023716	97.80342269	97.34216619	96.88635808
160608A00019	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00020	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00023	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00024	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00025	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00026	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00027	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00028	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00029	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00030	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00031	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00032	6/8/2016	2.36	6/8/2026	101.82835	100.903929	99.9964926	99.10556945	98.23070991	97.37148057	96.52746355	95.69825576	94.88346829
160608A00033	6/8/2016	2.44	6/9/2031	107.08186	103.9522392	100.9580391	98.09215884	95.34792619	92.71906594	90.19967381	87.78419195	85.46738628

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
160608A00034	6/8/2016	2.44	6/9/2031	107.08186	103.9522392	100.9580391	98.09215884	95.34792619	92.71906594	90.19967381	87.78419195	85.46738628
160609A00075	6/9/2016	1.94	6/9/2026	100.75845	100.2613986	99.77052077	99.28568995	98.80678261	98.33367876	97.86626185	97.40441859	96.94803886
160615A00031	6/15/2016	2.51	6/17/2030	112.05639	107.0217678	102.2444617	97.71000986	93.40483122	89.31617152	85.43204892	81.74120337	78.23304959
160616A00027	6/16/2016	2.27	6/16/2026	101.65972	100.7753521	99.90633807	99.05228057	98.21279581	97.38751303	96.57607393	95.7781322	94.99335299
160616A00029	6/16/2016	1.58	6/16/2026	100.61551	100.1170398	99.62481035	99.13868715	98.6585443	98.18425959	97.71571431	97.25279314	96.795384
160628A00039	6/28/2016	2.01	6/29/2026	101.55778	100.6374741	99.73378911	98.84627424	97.97449864	97.11804664	96.27651711	95.44952278	94.63668969
160629A00066	6/29/2016	2.61	6/30/2036	116.68371	107.7434085	99.65921323	92.34119793	85.70947516	79.69302063	74.2286405	69.26006425	64.73714719
160701A00020	7/1/2016	2.13	7/1/2026	101.61504	100.689893	99.78153487	98.88951051	98.01338257	97.15272916	96.3071432	95.47623177	94.65961551
160701A00039	7/1/2016	1.92	7/1/2026	101.48459	100.5591959	99.65060864	98.7583761	97.88205998	97.0212375	96.1755007	95.34445587	94.52772287
160705A00104	7/5/2016	2.1	7/6/2026	101.6138	100.6750212	99.75353367	98.84886437	97.96055605	97.08816789	96.23127478	95.38946663	94.56234773
160706A00026	7/6/2016	2.19	7/6/2027	103.97868	102.0373419	100.1419554	98.29115777	96.48363329	94.71811398	92.99337738	91.30824458	89.66157843
160706A00027	7/6/2016	2.29	7/6/2028	106.54228	103.5728611	100.7018901	97.92557039	95.24027657	92.64254266	90.12905405	87.69663991	85.34226621
160706A00028	7/6/2016	2.39	7/6/2029	109.15766	105.1450016	101.3026921	97.62261527	94.09708567	90.71882209	87.48092402	84.37684978	81.40039593
160706A00029	7/6/2016	2.49	7/8/2030	111.70336	106.631608	101.8217404	97.25888374	92.92908354	88.81924384	84.91706999	81.21101555	77.69023309
160706A00030	7/6/2016	2.59	7/7/2031	113.79574	107.6807911	101.9363804	96.5381278	91.46337651	86.69106394	82.20160199	77.97676668	73.99959657
160711A00004	7/11/2016	1.51	7/13/2026	100.6317	100.0924242	99.56045264	99.03562548	98.51778352	98.00677248	97.50244288	97.00464981	96.51325278
160712A00019	7/12/2017	2.32	7/12/2027	104.27098	102.3107093	100.3972048	98.52906516	96.70494087	94.92353159	93.18358412	91.48389036	89.8232853
160713A00015	7/13/2016	1.57	7/13/2026	100.66495	100.1250395	99.59245254	99.0670288	98.54860831	98.03703608	97.53216198	97.03384045	96.5419304
160714A00018	9/6/2016	2.28	9/4/2026	102.13465	101.029228	99.94766119	98.88918052	97.85305285	96.83857582	95.84507622	94.87190851	93.91845339
160714A00020	9/6/2016	2.28	9/4/2026	102.13465	101.029228	99.94766119	98.88918052	97.85305285	96.83857582	95.84507622	94.87190851	93.91845339
160714A00023	8/10/2016	2.49	8/10/2028	107.36208	104.2864473	101.3155938	98.44536089	95.67178169	92.99106932	90.39960764	87.89394249	85.47077338
160714A00024	9/20/2016	2.5	9/20/2028	107.67029	104.4775153	101.3964579	98.42255819	95.55146799	92.77904356	90.10133453	87.51457352	85.01516642
160714A00029	8/10/2016	2.27	8/10/2026	101.97727	100.9410085	99.92574699	98.93085508	97.95572428	96.99977009	96.06243087	95.14316674	94.24145851
160719A00026	7/19/2016	1.87	7/20/2026	100.79286	100.2513131	99.71714485	99.19018645	98.67027605	98.15725691	97.65097718	97.15128972	96.65805189
160726A00005	7/26/2016	2.28	7/27/2026	101.90571	100.9080514	99.9298673	98.97059414	98.02968761	97.10662408	96.20089964	95.31202921	94.43954566
160729A00017	7/31/2017	2.47	7/31/2029	109.62686	105.5380284	101.625519	97.88079738	94.2957844	90.86283327	87.57470399	84.42453947	81.40584317
160801A00002	8/1/2016	1.58	8/3/2026	100.72391	100.1441636	99.5728608	99.00979493	98.45476923	97.90759356	97.36808408	96.83606299	96.31135822
160802A00003	8/2/2016	2.53	8/1/2031	113.95875	107.7570952	101.93569	96.46922041	91.33418221	86.5087453	81.97262594	77.70696962	73.69424333
160810A00025	8/10/2016	2.17	8/10/2026	101.98944	100.8985129	99.83123952	98.7868568	97.7646307	96.76385838	95.78386648	94.82400963	93.88366901
160810A00027	8/10/2016	2.13	8/10/2026	101.9154	100.8411351	99.79004024	98.76136286	97.75438621	96.76842391	95.80281832	94.85693911	93.93018179
160810A00028	8/10/2016	2.19	8/10/2026	102.02765	100.9280187	99.85230155	98.79972207	97.76953719	96.76103545	95.7735353	94.80638354	93.85895384
160810A00029	8/10/2016	2.17	8/10/2026	101.98944	100.8985129	99.83123952	98.7868568	97.7646307	96.76385838	95.78386648	94.82400963	93.88366901
160810A00030	8/10/2016	2.24	8/11/2031	106.60553	103.4052472	100.3467674	97.42249887	94.62531149	91.94850777	89.38579389	86.93125256	84.57931792

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
160811A00011	8/11/2016	2.25	8/11/2026	101.96227	100.9233593	99.90556179	98.90823874	97.93077684	96.97258712	96.03310366	95.11178256	94.20810082
160812A00006	8/12/2016	2.16	8/12/2026	102.03354	100.952397	99.89469752	98.85967677	97.84660569	96.85478636	95.88355025	94.9322567	94.0002915
160815A00005	8/15/2016	2.23	8/17/2026	101.9758	100.9204313	99.88685056	98.87438375	97.8823887	96.91024907	95.95737307	95.02319221	94.10716022
160815A00006	8/15/2016	2.23	8/17/2026	101.9758	100.9204313	99.88685056	98.87438375	97.8823887	96.91024907	95.95737307	95.02319221	94.10716022
160815A00007	8/15/2016	2.23	8/17/2026	101.9758	100.9204313	99.88685056	98.87438375	97.8823887	96.91024907	95.95737307	95.02319222	94.10716022
160819A00015	10/12/2016	2.3	10/13/2026	102.39306	101.1796046	99.99482381	98.83770875	97.70729881	96.60267741	95.5229695	94.46733923	93.43498777
160824A00019	8/24/2016	1.98	8/25/2031	105.99107	102.8043873	99.75909646	96.84761226	94.06281676	91.39802474	88.84695436	86.40370011	84.06270767
160830A00037	8/30/2016	2.16	8/29/2025	100.13472	100.0542596	99.97393522	99.89374295	99.81368247	99.73375349	99.65395567	99.57428871	99.49475229
160830A00038	8/30/2016	2.24	8/28/2026	102.04969	100.9638625	99.90106552	98.86057162	97.84168446	96.84373642	95.86608715	94.90812216	93.96925155
160906A00027	9/6/2016	2.03	9/8/2031	106.22306	102.9878794	99.89786077	96.9451438	94.12235096	91.42255723	88.83925924	86.36634673	83.99807612
160908A00022	9/8/2016	2.21	9/8/2026	102.18683	101.0224219	99.88493975	98.77345258	97.68707246	96.62495162	95.58628017	94.57028398	93.57622276
160908A00023	9/8/2016	2.21	9/8/2026	102.18683	101.0224219	99.88493975	98.77345258	97.68707246	96.62495162	95.58628017	94.57028398	93.57622276
160908A00024	9/8/2016	2.21	9/8/2026	102.18683	101.0224219	99.88493975	98.77345258	97.68707246	96.62495162	95.58628017	94.57028398	93.57622276
160908A00025	9/8/2016	2.21	9/8/2026	102.18683	101.0224219	99.88493975	98.77345258	97.68707246	96.62495162	95.58628017	94.57028398	93.57622276
160908A00026	9/8/2016	2.21	9/8/2026	102.18683	101.0224219	99.88493975	98.77345258	97.68707246	96.62495162	95.58628017	94.57028398	93.57622276
160908A00027	9/8/2016	2.21	9/8/2026	102.18683	101.0224219	99.88493975	98.77345258	97.68707246	96.62495162	95.58628017	94.57028398	93.57622276
160908A00028	9/8/2016	2.21	9/8/2026	102.18683	101.0224219	99.88493975	98.77345258	97.68707246	96.62495162	95.58628017	94.57028398	93.57622276
160908A00030	9/8/2016	2.21	9/8/2026	102.18683	101.0224219	99.88493975	98.77345258	97.68707246	96.62495162	95.58628017	94.57028398	93.57622276
160908A00031	9/8/2016	2.21	9/8/2026	102.18683	101.0224219	99.88493975	98.77345258	97.68707246	96.62495162	95.58628017	94.57028398	93.57622276
160908A00032	9/8/2016	2.17	9/8/2026	102.10463	100.9591281	99.83995848	98.74621368	97.67702793	96.63157453	95.60906362	94.6087402	93.62988214
160908A00033	9/8/2016	2.17	9/8/2026	102.10463	100.9591281	99.83995848	98.74621368	97.67702793	96.63157453	95.60906362	94.6087402	93.62988214
160908A00034	9/8/2016	2.17	9/8/2026	102.10463	100.9591281	99.83995848	98.74621368	97.67702793	96.63157453	95.60906362	94.6087402	93.62988214
160908A00035	9/8/2016	2.3	9/8/2031	106.87992	103.6291188	100.5240302	97.5567729	94.71994756	92.00660831	89.41023184	86.92468884	84.54421747
160908A00036	9/8/2016	2.3	9/8/2031	106.87992	103.6291188	100.5240302	97.5567729	94.71994756	92.00660831	89.41023184	86.92468884	84.54421747
160922A00014	9/22/2016	2.06	9/22/2026	102.06752	100.9121844	99.78290302	98.67880149	97.59904492	96.54283497	95.50940787	94.4980326	93.50800907
160923A00009	9/23/2016	2.24	9/23/2031	106.68268	103.4373368	100.3375071	97.37531338	94.54336416	91.83472097	89.24286769	86.76168194	84.38540855
160928A00029	9/28/2016	2.52	9/29/2036	111.24889	105.4298587	100.0548218	95.08406683	90.48181284	86.21579265	82.25688005	78.57875909	75.15763046
160928A00030	9/28/2016	2.52	9/29/2036	111.24889	105.4298587	100.0548218	95.08406683	90.48181284	86.21579265	82.25688005	78.57875909	75.15763046
160928A00032	9/28/2016	2.52	9/29/2036	111.24889	105.4298587	100.0548218	95.08406683	90.48181284	86.21579265	82.25688005	78.57875909	75.15763046
160928A00033	9/28/2016	2.46	9/29/2036	110.90893	105.1042139	99.7426061	94.78445678	90.19404752	85.93916827	81.99074501	78.32250954	74.91070624
160928A00041	9/28/2016	3.26	9/29/2036	115.44181	109.4461448	103.9054819	98.77925739	94.03091848	89.62749342	85.53921225	81.73917026	78.20302918
160928A00042	9/28/2016	3.05	9/29/2036	114.25193	108.306388	102.812727	97.73062223	93.02373986	88.65930807	84.6077396	80.84229682	77.33879441
160928A00044	9/28/2016	2.89	9/29/2036	113.34535	107.4380018	101.9801518	96.93166211	92.25636566	87.92164304	83.89804615	80.15896467	76.68032982

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
160930A00032	9/30/2016	2.15	9/30/2031	106.31824	103.1108878	100.0475657	97.12043866	94.32216193	91.64584359	89.08501331	86.63359367	84.28587362
160930A00033	9/30/2016	1.8	9/30/2026	100.93938	100.2770012	99.62568659	98.98513312	98.35504589	97.73514131	97.12514658	96.52479912	95.93384608
161005A00016	10/5/2016	2.32	10/6/2031	107.02521	103.7277085	100.5797121	97.57304441	94.7000396	91.95350607	89.32669394	86.81326486	84.40726414
161014A00019	10/14/2016	2.39	10/15/2031	107.25977	103.9547187	100.7995378	97.78603089	94.90651159	92.15376933	89.52103649	87.00195819	84.59056431
161014A00026	10/14/2016	2.16	10/14/2031	106.72658	103.4334106	100.2897322	97.2873605	94.41862173	91.67631759	89.05369241	86.54440288	84.1424901
161014A00029	10/14/2016	2.51	10/15/2031	107.90015	104.5707125	101.3924135	98.3569773	95.45664574	92.68414121	90.03263363	87.49570985	85.06734534
161109A00018	11/9/2016	2.63	11/9/2026	102.99316	101.7055311	100.4467409	99.21581653	98.01183211	96.83390273	95.68118228	94.55286123	93.44816475
161116A00006	11/16/2016	2.39	11/16/2026	101.43894	100.7261963	100.025873	99.33761186	98.66107122	97.99592281	97.34185124	96.69855329	96.06573734
161118A00026	12/20/2016	3.03	12/21/2026	103.87979	102.4804919	101.1068463	99.7582053	98.43394535	97.13346326	95.85617527	94.60151627	93.36893911
161207A00014	12/7/2016	2.75	12/8/2031	108.91104	105.4643133	102.1775956	99.04194446	96.04898951	93.19088827	90.46028924	87.85029783	85.35444484
161214A00023	12/14/2016	3.3	12/15/2031	119.38484	112.6469508	106.3412624	100.4377289	94.90854382	89.72795999	84.87212726	80.31894376	76.04791936
161214A00034	12/14/2016	2.65	12/14/2026	101.73167	100.9760862	100.2334967	99.50354691	98.78589296	98.08020388	97.38616115	96.70345799	96.03179886
161222A00013	12/22/2016	2.93	12/22/2026	103.88545	102.4743913	101.0905492	99.73319828	98.40163914	97.0951966	95.8132187	94.55507562	93.32015883
161222A00030	12/22/2016	3.09	12/22/2026	104.07221	102.6672212	101.2880496	99.93404658	98.60458301	97.29905028	96.01685944	94.75744049	93.52024153
161222A00036	12/22/2016	2.69	12/22/2026	101.75461	101.0021109	100.2625488	99.5355662	98.8208209	98.11798354	97.4267371	96.74677628	96.07780696
161222A00037	12/22/2016	3.08	12/22/2031	109.50511	106.1467275	102.9419858	99.88238101	96.95994256	94.16719942	91.49714552	88.94320757	86.49921529
161227A00073	12/27/2016	2.83	12/28/2026	103.58201	102.230792	100.9057079	99.60605879	98.33116575	97.0803739	95.85305112	94.64858711	93.46639242
161229A00018	12/29/2016	2.46	12/29/2026	101.64615	100.8882059	100.1433507	99.41122498	98.69148143	97.98378584	97.28781656	96.60326383	95.92982927
161229A00019	12/29/2016	2.46	12/29/2026	101.64615	100.8882059	100.1433507	99.41122498	98.69148143	97.98378584	97.28781655	96.60326383	95.92982927
170105A00010	1/5/2017	2.61	1/5/2027	101.80374	101.0075238	100.2251742	99.45631232	98.70057284	97.95760422	97.2270679	96.50863771	95.80199929
170106A00030	1/6/2017	2.39	1/6/2027	101.68308	100.8869931	100.1047828	99.33607189	98.58049454	97.83769857	97.10734485	96.38910666	95.68266913
170111A00009	1/11/2017	3.16	1/11/2028	107.55846	105.0628319	102.6383546	100.2825994	97.9932311	95.76800798	93.60477767	91.50147292	89.45610766
170111A00011	1/11/2017	3.24	1/11/2029	111.00107	107.443564	104.0205809	100.726315	97.5552426	94.50210714	91.56190476	88.72987079	86.00146692
170111A00012	1/11/2017	3.31	1/11/2030	114.39664	109.7565858	105.3342885	101.1183765	97.09813276	93.26345198	89.60480276	86.11319192	82.78013138
170111A00013	1/11/2017	3.4	1/10/2031	117.54244	111.8125303	106.4026188	101.2931234	96.46576185	91.90345643	87.59024894	83.51122165	79.65242431
170111A00014	1/11/2017	3.47	1/12/2032	120.14478	113.32611	106.9485714	100.9812121	95.39540814	90.16467596	85.26450225	80.67218764	76.36670381
170111A00016	1/11/2017	3.51	1/11/2033	122.49156	114.5998414	107.2866315	100.5062592	94.21688808	88.38017538	82.96096364	77.9270009	73.2486868
170112A00015	1/12/2017	2.32	1/12/2027	101.62914	100.8325799	100.04993	99.28080472	98.52483727	97.78167442	97.05097606	96.33241458	95.62567421
170120A00008	1/20/2017	3.63	1/20/2034	125.5587	116.5393964	108.2588247	100.6521045	93.66038546	87.23025459	81.31320828	75.86517764	70.84610205
170120A00009	1/20/2017	3.67	1/22/2035	127.90745	117.8075676	108.6189004	100.2535925	92.63270873	85.68528663	79.34749324	73.56187508	68.2766904
170120A00010	1/20/2017	3.71	1/22/2036	130.07798	118.9154671	108.850591	99.7682755	91.56610831	84.15288669	77.4473372	71.37698759	65.87717206
170120A00011	1/20/2017	3.75	1/20/2037	131.84057	119.6517616	108.7583433	99.01378989	90.28892672	82.46979121	75.45576922	69.157968	63.49779493
170123A00039	1/23/2017	2.79	1/23/2026	101.19821	100.7096535	100.2258157	99.74663137	99.27203332	98.80195586	98.33633449	97.87510593	97.41820813

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
170124A00017	1/24/2017	2.82	1/23/2032	109.25768	105.7561883	102.4191102	99.23716072	96.20165375	93.30445634	90.53794961	87.89499282	85.36889005
170130A00036	1/30/2017	3.11	1/31/2033	111.45713	107.2814823	103.3293628	99.58648552	96.03959244	92.67637306	89.4853902	86.45601199	83.5783495
170130A00039	1/30/2017	2.74	1/31/2028	103.84858	102.325031	100.8372157	99.3840215	97.96437639	96.5772499	95.22165095	93.89662601	92.60125747
170130A00043	1/30/2017	2.64	1/29/2027	102.34916	101.3371027	100.3433191	99.3673229	98.40864448	97.46683083	96.54144485	95.63206463	94.73828278
170130A00046	1/30/2017	2.52	1/30/2026	101.07379	100.5640093	100.0593431	99.55971462	99.06504893	98.57527247	98.09031313	97.61010022	97.13456442
170203A00012	2/3/2017	3.63	2/2/2035	127.58516	117.4712351	108.272793	99.90129465	92.2772166	85.32909157	78.99265421	73.21008102	67.92931413
170203A00013	2/3/2017	3.67	2/1/2036	129.70167	118.5327741	108.4652262	99.38326206	91.18388751	83.77540975	77.07614371	71.01327219	65.52184105
170207A00055	2/7/2017	2.36	2/8/2027	101.75941	100.9209487	100.0973716	99.28827018	98.49325068	97.71193413	96.94395549	96.18896309	95.44661797
170216A00043	2/16/2017	3.17	2/16/2027	104.60627	103.0436626	101.5123114	100.0113481	98.53993794	97.09727626	95.6825873	94.29512281	92.93416086
170216A00044	2/16/2017	3.52	2/17/2032	120.68202	113.746117	107.2647953	101.2057356	95.53908501	90.2372536	85.27473126	80.62792071	76.27498458
170216A00045	2/16/2017	3.73	2/17/2037	131.71678	119.4606381	108.5151521	98.73117723	89.97733252	82.13780053	75.11040921	68.80495897	63.14176247
170224A00020	2/24/2017	3.08	2/24/2027	104.54485	102.9588313	101.4047844	99.88181464	98.3890573	96.92567934	95.49087807	94.08387975	92.70393825
170224A00021	2/24/2017	3.4	2/24/2032	119.93222	113.0002895	106.5242881	100.4717062	94.81252117	89.51899222	84.56547582	79.92825642	75.58539204
170224A00039	5/24/2017	3.17	5/24/2027	105.50162	103.6634937	101.866431	100.1092459	98.39079753	96.70998626	95.06575153	93.45707023	91.8829551
170224A00044	5/24/2017	3.29	5/24/2029	112.36508	108.4089321	104.6153819	100.9768848	97.48628606	94.13679967	90.92198715	87.83573787	84.87225054
170228A00014	2/28/2017	2.89	3/1/2027	104.40242	102.801002	101.2320684	99.69469632	98.18800012	96.71112687	95.26325508	93.84359316	92.45137809
170309A00014	3/9/2017	2.58	3/9/2027	102.05833	101.1752736	100.3081561	99.45653798	98.61999427	97.79811586	96.99050885	96.1967938	95.41660506
170313A00032	3/13/2017	3.69	6/14/2032	122.54022	115.2185593	108.3963699	102.0368097	96.10593916	90.57247677	85.40757813	80.58463461	76.07908947
170313A00033	3/13/2017	3.31	3/15/2027	105.09331	103.4503382	101.8411531	100.2647755	98.72026687	97.20672413	95.72327831	94.26909284	92.84336198
170313A00034	3/13/2017	3.31	3/15/2027	105.09331	103.4503382	101.8411531	100.2647755	98.72026687	97.20672413	95.72327831	94.26909284	92.84336198
170313A00035	3/13/2017	3.31	3/15/2027	105.09331	103.4503382	101.8411531	100.2647755	98.72026687	97.20672413	95.72327831	94.26909284	92.84336198
170313A00041	3/13/2017	3.21	3/15/2032	110.47194	106.8853032	103.4714645	100.2203859	97.12269549	94.16963504	91.35301565	88.66517668	86.09894804
170313A00045	3/13/2017	3.22	3/15/2032	110.65281	107.0246548	103.5703897	100.2800113	97.14417023	94.15412262	91.30168691	88.57920371	85.97949896
170317A00044	3/17/2017	3.11	3/17/2027	104.74902	103.1182952	101.5220487	99.95923741	98.42886432	96.92997245	95.46164275	94.02299221	92.61317205
170322A00022	3/22/2017	3.89	9/23/2041	142.61213	125.5396366	110.874396	98.25518555	87.37718595	77.98288908	69.85451513	62.8076797	56.68609925
170322A00023	3/22/2017	3.82	9/22/2039	136.38233	121.5102197	108.5240582	97.16976741	87.22893577	78.51363804	70.86203099	64.1346053	58.21099301
170322A00024	3/22/2017	3.72	9/22/2036	131.1169	119.2696642	108.6508464	99.12481717	90.57164096	82.88518421	75.97146057	69.74718209	64.13848991
170322A00025	3/22/2017	3.58	3/22/2033	123.44144	115.3203234	107.8074901	100.8538751	94.41462354	88.44870909	82.91858815	77.78988685	73.0311178
170322A00026	3/22/2017	3.22	3/22/2028	108.36036	105.6562773	103.0339798	100.4904762	98.02290746	95.62853865	93.30475257	91.0490437	88.85901262
170322A00033	3/22/2017	3.61	3/24/2042	125.36523	115.2837797	106.3164867	98.32193637	91.17825528	84.78024021	79.03692997	73.86954903	69.20976334
170327A00070	3/29/2017	3.05	3/29/2027	104.90756	103.2263608	101.5802911	99.96831369	98.38943375	96.84269504	95.32717823	93.84199908	92.3863067
170327A00072	3/29/2017	3.09	3/29/2027	104.97474	103.2929622	101.6463197	100.0337799	98.45434748	96.90706599	95.39101585	93.90531256	92.44910499
170327A00078	3/27/2019	3.04	3/27/2026	101.73601	101.0730466	100.4187181	99.77285613	99.13529706	98.50588147	97.88445399	97.27086318	96.66496143

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
170327A00079	3/27/2019	3.19	3/29/2027	105.02359	103.3434502	101.698378	100.0873431	98.50935274	96.96345311	95.44872698	93.96429213	92.50929957
170327A00080	3/27/2019	3.43	3/27/2029	112.3753	108.5802096	104.9355096	101.4343766	98.0703416	94.83726619	91.72932393	88.74098229	85.86698601
170406A00029	4/6/2017	3.01	4/6/2027	104.84689	103.1316797	101.4536993	99.81182067	98.20496429	96.63209354	95.09221258	93.5843643	92.10762836
170406A00031	4/6/2017	3.01	4/6/2027	104.84689	103.1316797	101.4536993	99.81182067	98.20496429	96.63209354	95.09221258	93.5843643	92.10762836
170406A00032	4/6/2017	3.01	4/6/2027	104.84689	103.1316797	101.4536993	99.81182067	98.20496429	96.63209354	95.09221258	93.5843643	92.10762836
170406A00033	4/6/2017	3.01	4/6/2027	104.84689	103.1316797	101.4536993	99.81182067	98.20496429	96.63209354	95.09221258	93.5843643	92.10762836
170406A00034	4/6/2017	3.01	4/6/2027	104.84689	103.1316797	101.4536993	99.81182067	98.20496429	96.63209354	95.09221258	93.5843643	92.10762836
170406A00036	4/6/2017	3.07	4/6/2032	110.21579	106.5588187	103.07898	99.76598416	96.6102211	93.60270878	90.7350479	87.99938001	85.38834901
170407A00001	4/6/2017	2.97	4/6/2027	104.66491	102.9889935	101.3493051	99.74474891	98.17427609	96.63687942	95.13159131	93.65748171	92.21365635
170427A00044	4/27/2017	3.02	4/27/2027	104.99562	103.2352462	101.5129276	99.82749492	98.17782814	96.56285287	94.9815382	93.43289442	91.91597094
170427A00046	4/27/2017	3.1	4/27/2028	108.35387	105.54985	102.8331714	100.2005388	97.64880318	95.17495797	92.77613088	90.44957696	88.1926718
170427A00047	4/27/2017	3.18	4/27/2029	111.71727	107.8474038	104.134047	100.5699523	97.14825417	93.86244678	90.7063625	87.67415198	84.76026559
170502A00028	5/2/2017	2.84	5/3/2027	104.85414	103.0764001	101.3374157	99.63600031	97.97101724	96.34137569	94.74602859	93.18397031	91.65423458
170511A00011	5/11/2017	2.41	5/11/2027	102.11734	101.150064	100.2009222	99.26939801	98.35499778	97.45724675	96.57568809	95.70988202	94.85940498
170524A00027	5/24/2017	2.32	5/24/2027	102.0334	101.0653349	100.115454	99.18324109	98.2682029	97.36986479	96.48776989	95.62147828	94.77056614
170609A00043	6/9/2017	3.07	6/9/2032	118.74313	111.542813	104.8359313	98.58602384	92.75950039	87.32540358	82.25518994	77.52253039	73.10312804
170609A00052	6/11/2018	2.9	6/9/2027	105.13976	103.261198	101.4254917	99.63141029	97.87776908	96.16342446	94.48727241	92.84824685	91.24531802
170619A00089	6/16/2017	2.79	6/16/2027	104.98415	103.0911813	101.2431315	99.43865032	97.67643818	95.95524316	94.27385904	92.63112326	91.02591502
170619A00092	6/16/2017	2.79	6/16/2027	104.98415	103.0911813	101.2431315	99.43865032	97.67643818	95.95524316	94.27385904	92.63112326	91.02591502
170619A00095	6/16/2017	2.79	6/16/2027	104.98415	103.0911813	101.2431315	99.43865032	97.67643818	95.95524316	94.27385904	92.63112326	91.02591502
170619A00096	6/16/2017	2.79	6/16/2027	104.98415	103.0911813	101.2431315	99.43865032	97.67643818	95.95524316	94.27385904	92.63112326	91.02591502
170619A00101	6/16/2017	2.74	6/16/2027	104.76155	102.9164544	101.1148936	99.35556612	97.63721381	95.95862495	94.31863203	92.71610977	91.14997336
170622A00036	6/22/2017	3.23	6/22/2032	119.39727	112.1599637	105.4198739	99.14013848	93.28681203	87.82861885	82.7367304	77.9845622	73.54758862
170622A00037	6/22/2017	3.27	6/22/2033	121.51399	113.2188807	105.5650138	98.49921367	91.97297997	85.94205123	80.36601467	75.20795349	70.43412818
170622A00038	6/22/2017	3.32	6/22/2034	123.66796	114.3169536	105.7675653	97.94638731	90.78709648	84.2297401	78.22009438	72.70909039	67.65230008
170622A00039	6/22/2017	3.36	6/22/2035	125.65362	115.2590174	105.8414298	97.30304619	89.55633627	82.52292561	76.13259548	70.32239629	65.03586137
170622A00040	6/22/2017	3.41	6/23/2036	127.46037	116.0370304	105.780406	96.56383802	88.275064	80.8145159	74.09382569	68.03451335	62.56683443
170623A00028	6/23/2017	2.79	6/23/2027	105.04711	103.1305876	101.2586052	99.42986568	97.64311548	95.89714542	94.19078897	92.52292047	90.89245336
170711A00010	7/11/2017	2.38	7/12/2027	102.2972	101.244666	100.2127239	99.20078398	98.20828239	97.23467634	96.27944317	95.3420794	94.4220998
170713A00021	7/13/2017	3.25	7/13/2037	123.30717	113.2353905	104.1986058	96.08007125	88.77702328	82.19892291	76.26593127	70.90758301	66.06163114
170803A00020	8/3/2017	2.84	8/3/2027	105.46831	103.436857	101.4551596	99.52167956	97.63494123	95.79352448	93.99606231	92.24123841	90.52778491
170809A00005	8/9/2017	2.61	8/11/2025	100.06672	100.036172	100.0056626	99.9751882	99.94474872	99.91434411	99.8839743	99.85363922	99.82333883
170822A00020	8/22/2017	2.59	8/22/2025	100.12923	100.0681558	100.007174	99.94628066	99.88547568	99.82475882	99.76412988	99.70358867	99.64313501

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
170822A00023	8/23/2017	3.95	8/23/2028	111.97367	108.791316	105.7176405	102.7483086	99.87918121	97.10630891	94.42592192	91.83442087	89.3283679
170918A00007	9/18/2017	2.8	9/20/2027	105.77375	103.607704	101.4969074	99.43956373	97.43394971	95.47841161	93.57136174	91.7112752	89.89668687
170921A00055	9/21/2017	2.82	9/21/2027	105.75038	103.6085575	101.5223079	99.48977682	97.50918377	95.5788227	93.69705833	91.86232242	90.07311047
170921A00056	9/21/2017	2.82	9/21/2027	105.75038	103.6085575	101.5223079	99.48977682	97.50918377	95.5788227	93.69705833	91.86232242	90.07311047
170921A00057	9/21/2017	2.79	9/21/2027	105.5223	103.4400086	101.4113806	99.43462932	97.50804077	95.62997265	93.79885058	92.0131646	90.27146598
170929A00046	9/29/2017	2.49	9/30/2027	102.53528	101.4054813	100.2987309	99.21435762	98.15171432	97.11017858	96.08915137	95.08805596	94.10633688
171011A00013	10/11/2017	2.77	10/13/2026	102.96477	101.747642	100.5592427	99.3985677	98.26465495	97.15658629	96.07348521	95.01451444	93.9788738
171018A00011	10/18/2017	2.68	10/18/2027	105.88759	103.640826	101.4529633	99.32202824	97.24612746	95.22344694	93.2522479	91.33086293	89.45769245
171026A00009	10/26/2017	2.75	10/27/2025	100.55735	100.3132591	100.0703535	99.8286279	99.58807381	99.34868268	99.11044609	98.87335567	98.63740317
171026A00010	10/26/2017	2.84	10/26/2026	103.1495	101.8955521	100.6720417	99.47787476	98.31200475	97.17343446	96.06121306	94.97443342	93.91222965
171026A00011	10/26/2017	2.94	10/26/2027	106.3765	104.1057412	101.8948832	99.74189909	97.64484975	95.60187817	93.61120504	91.67112475	89.78000166
171030A00023	10/30/2017	2.9	11/1/2027	106.33497	104.0484169	101.8225337	99.6552589	97.5446212	95.48873278	93.48578506	91.53404461	89.63184929
171109A00016	11/9/2017	2.94	11/9/2032	116.53702	109.7377245	103.4136167	97.52829737	92.04835204	86.94309325	82.18432435	77.74612491	73.60465562
171129A00020	11/29/2017	2.89	11/30/2026	103.51025	102.1698858	100.8532109	99.55964977	98.28864604	97.03966071	95.81217154	94.60567238	93.41967256
171206A00020	12/6/2017	2.62	12/6/2027	103.01022	101.7545771	100.5261661	99.32416995	98.1477992	96.9962948	95.8689266	94.76499199	93.68381465
171206A00038	12/6/2017	2.69	12/6/2027	106.29736	103.9108014	101.5899497	99.33263706	97.13678114	95.00037968	92.92150718	90.89831139	88.92901014
171206A00048	12/6/2017	3.04	12/6/2032	119.37604	111.6689532	104.523187	97.89481087	91.74354954	86.03245871	80.72763394	75.79794639	71.21480269
171207A00024	12/7/2017	2.93	12/7/2027	106.68104	104.2981589	101.98231	99.73122178	97.54271096	95.41468114	93.34511895	91.33209019	89.3737362
171207A00025	12/7/2017	2.91	12/7/2027	106.52428	104.1796668	101.90074	99.68527566	97.53113761	95.43627469	93.39871691	91.41657173	89.48802048
171207A00026	12/7/2017	2.93	12/7/2027	106.68104	104.2981589	101.98231	99.73122178	97.54271096	95.41468114	93.34511895	91.33209019	89.3737362
171219A00063	12/19/2017	2.8	12/20/2027	106.67023	104.2413515	101.8802922	99.58478027	97.35263674	95.18176781	93.07016111	91.01588204	89.01707028
171219A00067	12/19/2017	2.72	12/20/2027	106.13292	103.8288331	101.5896879	99.41326326	97.29742382	95.2401206	93.23938689	91.29333438	89.4001495
180102A00021	1/2/2018	2.82	1/2/2026	101.03523	100.605331	100.1790857	99.75644761	99.3373711	98.92181126	98.50972398	98.10106585	97.69579421
180104A00018	1/4/2018	2.97	1/4/2027	103.91321	102.4761363	101.066053	99.6822616	98.32409121	96.99089332	95.68204083	94.3969272	93.13496555
180104A00023	1/4/2018	2.91	1/4/2028	106.18193	103.9545843	101.789895	99.68569843	97.63991999	95.65057003	93.71573979	91.83359752	90.00238483
180104A00024	1/4/2018	2.98	1/4/2028	106.89891	104.4801843	102.1310872	99.84919302	97.6321741	95.47779848	93.38392529	91.34850045	89.36955252
180104A00041	1/4/2018	3.08	1/4/2033	117.76888	110.7533526	104.2369774	98.18079711	92.54911728	87.30921221	82.43106294	77.88711938	73.6520846
180110A00029	1/10/2018	3.13	1/10/2028	107.47561	104.9837085	102.5627907	100.2104282	97.92429387	95.70215383	93.54186297	91.44136091	89.39866814
180116A00014	1/16/2018	3.01	1/19/2027	104.09831	102.619669	101.1695532	99.74720821	98.35190634	96.98294497	95.63964532	94.3213514	93.02742916
180116A00015	1/16/2018	3.06	1/18/2028	107.36946	104.8573241	102.4173589	100.047081	97.74410403	95.50613817	93.3309854	91.21653538	89.1607613
180118A00039	1/18/2018	3.09	1/19/2027	104.21732	102.7377537	101.2867322	99.86349701	98.46732017	97.09749862	95.75335316	94.43422746	93.13948706
180126A00011	1/26/2018	2.72	1/26/2028	103.38835	102.0702459	100.7815478	99.52135423	98.28879811	97.08304608	95.90329684	94.74877959	93.61875268
180130A00070	1/30/2018	3.14	1/29/2027	104.38014	102.872473	101.3944008	99.94512439	98.52387647	97.12991666	95.76253007	94.42102631	93.10473838

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
180207A00002	2/7/2018	3.13	2/6/2026	101.43653	100.9091499	100.3872576	99.87076364	99.35958441	98.85363814	98.35284469	97.85712555	97.3664038
180207A00003	2/7/2018	3.28	2/7/2028	108.1044	105.5274523	103.0258863	100.5970533	98.23841269	95.94752901	93.72206678	91.5597857	89.45853616
180222A00025	2/22/2018	3.48	2/22/2033	123.09397	115.0376713	107.580767	100.6752451	94.2771841	88.34638424	82.84603396	77.74240782	73.0045927
180222A00027	2/22/2018	3.24	2/22/2028	108.33567	105.7080426	103.1582204	100.6834244	98.28099697	95.94839232	93.68317098	91.48299468	89.34562138
180313A00026	3/13/2018	3.34	3/13/2028	108.59815	105.9153355	103.3130816	100.7884635	98.33868595	95.96107402	93.6530667	91.41221133	89.2361582
180322A00040	3/22/2018	3.16	3/21/2031	111.51378	107.6048524	103.8878319	100.3516442	96.98593663	93.78102216	90.72783251	87.81787452	85.04318996
180322A00044	3/22/2018	3.18	3/22/2033	112.12675	107.9161542	103.9335865	100.1643649	96.59487402	93.21247683	90.00543726	86.96284983	84.07457503
180323A00013	3/23/2018	3.18	3/23/2028	108.45522	105.742934	103.1128207	100.5618684	98.08719997	95.68606329	93.35582491	91.09396401	88.89806668
180329A00003	3/29/2018	3.08	3/29/2028	108.2396	105.5138961	102.8711681	100.3083641	97.8225644	95.4109767	93.07093	90.7998682	88.59534425
180402A00013	4/2/2018	2.99	4/3/2028	106.93785	104.5629088	102.2587773	100.0228433	97.85260915	95.74568811	93.69979814	91.71275672	89.78247553
180403A00006	4/3/2018	3.07	4/3/2028	108.25675	105.5169684	102.8609307	100.2855411	97.78784023	95.36499875	93.01431083	90.73318765	88.51915139
180410A00002	4/10/2018	3.14	4/11/2033	112.06512	107.8134184	103.7941054	99.99209472	96.39340026	92.98504858	89.75499866	86.69206838	83.7858672
180412A00034	4/12/2018	3.23	4/15/2030	115.13788	110.2035949	105.5125048	101.051268	96.80735129	92.76897603	88.92506858	85.26521373	81.77961168
180412A00036	4/12/2018	3.54	4/15/2038	131.66699	118.3034735	106.4966864	96.05422925	86.80851609	78.61345685	71.34159667	64.88164901	59.13636654
180508A00038	5/8/2018	3.57	5/9/2033	113.71961	109.36756	105.2553268	101.3672247	97.68871788	94.20633072	90.9075629	87.78081212	84.8153032
180517A00018	5/17/2018	3.46	5/17/2033	113.55525	109.2024264	105.0897652	101.2015364	97.52316841	94.04115349	90.74296264	87.61696781	84.65237079
180517A00024	5/17/2018	3.46	5/17/2033	113.55525	109.2024264	105.0897652	101.2015364	97.52316841	94.04115349	90.74296264	87.61696781	84.65237079
180529A00042	5/29/2018	3.42	5/30/2028	109.54766	106.6367011	103.8187967	101.0904815	98.44843542	95.88947989	93.41057054	91.00879105	88.68134694
180529A00057	5/29/2018	3.09	5/30/2028	106.319	104.2115965	102.1659347	100.1797677	98.25094998	96.3774277	94.55723389	92.78848441	91.06937385
180530A00024	5/30/2018	3.44	5/30/2029	112.99755	109.0128104	105.192328	101.5284765	98.0140273	94.64212242	91.40625377	88.30024335	85.31822484
180530A00025	5/30/2018	3.49	5/30/2030	116.38547	111.3078092	106.4854272	101.9041597	97.55069692	93.41253061	89.47790121	85.73574955	82.17567167
180530A00026	5/30/2018	3.55	5/30/2031	119.30914	113.1379078	107.3318092	101.867291	96.72243848	91.87685082	87.31152952	83.00877516	78.95209235
180530A00027	5/30/2018	3.61	6/1/2032	121.90752	114.6431962	107.8724347	101.5589916	95.66946162	90.17304423	85.04132768	80.24809274	75.76913319
180530A00028	5/30/2018	3.67	5/31/2033	124.54912	116.1970533	108.483533	101.3560924	94.76683459	88.672014	83.03165758	77.80922167	72.9712819
180530A00030	5/30/2018	3.68	5/30/2034	126.73605	117.3143318	108.69187	100.7960889	93.56137008	86.92834984	80.8432938	75.25753687	70.12698139
180605A00031	6/5/2018	3.37	6/5/2030	108.40664	105.7572122	103.205902	100.748234	98.37996648	96.09708136	93.89577055	91.77242369	89.72361649
180615A00039	6/15/2018	3.49	6/15/2028	109.90243	106.941468	104.0764709	101.3038169	98.62004036	96.02182462	93.50599503	91.06951193	88.70946425
180618A00036	6/18/2018	3.89	6/18/2048	159.17256	134.723499	114.8104645	98.53280452	85.17570202	74.17076765	65.06517578	57.49745605	51.17847677
180619A00021	6/19/2018	3.24	6/19/2028	109.42272	106.4527052	103.5794432	100.7992688	98.10867184	95.50429398	92.98292129	90.54147721	88.17701586
180620A00014	6/20/2018	3.4	6/20/2028	109.68769	106.7158142	103.8407071	101.0587007	98.36628506	95.76010207	93.23693803	90.79371655	88.42749191
180620A00038	6/20/2018	3.4	6/20/2028	109.68769	106.7158142	103.8407071	101.0587007	98.36628506	95.76010207	93.23693803	90.79371655	88.42749191
180621A00017	6/21/2018	3.42	6/21/2028	109.7556	106.7799156	103.9012018	101.1157792	98.42012771	95.81087975	93.28481259	90.83884135	88.47001228
180622A00004	6/22/2018	3.47	12/22/2028	111.6216	108.1078063	104.7248181	101.4670806	98.32930036	95.30643617	92.39368525	89.58647084	86.8804303

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
180622A00005	6/22/2018	3.5	7/2/2029	113.53719	109.4490125	105.5329445	101.7808309	98.18494722	94.73797341	91.43297048	88.26335869	85.22289703
180622A00006	6/22/2018	3.53	12/21/2029	115.2079	110.6072733	106.2197408	102.0343173	98.04063859	94.22892502	90.5899451	87.11498218	83.79580312
180628A00068	6/28/2018	3.12	6/28/2028	107.77939	105.2222001	102.746518	100.3492202	98.0273263	95.77798808	93.59848268	91.48620625	89.43866801
180716A00054	7/16/2018	3.59	7/16/2040	135.97348	120.3423653	106.7974786	95.0435271	84.8286862	75.93799301	68.18777229	61.42092997	55.5029755
180717A00021	7/17/2018	3.34	7/17/2028	109.0571	106.219476	103.4758908	100.8226526	98.25623647	95.77327678	93.37055946	91.04501398	88.79370604
180717A00047	7/17/2018	3.3	9/17/2025	100.37527	100.2420232	100.1091455	99.97663458	99.84448897	99.7127071	99.58128743	99.45022843	99.31952857
180718A00008	7/18/2018	3.37	7/18/2028	109.80398	106.7168903	103.7343039	100.8520805	98.06626681	95.37308961	92.76894611	90.25039527	87.8141495
180719A00065	7/19/2018	3.36	7/20/2026	102.9247	101.9408012	100.9757182	100.0289184	99.09988548	98.1881222	97.29314983	96.41450721	95.55174991
180727A00028	7/27/2018	3.25	7/27/2026	102.94634	101.9420743	100.9573992	99.99174369	99.04456021	98.11532223	97.20352301	96.30867477	95.43030775
180727A00039	7/27/2018	3.48	7/27/2028	110.26493	107.1829947	104.2046567	101.3258523	98.54270437	95.85150976	93.24872992	90.73098286	88.29503518
180730A00081	7/30/2018	3.5	7/28/2028	110.33463	107.2489225	104.2670134	101.3848343	98.59849719	95.90428845	93.29865997	90.77822063	88.33972847
180813A00045	8/13/2018	2.89	8/13/2025	100.09103	100.0548971	100.0188102	99.98276698	99.9467673	99.9108111	99.87489829	99.83902879	99.80320252
180814A00010	8/14/2018	3.1	8/14/2025	100.10607	100.0671514	100.0282836	99.98946394	99.95069228	99.91196851	99.87329255	99.83466429	99.79608365
180814A00032	8/14/2018	3.1	8/14/2025	100.10607	100.0671514	100.0282836	99.98946394	99.95069228	99.91196851	99.87329255	99.83466429	99.79608365
180814A00033	8/14/2018	3.25	8/13/2027	106.53965	104.4671304	102.4457702	100.473972	98.55020148	96.67298315	94.8408974	93.0525781	91.3067101
180816A00038	8/16/2018	3.38	8/16/2028	110.14326	107.0085043	103.9805691	101.0552099	98.22837269	95.49618818	92.85496224	90.30116686	87.83143163
180820A00055	8/20/2018	3.37	8/21/2028	110.15773	107.0090495	103.968002	101.030295	98.1918304	95.44869779	92.79716437	90.2336659	87.75479795
180823A00035	8/23/2018	3.05	8/22/2025	100.16152	100.1003788	100.0393296	99.97836939	99.91749807	99.85671539	99.79602117	99.73541519	99.67489726
180823A00053	8/23/2018	3.2	8/23/2028	109.87381	106.7187408	103.6718123	100.7287011	97.88528032	95.13761205	92.48193809	89.91467028	87.43238181
180823A00055	8/23/2018	3.44	8/23/2033	123.79581	115.2205367	107.3198744	100.036856	93.31961147	87.12089013	81.39762656	76.11054981	71.22383076
180827A00020	8/27/2018	3.21	8/27/2025	100.20448	100.1294978	100.0546372	99.97989569	99.90527287	99.83076849	99.75638227	99.68211394	99.60796321
180828A00032	8/28/2018	3.49	8/29/2033	124.23508	115.6262487	107.6954428	100.3853285	93.64371237	87.42305535	81.68003525	76.3751521	71.4723725
180829A00008	8/29/2018	3.23	8/30/2027	106.65721	104.5371312	102.4700956	100.4544153	98.48847206	96.57071108	94.69963784	92.87381537	91.0918615
180831A00019	8/31/2018	3.21	9/2/2025	100.24964	100.1580171	100.066566	99.97528474	99.88417275	99.79322958	99.70245475	99.6118478	99.52140826
180904A00012	9/4/2018	3.35	9/4/2030	116.79862	111.4296269	106.3439144	101.5249949	96.95742754	92.62674741	88.51939862	84.62267228	80.924649
180904A00014	9/4/2018	3.37	9/1/2028	110.25759	107.0771337	104.006151	101.0402381	98.17519752	95.40702552	92.73190207	90.14618106	87.64638131
180905A00017	9/5/2018	3.43	9/6/2033	121.29132	113.692748	106.6725169	100.1824071	94.17849722	88.6207624	83.47270721	78.70103579	74.27535414
180906A00032	9/6/2018	3.24	9/5/2025	100.50507	100.3221358	100.1398731	99.95827975	99.77735212	99.59708648	99.41747917	99.23852657	99.06022505
180907A00013	9/7/2018	3.27	9/8/2025	100.53369	100.3426002	100.1522439	99.96262115	99.77372771	99.58555931	99.39811171	99.21138072	99.02536218
180910A00028	9/10/2018	3.56	9/9/2033	124.86885	116.2048076	108.224795	100.8708156	94.09008647	87.83454533	82.06040496	76.72775216	71.80018612
180910A00033	9/10/2018	3.43	9/8/2028	110.51142	107.3072814	104.2139387	101.226911	98.34192933	95.55492339	92.86201053	90.25948598	87.74381352
180912A00011	9/12/2018	3.41	9/11/2026	103.4508	102.3183889	101.2107869	100.1271823	99.0668006	98.02890048	97.01277183	96.01773421	95.04313528
180913A00012	9/13/2018	3.31	9/13/2033	113.35989	108.8381359	104.5750889	100.5532242	96.75634728	93.16948333	89.7787771	86.57140115	83.53547243

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
180913A00030	9/13/2018	3.33	9/12/2025	100.33988	100.2205081	100.1014369	99.98266298	99.86418533	99.74600275	99.62811409	99.51051822	99.39321401
180913A00033	9/13/2018	3.31	9/13/2033	113.35989	108.8381359	104.5750889	100.5532242	96.75634728	93.16948333	89.7787771	86.57140115	83.53547243
180914A00013	9/14/2018	3.48	9/14/2028	110.72632	107.5018853	104.3893813	101.3842657	98.48220805	95.67908007	92.97094509	90.35404763	87.82480391
180914A00028	9/14/2018	3.37	9/12/2025	100.34466	100.225282	100.1062062	99.98742773	99.86894548	99.75075832	99.63286509	99.51526466	99.3979559
180914A00029	9/14/2018	3.48	9/14/2028	110.72632	107.5018853	104.3893813	101.3842657	98.48220805	95.67908007	92.97094509	90.35404763	87.82480391
180914A00049	9/14/2018	3.37	9/14/2033	113.63098	109.0983758	104.8250999	100.7935875	96.98760485	93.39214093	89.99330687	86.7782442	83.73504112
180920A00014	9/20/2018	3.59	9/20/2028	111.13352	107.8856895	104.7510134	101.7248828	98.80290244	95.98088335	93.25483186	90.62093903	88.0755709
180925A00013	9/25/2018	3.41	9/25/2028	105.41127	103.726275	102.0854787	100.4873627	98.93047088	97.41340785	95.93483635	94.49347426	93.08809186
180925A00116	9/25/2018	3.28	9/25/2028	105.31002	103.6248902	101.984007	100.3858458	98.82894774	97.3119149	95.83340768	94.39214176	92.98688536
181003A00019	10/3/2018	3.44	10/3/2025	100.78295	100.5198112	100.2580544	99.99766432	99.73863034	99.48094185	99.22458835	98.96955948	98.71584496
181003A00032	10/3/2018	3.23	10/3/2025	100.3893	100.2475868	100.1063121	99.96547454	99.82507203	99.68510243	99.54556365	99.40645359	99.26777018
181004A00029	10/4/2018	3.7	10/4/2028	111.62478	108.3298444	105.1507653	102.0827681	99.1213098	96.26206333	93.50090575	90.83390707	88.25731987
181010A00025	10/10/2018	3.48	10/10/2030	109.48867	106.6336925	103.8905211	101.2537908	98.71843631	96.27967121	93.93297058	91.674055	89.49887547
181029A00051	2/5/2019	3.69	2/5/2029	112.82014	109.161038	105.6424951	102.2583382	99.00269937	95.87000028	92.85493585	89.95245941	87.15776862
181029A00097	10/29/2018	3.53	10/27/2028	110.1378	107.1206962	104.2096984	101.4004499	98.68879352	96.07076557	93.54258596	91.10064854	88.7415121
181031A00070	3/1/2019	3.77	3/1/2029	113.37221	109.630354	106.0343099	102.5775729	99.25396855	96.05763217	92.98299172	90.02475119	87.17787529
181105A00015	11/5/2018	3.57	11/5/2025	101.10106	100.7495342	100.4004606	100.0538151	99.70957233	99.36770733	99.02819545	98.69101237	98.35613411
181109A00028	11/9/2018	3.72	11/9/2026	104.40047	103.1032721	101.8350756	100.5949052	99.38183046	98.19496208	97.03344979	95.89648006	94.78327417
181109A00029	11/9/2018	3.72	11/9/2026	104.40047	103.1032721	101.8350756	100.5949052	99.38183046	98.19496208	97.03344979	95.89648006	94.78327417
181116A00006	11/16/2018	3.18	11/17/2025	100.54126	100.3418093	100.1432856	99.94568665	99.7490053	99.55323459	99.35836763	99.16439759	98.97131772
181211A00042	12/11/2018	3.7	12/11/2028	111.00016	107.8209048	104.75685	101.803124	98.95508772	96.20832344	93.55862344	91.00197864	88.5345681
181214A00030	12/14/2018	3.47	12/14/2033	121.98498	114.0250165	106.6888156	99.92291588	93.67874484	87.91214582	82.5829538	77.65461413	73.09383943
181218A00040	12/18/2018	3.23	6/18/2030	108.03597	105.3949959	102.8518683	100.4021199	98.04151881	95.76605601	93.57193245	91.45554635	89.41348171
181220A00041	12/20/2018	3.36	12/18/2026	104.31566	102.9212225	101.5522126	100.207993	98.88794832	97.59148323	96.31802145	95.06700503	93.83789367
181226A00030	12/26/2018	2.91	12/26/2028	105.07247	103.2632895	101.5043644	99.79388802	98.13013333	96.51144786	94.93625016	93.40302612	91.91032563
181227A00019	12/28/2020	3.1	12/29/2025	101.12495	100.7058328	100.2901882	99.87797113	99.46913946	99.06365159	98.66146663	98.26254435	97.86684516
181227A00027	12/27/2018	3.24	12/26/2025	101.15925	100.7483375	100.3407639	99.93649048	99.53547721	99.13768471	98.74307427	98.35160775	97.96324765
181227A00028	12/27/2018	3.46	12/27/2028	111.6329	108.1052363	104.7093782	101.4397011	98.29085326	95.25773872	92.3355035	89.51952286	86.80538921
190102A00015	1/2/2019	2.97	1/3/2034	111.75954	107.300357	103.1006271	99.14239005	95.40908249	91.88541738	88.55727647	85.41161256	82.43636047
190102A00020	1/2/2019	2.97	1/3/2034	111.75954	107.300357	103.1006271	99.14239005	95.40908249	91.88541738	88.55727647	85.41161256	82.43636047
190102A00022	1/2/2019	2.97	1/3/2034	111.75954	107.300357	103.1006271	99.14239005	95.40908249	91.88541738	88.55727647	85.41161256	82.43636047
190102A00024	1/2/2019	2.97	1/3/2034	111.75954	107.300357	103.1006271	99.14239005	95.40908249	91.88541738	88.55727647	85.41161256	82.43636047
190102A00050	1/2/2019	3.38	1/3/2034	124.00308	115.0624743	106.853149	99.31105807	92.37808675	86.00147186	80.13328362	74.72996025	69.75188943

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
190103A00020	1/3/2019	3.12	1/5/2026	101.41484	100.8935548	100.3776484	99.86703678	99.36163855	98.86137399	98.36616503	97.87593515	97.39060938
190104A00006	1/4/2019	2.83	1/5/2026	100.67438	100.3926987	100.1129163	99.83501485	99.55897376	99.28477259	99.01239127	98.74181001	98.47300933
190104A00033	1/4/2019	3.37	1/31/2029	111.63073	108.0078428	104.5239008	101.172813	97.94879291	94.8463387	91.86021708	88.98544889	86.21729519
190104A00034	1/4/2019	3.18	1/4/2029	108.94234	105.9872518	103.1386869	100.3921106	97.74321233	95.18789007	92.72223911	90.34254129	88.04525497
190104A00035	1/4/2019	3.1	1/5/2026	101.40086	100.880912	100.3663197	99.85700365	99.35288277	98.85387769	98.35991062	97.87090535	97.38678722
190104A00038	1/4/2019	3.25	1/4/2029	110.4385	107.0675134	103.8234352	100.7007467	97.69420146	94.79881016	92.00982659	89.32273425	86.73323392
190110A00005	1/10/2019	3.2	1/9/2026	101.254	100.8042619	100.3585283	99.91674319	99.47885405	99.04480939	98.61455861	98.18805201	97.76524072
190111A00026	1/11/2019	3.48	1/11/2034	124.88958	115.8915871	107.630466	100.0415715	93.06625145	86.65126557	80.74826057	75.31329844	70.30643247
190118A00006	1/18/2019	3.14	1/18/2034	113.00803	108.3248179	103.9190994	99.77144973	95.86396707	92.18013977	88.70472858	85.42365959	82.3239268
190122A00045	1/22/2019	3.17	1/22/2027	104.46849	102.9771962	101.5148434	100.0806627	98.6739116	97.29387322	95.93985517	94.61118852	93.30722679
190122A00046	1/22/2019	3.29	1/22/2029	111.52721	107.9240915	104.4584072	101.1241717	97.91569259	94.82755571	91.85460957	88.9919513	86.23491321
190129A00073	1/29/2019	3.11	1/29/2029	105.44523	103.5887532	101.7847616	100.0313446	98.32667411	96.66900223	95.0566567	93.48803728	91.96161202
190131A00013	1/31/2019	3.48	1/31/2034	121.89202	113.7816007	106.3161294	99.4395881	93.10114505	87.25464958	81.85817671	76.87361823	72.2663154
190131A00019	1/31/2019	3.44	1/30/2034	124.64488	115.6073365	107.314297	99.70006429	92.70506815	86.27526715	80.36160904	74.9195464	69.90860156
190131A00023	1/31/2019	3.02	1/30/2034	112.54229	107.8353156	103.4095822	99.24525379	95.32405606	91.62914417	88.14498068	84.8572249	81.75263214
190205A00017	2/5/2019	3.36	2/5/2029	111.06018	107.6004341	104.2731743	101.0725332	97.99294034	95.02910416	92.17599622	89.42883643	86.78307922
190205A00020	2/5/2019	3.32	2/5/2029	110.92185	107.4654684	104.1414569	100.9439526	97.86738949	94.90648061	92.05620165	89.31177654	86.66866353
190205A00021	2/5/2019	3.32	2/5/2029	110.92185	107.4654684	104.1414569	100.9439526	97.86738949	94.90648061	92.05620165	89.31177654	86.66866353
190205A00022	2/5/2019	3.32	2/5/2029	110.92185	107.4654684	104.1414569	100.9439526	97.86738949	94.90648061	92.05620165	89.31177654	86.66866353
190205A00023	2/5/2019	3.32	2/5/2029	110.92185	107.4654684	104.1414569	100.9439526	97.86738949	94.90648061	92.05620165	89.31177654	86.66866353
190211A00017	2/11/2019	3.12	2/11/2026	101.46797	100.9267602	100.3913233	99.86157117	99.33741352	98.81876189	98.30552972	97.79763225	97.29498647
190225A00026	2/25/2019	3.43	2/27/2034	124.73285	115.6097934	107.2444535	99.56944069	92.5237006	86.05188932	80.10381168	74.63391747	69.6008493
190227A00033	2/27/2019	2.65	2/27/2026	100.76826	100.4328933	100.1003071	99.77046732	99.44333605	99.11887622	98.79705144	98.47782602	98.16116497
190301A00012	3/1/2019	3.41	3/1/2029	112.06687	108.3485764	104.7754156	101.3409081	98.03890346	94.86355996	91.80932746	88.87093092	86.04335512
190305A00015	3/5/2019	3.32	3/5/2029	111.15979	107.62495	104.2279207	100.9624871	97.82275123	94.80311704	91.89827254	89.10317367	86.41302889
190305A00017	3/5/2019	3.12	3/5/2026	101.82256	101.1466504	100.479807	99.82184826	99.17259689	98.53188018	97.89952996	97.27538251	96.65927833
190308A00016	3/8/2019	3.18	3/8/2034	119.27615	111.6407346	104.6042534	98.11483106	92.12541234	86.59328423	81.47965126	76.7492544	72.37002907
190308A00026	3/8/2019	3.18	3/8/2034	119.27615	111.6407346	104.6042534	98.11483106	92.12541234	86.59328423	81.47965126	76.7492544	72.37002907
190315A00017	3/15/2019	2.88	3/15/2034	111.97327	107.2463761	102.8043581	98.62695717	94.69552419	90.99288008	87.50318942	84.21184573	81.1053674
190315A00019	3/15/2019	2.88	3/15/2034	111.97327	107.2463761	102.8043581	98.62695717	94.69552419	90.99288008	87.50318942	84.21184573	81.1053674
190315A00023	3/15/2019	2.88	3/15/2034	111.97327	107.2463761	102.8043581	98.62695717	94.69552419	90.99288008	87.50318942	84.21184573	81.1053674
190315A00029	3/15/2019	2.88	3/15/2034	111.97327	107.2463761	102.8043581	98.62695717	94.69552419	90.99288008	87.50318942	84.21184573	81.1053674
190322A00008	3/22/2019	2.64	3/20/2026	100.8307	100.4558449	100.0844742	99.71652948	99.35195827	98.99070912	98.63273173	98.27797684	97.92639628

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
190327A00030	3/27/2019	2.9	3/27/2036	113.09576	107.5526701	102.4011688	97.60865789	93.14555665	88.98499815	85.10255944	81.47602046	78.08514823
190402A00004	4/2/2019	2.9	4/2/2029	110.73229	106.9438235	103.3065166	99.81347635	96.45816451	93.23437916	90.13623533	87.15814666	84.29480832
190402A00005	4/2/2019	2.77	4/2/2032	111.71667	106.9253094	102.4079349	98.14633624	94.12364608	90.32423255	86.73360082	83.33830296	80.12585551
190403A00010	4/3/2019	3.08	4/3/2029	110.75568	107.0888201	103.5684512	100.1878342	96.94057989	93.82063228	90.82224848	87.93998052	85.16865822
190403A00013	4/3/2019	3.05	4/3/2029	110.40669	106.8239906	103.3834497	100.0785509	96.90311477	93.85128336	90.91750099	88.09649664	85.38326744
190403A00014	4/3/2019	3.05	4/3/2029	110.40669	106.8239906	103.3834497	100.0785509	96.90311477	93.85128336	90.91750099	88.09649664	85.38326744
190404A00015	4/4/2019	2.88	4/3/2026	101.86323	101.1058671	100.3598224	99.62484178	98.90067994	98.18709879	97.48386721	96.79076079	96.10756155
190409A00019	4/9/2019	2.91	4/9/2029	110.82615	107.0162792	103.3590882	99.84757994	96.4751216	93.23542355	90.12251923	87.13074641	84.25472965
190422A00030	4/22/2019	2.93	12/22/2025	101.00307	100.6035806	100.2072539	99.8140567	99.42395189	99.03690302	98.65287418	98.27183004	97.89373578
190426A00023	4/26/2019	2.91	6/24/2026	102.28712	101.377786	100.4846081	99.60715466	98.74501301	97.89778472	97.06508513	96.24654269	95.44179845
190501A00015	5/1/2019	2.78	5/1/2029	105.30547	103.2828833	101.3215488	99.41910434	97.57329811	95.78198155	94.04310382	92.35470656	90.71491908
190502A00016	5/2/2019	2.87	5/1/2026	102.05864	101.2226872	100.4004964	99.59173333	98.79607029	98.01319033	97.2427866	96.48456203	95.73822892
190506A00026	5/6/2019	3.03	5/4/2029	110.79768	107.0526916	103.4602747	100.0133793	96.70532008	93.52975387	90.48066042	87.55232428	84.73931777
190510A00049	5/10/2019	2.58	5/8/2026	100.99665	100.5352709	100.0792199	99.62839692	99.18270208	98.74203808	98.30631022	97.87542634	97.44929668
190514A00021	5/14/2019	2.72	11/14/2025	100.66721	100.3732601	100.0810359	99.79052425	99.50171014	99.21457859	98.92911482	98.64530424	98.36313243
190515A00035	5/15/2019	2.82	2/15/2029	109.4783	105.9606485	102.5795816	99.32899299	96.20308433	93.19635014	90.30356131	87.51974937	84.84019185
190520A00020	5/20/2019	2.39	5/20/2026	100.93226	100.4746986	100.0223665	99.5751679	99.13300583	98.69578592	98.26341628	97.83580742	97.4128722
190529A00061	5/29/2019	2.46	5/29/2026	100.94106	100.4799337	100.0241367	99.57356478	99.12811814	98.68769954	98.25221433	97.8215704	97.39567806
190531A00037	5/31/2019	2.61	5/31/2029	110.06953	106.1308001	102.3553303	98.73552304	95.26417363	91.93444721	88.73985799	85.67424961	82.73177675
190531A00038	5/31/2019	2.82	5/31/2034	119.81304	110.6543073	102.2811021	94.62165772	87.61110778	81.19079529	75.30764975	69.91362963	64.96522297
190605A00007	6/5/2019	2.47	6/5/2026	101.93016	101.0046409	100.0960245	99.20385384	98.32768424	97.46708707	96.62164888	95.79097076	94.9746677
190605A00023	6/5/2019	2.64	6/5/2029	109.52852	105.7412595	102.1115328	98.63190849	95.29534945	92.09518631	89.02509633	86.07908349	83.25145983
190605A00024	6/5/2019	2.64	6/5/2029	109.52852	105.7412595	102.1115328	98.63190849	95.29534945	92.09518631	89.02509633	86.07908349	83.25145983
190605A00025	6/5/2019	2.64	6/5/2029	109.52852	105.7412595	102.1115328	98.63190849	95.29534945	92.09518631	89.02509633	86.07908349	83.25145983
190605A00027	6/5/2019	2.64	6/5/2029	109.52852	105.7412595	102.1115328	98.63190849	95.29534945	92.09518631	89.02509633	86.07908349	83.25145983
190606A00027	6/6/2019	2.51	6/5/2026	101.80283	100.9478579	100.1072207	99.28055785	98.46752306	97.66778128	96.88100843	96.10689087	95.345125
190606A00028	6/6/2019	2.74	6/6/2029	110.33538	106.3824671	102.5938126	98.96175301	95.47902014	92.13872005	88.93431191	85.85958814	82.90865567
190606A00029	6/6/2019	2.96	6/6/2034	120.41204	111.2435988	102.8609133	95.19218719	88.17253563	81.7432869	75.85135912	70.44870203	65.49179705
190620A00033	6/20/2019	2.1	6/20/2029	104.15756	102.1116258	100.1288214	98.20667896	96.34284512	94.5350753	92.78122799	91.07925919	89.42721735
190625A00023	6/25/2019	2.47	6/25/2027	104.44826	102.5320798	100.6605773	98.83244391	97.04641894	95.30128661	93.59587411	91.92904978	90.29972142
190628A00007	6/28/2019	2.28	6/28/2034	109.06144	104.4756451	100.1690602	96.12153681	92.314555	88.7310779	85.35542233	82.17314132	79.17091774
190702A00068	7/2/2019	2.69	7/1/2039	118.6773	107.7492982	98.09383092	89.54839183	81.97244056	75.24430282	69.25852462	63.92361144	59.16009422
190702A00071	7/2/2019	2.69	7/1/2039	118.6773	107.7492982	98.09383092	89.54839183	81.97244056	75.24430282	69.25852462	63.92361144	59.16009422

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
190703A00017	7/3/2019	2.33	5/4/2026	101.46668	100.7007356	99.94633349	99.20321011	98.47111386	97.74980062	97.03903344	96.33858226	95.64822367
190708A00028	7/8/2019	2.57	7/2/2029	109.41985	105.5696588	101.8824431	98.35038062	94.96606587	91.72248808	88.6130077	85.63133471	82.77150828
190708A00029	7/8/2019	2.57	7/2/2029	109.41985	105.5696588	101.8824431	98.35038062	94.96606587	91.72248808	88.6130077	85.63133471	82.77150828
190708A00030	7/8/2019	2.57	7/2/2029	109.41985	105.5696588	101.8824431	98.35038062	94.96606587	91.72248808	88.6130077	85.63133471	82.77150828
190708A00032	7/8/2019	2.58	7/2/2029	109.45866	105.6074151	101.9191871	98.38615027	95.00089771	91.75641693	88.64606686	85.66355599	82.8029221
190712A00016	7/12/2019	2.39	7/12/2029	104.71599	102.6196044	100.5889117	98.62130961	96.71431983	94.86557994	93.07283696	91.33394149	89.64684226
190718A00012	7/18/2019	2.55	7/18/2029	108.81593	105.1795697	101.6950072	98.35497788	95.15260641	92.0813848	89.13515043	86.30806567	83.59459889
190724A00021	7/24/2019	2.33	7/23/2027	104.50291	102.5082472	100.5619072	98.66241824	96.80836437	94.99838237	93.23115926	91.50543007	89.81997572
190724A00024	7/24/2019	2.49	7/24/2029	109.95748	105.8726498	101.9633009	98.22097005	94.63764585	91.2057439	87.9180817	84.76785514	81.7486165
190726A00017	7/26/2019	2.44	7/24/2026	102.04702	101.0568048	100.0857654	99.1333469	98.19901757	97.28226555	96.38259821	95.49954117	94.63263746
190802A00011	8/2/2019	2.01	8/2/2029	104.14539	102.0166243	99.95571065	97.95992802	96.02668124	94.1534977	92.33802076	90.57800346	88.87130263
190807A00021	8/7/2019	2	8/7/2026	101.68137	100.6549298	99.64913508	98.66337064	97.69704269	96.74958071	95.82043632	94.90908222	94.01501117
190809A00020	8/9/2019	2.44	8/9/2034	116.61527	107.4168373	99.0263657	91.3684206	84.37497516	77.98465123	72.14203859	66.797087	61.90456296
190809A00021	8/9/2019	2.12	8/9/2029	108.55138	104.4516692	100.5300395	96.77781162	93.18677673	89.74916834	86.45763583	83.30521987	80.28532941
190813A00051	8/13/2019	2.19	8/13/2029	108.15227	104.2380262	100.4932093	96.90950407	93.47904997	90.1944155	87.04857244	84.03487148	81.14701952
190813A00052	8/13/2019	2.24	8/13/2029	108.3506	104.4307893	100.6806208	97.09177112	93.65637004	90.36697708	87.21655546	84.19844776	81.30635318
190814A00003	8/14/2019	2.01	8/14/2029	108.12868	104.0240379	100.0982517	96.34257951	92.7487547	89.30895727	86.01578727	82.8622398	79.8416818
190819A00030	8/19/2019	2.01	8/20/2029	108.15967	104.0382284	100.0969199	96.32691428	92.71986173	89.26786526	85.96345343	82.79955507	79.76947555
190820A00021	8/20/2019	2.13	8/20/2029	108.35688	104.2397592	100.3023244	96.53577771	92.93179888	89.48251847	86.1804907	83.01866821	79.99037856
190823A00009	8/23/2019	1.8	8/23/2029	103.64634	101.5513423	99.52285885	97.55822185	95.65489142	93.81044769	92.02258418	90.28910174	88.60790276
190826A00018	8/26/2019	1.9	8/27/2029	107.7418	103.6100355	99.65960315	95.88158268	92.26753799	88.80949235	85.49990072	82.33162384	79.29790415
190826A00030	8/26/2019	1.72	8/26/2026	101.54988	100.4712925	99.41551048	98.38181335	97.36951397	96.37795349	95.40649985	94.45454646	93.52151088
190826A00032	8/26/2019	1.72	8/24/2029	103.52161	101.4043118	99.35456207	97.36964817	95.44698363	93.58410443	91.77866225	90.0284182	88.33123699
190826A00057	8/26/2019	1.87	8/26/2025	100.10005	100.0279307	99.95592172	99.88402526	99.81224101	99.74056871	99.6690081	99.59755893	99.52622094
190826A00058	8/26/2019	1.91	8/26/2026	101.68058	100.6023565	99.54690025	98.51350003	97.50147024	96.5101534	95.53891872	94.58716084	93.65429848
190826A00060	8/26/2019	2.02	8/26/2027	103.93652	101.8592717	99.83392336	97.85882914	95.93241174	94.05315531	92.21960248	90.43035167	88.68405443
190826A00063	8/26/2019	2.05	8/28/2028	106.11121	103.0064387	100.0088128	97.11402727	94.31797494	91.6167379	89.00657756	86.48392529	84.04537354
190826A00065	8/26/2019	2.09	8/28/2029	108.23427	104.0981384	100.1432946	96.36082374	92.74229845	89.27975014	85.96564117	82.79283906	79.75459241
190828A00015	8/28/2019	2.04	8/28/2029	108.02806	103.8961412	99.9453776	96.16685793	92.55216013	89.09332045	85.78280592	82.6134885	79.57862103
190828A00019	8/28/2019	2	3/28/2028	105.13232	102.4556848	99.86069306	97.3443357	94.90374004	92.53615897	90.23896441	88.00964126	85.84578163
190828A00020	8/28/2019	1.95	5/28/2027	103.28674	101.4587997	99.67196893	97.9250749	96.21698621	94.54661112	92.91289581	91.3148228	89.75140946
190829A00032	8/29/2019	1.69	8/28/2026	100.79768	100.2116271	99.63426562	99.06537742	98.50475517	97.9521987	97.40751465	96.87051622	96.34102279
190829A00039	8/29/2019	1.85	8/29/2034	107.35413	102.6150838	98.17368343	94.00792272	90.09761133	86.42420932	82.97068036	79.72135896	76.66183031

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
190829A00045	8/29/2019	1.9	8/28/2026	101.67938	100.5957033	99.5350279	98.49662449	97.47979751	96.48388009	95.50823259	94.5522412	93.61531668
190830A00002	8/30/2019	1.93	8/28/2026	101.71205	100.628188	99.56732534	98.52873747	97.51172871	96.51563212	95.53980799	94.58364246	93.64654623
190905A00019	9/5/2019	2.08	9/5/2029	107.81781	103.8605518	100.0766565	96.4575109	92.99497919	89.681376	86.50943852	83.47230065	80.56346885
190905A00021	9/5/2019	2.08	9/5/2029	107.81781	103.8605518	100.0766565	96.4575109	92.99497919	89.681376	86.50943852	83.47230065	80.56346885
190905A00023	9/5/2019	2.08	9/5/2029	107.81781	103.8605518	100.0766565	96.4575109	92.99497919	89.681376	86.50943852	83.47230065	80.56346885
190905A00024	9/5/2019	2.08	9/5/2029	107.81781	103.8605518	100.0766565	96.4575109	92.99497919	89.681376	86.50943852	83.47230065	80.56346885
190905A00025	9/5/2019	2.08	9/5/2029	107.81781	103.8605518	100.0766565	96.4575109	92.99497919	89.681376	86.50943852	83.47230065	80.56346885
190910A00044	9/10/2019	2.02	9/10/2026	101.99817	100.8168427	99.66307292	98.53590615	97.43442757	96.35776397	95.30508132	94.27558269	93.26850615
190911A00016	9/11/2019	1.9	9/11/2029	103.99168	101.8235878	99.72575121	97.69530538	95.72952711	93.82582345	91.98172456	90.19487696	88.46303722
190913A00018	9/13/2019	2.11	9/11/2026	101.07646	100.4504436	99.83429127	99.22774535	98.630557	98.04248646	97.46330257	96.89278239	96.33071084
190923A00012	9/23/2019	2.43	9/25/2034	116.64319	107.3228534	98.83120905	91.08997036	84.0286352	77.58367225	71.69779861	66.31933581	61.40163512
190923A00020	9/23/2019	2.05	9/24/2029	108.51231	104.28756	100.2509001	96.39293054	92.70477721	89.17805753	85.8048502	82.57766702	79.48942664
190925A00009	9/25/2019	2	9/25/2026	102.01459	100.8146055	99.64336392	98.49983447	97.38303662	96.29203572	95.22594033	94.18389977	93.16510182
190926A00002	9/30/2019	2.01	9/29/2034	108.22272	103.36271	98.81276872	94.54963678	90.55199667	86.80029745	83.27659564	79.96441145	76.84859875
190926A00015	9/26/2019	2.32	11/26/2030	111.44402	105.99803	100.8523078	95.98876831	91.39050591	87.04171114	82.92759408	79.03431368	75.34891222
190926A00016	9/26/2019	2.28	5/24/2030	110.44811	105.5293549	100.8591038	96.4235256	92.20963178	88.20521862	84.3988156	80.77963761	77.33754054
190926A00017	9/26/2019	2.23	9/26/2029	108.97702	104.745744	100.7027162	96.83853105	93.14430897	89.61166203	86.23266392	82.99982175	79.90604974
190930A00071	9/30/2019	2.05	9/29/2025	100.26095	100.0946198	99.92883668	99.76360203	99.59891315	99.43476736	99.27116199	99.10809439	98.94556193
190930A00075	9/30/2019	2.19	9/29/2027	104.51285	102.3357927	100.2147991	98.14803152	96.13372381	94.17018198	92.25578049	90.38895885	88.56821847
190930A00077	9/30/2019	2.23	9/28/2029	108.98845	104.7514068	100.7030705	96.83400492	93.13529921	89.59853687	86.21576511	82.9794665	79.88253251
191004A00001	10/4/2019	2.47	10/4/2034	116.35874	107.0617688	98.59225045	90.87192034	83.83030432	77.40390561	71.53548079	66.17339428	61.27104253
191004A00002	10/4/2019	2.08	10/4/2029	108.38701	104.1463339	100.0953113	96.22441783	92.52466636	88.98757018	85.60511206	82.36971538	79.27421722
191004A00003	10/4/2019	1.89	10/5/2026	101.85407	100.6658619	99.5052478	98.37127512	97.26303495	96.17965929	95.12031877	94.08422057	93.07060638
191004A00017	10/4/2019	2.02	10/4/2029	107.70148	103.6782077	99.83406795	96.16002025	92.64753946	89.28857913	86.0755415	83.00124965	80.05892156
191004A00019	10/4/2019	2.02	10/4/2029	107.70148	103.6782077	99.83406795	96.16002025	92.64753946	89.28857913	86.0755415	83.00124965	80.05892156
191004A00022	10/4/2019	2.02	10/4/2029	107.70148	103.6782077	99.83406795	96.16002025	92.64753946	89.28857913	86.0755415	83.00124965	80.05892156
191004A00023	10/4/2019	2.02	10/4/2029	107.70148	103.6782077	99.83406795	96.16002025	92.64753946	89.28857913	86.0755415	83.00124965	80.05892156
191004A00032	10/4/2019	2.01	1/3/2028	104.667	102.2288518	99.85986113	97.55767659	95.32004527	93.14480369	91.02987375	88.97325877	86.97303982
191007A00029	10/7/2019	1.88	10/9/2029	107.86776	103.6158696	99.55501995	95.67557642	91.96845032	88.42506129	85.03730566	81.79752701	78.69848877
191008A00007	10/8/2019	1.67	10/9/2029	103.55788	101.3572276	99.22901476	97.17024734	95.17808105	93.24980933	91.38285563	89.57476625	87.82320358
191008A00014	10/8/2019	1.85	10/8/2026	101.93941	100.6860183	99.46086417	98.26299514	97.0914973	95.9454976	94.82416149	93.72669083	92.65232188
191009A00009	10/9/2019	1.8	10/9/2026	100.94579	100.2793659	99.6241454	98.9798182	98.3460837	97.72265291	97.10924791	96.50560126	95.91145553
191011A00027	10/11/2019	1.84	10/11/2029	103.93965	101.7307154	99.59449478	97.5279886	95.52834115	93.59283498	91.71888324	89.90402243	88.14590562

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
191015A00025	10/15/2019	2.01	10/15/2029	104.16475	101.9533891	99.81476024	97.7458673	95.74385572	93.80600905	91.92974129	90.11258965	88.35220782
191017A00022	10/17/2019	2.25	7/17/2028	106.48682	103.4888818	100.5913101	97.79019953	95.08181825	92.46260019	89.92913664	87.47816841	85.10657835
191017A00026	10/17/2019	2.3	7/17/2029	108.86095	104.8248152	100.9613361	97.26222353	93.71963209	90.3261321	87.07468547	83.95862289	80.97162259
191021A00021	10/21/2019	2.22	12/21/2027	105.10285	102.6940379	100.3526011	98.07628546	95.86292458	93.71043682	91.61682153	89.58015533	87.59858873
191025A00009	10/25/2019	2.26	5/25/2029	108.39647	104.513695	100.7914304	97.22220932	93.79895161	90.51494203	87.36380957	84.33950788	81.43629697
191025A00010	10/25/2019	2.24	7/25/2028	106.5026	103.4830678	100.5653369	97.74541313	95.01948547	92.3839134	89.83521833	87.37007536	84.98530558
191031A00033	10/31/2019	2.2	5/31/2028	106.05919	103.1957664	100.4243427	97.74148702	95.14391273	92.62847287	90.19215336	87.83206666	85.5454458
191101A00004	11/1/2019	1.91	11/1/2029	107.13276	103.3161418	99.66821593	96.1805304	92.8451018	89.65438746	86.60125879	83.67897642	80.88116689
191101A00005	11/1/2019	1.83	11/2/2026	102.13713	100.8267512	99.53961501	98.27515867	97.03283262	95.81210472	94.61245946	93.4333974	92.27443449
191104A00022	11/4/2019	2.17	8/4/2027	104.11421	102.0941218	100.1236171	98.20116175	96.32528305	94.49456372	92.70763958	90.96319711	89.25997123
191104A00023	11/4/2019	2.24	8/4/2028	106.56061	103.5134244	100.5697631	97.72553081	94.97682178	92.31990687	89.75122421	87.26737075	84.86509415
191104A00024	11/4/2019	2.26	8/3/2029	108.79401	104.7138095	100.8100284	97.07410934	93.49795262	90.07389291	86.7946735	83.65342222	80.64362903
191104A00025	11/4/2019	2.33	8/2/2030	111.01276	105.8916741	101.0386777	96.438333	92.07617511	87.9386413	84.01301003	80.28734449	76.75044016
191105A00007	11/5/2019	1.98	11/5/2026	102.2186	100.944152	99.69949844	98.48360032	97.29546331	96.1341387	94.99872077	93.8883444	92.80218279
191105A00012	11/5/2019	2.07	11/3/2034	108.56839	103.6510447	99.04992	94.74111408	90.70273776	86.91472874	83.35868591	80.01771973	76.87631706
191106A00022	11/6/2019	2.34	1/2/2030	109.98506	105.4670332	101.1611623	97.05639951	93.1423267	89.40911823	85.84750426	82.44873645	79.20455601
191108A00013	11/8/2019	2.25	11/8/2029	109.60673	105.2369059	101.0662648	97.0846373	93.28243607	89.65061507	86.18063553	82.86443439	79.69439502
191108A00014	11/8/2019	2.25	11/8/2029	109.60673	105.2369059	101.0662648	97.0846373	93.28243607	89.65061507	86.18063553	82.86443439	79.69439502
191112A00022	11/12/2019	2.36	11/13/2029	109.28834	105.1270367	101.1548445	97.36212858	93.73979297	90.27925019	86.97239003	83.81155064	80.7894914
191112A00023	11/12/2019	2.36	11/13/2029	109.28834	105.1270367	101.1548445	97.36212858	93.73979297	90.27925019	86.97239003	83.81155064	80.7894914
191113A00013	11/13/2019	2.17	11/13/2026	102.56372	101.222531	99.90557182	98.61223783	97.34194651	96.09413406	94.86825467	93.66377982	92.48019759
191115A00028	11/15/2019	2.34	9/28/2029	109.45155	105.2048521	101.147174	97.2690666	93.56160688	90.01636683	86.62538265	83.38112645	80.27647971
191115A00029	11/15/2019	2.07	11/15/2029	104.31865	102.0939063	99.94304936	97.86300184	95.85083637	93.90376857	92.01914897	90.1944555	88.42728649
191115A00030	11/15/2019	2.35	11/9/2029	109.73184	105.3656916	101.1984032	97.21983205	93.42041476	89.79112707	86.32344998	83.0093385	79.84119243
191120A00005	11/20/2019	2.63	11/20/2034	117.945	108.4587203	99.82535747	91.9634247	84.79961555	78.26794764	72.30899686	66.86921526	61.90032292
191120A00006	11/20/2019	2.67	11/20/2035	119.19706	108.7363199	99.30357141	90.7917791	83.10558054	76.15995703	69.87906408	64.1951994	59.0478915
191120A00024	11/20/2019	2.23	11/16/2029	109.25098	104.8757972	100.7008133	96.71581345	92.91115587	89.27774041	85.80697506	82.49074475	79.32138214
191121A00009	11/21/2019	2.55	11/21/2036	119.10558	107.7090533	97.53077958	88.43327169	80.29523256	73.00957471	66.48169124	60.62794461	55.37434509
191121A00010	11/21/2019	2.59	11/20/2037	119.74713	107.447837	96.5634498	86.92242439	78.3748655	70.78969474	64.0522032	58.06193302	52.73084232
191121A00034	11/21/2019	2.28	11/2/2029	109.38974	105.0502635	100.9077152	96.95206419	93.17384774	89.56413845	86.11451037	82.81700768	79.66411553
191122A00003	11/22/2019	2.32	11/22/2039	113.73739	104.1033406	95.54587453	87.93021518	81.13965043	75.07298688	69.64237908	64.77147494	60.39382977
191122A00018	11/26/2019	3.11	11/22/2039	126.9228	112.542343	100.0259801	89.11844263	79.60078095	71.28502606	64.00966163	57.63577736	52.04379844
191122A00020	11/26/2019	3.2	11/23/2037	126.21117	113.5806855	102.38856	92.46137278	83.64750502	75.81429977	68.84560285	62.63963323	57.10713753

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
191122A00021	11/26/2019	3.4	11/22/2038	129.57247	115.8685392	103.8274914	93.23559894	83.90774311	75.68345141	68.42350032	62.00700134	56.32889948
191125A00036	11/25/2019	2.29	11/23/2029	109.55116	105.1501575	100.9512681	96.94416947	93.11911826	89.46691667	85.97887896	82.64680022	79.46292726
191126A00026	11/26/2019	1.91	11/25/2026	102.25148	100.9302012	99.63374198	98.36143621	97.1126397	95.88673118	94.68311131	93.5012017	92.34044395
191203A00009	12/3/2019	2.21	12/3/2029	108.75032	104.5562709	100.5551163	96.73691379	93.09228168	89.61236905	86.28882281	83.11375713	80.0797248
191203A00010	12/3/2019	2.21	12/3/2029	108.75032	104.5562709	100.5551163	96.73691379	93.09228168	89.61236905	86.28882281	83.11375713	80.0797248
191203A00011	12/3/2019	2.21	12/3/2029	108.75032	104.5562709	100.5551163	96.73691379	93.09228168	89.61236905	86.28882281	83.11375713	80.0797248
191206A00005	12/6/2019	2.18	12/7/2026	102.72677	101.3204527	99.94064451	98.58666183	97.25784146	95.95354245	94.67314518	93.41605047	92.18167877
191206A00008	12/6/2019	2.44	12/6/2030	112.12941	106.6383972	101.4512696	96.5496652	91.91642222	87.53549367	83.39186978	79.47150587	75.76125577
191206A00009	12/6/2019	2.87	12/4/2037	122.24818	109.8244548	98.82605783	89.08030472	80.43629696	72.76207685	65.94216421	59.87542406	54.47321933
191206A00013	12/6/2019	3.05	12/6/2044	138.0305	118.5776826	102.3387271	88.75061608	77.35253647	67.76681289	59.68348421	52.84780984	47.05013729
191209A00005	12/9/2019	2.22	12/10/2029	108.21584	104.2922129	100.5454655	96.96654895	93.54693031	90.27855767	87.15383063	84.16557242	81.30700404
191220A00001	12/20/2019	2.62	12/19/2031	114.54244	107.9645669	101.8114261	96.05337852	90.66300152	85.61490868	80.88558889	76.45325897	72.29772856
191220A00002	12/20/2019	3.02	12/20/2038	124.72062	111.2588388	99.44911212	89.07733023	79.95824008	71.93142382	64.85785544	58.61694953	53.10403
191223A00055	12/23/2019	2.46	12/7/2029	110.37551	105.9185083	101.6676162	97.61225645	93.74244922	90.04877368	86.522334	83.15472744	79.93801456
191223A00056	12/23/2019	2.46	12/14/2029	110.41508	105.9384561	101.669662	97.5979956	93.71335626	90.00621133	86.46756153	83.08890839	79.86222383
191224A00002	12/24/2019	2.17	12/24/2029	104.708	102.4003678	100.1710571	98.01674964	95.93429387	93.92069374	91.97310016	90.08880274	88.26522207
191226A00019	12/26/2019	2.4	12/22/2028	107.9463	104.4954698	101.1737112	97.97552474	94.89567682	91.92918312	89.07129549	86.31748942	83.66345234
191226A00020	12/26/2019	2.44	12/21/2029	110.36581	105.8714912	101.5866766	97.5005283	93.6028265	89.88392848	86.33473316	82.94664796	79.71155779
200103A00002	1/3/2020	2.07	1/3/2030	107.99116	104.0185151	100.2274931	96.60867119	93.15316927	89.85261543	86.69911414	83.68521644	80.80389221
200109A00006	1/9/2020	1.95	1/9/2030	104.43938	102.0936812	99.82885509	97.64142816	95.52810492	93.48575442	91.51140096	89.60221531	87.75550644
200109A00008	1/9/2020	1.95	1/9/2030	104.43938	102.0936812	99.82885509	97.64142816	95.52810492	93.48575442	91.51140096	89.60221531	87.75550644
200110A00037	1/10/2020	2.32	1/10/2030	109.39714	105.09424	100.9932784	97.08362303	93.35525866	89.79874914	86.4052009	83.16622873	80.07392391
200110A00038	1/10/2020	2.32	1/10/2030	109.39714	105.09424	100.9932784	97.08362303	93.35525866	89.79874914	86.4052009	83.16622873	80.07392391
200110A00039	1/10/2020	2.32	1/10/2030	109.39714	105.09424	100.9932784	97.08362303	93.35525866	89.79874914	86.4052009	83.16622873	80.07392391
200110A00043	1/10/2020	2.32	1/10/2030	109.39714	105.09424	100.9932784	97.08362303	93.35525866	89.79874914	86.4052009	83.16622873	80.07392391
200115A00013	1/15/2020	2.18	1/15/2030	107.40307	103.7931312	100.3426272	97.04342179	93.88784473	90.86866136	87.97904516	85.21255238	82.5630983
200116A00012	1/16/2020	2.16	1/19/2027	102.97267	101.4496029	99.95701889	98.49407226	97.059945	95.65384892	94.27502423	92.92273831	91.59628443
200124A00008	1/24/2020	1.92	1/22/2027	102.59762	101.1209038	99.67287711	98.25277499	96.85986164	95.49342666	94.15278391	92.83727046	91.54624563
200130A00046	1/30/2020	1.81	1/29/2027	101.23331	100.4011616	99.58375425	98.78068672	97.99156988	97.21602907	96.45370343	95.70424525	94.96731937
200131A00032	1/31/2020	2.1	1/31/2030	109.04073	104.466791	100.1115496	95.96341439	92.01146521	88.24541436	84.65556673	81.23278247	77.96844231
200203A00046	2/3/2020	1.98	2/3/2040	109.56791	102.3572547	95.81848945	89.87874073	84.47382043	79.54711799	75.04864092	70.93418378	67.16460754
200204A00012	2/4/2020	1.98	2/4/2027	102.66123	101.1499652	99.66860679	98.21634541	96.79239785	95.39600853	94.02644827	92.6830131	91.36502324
200206A00027	2/6/2020	2.15	2/6/2030	108.77433	104.430861	100.2937615	96.35203187	92.59532132	89.01388564	85.59854807	82.34066303	79.23208236

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200206A00031	2/6/2020	2.15	2/6/2030	108.77433	104.430861	100.2937615	96.35203187	92.59532132	89.01388564	85.59854807	82.34066303	79.23208236
200206A00032	2/6/2020	2.15	2/6/2030	108.77433	104.430861	100.2937615	96.35203187	92.59532132	89.01388564	85.59854807	82.34066303	79.23208236
200206A00033	2/6/2020	2.15	2/6/2030	108.77433	104.430861	100.2937615	96.35203187	92.59532132	89.01388564	85.59854807	82.34066303	79.23208236
200207A00017	2/7/2020	1.96	2/8/2027	102.6579	101.134815	99.64198905	98.1785968	96.74384044	95.33695053	93.95718476	92.6038267	91.27618472
200207A00018	2/7/2020	2.14	2/7/2030	109.26344	104.6637555	100.2847382	96.11464706	92.1424284	88.35767122	84.75056648	81.31186903	78.03286222
200210A00005	2/10/2020	1.77	2/10/2027	102.48549	100.9560548	99.45709598	97.98777831	96.54729494	95.1348679	93.74974675	92.39120741	91.05855097
200212A00013	2/12/2020	1.98	2/12/2027	102.8189	101.2419343	99.69722159	98.18383469	96.70088156	95.247504	93.82287591	92.42620186	91.05671557
200220A00013	2/20/2020	2.09	12/14/2029	108.7786	104.3377472	100.1035265	96.06527884	92.21295183	88.53705867	85.02864371	81.67924993	78.4808888
200220A00014	2/20/2020	2.09	12/21/2029	108.81101	104.3508272	100.0989954	96.04472451	92.17784097	88.4887461	84.9683807	81.60819202	78.40010287
200220A00026	2/20/2020	2.22	2/21/2040	111.28116	103.3455637	96.18421768	89.7099376	83.84627084	78.5260869	73.69036263	69.28713428	65.27059256
200221A00012	2/21/2020	2.14	2/21/2040	110.64073	102.7526575	95.63422599	89.1987666	83.37027858	78.08202877	73.27534382	68.89856834	64.90616519
200221A00023	2/21/2020	2.05	12/7/2029	108.57004	104.1523447	99.93944015	95.9208038	92.08650837	88.42718312	84.93397985	81.59854112	78.41297066
200221A00024	2/21/2020	2.05	12/28/2029	108.66494	104.189363	99.9237207	95.85710543	91.97922701	88.28037912	84.7514032	81.38365469	78.16897165
200225A00017	2/25/2020	1.94	2/25/2030	108.4426	103.8083257	99.39871031	95.20168329	91.20588827	87.40063609	83.77586194	80.3220854	77.03037337
200225A00018	2/25/2020	1.94	2/25/2030	108.4426	103.8083257	99.39871031	95.20168329	91.20588827	87.40063609	83.77586194	80.3220854	77.03037337
200225A00028	2/25/2020	1.89	12/21/2029	107.92255	103.4818764	99.24889187	95.21283663	91.36356352	87.69149903	84.18760787	80.84336005	77.65070005
200225A00029	2/25/2020	1.89	12/28/2029	107.95108	103.4912416	99.24080542	95.18888474	91.32521092	87.64009808	84.12440707	80.76951183	77.567268
200225A00049	2/25/2020	1.79	2/24/2040	108.17596	101.0661096	94.61682611	88.75671379	83.42285389	78.55972839	74.11828639	70.05513502	66.33183744
200226A00009	2/26/2020	1.75	2/26/2030	107.901	103.2659623	98.85617823	94.65952334	90.66459074	86.86064488	83.23757835	79.78587162	76.4965557
200227A00004	2/27/2020	1.65	2/27/2030	107.44215	102.814659	98.41230979	94.22297801	90.23525335	86.4383976	82.82230127	79.37744333	76.09485374
200227A00030	2/27/2020	1.59	2/27/2026	100.68989	100.1072747	99.53137523	98.96207807	98.39927025	97.84284139	97.29268359	96.74869137	96.2107616
200227A00046	2/27/2020	1.52	3/1/2027	100.99734	100.1627979	99.34309613	98.53782764	97.74659863	96.96903011	96.2047571	95.45342803	94.71470406
200228A00025	2/28/2020	1.57	3/2/2027	102.18032	100.5966117	99.04507846	97.52480613	96.03491645	94.57456386	93.14293391	91.73924185	90.36273122
200228A00026	2/28/2020	2.14	2/28/2035	113.53944	104.0019858	95.35035753	87.4974568	80.36516558	73.88338178	67.98915977	62.62594688	57.74290489
200228A00059	2/28/2020	1.79	2/28/2030	107.76335	103.1357489	98.73304292	94.54312292	90.55459947	86.75675365	83.13949378	79.69331528	76.40926327
200228A00071	2/28/2020	1.74	12/14/2029	107.23057	102.8235632	98.62204694	94.61541163	90.79365034	87.14731968	83.66750522	80.34578923	77.17422053
200228A00091	2/28/2020	1.72	12/7/2029	107.11685	102.7307984	98.5484692	94.55939068	90.75367792	87.12200048	83.65554846	80.34600092	77.1854963
200302A00036	3/2/2020	1.45	3/2/2026	100.61594	100.0253769	99.44171764	98.86484593	98.29464389	97.73099643	97.17379106	96.62291788	96.07826947
200303A00012	3/3/2020	1.71	3/1/2030	107.39606	102.7742218	98.37722204	94.19294616	90.2099997	86.41765937	82.80582981	79.36500337	76.08622265
200303A00028	3/3/2020	1.54	3/4/2030	105.74245	101.7197058	97.88623784	94.23194065	90.74731153	87.42340864	84.2518145	81.22460202	78.33430304
200304A00010	3/4/2020	1.2	3/4/2027	101.7063	100.1193121	98.56467276	97.04146246	95.54879486	94.08581673	92.65170643	91.2456724	89.86695175
200304A00030	3/4/2020	1.6	12/22/2028	105.1984	101.7946575	98.51867795	95.36501571	92.32848165	89.40413412	86.58726576	83.87339116	81.25823518
200304A00032	3/4/2020	1.6	12/15/2028	105.17056	101.7858156	98.52747959	95.39018683	92.36882815	89.45853678	86.65467548	83.95282454	81.34877036

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200304A00052	3/6/2020	2.11	3/8/2027	103.08291	101.475681	99.90129983	98.35882338	96.84734743	95.36600186	93.91394887	92.49038157	91.09452244
200304A00054	3/6/2020	2.35	3/8/2027	103.47182	101.8613272	100.2837415	98.73811719	97.2235485	95.7391638	94.2841239	92.85762049	91.45887474
200305A00030	3/5/2020	1.58	3/5/2030	106.80536	102.1865272	97.79300385	93.61262756	89.63395432	85.84621584	82.2392759	78.80358972	75.53016619
200305A00032	3/5/2020	1.58	3/5/2030	106.80536	102.1865272	97.79300385	93.61262756	89.63395432	85.84621584	82.2392759	78.80358972	75.53016619
200305A00035	3/5/2020	1.25	3/5/2026	100.50348	99.90510635	99.31383633	98.72954299	98.15210339	97.58139746	97.01730791	96.45972018	95.90852233
200305A00036	3/5/2020	1.36	3/5/2027	101.85554	100.2665708	98.70999558	97.18488973	95.69036517	94.22556705	92.78967213	91.38188737	90.00144845
200305A00037	3/5/2020	1.43	3/6/2028	103.51283	100.9164727	98.39812641	95.9549716	93.5843101	91.28355905	89.05024502	86.88199862	84.77654934
200305A00038	3/5/2020	1.51	3/5/2029	105.1926	101.5878199	98.12535018	94.79879904	91.60209557	88.5294755	85.57546372	82.73485802	80.00271376
200305A00039	3/5/2020	1.58	3/5/2030	106.80536	102.1865272	97.79300385	93.61262756	89.63395432	85.84621584	82.2392759	78.80358972	75.53016619
200306A00001	3/6/2020	1.11	3/6/2026	100.4209	99.82008572	99.22643383	98.63982065	98.06012152	97.48721472	96.92098137	96.36130536	95.80807323
200306A00014	3/6/2020	1.38	3/6/2030	105.87845	101.2782484	96.90285625	92.74011657	88.77859888	85.00754828	81.41684173	77.99694739	74.73888687
200306A00022	3/6/2020	1.2	3/8/2027	101.60829	100.013439	98.45120844	96.92066767	95.42091841	93.95109615	92.51036857	91.09793399	89.71301996
200306A00048	3/6/2020	1.04	3/6/2035	103.49854	98.65242514	94.12771705	89.89940591	85.94464535	82.24254853	78.77400578	75.52152046	72.46906093
200306A00050	3/6/2020	0.87	3/6/2030	101.95583	99.58409286	97.29658832	95.08960987	92.95963936	90.90333834	88.91753765	86.99922763	85.14554901
200306A00057	3/6/2020	0.92	3/8/2027	101.2795	99.68786334	98.12967855	96.60395103	95.10972231	93.6460719	92.21211536	90.80700249	89.42991568
200306A00058	3/6/2020	1.06	3/6/2030	102.24915	99.87345442	97.58204718	95.37122408	93.23746763	91.1774399	89.18797201	87.26605446	85.40882797
200306A00064	3/6/2020	1.2	3/8/2027	101.60829	100.013439	98.45120844	96.92066767	95.42091841	93.95109615	92.51036857	91.09793399	89.71301996
200306A00065	3/6/2020	1.38	3/6/2030	105.87845	101.2782484	96.90285625	92.74011657	88.77859888	85.00754828	81.41684173	77.99694739	74.73888687
200306A00066	3/6/2020	1.2	3/8/2027	101.60829	100.013439	98.45120844	96.92066767	95.42091841	93.95109615	92.51036857	91.09793399	89.71301996
200309A00007	3/9/2020	1.11	3/9/2027	101.46577	99.8694623	98.30584713	96.77398659	95.27297925	93.80195761	92.36008651	90.94656162	89.56060798
200309A00021	3/9/2020	1.05	3/9/2026	100.38922	99.78033263	99.17880754	98.58451415	97.99732255	97.41710594	96.84374052	96.27710541	95.71708255
200309A00030	3/9/2020	1.11	3/9/2027	101.46577	99.8694623	98.30584713	96.77398659	95.27297925	93.80195761	92.36008651	90.94656162	89.56060798
200309A00033	3/9/2020	1.06	3/9/2026	100.39535	99.78644193	99.18489582	98.59058158	98.00336931	97.4231322	96.84974646	96.28309119	95.72304834
200309A00034	3/9/2020	0.96	3/9/2035	103.09706	98.26970471	93.76251838	89.5505876	85.61115328	81.92340847	78.46831665	75.22844819	72.18783293
200309A00038	3/9/2020	1.26	3/11/2030	105.33102	100.7303309	96.35519573	92.19338343	88.23339533	84.46441436	80.87626077	77.45935097	74.2046594
200309A00081	3/9/2020	1.18	3/8/2030	104.59887	100.3137938	96.23614479	92.35466858	88.65879091	85.13856852	81.78464775	78.58822604	75.54101623
200309A00082	3/9/2020	1.18	3/8/2030	104.59887	100.3137938	96.23614479	92.35466858	88.65879091	85.13856852	81.78464775	78.58822604	75.54101623
200309A00084	3/9/2020	1.06	3/9/2027	101.4361	99.80474601	98.20782577	96.64430724	95.11320183	93.61356015	92.14447009	90.70505492	89.29447154
200310A00005	3/10/2020	1.41	3/8/2030	106.02297	101.4142148	97.03086023	92.86070696	88.89228513	85.11480347	81.51810531	78.09262773	74.82936357
200310A00015	3/10/2020	1.37	3/11/2030	105.84398	101.2314943	96.8449704	92.67216646	88.70156661	84.92233744	81.32428368	77.89780702	74.63386787
200310A00034	3/10/2020	1.41	3/11/2030	106.03052	101.4137355	97.02307028	92.84626938	88.87181072	85.08885493	81.48720111	78.05724559	74.78994368
200310A00038	3/10/2020	1.41	3/11/2030	106.03052	101.4137355	97.02307028	92.84626938	88.87181072	85.08885493	81.48720111	78.05724559	74.78994368
200310A00040	3/10/2020	1.36	3/10/2028	103.34375	100.7390442	98.21285579	95.76234043	93.38477293	91.0775451	88.83815973	86.66422511	84.55344971

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200310A00041	3/10/2020	1.39	3/12/2029	104.78013	101.1643441	97.69198431	94.35657728	91.15197778	88.07235256	85.11216251	82.26614595	79.52930304
200310A00042	3/10/2020	1.41	3/11/2030	106.03052	101.4137355	97.02307028	92.84626938	88.87181072	85.08885493	81.48720111	78.05724559	74.78994368
200310A00051	3/10/2020	1.41	3/8/2030	106.02297	101.4142148	97.03086023	92.86070696	88.89228513	85.11480347	81.51810531	78.09262773	74.82936357
200310A00073	3/12/2020	2.12	3/11/2027	103.11745	101.5019245	99.91951851	98.36928097	96.85029635	95.36168367	93.90259495	92.47221356	91.06975283
200311A00015	3/11/2020	1.26	3/11/2027	101.77714	100.1364686	98.53050217	96.95820185	95.41856845	93.9106426	92.43350266	90.9862629	89.56807167
200311A00026	3/11/2020	1.34	3/11/2030	105.17008	100.9686336	96.96893324	93.1600752	89.531809	86.07449494	82.77906408	79.63698092	76.64020888
200311A00031	3/11/2020	1.41	12/24/2027	103.15586	100.7629363	98.43730419	96.17669964	93.97895101	91.84197195	89.76375757	87.74238067	85.77598831
200311A00050	3/2/2021	1.46	3/2/2026	100.62188	100.0312934	99.44761434	98.87072294	98.30050138	97.73683455	97.17960998	96.62871775	96.08405044
200311A00055	3/11/2020	1.66	12/17/2027	103.73037	101.3489858	99.03404488	96.78332852	94.59470762	92.46613611	90.39564715	88.38134957	86.42142454
200312A00009	3/12/2020	1.46	3/12/2027	102.04676	100.4375978	98.86148922	97.31747834	95.8046501	94.32212411	92.86905298	91.44462073	90.04804134
200316A00008	3/16/2020	1.31	3/15/2030	102.77817	100.4534815	98.20977042	96.04352326	93.95140791	91.9302603	89.97707474	88.0889948	86.26330494
200316A00050	3/16/2020	1.54	3/16/2027	102.19531	100.5742628	98.98665122	97.43150547	95.90789477	94.41492383	92.95173117	91.51748745	90.11139398
200317A00009	3/17/2020	1.61	3/16/2035	106.03068	101.0744475	96.44654736	92.12145554	88.07585312	84.28841965	80.73964726	77.41167334	74.2881297
200317A00043	3/17/2020	1.29	3/15/2030	102.98162	100.5854524	98.27441384	96.04475697	93.89292465	91.8155416	89.80940375	87.87146841	85.99884497
200318A00012	3/18/2020	1.68	3/18/2033	106.91216	101.868212	97.14424894	92.71680327	88.56430442	84.66691291	81.00637012	77.56586209	74.32989586
200319A00035	3/19/2020	1.72	3/18/2033	107.11688	102.06304	97.32979487	92.89363674	88.73295419	84.8278702	81.16009155	77.71277242	74.47039042
200323A00090	3/23/2020	1.55	3/23/2027	101.42891	100.32929	99.25113438	98.19381681	97.15673839	96.13932364	95.14101931	94.16129328	93.19963359
200326A00029	3/26/2020	1.82	3/26/2027	102.70807	101.0560081	99.43837844	97.85416736	96.30240361	94.7821536	93.29251958	91.83263783	90.40167708
200326A00032	3/26/2020	1.49	3/26/2030	103.30124	100.900104	98.58421711	96.34982471	94.19336673	92.11146497	90.10091256	88.158664	86.28182599
200326A00037	3/26/2020	1.78	3/26/2035	106.74724	101.8886947	97.34794271	93.10046568	89.12385436	85.39761004	81.90296754	78.62273579	75.54115405
200327A00037	3/27/2020	1.18	3/27/2026	100.54885	99.88970985	99.23917655	98.59708493	97.96327151	97.33757704	96.7198463	96.10992802	95.50767474
200327A00043	3/27/2020	1.48	3/27/2028	103.91908	101.2573816	98.67700444	96.17495643	93.74837391	91.39451838	89.11077006	86.89462184	84.7436735
200327A00045	3/27/2020	2.24	3/27/2034	114.55085	105.7831963	97.75938275	90.41228751	83.68117215	77.51104711	71.85210008	66.65918397	61.891358
200327A00094	3/27/2020	1.6	3/27/2030	106.04126	101.9653562	98.08327032	94.38454057	90.85933453	87.4984074	84.29306304	81.23511808	78.31686842
200330A00038	3/30/2020	1.79	3/29/2030	107.86677	103.1601506	98.68547484	94.43007659	90.3820554	86.53022216	82.86405242	79.3736431	76.04967223
200330A00045	3/30/2020	1.47	3/30/2027	102.14072	100.4829306	98.85985016	97.27045596	95.71376358	94.18882702	92.69473683	91.23061827	89.79562963
200330A00047	3/30/2020	1.5	3/30/2035	105.48886	100.5181479	95.87916965	91.54595976	87.49480844	83.70405106	80.15387686	76.82615666	73.70428783
200330A00054	3/30/2021	1.19	3/30/2026	100.5154	99.84878552	99.19097382	98.54178995	97.9010652	97.26863518	96.64433978	96.02802297	95.41953267
200330A00058	3/30/2020	1.49	3/29/2030	105.59381	101.524315	97.64864583	93.95632407	90.43750469	87.08293178	83.88389951	80.83221598	77.92016971
200330A00079	3/30/2020	1.51	3/30/2035	105.54009	100.5669641	95.92573057	91.59041409	87.53729329	83.74469304	80.19279291	76.86345494	73.74006842
200331A00016	3/31/2020	1.11	3/31/2026	100.50999	99.84007116	99.17904169	98.52672337	97.88294505	97.24754006	96.62034602	96.00120471	95.38996198
200331A00056	3/31/2020	0.96	3/29/2030	102.11918	99.800151	97.56210313	95.40151493	93.31504767	91.29953129	89.35195468	87.46945661	85.6493172
200402A00044	4/2/2020	1.65	4/2/2030	107.21996	102.5176889	98.04781696	93.79762315	89.7551561	85.9091806	82.24913044	78.76506476	75.44762741

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200406A00014	4/6/2020	1.33	4/6/2035	104.97561	100.020142	95.3958218	91.07669566	87.03907187	83.26130454	79.72360191	76.40785403	73.29747742
200406A00027	4/6/2020	1.31	4/5/2030	105.14589	101.0739322	97.19670035	93.50364627	89.98485495	86.63100488	83.43332886	80.38357758	77.47398595
200406A00029	4/6/2020	1.61	4/5/2030	106.57221	102.1614027	97.96666656	93.97615178	90.17872485	86.5639237	83.1219131	79.84344343	76.71981227
200406A00030	4/6/2020	1.61	4/5/2030	106.57221	102.1614027	97.96666656	93.97615178	90.17872485	86.5639237	83.1219131	79.84344343	76.71981227
200413A00009	4/13/2020	0.77	4/13/2027	100.48751	99.57655816	98.68236232	97.80444858	96.942365	96.09567679	95.26396547	94.44682811	93.64387655
200413A00013	4/13/2020	1.19	4/12/2030	102.61216	100.186511	97.84820275	95.59334061	93.41823458	91.31938523	89.29347249	87.33734522	85.44801143
200414A00024	4/14/2020	1.37	4/14/2027	102.09095	100.3626066	98.67230047	97.01890883	95.40134918	93.81858023	92.26959996	90.75344376	89.26918269
200415A00021	4/15/2020	1.37	4/15/2027	102.04152	100.3408162	98.676431	97.04726385	95.45226154	93.89041314	92.36074784	90.86233292	89.39427185
200415A00023	4/15/2020	1.71	4/15/2030	107.54883	102.8035544	98.29426759	94.00796749	89.93244375	86.05622301	82.3685201	78.85919262	75.5186989
200415A00024	4/15/2020	2.2	4/16/2035	114.17352	104.4916084	95.71857888	87.76408737	80.54721599	73.99544136	68.04372416	62.63370174	57.71297154
200415A00038	4/15/2020	1.37	4/15/2027	102.04152	100.3408162	98.676431	97.04726385	95.45226154	93.89041314	92.36074784	90.86233292	89.39427185
200417A00009	4/17/2020	1.35	4/16/2027	102.01128	100.3081021	98.64134298	97.00989545	95.41270204	93.84874776	92.31705799	90.81669639	89.34676305
200421A00026	4/21/2020	1.34	4/19/2030	104.99846	100.9118366	97.02171929	93.31744592	89.7889911	86.4269271	83.22238483	80.16701762	77.25296757
200421A00032	4/21/2020	1.31	4/21/2027	101.96294	100.2464957	98.56697373	96.92324943	95.31424327	93.7389195	92.19628385	90.68538147	89.20529493
200423A00017	4/23/2020	1.82	4/23/2035	111.19892	101.6029449	92.91484328	85.04389865	77.90889877	71.43709222	65.56326729	60.22893551	55.38160743
200424A00022	4/24/2020	1.39	4/24/2030	105.21553	101.1127501	97.20768122	93.48958468	89.94836415	86.57452445	83.35913255	80.29378124	77.37055532
200427A00018	4/27/2020	1.51	4/27/2028	103.94516	101.2026612	98.5460442	95.97206083	93.47760711	91.05971941	88.71556682	86.44244411	84.23776507
200428A00002	4/28/2020	1.47	4/26/2030	106.77962	102.011847	97.48307254	93.18003007	89.09026943	85.20209765	81.50452826	77.98723443	74.64050537
200428A00009	4/28/2020	1.08	4/29/2030	102.33947	99.91957764	97.58685883	95.33742582	93.16759334	91.07386663	89.05293016	87.10163725	85.21700028
200428A00018	4/28/2020	1.33	4/27/2035	104.55328	99.72591164	95.21765631	91.0036687	87.06126079	83.36969444	79.9099995	76.66480989	73.61821609
200429A00030	4/29/2020	1.41	4/29/2030	105.56446	101.2488715	97.14530108	93.2421185	89.52839287	85.99384703	82.628815	79.42420254	76.37145044
200429A00049	4/29/2020	1.25	4/29/2026	100.62415	99.8753799	99.13770302	98.41087025	97.69464405	96.98879374	96.29309531	95.60733115	94.93128982
200429A00057	4/29/2020	1.4	4/29/2027	102.15503	100.4149095	98.71258229	97.04688125	95.41668987	93.82093758	92.25859725	90.72868294	89.23024783
200429A00061	4/29/2020	1.66	10/29/2029	106.70434	102.4328138	98.35540973	94.46222756	90.74393593	87.19173177	83.79730694	80.5528172	77.45085338
200430A00009	4/30/2020	1.16	4/30/2026	100.5583	99.80708849	99.06704068	98.33791006	97.6194567	96.91144765	96.21365668	95.52586405	94.84785629
200430A00027	4/30/2020	1.31	4/30/2035	104.52773	99.56252624	94.93117684	90.60736582	86.56707737	82.78838125	79.25123641	75.93731437	72.82984023
200501A00002	5/1/2020	1.3	5/1/2035	104.47638	99.51359653	94.88450905	90.56281197	86.5245008	82.74765569	79.21224508	75.89994917	72.79400105
200504A00007	5/4/2020	1.47	5/4/2028	103.86245	101.1022804	98.4290633	95.83950754	93.33046839	90.8989425	88.54206041	86.25707946	84.04137716
200506A00010	5/6/2020	0.94	5/6/2026	100.45611	99.68828962	98.93215084	98.18742808	97.45386439	96.73121045	96.01922435	95.31767126	94.62632322
200511A00006	5/11/2020	1.65	5/13/2030	107.35018	102.5346531	97.96210837	93.61902107	89.49269391	85.57119984	81.84333104	78.29855158	74.9269534
200511A00018	5/11/2020	0.98	2/2/2026	100.29748	99.78449774	99.27673977	98.7741295	98.276589	97.78404192	97.29641342	96.81363017	96.33562027
200511A00019	5/11/2020	1.18	2/1/2027	101.42174	99.92917749	98.46608678	97.03167446	95.6251728	94.24584092	92.89296367	91.56585047	90.26383424
200511A00020	5/11/2020	1.4	2/1/2028	103.28039	100.7826566	98.35807871	96.00408961	93.71823124	91.49814652	89.34157461	87.2463463	85.21037967

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200511A00021	5/11/2020	1.53	2/1/2029	105.11176	101.6010865	98.2262968	94.98140537	91.86072773	88.85885957	85.97066135	83.1912438	80.51595429
200511A00022	5/11/2020	1.6	2/1/2030	106.76723	102.2415084	97.93297378	93.83008994	89.92199081	86.19844063	82.64979406	79.26695905	76.04136215
200511A00023	5/11/2020	1.7	2/3/2031	108.22624	102.685151	97.46097245	92.53396871	87.88573127	83.49908368	79.35799293	75.44748754	71.75358208
200512A00001	5/12/2020	1.17	5/12/2027	101.83404	100.0361615	98.27931909	96.56233693	94.88407633	93.24343848	91.63936277	90.0708252	88.53683689
200512A00010	5/12/2020	1.48	5/10/2030	106.06235	101.5879994	97.33683137	93.2964784	89.45532202	85.80244375	82.32757941	79.02107666	75.87385544
200512A00011	5/12/2020	1.48	5/10/2030	106.06235	101.5879994	97.33683137	93.2964784	89.45532202	85.80244375	82.32757941	79.02107666	75.87385544
200512A00013	5/12/2020	1.17	5/12/2027	101.83404	100.0361615	98.27931909	96.56233693	94.88407633	93.24343848	91.63936277	90.0708252	88.53683689
200512A00014	5/12/2020	1.17	5/12/2027	101.83404	100.0361615	98.27931909	96.56233693	94.88407633	93.24343848	91.63936277	90.0708252	88.53683689
200514A00008	5/14/2020	1.23	5/14/2030	104.57479	100.4501911	96.52650256	92.79271573	89.23848551	85.85408644	82.63037235	79.55873878	76.63108815
200520A00009	5/20/2020	1.63	5/20/2038	107.46706	97.97621858	89.53021658	82.00347956	75.28639031	69.28316929	63.91004984	59.09370307	54.76987723
200521A00005	5/21/2020	0.75	5/21/2030	101.71152	99.27742566	96.93212738	94.6716156	92.49209527	90.38996948	88.36182774	86.40443499	84.51472135
200521A00013	5/21/2020	2.09	5/21/2035	113.14492	103.4263195	94.62936166	86.66165594	79.44051034	72.89187149	66.94938312	61.55355123	56.65100355
200521A00015	5/21/2020	2.14	5/21/2036	113.8041	103.1740097	93.64158071	85.08733335	77.40536549	70.50174538	64.29310494	58.70540445	53.67284711
200521A00016	5/21/2020	2.18	5/21/2037	114.058	102.5625078	92.34983674	83.26943717	75.18914516	67.99285741	61.57850798	55.85630874	50.7472179
200521A00017	5/21/2020	2.22	5/21/2038	114.34102	102.0045659	91.14570432	81.57861327	73.14173805	65.69451098	59.11453206	53.29514049	48.14332095
200522A00009	5/22/2020	0.96	5/22/2030	102.17873	99.59887663	97.11587679	94.72527425	92.42285298	90.20461908	88.06678763	86.0057704	84.01816438
200527A00012	5/27/2020	1.2	5/27/2027	101.89971	100.0875715	98.31618349	96.58438313	94.8910461	93.23508762	91.61546085	90.03115522	88.48119496
200527A00013	5/27/2020	1.13	11/25/2026	101.11678	99.80492761	98.51771472	97.25447492	96.01456947	94.79738228	93.60231902	92.42880605	91.27628956
200527A00014	5/27/2020	1.06	5/27/2026	100.54038	99.71577024	98.90461399	98.10658569	97.32136882	96.548657	95.78815351	95.03957098	94.30263097
200527A00015	5/27/2020	0.99	11/26/2025	100.17926	99.85318581	99.52923473	99.20738452	98.88761478	98.56990537	98.25423642	97.94058832	97.6289417
200529A00022	6/1/2020	0.98	6/1/2026	100.48362	99.64567689	98.82162189	98.01111594	97.21382738	96.42943528	95.65762899	94.89810781	94.15058051
200604A00012	6/4/2020	1.59	6/4/2030	107.11947	102.2513878	97.63177282	93.2467206	89.08317156	85.12885648	81.37224485	77.80249675	74.40941825
200604A00013	6/4/2020	2.21	6/4/2035	114.33059	104.5217832	95.6448519	87.60617262	80.32197033	73.71723856	67.72478248	62.28437056	57.34198204
200604A00014	6/4/2020	2.42	6/4/2040	117.94271	103.7454792	91.47072724	80.84510747	71.63551499	63.64298248	56.69752883	50.65380663	45.38742136
200608A00001	6/8/2020	1.34	6/7/2030	105.07804	100.8902906	96.90880651	93.12215359	89.5195978	86.09105556	82.82705087	79.71867548	76.75755187
200610A00006	6/10/2020	1.11	6/10/2027	101.81134	99.94327869	98.11945239	96.33854217	94.59927623	92.90042908	91.24081953	89.61930877	88.03479853
200611A00010	6/11/2020	1.08	6/11/2027	101.72865	99.87749781	98.06881489	96.30138255	94.57402313	92.88560002	91.23501601	89.62121162	88.0431636
200611A00011	6/11/2020	1.2	6/9/2028	103.222	100.3749425	97.62043312	94.95498213	92.37525322	89.87805305	87.46032435	85.11913936	82.85169364
200611A00019	6/11/2020	0.88	12/11/2025	100.16643	99.79916114	99.43458898	99.07268516	98.71342034	98.35676562	98.00269254	97.65117302	97.30217943
200612A00004	6/12/2020	1.42	6/12/2040	105.02995	97.2692806	90.28119993	83.97715848	78.27969408	73.12094857	68.44139644	64.18875071	60.31702026
200616A00005	6/16/2020	0.74	6/17/2030	101.72576	99.2363411	96.83924485	94.53024802	92.30535457	90.16077924	88.09293507	86.09842155	84.17401369
200623A00028	6/23/2020	1.23	6/23/2038	104.38504	97.93276119	92.03589169	86.63903683	81.69286865	77.15341456	72.98143329	69.14186782	65.60336533
200629A00020	6/29/2020	1.4	6/28/2030	106.24377	101.3322829	96.6749953	92.25749242	88.06624787	84.0885646	80.31251999	76.72691479	73.32122569

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200629A00021	6/29/2020	1.21	6/29/2028	103.31767	100.4147371	97.60783825	94.89329149	92.26757594	89.72732449	87.26931615	84.8904689	82.58783286
200629A00023	6/29/2020	0.95	6/29/2026	100.51505	99.60085732	98.70318863	97.82159678	96.95565336	96.10494508	95.26907306	94.44765223	93.64031074
200708A00011	7/10/2020	2.87	7/10/2031	115.48514	109.3126722	103.513863	98.06411697	92.94058466	88.12202541	83.58868644	79.32219131	75.30543741
200709A00003	7/10/2020	1.63	7/10/2026	101.18692	100.2394208	99.30959197	98.39694351	97.50100265	96.62131383	95.75743792	94.90895147	94.07544605
200709A00005	7/10/2020	2.23	7/10/2030	110.41359	105.3682549	100.5841723	96.04647382	91.74121339	87.65530417	83.77646141	80.09314919	76.59453109
200709A00006	7/10/2020	2.58	7/10/2030	112.16263	107.0742572	102.248741	97.67113825	93.32743305	89.20447271	85.28991	81.5721498	78.04029952
200709A00007	7/10/2020	1.67	7/9/2027	102.97707	101.0377932	99.14465189	97.29627064	95.49132291	93.72853043	92.00666104	90.32452669	88.68098156
200709A00008	7/10/2020	1.88	7/10/2026	101.42531	100.4765879	99.54554949	98.63170708	97.73458754	96.85373496	95.9887099	95.13908861	94.30446235
200709A00025	7/9/2020	1.37	7/9/2030	105.65617	101.0624532	96.70478443	92.56968793	88.64452643	84.91744804	81.37733325	78.01374575	74.81688687
200716A00004	7/16/2020	0.97	7/16/2027	101.63946	99.68303381	97.77481887	95.91331098	94.0970624	92.32468095	90.59482746	88.90621327	87.25759797
200720A00035	7/20/2020	1.81	7/20/2035	110.42257	100.6904795	91.89903051	83.95233191	76.76471887	70.25961436	64.36852442	59.03014892	54.18959408
200720A00042	7/22/2020	2.04	7/21/2026	101.63462	100.654797	99.69380541	98.75110732	97.82618409	96.9185365	96.02768389	95.15316328	94.29452859
200720A00044	7/22/2020	2.22	7/21/2026	101.81174	100.8309815	99.86906524	98.92545472	97.99963107	97.0910948	96.199365	95.32397845	94.46448881
200724A00011	7/24/2020	1.41	7/26/2038	105.20777	95.64972919	87.1655161	79.62386109	72.91043311	66.92555644	61.58225022	56.80453986	52.52600163
200730A00011	7/30/2020	1.15	7/28/2028	103.21958	100.2418772	97.36525629	94.58573235	91.89950465	89.30294321	86.79258009	84.36510117	82.01733839
200803A00011	8/3/2020	0.72	8/4/2025	100.00329	99.99219541	99.98111481	99.97004479	99.95898531	99.94793636	99.93689792	99.92586998	99.91485253
200811A00003	8/11/2020	0.57	8/11/2025	100.00492	99.97440642	99.94392895	99.91348666	99.88307949	99.85270736	99.82237021	99.79206797	99.76180058
200812A00004	8/12/2020	0.59	8/12/2025	100.00599	99.97269985	99.9394529	99.90624526	99.87307683	99.83994755	99.80685733	99.77380611	99.7407938
200813A00019	8/13/2020	1.44	8/13/2030	106.0454	101.3604829	96.91984717	92.70933523	88.71569145	84.92649692	81.33011205	77.91562328	74.67279383
200813A00020	8/13/2020	1.44	8/13/2030	106.0454	101.3604829	96.91984717	92.70933523	88.71569145	84.92649692	81.33011205	77.91562328	74.67279383
200813A00023	8/13/2020	0.86	10/14/2025	100.11939	99.8275918	99.53751133	99.24912954	98.96243144	98.67740222	98.39402723	98.112292	97.83218223
200814A00003	8/14/2020	0.96	8/14/2035	103.08098	98.05769316	93.3801826	89.02057685	84.95349953	81.15582423	77.60645843	74.28614961	71.17731108
200814A00009	8/18/2020	1.36	8/16/2028	103.92102	100.8822747	97.94790507	95.11374306	92.3758137	89.73032357	87.17365131	84.70233874	82.31308243
200814A00011	8/18/2020	1.58	8/16/2030	107.25032	102.1860579	97.38990639	92.8462989	88.54065384	84.45930619	80.58944506	76.91905589	73.4368668
200818A00004	8/18/2020	0.92	8/18/2026	100.59097	99.54073527	98.51227832	97.50493178	96.51805127	95.55101841	94.6032395	93.67414431	92.76318493
200818A00005	8/18/2020	1.05	8/18/2027	101.88055	99.84650294	97.86305742	95.92862446	94.0416775	92.20074876	90.40442654	88.65135259	86.94021967
200818A00006	8/18/2020	1.18	8/18/2028	103.37254	100.3369585	97.40585217	94.57504014	91.84053722	89.19854064	86.64542039	84.17771034	81.79209975
200818A00007	8/18/2020	1.31	8/20/2029	104.99316	100.9444235	97.07320367	93.37078932	89.82894304	86.43987413	83.19621189	80.09098056	77.117576
200818A00008	8/18/2020	1.5	8/18/2031	107.28202	101.2508598	95.59480217	90.28863035	85.30894868	80.6340412	76.24374268	72.11932025	68.24336461
200818A00009	8/18/2020	1.7	8/18/2033	109.11351	101.1562847	93.83583744	87.09796785	80.89334517	75.17705028	69.90816049	65.04937543	60.56667964
200818A00010	8/18/2020	1.88	8/20/2035	111.12343	101.283922	92.40143545	84.37776805	77.12525713	70.56560231	64.6288233	59.25233827	54.38014844
200818A00012	8/18/2020	0.97	8/18/2027	101.73214	99.69201588	97.70360782	95.76523976	93.87530497	92.03226122	90.23462767	88.48098184	86.76995679
200824A00020	8/26/2020	1.57	8/26/2025	100.07834	100.0062346	99.93424427	99.86236635	99.79060061	99.7189468	99.64740465	99.57597391	99.50465432

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200825A00007	8/27/2020	4.79	8/27/2026	104.81422	103.7150929	102.6391151	101.5855628	100.553739	99.54297526	98.55263057	97.58208955	96.63076141
200826A00019	8/26/2020	0.98	8/26/2026	100.67282	99.60041961	98.5507084	97.52296964	96.51651969	95.53070303	94.5648908	93.61847945	92.69088946
200826A00021	8/26/2020	0.83	8/26/2025	100.02466	99.95260301	99.88065972	99.80882878	99.73710994	99.66550294	99.59400752	99.52262342	99.45135039
200827A00007	8/27/2020	0.77	8/27/2025	100.02118	99.9463605	99.87165683	99.7970719	99.72260544	99.64825717	99.57402681	99.4999141	99.42591874
200828A00002	8/28/2020	0.73	8/28/2026	100.48019	99.4023769	98.34749863	97.31483168	96.3036812	95.31338107	94.34329237	93.39280203	92.46132156
200909A00001	9/9/2020	0.98	9/8/2028	103.02903	99.93732246	96.95365898	94.07364913	91.29310815	88.60804644	86.01465916	83.50931637	81.08855382
200910A00006	9/10/2020	0.96	9/10/2027	101.77145	99.67600936	97.63478453	95.64597355	93.70785326	91.81877176	89.97714481	88.18145242	86.43023563
200911A00011	9/11/2020	1.18	9/11/2030	104.82665	100.122685	95.66723832	91.44572646	87.4445019	83.65079039	80.05263003	76.63881497	73.39884329
200911A00012	9/11/2020	1.18	9/11/2030	104.82665	100.122685	95.66723832	91.44572646	87.4445019	83.65079039	80.05263003	76.63881497	73.39884329
200911A00013	9/11/2020	0.69	9/11/2025	100.0426	99.84391467	99.64602918	99.44894149	99.25264669	99.05713995	98.86241646	98.66847143	98.47530014
200916A00015	9/16/2020	0.72	9/16/2025	100.03058	99.90045292	99.77068342	99.6412658	99.5121986	99.38348036	99.25510962	99.12708494	98.99940489
200922A00015	9/24/2020	1.09	9/24/2025	100.09248	99.94018315	99.78835458	99.63699555	99.48610388	99.3356774	99.18571393	99.03621134	98.88716749
200922A00027	9/24/2020	1.65	9/23/2025	100.17478	100.0251481	99.87597369	99.72725384	99.57898647	99.43116948	99.28380082	99.13687843	98.99040026
200922A00034	9/24/2020	2.24	9/23/2026	102.20121	101.0435435	99.91201676	98.80575239	97.72391154	96.66569215	95.63032698	94.61708166	93.62525302
200922A00036	9/24/2020	1.55	9/23/2025	100.15978	100.0101662	99.86100906	99.71230641	99.56405619	99.41625632	99.26890474	99.12199937	98.97553819
200922A00037	9/24/2020	2.76	9/23/2025	100.34127	100.1914469	100.0420811	99.8931703	99.74471248	99.59670551	99.44914734	99.3020359	99.15536916
200922A00039	9/24/2020	3	9/23/2025	100.37727	100.2274034	100.0779962	99.92904413	99.78054513	99.63249708	99.48489794	99.33774563	99.19103811
200925A00002	9/25/2020	0.74	9/25/2025	100.03974	99.88474207	99.73022759	99.57619787	99.42265062	99.26958356	99.11699443	98.964881	98.81324103
200925A00008	9/25/2020	0.74	9/25/2025	100.03974	99.88474207	99.73022759	99.57619787	99.42265062	99.26958356	99.11699443	98.964881	98.81324103
200928A00003	9/28/2020	0.55	9/26/2025	100.02124	99.86338187	99.70603072	99.54918139	99.39283147	99.23697857	99.08162031	98.92675432	98.77237825
200928A00009	9/28/2020	1.51	9/28/2032	107.4932	100.4115854	93.84149461	87.74340485	82.08103932	76.82108668	71.93294398	67.38848315	63.16183887
201001A00012	10/1/2020	0.74	9/16/2025	100.03319	99.90306156	99.77328937	99.64386908	99.51479922	99.38607832	99.25770493	99.1296776	99.0019949
201007A00008	10/7/2020	1.22	10/7/2030	104.90646	100.2705542	95.87999874	91.72031708	87.77797334	84.0403024	80.49544878	77.13231027	73.94048581
201007A00010	10/7/2020	1.22	10/7/2030	104.90646	100.2705542	95.87999874	91.72031708	87.77797334	84.0403024	80.49544878	77.13231027	73.94048581
201007A00014	10/7/2020	0.8	10/7/2025	100.09315	99.82075626	99.54985806	99.28043923	99.01248758	98.7459911	98.48093787	98.21731614	97.95511427
201015A00003	10/15/2020	0.75	10/15/2025	100.0582	99.8480076	99.63870825	99.43030009	99.22277735	99.01613433	98.81036537	98.60546485	98.40142722
201015A00020	10/15/2020	0.94	10/15/2027	101.822	99.63707858	97.51069284	95.44089291	93.42581072	91.4636536	89.55270057	87.69129897	85.87786111
201015A00024	10/19/2020	1.53	10/18/2027	103.15114	100.9387066	98.7843947	96.68624843	94.64239883	92.6510553	90.71050144	88.81909137	86.97524609
201015A00025	10/19/2020	1.54	10/18/2027	103.17354	100.9608595	98.8062977	96.70790665	94.66381726	92.67223878	90.73145468	88.83981893	86.99575241
201015A00030	10/19/2020	2.39	10/18/2027	105.07823	102.8438562	100.668052	98.54885514	96.48438368	94.4728346	92.51247961	90.60166132	88.73878967
201015A00032	10/19/2020	2.33	10/19/2026	102.46705	101.2367305	100.0358697	98.86341621	97.71837076	96.59978067	95.5067369	94.43837169	93.39385615
201019A00005	10/19/2020	0.79	10/20/2025	100.07157	99.84757276	99.62458693	99.40260886	99.18163166	98.96164853	98.74265269	98.52463746	98.30759619
201021A00011	10/21/2020	1.11	10/21/2027	102.21947	100.0097228	97.85824892	95.76308413	93.72234781	91.73423846	89.79702962	87.90906601	86.06875989

Classification | Public

Parallel-Shift Sensitivity Analysis

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				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
201021A00012	10/21/2020	1.85	10/19/2035	110.82899	100.8602227	91.87520063	83.77156388	76.45809361	69.85344743	63.88504439	58.48808101	53.60466232
201022A00012	10/26/2020	2.25	10/24/2030	110.94391	105.6007709	100.5479126	95.76800459	91.24484341	86.96327636	82.90912744	79.06912874	75.43085721
201028A00003	10/30/2020	1.42	2/27/2026	100.59038	100.0080977	99.43252719	98.86355624	98.30107196	97.74496402	97.19512454	96.65144809	96.11383157
201028A00005	10/30/2020	1.85	10/31/2025	100.35316	100.0983656	99.84485771	99.59262869	99.34166895	99.09196897	98.84351932	98.59631067	98.35033376
201028A00011	10/28/2020	0.91	4/28/2026	100.36634	99.62137257	98.88740105	98.16418683	97.45149498	96.74909735	96.05677235	95.3743047	94.70148522
201029A00002	10/29/2020	0.59	10/29/2025	100.04752	99.79856706	99.5508502	99.30436304	99.05909645	98.81504137	98.57218885	98.33053	98.09005605
201029A00004	10/29/2020	1.49	10/29/2038	105.93673	96.18883176	87.55251272	79.88982583	73.08088087	67.02138266	61.62051546	56.79912489	52.48815398
201030A00001	11/2/2020	2.54	10/29/2040	120.2333	105.5574439	92.90820909	81.99132422	72.5567856	64.39199129	57.31597341	51.17454474	45.83621104
201030A00002	11/2/2020	2.8	10/29/2040	124.02177	109.0753323	96.18226519	85.04525387	75.41162372	67.06643164	59.82665482	53.53629994	48.0622831
201030A00003	11/2/2020	2.58	10/29/2040	120.81614	106.0986575	93.41191003	82.46115955	72.99599146	64.80344365	57.70223208	51.53789169	46.17868367
201030A00004	11/2/2020	2.56	10/29/2040	120.52472	105.8280507	93.16005956	82.22624188	72.77638853	64.59771747	57.50910274	51.35621822	46.00744736
201030A00005	11/2/2020	2.49	10/29/2040	119.50474	104.880927	92.27858292	81.40403005	72.00777827	63.87767584	56.83315006	50.72036105	45.40812026
201030A00012	10/30/2020	0.63	10/30/2025	100.05825	99.80651777	99.55605152	99.30684015	99.05887425	98.81214453	98.56664177	98.32235683	98.0792807
201030A00016	10/30/2020	1.14	10/8/2027	102.24481	100.0691313	97.95011384	95.88587259	93.87460374	91.91457808	90.00413722	88.14168997	86.32570904
201030A00017	10/30/2020	1.14	10/15/2027	102.2675	100.0730608	97.93615933	95.85486511	93.82733294	91.85179463	89.92655508	88.04998853	86.22053508
201030A00018	10/30/2020	1.15	10/22/2027	102.3127	100.0992469	97.94421106	95.84562511	93.80160177	91.81033332	89.87008741	87.97920318	86.13608767
201030A00019	10/30/2020	1.15	10/29/2027	102.33559	100.1033566	97.93043649	95.81481011	93.75454786	91.74780217	89.79280317	87.88785469	86.03133044
201103A00005	11/3/2020	0.89	11/4/2030	102.07671	99.3782837	96.78680044	94.29707711	91.90421955	89.60360563	87.39086821	85.26187934	83.21273547
201105A00003	11/6/2020	2.24	11/4/2030	110.93144	105.5591356	100.4801834	95.67699235	91.13312484	86.83321243	82.76288006	78.9086763	75.25800887
201105A00016	11/9/2020	2.18	11/8/2027	104.73854	102.4511107	100.2249229	98.0579123	95.94810389	93.89360456	91.89259886	89.94334507	88.04417161
201109A00012	11/9/2020	1.39	11/8/2030	105.91104	101.0401865	96.43323893	92.07441416	87.94895525	84.04305846	80.34380689	76.83910913	73.51764244
201110A00003	11/10/2020	1.12	11/10/2027	102.30214	100.0472496	97.85428887	95.72121456	93.64606122	91.62693946	89.66203246	87.74959279	85.8879393
201116A00024	11/18/2020	2.36	11/15/2034	115.43134	106.0711568	97.55434846	89.80027686	82.73640733	76.29745514	70.42462714	65.06494609	60.17064857
201116A00025	11/18/2020	1.96	11/15/2032	110.80871	103.4878244	96.70175931	90.40869301	84.57027826	79.1513369	74.11958267	69.44536956	65.10146332
201118A00009	11/18/2020	0.61	11/18/2025	100.07007	99.76599299	99.46377413	99.16339559	98.86484048	98.56809214	98.2731341	97.9799501	97.68852408
201119A00021	11/23/2020	2.22	11/21/2030	110.88764	105.470022	100.3506331	95.51152421	90.93591812	86.60812633	82.51347279	78.63822343	74.96952101
201119A00023	11/23/2020	2.23	11/21/2030	110.9413	105.5222683	100.4015205	95.56110595	90.98424488	86.65524636	82.55943205	78.68306576	75.01328817
201123A00010	11/25/2020	1.48	11/24/2025	100.33352	100.0126373	99.69381328	99.37702481	99.06225238	98.74947674	98.43867891	98.12984014	97.8229419
201123A00011	11/25/2020	1.41	11/24/2025	100.31098	99.9901432	99.6713645	99.35462111	99.03989354	98.72716255	98.41640917	98.10761462	97.80076041
201203A00005	12/3/2020	0.78	12/3/2026	100.76444	99.43411882	98.12746673	96.84390929	95.58288829	94.34386308	93.12630986	91.92972103	90.75360457
201204A00015	12/8/2020	1.07	12/8/2025	100.23025	99.87107634	99.51448344	99.16044	98.80891864	98.45989242	98.11333474	97.7692194	97.42752057
201207A00009	12/7/2020	1.01	12/7/2027	102.11981	99.80032979	97.5463996	95.35579448	93.22637568	91.15608977	89.14296464	87.18510575	85.28069262
201207A00021	12/7/2020	1.85	12/7/2050	111.47014	98.75232705	88.00035724	78.86770585	71.07387112	64.39109964	58.6338914	53.65068398	49.31724745

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
201208A00029	12/10/2020	1.52	12/9/2025	100.39597	100.0336849	99.67401889	99.31694395	98.96243208	98.61045568	98.26098751	97.91400072	97.56946888
201210A00021	12/10/2020	0.89	12/10/2027	102.02649	99.68086667	97.40040308	95.1829419	93.02640631	90.9287999	88.88820308	86.90276967	84.97072362
201211A00001	12/11/2020	0.95	12/11/2030	103.78431	99.27468892	95.00652948	90.96537411	87.13770882	83.51089894	80.07312726	76.81333682	73.72117803
201215A00001	12/15/2020	0.76	12/15/2025	100.12694	99.74877315	99.37347018	99.00099651	98.6313201	98.26440942	97.9002334	97.53876143	97.17996336
201216A00004	12/16/2020	0.74	9/8/2025	100.02753	99.91951875	99.81175056	99.70422642	99.59694545	99.4899068	99.38310961	99.27655304	99.17023624
201216A00013	12/16/2020	0.59	12/16/2025	100.08951	99.70838349	99.33016261	98.95481726	98.58231461	98.21262231	97.84570852	97.48154185	97.12009142
201218A00014	12/18/2020	0.57	12/18/2025	100.08367	99.69705589	99.31343576	98.9327731	98.55503368	98.18018379	97.80819024	97.43902034	97.07264193
201221A00014	12/21/2020	0.76	12/19/2025	100.13192	99.74276046	99.35662785	98.97348836	98.5933072	98.21605009	97.84168329	97.47017358	97.10148825
201221A00015	12/21/2020	0.88	12/4/2026	100.80892	99.47713478	98.16906384	96.8841328	95.62178183	94.38146869	93.16266804	91.96487081	90.78758355
201221A00022	12/21/2020	0.51	12/19/2025	100.08075	99.61217127	99.1480142	98.68821134	98.23270138	97.78142415	97.33432057	96.89133271	96.45240368
201223A00012	12/23/2020	0.91	12/18/2026	100.88804	99.51868965	98.1743386	96.85435865	95.55814595	94.28511615	93.03470358	91.80636052	90.59955649
201223A00013	12/23/2020	0.9	12/11/2026	100.85509	99.50447561	98.1782179	96.87571325	95.59638001	94.33965503	93.10499296	91.89186557	90.69976103
201228A00013	12/28/2020	0.84	12/30/2030	101.96195	99.22487869	96.5977775	94.07524879	91.65220249	89.32383424	87.0856074	84.93323631	82.86267066
210104A00006	11/22/2021	0.88	11/20/2026	100.76755	99.46968394	98.19765455	96.95070302	95.72810269	94.52915514	93.3531889	92.19955805	91.06764108
210104A00007	11/23/2021	0.88	11/23/2026	100.77678	99.47192806	98.19216991	96.93680281	95.70515337	94.49657306	93.31043717	92.14614358	91.00311184
210104A00009	12/20/2021	0.89	12/18/2026	100.86006	99.49091387	98.14676412	96.82698204	95.53096389	94.2581254	93.00790099	91.77974301	90.57312109
210104A00010	11/22/2021	0.88	11/20/2026	100.76755	99.46968394	98.19765455	96.95070302	95.72810269	94.52915514	93.3531889	92.19955805	91.06764108
210104A00011	11/23/2021	0.88	11/23/2026	100.77678	99.47192806	98.19216991	96.93680281	95.70515337	94.49657306	93.31043717	92.14614358	91.00311184
210104A00012	12/20/2021	0.89	12/18/2026	100.86006	99.49091387	98.14676412	96.82698204	95.53096389	94.2581254	93.00790099	91.77974301	90.57312109
210107A00007	1/7/2021	0.84	1/7/2026	100.22843	99.70610343	99.18923375	98.67773327	98.17151848	97.67050763	97.17462061	96.68377899	96.19790592
210114A00009	1/19/2021	2.66	1/17/2030	111.50756	106.9156541	102.5408187	98.37165939	94.39743751	90.60803058	86.99389368	83.54602345	80.2559246
210125A00006	1/27/2021	2.16	1/26/2027	102.87679	101.3889692	99.93022389	98.49977595	97.09687535	95.72079806	94.37084489	93.04634044	91.7466321
210125A00007	1/27/2021	2.98	1/27/2031	115.31625	109.6010111	104.2084483	99.11862706	94.31294647	89.77404291	85.48570137	81.43277371	77.60110314
210127A00008	1/27/2021	0.93	1/27/2027	101.02596	99.55002184	98.10300161	96.68413001	95.29265984	93.92786985	92.58906358	91.27556826	89.98673386
210127A00009	1/27/2021	1.3	7/27/2029	104.88095	100.8978026	97.08708665	93.44045259	89.94999545	86.60823284	83.40808004	80.34282672	77.40611511
210127A00010	1/27/2021	1.41	7/26/2030	106.34429	101.357679	96.63291077	92.15491898	87.90957693	83.88363749	80.0646739	76.44102476	73.00174302
210201A00001	2/1/2021	0.77	12/16/2025	100.13201	99.75109119	99.37307176	98.99792242	98.62561046	98.25610364	97.88937025	97.52537903	97.1640992
210201A00002	2/1/2021	1.19	2/1/2036	103.9274	98.63640895	93.72494823	89.16120604	84.91632322	80.96409594	77.28071163	73.84451282	70.63578594
210201A00003	2/2/2021	0.74	10/15/2025	100.05609	99.84590026	99.63660395	99.42819883	99.22067911	99.01403911	98.80827315	98.60337563	98.39934098
210201A00012	2/3/2021	0.75	11/17/2025	100.0908	99.78967113	99.49036082	99.19285453	98.89713591	98.60318879	98.3109972	98.02054537	97.7318177
210208A00004	2/11/2021	0.76	10/15/2025	100.06031	99.85011493	99.64081254	99.43240135	99.22487559	99.01822956	98.81245759	98.60755408	98.40351346
210208A00008	2/11/2021	0.78	11/17/2025	100.09988	99.79873123	99.49940366	99.2018802	98.90614447	98.61218032	98.31997178	98.02950307	97.74075859
210209A00029	2/12/2021	0.8	12/15/2025	100.14215	99.76394742	99.38860968	99.01610142	98.64639062	98.27944573	97.91523568	97.55372987	97.19489814

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
210212A00004	2/12/2021	1.1	2/12/2036	103.81334	98.51803762	93.60308321	89.03656413	84.78952802	80.83568937	77.15116401	73.71423167	70.50512375
210212A00006	2/12/2021	0.77	2/12/2026	100.21767	99.6070315	99.00385174	98.40799707	97.81933433	97.23773359	96.66306803	96.09521386	95.53405023
210212A00007	2/12/2021	0.76	2/12/2026	100.21095	99.60190381	99.00029441	98.40598382	97.81883942	97.23873181	96.6655347	96.0991248	95.53938174
210212A00008	2/12/2021	0.95	10/13/2026	100.75089	99.54800778	98.37362071	97.22673089	96.10638225	95.01166256	93.941701	92.89566577	91.87276195
210212A00014	2/17/2021	1.38	2/17/2026	100.54176	99.98700105	99.43835066	98.89570993	98.35898043	97.82806589	97.30287211	96.78330691	96.26928012
210216A00006	2/16/2021	1.44	2/15/2030	106.4194	101.8505418	97.50292033	93.36467922	89.42466248	85.67236707	82.09790117	78.69194535	75.44571632
210216A00007	2/16/2021	1.3	2/16/2029	104.61464	101.0621027	97.6486126	94.36798277	91.21433454	88.1820828	85.26591949	82.4607982	79.76191971
210216A00008	2/16/2021	0.71	2/17/2026	100.20657	99.65240179	99.104348	98.5623068	98.02617959	97.49586989	96.97128333	96.45232756	95.93891221
210216A00009	2/16/2021	0.92	2/16/2027	101.19353	99.6567957	98.15089515	96.67496898	95.22819293	93.80977265	92.41894222	91.05496296	89.71712215
210216A00011	2/17/2021	0.83	12/15/2025	100.15355	99.77532813	99.3999643	99.0274301	98.6576935	98.29072296	97.92648739	97.5649562	97.20609923
210217A00005	2/17/2021	0.83	2/14/2031	102.17993	99.35226158	96.64123534	94.04099376	91.54601663	89.15110009	86.85133641	84.64209503	82.51900509
210218A00010	2/18/2021	1.72	2/18/2031	108.3786	102.7898789	97.52283588	92.55731143	87.87451234	83.45691149	79.28815608	75.35298295	71.63714054
210218A00011	2/22/2021	0.85	10/24/2025	100.08968	99.85461901	99.62067442	99.38783356	99.15608861	98.92543179	98.69585544	98.46735192	98.2399137
210219A00004	2/19/2021	0.91	2/19/2026	100.28211	99.72270928	99.1695333	98.62247707	98.0814394	97.54632134	97.0170261	96.493459	95.97552738
210219A00008	2/22/2021	0.86	12/1/2025	100.1438	99.80404809	99.46659422	99.13141476	98.79848682	98.4677878	98.13929542	97.81298765	97.48884282
210224A00002	2/25/2021	0.88	11/3/2025	100.10977	99.84712662	99.58586436	99.32596931	99.06743076	98.81023809	98.55438082	98.29984853	98.04663096
210224A00003	2/26/2021	0.9	12/3/2025	100.16073	99.81544613	99.47254113	99.13198831	98.79376352	98.45784293	98.12420306	97.79282073	97.46367307
210224A00004	2/26/2021	0.91	12/18/2025	100.18896	99.80240959	99.41884842	99.03823996	98.66055011	98.28574527	97.91379238	97.54465885	97.17831263
210224A00006	2/26/2021	0.88	10/21/2025	100.09305	99.86625997	99.64050837	99.41578838	99.19209291	98.96941488	98.74774733	98.52708331	98.30741599
210225A00003	3/1/2021	0.93	9/24/2025	100.06804	99.91576917	99.76396916	99.61263863	99.46177539	99.31137726	99.16144207	99.01196769	98.86295197
210225A00006	2/25/2021	0.98	2/25/2026	100.33001	99.75405504	99.18468931	98.62179738	98.06526938	97.51499791	96.970878	96.43280697	95.90068446
210225A00007	2/25/2021	1.79	8/23/2030	108.34171	103.2315171	98.39226206	93.80818334	89.46451624	85.34742667	81.44394745	77.7419195	74.2299372
210225A00012	3/1/2021	0.91	8/25/2025	100.02943	99.96013856	99.89095253	99.82187265	99.75289868	99.68403038	99.6152675	99.54660981	99.47805706
210225A00013	3/1/2021	0.93	10/6/2025	100.08382	99.89840603	99.71368454	99.52965394	99.34631031	99.16364977	98.98166848	98.80036259	98.61972832
210226A00004	3/1/2021	1.04	12/5/2025	100.21335	99.86245967	99.51402643	99.16802412	98.8244273	98.48321092	98.14435025	97.80782091	97.47359888
210226A00012	2/26/2021	2.31	2/26/2036	115.58942	105.070161	95.61399124	87.10741325	79.44959987	72.55091951	66.33164181	60.72079877	55.65518188
210302A00005	3/5/2021	0.92	9/10/2025	100.0495	99.9359419	99.82265177	99.70963179	99.59688094	99.48439824	99.37218268	99.26023329	99.14854906
210303A00006	3/4/2021	0.97	10/10/2025	100.09721	99.90074168	99.70505999	99.51015683	99.31602751	99.12266735	98.93007172	98.73823602	98.54715571
210304A00006	3/4/2021	1.02	3/4/2026	100.36357	99.76840548	99.18026876	98.59904054	98.02459966	97.45682779	96.89560931	96.34083128	95.79238335
210305A00006	3/8/2021	1.02	8/11/2025	100.01694	99.98644089	99.95597316	99.92554038	99.89514248	99.8647794	99.83445108	99.80415745	99.77389844
210305A00013	3/5/2021	2.41	3/5/2036	116.64303	106.0504408	96.52869269	87.96335423	80.25278118	73.30662923	67.0445458	61.39501914	56.29436518
210311A00007	3/11/2021	1.06	3/11/2026	100.39848	99.7841014	99.17722477	98.57771006	97.98542381	97.4002358	96.82201888	96.25064897	95.68600488
210312A00008	3/12/2021	1.13	3/12/2026	100.44353	99.82627415	99.2165816	98.6143175	98.01934659	97.43153688	96.85075957	96.27688892	95.70980216

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
210315A00003	3/15/2021	1.13	3/13/2026	100.44529	99.82529635	99.21293763	98.60807274	98.01056464	97.4202796	96.83708713	96.26085987	95.69147348
210319A00009	3/19/2021	1.1	3/19/2026	100.48542	99.77437069	99.07343583	98.38239696	97.70104509	97.02917705	96.36659534	95.71310794	95.06852807
210324A00002	3/24/2021	2.06	3/24/2031	110.38073	104.644718	99.24262201	94.15325854	89.35689574	84.83514933	80.57088333	76.54811869	72.7519491
210324A00003	3/24/2021	1.18	3/24/2026	100.49733	99.84714455	99.20534736	98.57177342	97.94626544	97.32867012	96.71883801	96.11662341	95.52188426
210330A00021	3/30/2021	2.16	3/28/2031	110.96183	105.1990415	99.77200226	94.65938642	89.84133255	85.29933751	81.01615626	76.97570963	73.16299936
210330A00022	3/30/2021	1.27	3/30/2026	100.5691	99.90228095	99.24426953	98.59488782	97.95396703	97.32134279	96.69685494	96.08034742	95.47166813
210331A00007	3/31/2021	1.25	3/31/2031	103.27892	100.3430052	97.5310618	94.83673516	92.25404125	89.77734551	87.40134004	85.1210224	82.93167599
210407A00013	4/7/2021	1.23	4/7/2026	100.55992	99.8713473	99.19216893	98.52219481	97.86123878	97.20911968	96.56566116	95.93069156	95.30404371
210408A00007	4/8/2021	1.05	4/8/2031	102.88692	99.95796015	97.15282993	94.46517298	91.88900555	89.41869374	87.04893069	84.77471532	82.59133261
210409A00010	4/9/2021	1.05	4/9/2031	102.85771	99.95788226	97.18013228	94.5182055	91.96621699	89.51862538	87.1702104	84.91605211	82.75151148
210420A00009	4/20/2021	1.08	12/5/2025	100.22745	99.87652908	99.52806541	99.18203282	98.83840588	98.49715953	98.15826904	97.82171005	97.4874585
210420A00010	4/20/2021	1.08	12/12/2025	100.24239	99.87220538	99.50475655	99.14001713	98.77795711	98.41854693	98.06175746	97.70756	97.35592628
210420A00035	4/20/2021	1.92	4/20/2034	108.27799	102.5746203	97.27269452	92.33968032	87.74593246	83.46442115	79.47048402	75.74160317	72.25720444
210423A00001	4/23/2021	1.72	4/23/2036	107.30701	101.751995	96.6015434	91.82125419	87.37996455	83.2494183	79.40397299	75.82033844	72.47734311
210423A00003	4/23/2021	1.31	4/23/2031	103.67068	100.7187906	97.89174202	95.18312321	92.58689899	90.09738726	87.70923593	85.41740148	83.21712902
210428A00006	4/28/2021	1.23	4/28/2026	100.60683	99.86085791	99.12589838	98.40170637	97.68804676	96.98469124	96.29141805	95.60801175	94.934263
210428A00007	4/28/2021	1.74	10/27/2028	105.42346	102.1671492	99.02810405	96.00139346	93.0823267	90.26644101	87.54948881	84.92742569	82.3963992
210428A00008	4/28/2021	1.93	4/26/2030	108.64113	103.84015	99.2789116	94.94414188	90.82337928	86.90491882	83.17776156	79.63156768	76.25661315
210428A00015	4/28/2021	2.02	4/28/2031	110.2373	104.411476	98.92992305	93.77047348	88.9125033	84.33681921	80.0255514	75.96205496	72.13081924
210429A00005	4/29/2021	2.08	4/29/2031	110.58787	104.7493767	99.25588201	94.08516703	89.21656103	84.63082764	80.31005735	76.23756856	72.39781677
210507A00008	5/7/2021	1.94	5/7/2031	109.79033	103.9536129	98.46333921	93.29713949	88.43420351	83.85516577	79.54199738	75.47790671	71.64724788
210507A00009	5/7/2021	2.02	5/7/2032	110.92148	104.0905782	97.72652285	91.79497419	86.26429508	81.10532173	76.29115775	71.79698636	67.59989923
210512A00011	5/12/2021	1.16	5/12/2026	100.65304	99.79888111	98.95930087	98.13392844	97.32240449	96.52438171	95.73952436	94.96750776	94.20801784
210512A00012	5/12/2021	1.16	5/12/2026	100.65304	99.79888111	98.95930087	98.13392844	97.32240449	96.52438171	95.73952436	94.96750776	94.20801784
210514A00007	5/14/2021	0.95	5/15/2028	101.21791	99.77004059	98.35719531	96.97823306	95.632062	94.31763446	93.0339448	91.78002737	90.55495455
210514A00010	5/14/2021	1.34	5/14/2031	103.75602	100.7979251	97.96574559	95.25296051	92.65344053	90.16141755	87.77146098	85.47845557	83.27758102
210514A00033	5/18/2021	2.8	5/18/2028	107.68148	104.8298246	102.0686382	99.39452576	96.80424214	94.29468368	91.86288115	89.50599298	87.22129889
210518A00023	5/18/2021	1.17	5/18/2026	100.60988	99.80945178	99.02170669	98.24634483	97.48307594	96.73161875	95.99170069	95.26305749	94.54543292
210525A00004	5/25/2021	1.02	12/19/2025	100.23367	99.84426445	99.45789341	99.07451685	98.69409994	98.3166084	97.94200848	97.57026694	97.20135105
210526A00014	5/26/2021	1.01	12/19/2025	100.22975	99.84036045	99.45399858	99.07063114	98.6902233	98.31274078	97.93814982	97.56641719	97.19751018
210526A00017	5/26/2021	2.13	5/26/2033	112.43735	104.5618024	97.29729708	90.59325515	84.40352759	78.68598442	73.40214607	68.51685034	63.9979512
210526A00018	5/26/2021	1.11	5/26/2026	100.57969	99.75762469	98.94892666	98.15327491	97.37035586	96.59986592	95.84151106	95.09500647	94.3600762
210527A00019	5/27/2021	1	5/27/2026	100.54795	99.72252687	98.910579	98.11178286	97.3258211	96.55238654	95.7911817	95.04191845	94.30431767

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
210527A00026	6/1/2021	2.78	6/1/2028	107.72973	104.8394555	102.0419384	99.33371718	96.71147798	94.17204788	91.71238804	89.32958725	87.02085593
210603A00015	6/7/2021	2.71	6/7/2028	107.57381	104.6691057	101.8581404	99.13739796	96.50351203	93.9532601	91.48355662	89.09144639	86.77409833
210608A00017	6/10/2021	2.67	6/8/2029	110.07685	106.1233734	102.3344523	98.70239906	95.21992201	91.88010554	88.67638877	85.60254553	82.6526656
210609A00007	6/11/2021	2.6	6/11/2029	109.8244	105.8674707	102.0756284	98.44114011	94.95667593	91.61528484	88.41037314	85.33568418	82.38527948
210610A00012	6/11/2021	1.9	6/10/2026	101.30353	100.4372458	99.58573343	98.74861601	97.92553073	97.11612694	96.32006557	95.5370187	94.76666906
210610A00014	6/11/2021	2.03	6/10/2026	101.4167	100.5498812	99.69783996	98.8601999	98.03659811	97.22668382	96.43011785	95.64657215	94.87572935
210611A00006	6/11/2021	1.85	6/11/2031	109.32183	103.4068142	97.84838866	92.6232818	87.70985081	83.08796156	78.73887629	74.64515013	70.7905359
210611A00010	6/11/2021	1.02	6/11/2026	100.59558	99.66597585	98.75365952	97.85814736	96.97897704	96.11570305	95.26789599	94.43514181	93.61704116
210611A00011	6/11/2021	1.02	6/11/2026	100.59558	99.66597585	98.75365952	97.85814736	96.97897704	96.11570305	95.26789599	94.43514181	93.61704116
210611A00012	6/11/2021	1.02	6/11/2026	100.59558	99.66597585	98.75365952	97.85814736	96.97897704	96.11570305	95.26789599	94.43514181	93.61704116
210623A00028	6/23/2021	1.22	6/23/2026	100.74764	99.84861376	98.96554994	98.09802677	97.24563699	96.40798743	95.58469845	94.77540333	93.97974775
210624A00005	6/24/2021	1.22	6/24/2026	100.75042	99.84865434	98.96295116	98.09288024	97.23803074	96.39800613	95.57242353	94.76091313	93.96311768
210624A00025	6/24/2021	1.43	6/24/2027	102.44471	100.5510113	98.70148927	96.89485268	95.12985614	93.40529851	91.72002104	90.07290556	88.46287283
210624A00026	6/24/2021	1.6	6/23/2028	104.44062	101.5375147	98.72980526	96.01385787	93.38619445	90.84348796	88.38255491	86.0003484	83.69395144
210629A00005	6/29/2021	1.25	6/29/2026	100.79199	99.8764109	98.9773753	98.09443366	97.22715725	96.37513239	95.53795989	94.71525435	93.90664359
210629A00009	6/29/2021	1.14	12/31/2025	100.30822	99.88566105	99.46665141	99.05114266	98.63909113	98.23045388	97.8251887	97.42325405	97.02460906
210629A00012	6/29/2021	1.14	12/29/2025	100.30362	99.88656489	99.47297142	99.06279315	98.65598795	98.25251437	97.85233164	97.45539966	97.06167895
210629A00014	6/29/2021	1.78	12/28/2029	107.4603	103.0112832	98.77130116	94.72948301	90.87557485	87.19990486	83.69334724	80.34728862	77.15359674
210629A00015	6/29/2021	1.89	6/27/2031	109.58755	103.6220848	98.01864209	92.75343584	87.80435661	83.15084672	78.77378393	74.65537433	70.77905377
210701A00007	7/1/2021	1.22	7/1/2026	100.76996	99.84905622	98.94488981	98.05700439	97.1849637	96.32834691	95.48674801	94.65977509	93.84704977
210706A00006	7/6/2021	1.15	7/6/2026	100.71843	99.78420172	98.86721112	97.96698142	97.08305657	96.21499693	95.36237854	94.52479243	93.70184396
210706A00014	7/6/2021	1.15	6/26/2026	100.69193	99.7850147	98.89434633	98.01948992	97.1600276	96.3155561	95.48568613	94.67004177	93.86825989
210706A00015	7/6/2021	1.06	12/31/2025	100.27425	99.85177975	99.4328557	99.017432	98.605465	98.19691178	97.79173012	97.38987849	96.99131602
210707A00002	7/7/2021	1.12	6/26/2026	100.66448	99.75770593	98.86717184	97.99244803	97.13311669	96.28877457	95.45903241	94.64351432	93.84185722
210707A00008	7/9/2021	2.44	7/7/2031	112.89716	106.8085769	101.0893923	95.71528132	90.66364343	85.91346931	81.44522094	77.24072143	73.28305368
210709A00002	7/9/2021	1.36	7/9/2029	105.3526	101.3992813	97.61518802	93.99221409	90.52268463	87.19933023	84.0152633	80.96395597	78.03921949
210709A00005	7/9/2021	1.69	7/9/2031	108.40581	102.4439367	96.84635989	91.58899797	86.64947697	82.00700243	77.64224033	73.53720747	69.67517069
210709A00006	7/13/2021	2.4	7/11/2031	112.66845	106.5761492	100.8542243	95.47824031	90.42549691	85.67489501	81.20681587	77.00301006	73.04649528
210714A00012	7/14/2021	1.12	7/14/2026	100.77544	99.75605399	98.75743059	97.77893916	96.81997375	95.87995255	94.95831668	94.05452912	93.16807357
210714A00013	7/14/2021	1.12	7/14/2026	100.77544	99.75605399	98.75743059	97.77893916	96.81997375	95.87995255	94.95831668	94.05452912	93.16807357
210714A00014	7/14/2021	1.12	7/14/2026	100.77544	99.75605399	98.75743059	97.77893916	96.81997375	95.87995255	94.95831668	94.05452912	93.16807357
210714A00015	7/14/2021	1.11	7/14/2026	100.75915	99.74728675	98.7559743	97.78459203	96.83254089	95.89924569	94.9841539	94.08673454	93.20647716
210719A00004	7/19/2021	1	4/20/2026	100.42121	99.69778224	98.98473731	98.28185052	97.58890598	96.90569386	96.23201022	95.56765678	94.91244071

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
210719A00009	7/19/2021	1.04	7/17/2026	100.64105	99.67734521	98.73199142	97.80446772	96.89427355	96.00092692	95.12396357	94.26293617	93.41741353
210720A00035	7/22/2021	2.27	7/21/2031	111.91197	105.8159328	100.0924789	94.71690814	89.66628154	84.91928591	80.45611056	76.258334	72.30881987
210721A00009	7/21/2021	1.7	7/21/2031	108.47558	102.4810175	96.85461004	91.57188981	86.61013788	81.9482478	77.56660332	73.44696594	69.57237151
210722A00001	7/22/2021	1.1	7/22/2026	100.71221	99.73454854	98.77575937	97.83529874	96.91264526	96.00729711	95.1187712	94.24660225	93.39034202
210722A00008	7/21/2023	1.84	7/22/2030	108.50022	103.4705718	98.70368135	94.18448439	89.8988531	85.83353656	81.97610196	78.31487983	74.83891342
210722A00009	7/21/2023	1.96	7/22/2032	110.62248	103.6063389	97.0834324	91.01655766	85.3715002	80.1167772	75.22340648	70.66469605	66.41605236
210729A00003	7/29/2021	1.11	7/29/2026	100.74016	99.74333724	98.76611048	97.80791088	96.86818748	95.94641042	95.04206988	94.15467522	93.28375401
210729A00004	7/29/2021	1.74	7/29/2031	108.72412	102.7017749	97.050425	91.74533431	86.76353911	82.08371119	77.68603332	73.55208483	69.66473644
210729A00006	7/29/2021	1.87	11/30/2032	110.16998	102.833011	96.03529377	89.73449046	83.89178221	78.47156382	73.4411631	68.77058594	64.43228467
210802A00002	8/2/2021	0.7	8/1/2025	100.00157	99.99879285	99.99602038	99.99325035	99.99048275	99.98771757	99.98495481	99.98219447	99.97943654
210803A00005	8/5/2021	2.06	8/4/2026	101.72746	100.7089414	99.71074224	98.73226133	97.77291888	96.83215767	95.90944192	95.00425625	94.11610478
210804A00008	8/6/2021	2.28	8/4/2028	106.68249	103.633446	100.6879705	97.84196938	95.09153568	92.4329387	89.8626152	87.37716077	84.9733218
210809A00010	8/9/2021	1.06	8/7/2026	100.77137	99.68980514	98.63161856	97.59605457	96.58239151	95.58993821	94.61803232	93.66603886	92.73334881
210809A00012	8/9/2021	1.06	8/7/2026	100.77137	99.68980514	98.63161856	97.59605457	96.58239151	95.58993821	94.61803232	93.66603886	92.73334881
210809A00013	8/9/2021	1.05	8/7/2026	100.75404	99.68093051	98.63095191	97.60335586	96.59742943	95.61248973	94.64788237	93.70297996	92.77718073
210809A00014	8/9/2021	1.06	8/7/2026	100.77137	99.68980514	98.63161856	97.59605457	96.58239151	95.58993821	94.61803232	93.66603886	92.73334881
210809A00015	8/9/2021	1.06	8/7/2026	100.77137	99.68980514	98.63161856	97.59605457	96.58239151	95.58993821	94.61803232	93.66603886	92.73334881
210817A00013	8/19/2021	2	8/19/2026	101.74247	100.682975	99.64546609	98.62926627	97.63372412	96.65821455	95.70213748	94.76491657	93.84599809
210818A00007	8/18/2021	0.81	8/18/2025	100.01974	99.96980558	99.91994168	99.87014499	99.82041538	99.77075269	99.72115679	99.67162754	99.62216479
210826A00009	8/26/2021	1.18	8/26/2026	100.88954	99.81588992	98.76494321	97.73598693	96.72833701	95.74133752	94.77435917	93.82679802	92.89807419
210826A00013	8/26/2021	1.97	2/28/2033	111.05701	103.4544445	96.42707101	89.92839393	83.91589944	78.35069865	73.19720109	68.42281923	63.99770088
210907A00004	9/7/2021	2.01	9/7/2033	111.64638	103.5387518	96.08131686	89.21852574	82.89984744	77.07928939	71.71496828	66.76872345	62.20576859
210907A00006	9/7/2021	2.1	9/7/2034	112.93431	103.8574907	95.586673	88.04595776	81.16695845	74.88802348	69.1535416	63.91332201	59.12204107
210907A00007	9/7/2021	2.35	9/4/2037	115.99241	104.1449889	93.64435259	84.32934301	76.05887471	68.70934269	62.17237754	56.35289872	51.16742498
210907A00008	9/7/2021	2.42	9/7/2038	116.86765	104.134474	92.95163472	83.12065913	74.46946559	66.84873391	60.1287919	54.1969413	48.9551592
210907A00009	9/7/2021	2.5	9/7/2039	118.35176	104.7155414	92.8451597	82.500247	73.47436406	65.59006111	58.69467572	52.65675782	47.3630256
210907A00010	9/7/2021	2.58	9/7/2040	120.58996	106.0016998	93.41104861	82.53030332	73.1146935	64.95577741	57.87588392	51.72342858	46.36896269
210907A00011	9/7/2021	2.65	9/6/2041	123.49974	107.9030855	94.55317882	83.10920145	73.28387202	64.8347902	57.55721627	51.27804331	45.85076005
210907A00013	9/9/2021	2.14	9/9/2025	100.18386	100.0729352	99.96227164	99.85186537	99.74171543	99.63182089	99.52218083	99.41279434	99.3036605
210907A00014	9/9/2021	2.45	9/9/2026	102.35519	101.2348131	100.138906	99.0666708	98.01734673	96.99020511	95.98454796	94.99970631	94.03503872
210907A00015	9/9/2021	2.21	9/9/2026	102.08582	100.9670563	99.87273345	98.80205875	97.75427192	96.7286449	95.72448028	94.74110961	93.77789198
210913A00014	9/13/2021	1.15	9/13/2028	101.66567	100.0003966	98.37961147	96.8017605	95.26535753	93.76897947	92.3112631	90.89090208	89.50664414
210913A00015	9/13/2021	1.08	9/14/2026	100.86436	99.71519768	98.59283166	97.49632571	96.42478707	95.37736383	94.35324255	93.35164614	92.37183184

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
210914A00012	9/14/2021	1.18	9/14/2027	102.39709	100.2817292	98.22026239	96.21094962	94.25211673	92.3421566	90.4795259	88.66274194	86.89037981
210914A00014	9/14/2021	0.97	9/14/2026	100.78426	99.65853086	98.55777273	97.48115828	96.42790059	95.39724658	94.38847526	93.40089597	92.43384687
210914A00015	9/14/2021	0.81	9/15/2025	100.05012	99.9226511	99.79552181	99.66873167	99.54227929	99.41616326	99.29038219	99.1649347	99.03981941
210914A00017	9/14/2021	1.32	9/14/2028	104.12221	100.9968422	97.98099542	95.07020308	92.26020778	89.54695172	86.92656588	84.39535997	81.94981294
210914A00018	9/14/2021	1.43	9/14/2029	105.86803	101.7256632	97.76736052	93.98396278	90.36681618	86.90774378	83.59901639	80.43332533	77.4037571
210915A00024	9/15/2021	1.1	9/15/2026	100.91472	99.7339305	98.58098833	97.45491633	96.35478045	95.27968957	94.22879301	93.20127829	92.19636903
210915A00025	9/15/2021	1.09	9/15/2026	100.89441	99.72371425	98.58054588	97.46393636	96.37296394	95.30674918	94.26445255	93.24527216	92.24844169
210915A00026	9/15/2021	1.1	9/15/2026	100.91472	99.7339305	98.58098832	97.45491633	96.35478045	95.27968957	94.22879301	93.20127829	92.19636903
210915A00027	9/15/2021	1.1	9/15/2026	100.91472	99.7339305	98.58098833	97.45491633	96.35478045	95.27968957	94.22879301	93.20127829	92.19636903
210916A00008	9/16/2021	1.48	9/15/2028	104.40909	101.2818364	98.26408916	95.35138247	92.53946121	89.82426963	87.20194067	84.66878585	82.22128583
210916A00009	9/16/2021	2.25	9/16/2036	114.96362	103.9947514	94.18637669	85.40905511	77.54840808	70.50330102	64.18424947	58.51202401	53.41642852
210917A00004	9/17/2021	1.03	9/17/2025	100.07258	99.93965464	99.80709227	99.67489605	99.54306442	99.41159583	99.28048876	99.14974166	99.01935303
210917A00008	9/17/2021	1.55	9/15/2028	104.63053	101.4997707	98.47860919	95.56257636	92.74741407	90.0290637	87.40365545	84.86749821	82.41707011
210917A00012	9/17/2021	1.2	9/11/2026	100.95816	99.8407065	98.74782957	97.6787277	96.6326321	95.60880677	94.60654683	93.62517686	92.66404936
210920A00014	9/9/2022	1.28	9/9/2026	101.04203	99.92949887	98.841315	97.77668706	96.73485703	95.71509911	94.71671802	93.73904741	92.78144834
210920A00015	9/9/2022	1.28	9/9/2026	101.04203	99.92949887	98.841315	97.77668706	96.73485703	95.71509911	94.71671802	93.73904741	92.78144834
210921A00006	9/21/2021	1.43	9/21/2028	104.15089	101.0894685	98.13638113	95.28711702	92.53738836	89.88311384	87.32040711	84.84556607	82.4550627
210921A00009	9/21/2021	1.28	9/21/2028	103.9001	100.8404983	97.88928021	95.04193578	92.29417092	89.64189857	87.08122713	84.60844964	82.22003362
210924A00003	9/24/2021	2.37	9/24/2036	116.28235	105.2237515	95.33498566	86.48547466	78.55985541	71.45613658	65.08408724	59.36382695	54.2245911
210924A00004	9/24/2021	2.37	9/24/2036	116.28235	105.2237515	95.33498566	86.48547466	78.55985541	71.45613658	65.08408724	59.36382695	54.2245911
210924A00005	9/24/2021	2.37	9/24/2036	116.28235	105.2237515	95.33498566	86.48547466	78.55985541	71.45613658	65.08408724	59.36382695	54.2245911
210924A00011	9/24/2021	2.19	9/25/2034	113.78245	104.6226298	96.27907162	88.67460429	81.73972658	75.41181075	69.63439043	64.35652552	59.53223568
210928A00008	9/28/2021	1.35	9/28/2026	101.18471	100.0197367	98.88140775	97.76882221	96.68111525	95.6174604	94.57706742	93.55918032	92.56307555
210928A00009	9/28/2021	2.18	9/28/2033	113.07074	104.8524792	97.29605441	90.34464045	83.94657232	78.05485039	72.62669661	67.62315502	63.00873206
210928A00010	9/28/2021	1.12	9/26/2025	100.10063	99.9427937	99.78545835	99.62862345	99.47228663	99.3164455	99.16109772	99.00624093	98.85187281
211007A00006	10/7/2021	1.28	10/7/2026	101.20883	99.96878945	98.7569665	97.57239175	96.41414389	95.28134309	94.17314866	93.08875688	92.02739899
211014A00012	10/14/2021	1.46	10/14/2031	104.40391	101.1825219	98.10736405	95.17043293	92.36422207	89.68169004	87.1162284	84.66163212	82.31207217
211015A00031	10/15/2021	1.22	10/15/2025	100.15739	99.94705254	99.73761016	99.52905942	99.32139456	99.11460987	98.9086997	98.70365842	98.49948047
211019A00009	10/19/2021	1.48	10/9/2026	101.38	100.1839333	99.01591687	97.87497744	96.76018243	95.67064159	94.60550468	93.56395925	92.54522857
211019A00011	10/19/2021	1.48	10/16/2026	101.40729	100.1920295	99.00572367	97.84734743	96.71592381	95.610521	94.53024969	93.47426068	92.44174264
211026A00012	10/26/2021	1.52	10/26/2026	101.49636	100.2533462	99.04058786	97.85699358	96.70152185	95.57318026	94.47102256	93.39414606	92.34168912
211026A00013	10/26/2021	1.52	10/26/2026	101.49636	100.2533462	99.04058786	97.85699358	96.70152185	95.57318026	94.47102256	93.39414606	92.34168912
211028A00012	10/28/2021	1.64	10/15/2027	103.38375	101.176643	99.02733589	96.93389039	94.89445389	92.90725109	90.97058001	89.08280828	87.24236965

Classification | Public

	Parallel-Shift Sensitivity Analysis												
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
211028A00013	10/28/2021	1.65	10/22/2027	103.43865	101.2123081	99.04465611	96.93371393	94.87758674	92.8744595	90.92259283	89.0203191	87.16603881
211028A00020	10/28/2021	2.05	1/28/2031	110.15717	104.5798733	99.31983368	94.35737116	89.6741271	85.25296709	81.07789327	77.13396323	73.40721515
211028A00021	10/28/2021	2.28	10/28/2033	113.94917	105.6205097	97.96760621	90.93197697	84.46049475	78.50486961	73.02118465	67.96947858	63.31337019
211110A00012	11/10/2021	1.44	11/10/2026	101.55108	100.2323591	98.93733311	97.66541892	96.41604928	95.18867515	93.98276493	92.79780375	91.63329286
211110A00013	11/10/2021	1.44	11/10/2026	101.55108	100.2323591	98.93733311	97.66541892	96.41604928	95.18867515	93.98276493	92.79780375	91.63329286
211110A00014	11/10/2021	1.44	11/10/2026	101.55108	100.2323591	98.93733311	97.66541892	96.41604928	95.18867515	93.98276493	92.79780375	91.63329286
211115A00032	11/15/2021	1.75	11/12/2027	103.77085	101.4837062	99.25810911	97.09199959	94.983401	92.93041741	90.93122965	88.98409149	87.08732613
211119A00009	11/19/2021	1.68	11/19/2027	103.64433	101.3394043	99.09696193	96.91492841	94.79131254	92.72420244	90.71176179	88.75222621	86.84389994
211123A00011	11/23/2021	1.69	11/23/2026	101.85396	100.5415782	99.25442067	97.99178009	96.75297955	95.53736717	94.34431497	93.17321771	92.02349193
211123A00012	11/23/2021	2.27	11/23/2033	113.92259	105.5281285	97.82013426	90.73883156	84.2299346	78.24411956	72.73654811	67.66643883	62.99668155
211129A00011	11/29/2021	1.53	11/20/2026	101.62655	100.322722	99.04482677	97.79210937	96.56384036	95.35931863	94.17787011	93.01884639	91.88162356
211129A00012	11/29/2021	1.53	11/25/2026	101.65093	100.3353336	99.04443688	97.77757586	96.53411001	95.3134216	94.11491467	92.93801404	91.78216441
211206A00009	12/6/2021	1.43	12/5/2025	100.35082	99.99963642	99.65090647	99.30460896	98.96071846	98.6192099	98.28005853	97.94323996	97.60873016
211206A00010	12/6/2021	1.54	12/4/2026	101.70672	100.3685198	99.05415203	97.76303075	96.4945932	95.24829432	94.02360607	92.82001676	91.63703044
211206A00017	12/6/2021	1.56	12/4/2026	101.73392	100.3955315	99.08097288	97.78966402	96.52104203	95.27456176	94.0496951	92.84593027	91.66277126
211207A00011	12/7/2021	1.62	12/1/2026	101.80144	100.4705275	99.16318826	97.87884765	96.61695174	95.37696397	94.15836442	92.96064921	91.78332985
211207A00012	12/7/2021	1.62	12/4/2026	101.81554	100.4765665	99.16143545	97.86956383	96.60038851	95.35336409	94.12796219	92.92367082	91.7399937
211208A00012	12/8/2021	1.62	12/8/2026	101.92229	100.527212	99.15847491	97.81539643	96.49731641	95.20359686	93.93362112	92.68679289	91.46253544
211208A00013	12/8/2021	1.63	12/8/2026	101.94946	100.5457131	99.1684897	97.8171003	96.49088044	95.18918802	93.91140235	92.65692325	91.42517019
211209A00006	12/9/2021	1.61	12/8/2026	101.82063	100.4710013	99.14557752	97.84376118	96.56497678	95.30866705	94.07429229	92.86132961	91.66927235
211209A00007	12/9/2021	1.61	12/8/2026	101.82063	100.4710013	99.14557752	97.84376118	96.56497678	95.30866705	94.07429229	92.86132961	91.66927235
211210A00014	12/10/2021	1.54	12/10/2025	100.40665	100.0415936	99.67919445	99.31942647	98.96226094	98.60766959	98.25562455	97.90609837	97.55906399
211210A00015	12/10/2021	1.63	12/10/2026	101.85751	100.5023099	99.17149659	97.86446968	96.58064727	95.31946603	94.08038044	92.86286203	91.66639878
211210A00016	12/10/2021	1.76	12/10/2027	103.93704	101.5717486	99.27196159	97.03550575	94.86029686	92.74433136	90.68568265	88.68249774	86.73299395
211214A00015	12/14/2021	1.49	12/12/2025	100.39488	100.0243452	99.65655392	99.29147389	98.92907508	98.56932792	98.21220325	97.85767237	97.50570697
211217A00021	12/21/2021	2.44	12/18/2026	103.02855	101.6435367	100.2837865	98.94866907	97.63757355	96.34990866	95.08510209	93.84259974	92.62186502
211221A00023	12/21/2021	1.53	6/19/2026	101.01413	100.1246934	99.25085684	98.39221209	97.54836562	96.71893738	95.90356025	95.1018795	94.31355224
211221A00025	12/21/2021	1.59	12/21/2026	101.85323	100.4688516	99.10986631	97.77563607	96.46554421	95.17899407	93.9154082	92.67422759	91.45491092
211222A00035	12/22/2021	2.15	12/22/2033	112.97002	104.5417186	96.80952675	89.71229888	83.1945467	77.2058932	71.70057859	66.63701616	61.97739284
211227A00005	12/27/2021	1.61	12/18/2026	101.86736	100.4908419	99.13944546	97.81253988	96.50951806	95.22979246	93.9727944	92.73797324	91.52479569
211227A00009	12/27/2021	1.6	12/23/2026	101.87659	100.4867321	99.12245063	97.78310504	96.46807213	95.17674901	93.90855224	92.66291709	91.43929678
220104A00006	1/4/2022	1.76	1/4/2029	105.60808	102.3881757	99.28950895	96.30680695	93.43505521	90.6694852	88.00556086	85.43896584	82.96559157
220106A00007	1/6/2022	2.42	1/6/2034	115.27108	106.7112029	98.85915768	91.65259105	85.03494544	78.95489062	73.36581654	68.2253776	63.49508294

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	Parallel-Shift Sensitivity Analysis												
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220106A00008	1/6/2022	2.5	1/5/2035	116.83537	107.2852081	98.60547898	90.71198163	83.52907099	76.9887454	71.02983946	65.5973056	60.6415744
220106A00009	1/6/2022	2.57	1/4/2036	118.2349	107.712875	98.23726253	89.69791798	81.99682519	75.04670734	68.76980151	63.09677843	57.96578971
220106A00010	1/6/2022	2.64	1/6/2037	119.30792	107.8401555	97.60755199	88.46958738	80.30241951	72.99682934	66.45642808	60.59609186	55.34059418
220106A00011	1/6/2022	2.7	1/6/2038	120.21074	107.8320752	96.88659075	87.19927866	78.61737295	71.00742343	64.25276599	58.25133512	52.91377079
220106A00013	1/6/2022	2.75	1/6/2039	121.2374	107.9590573	96.32282082	86.11468249	77.1496129	69.26750393	62.32969902	56.21602137	50.82222655
220106A00018	1/10/2022	3.11	1/8/2032	117.78585	111.0527633	104.7559395	98.8647647	93.35092936	88.18823969	83.35244925	78.82110485	74.57340533
220106A00019	1/10/2022	3.17	1/7/2033	119.9285	112.1407776	104.9250835	98.23624057	92.0328638	86.27702337	80.93393962	75.97170661	71.36104109
220111A00002	1/11/2022	1.75	1/16/2026	100.62953	100.1622236	99.69925581	99.24057019	98.78610737	98.33580907	97.88961811	97.44747834	97.00933463
220112A00004	1/12/2022	1.55	1/12/2026	100.55385	100.0973573	99.64500897	99.19675194	98.75253076	98.31229096	97.87597903	97.44354242	97.01492953
220112A00005	1/12/2022	1.55	1/12/2026	100.55385	100.0973573	99.64500897	99.19675194	98.75253076	98.31229096	97.87597903	97.44354242	97.01492953
220114A00007	1/14/2022	1.7	1/27/2026	100.64726	100.1496876	99.65702313	99.16919613	98.68613558	98.20777186	97.73403671	97.26486319	96.80018564
220114A00009	1/14/2022	1.74	4/21/2026	100.96458	100.2362369	99.5183701	98.81075803	98.1131821	97.42542985	96.74729481	96.07857624	95.41907897
220114A00010	1/14/2022	1.86	1/13/2027	102.35578	100.9065703	99.4850437	98.09047656	96.72217007	95.37944912	94.06166127	92.76817578	91.49838269
220121A00013	1/21/2022	1.78	11/3/2025	100.34714	100.084089	99.82241842	99.56211666	99.303173	99.04557682	98.78931761	98.53438497	98.28076861
220121A00014	1/21/2022	1.78	11/3/2025	100.34714	100.084089	99.82241842	99.56211666	99.303173	99.04557682	98.78931761	98.53438497	98.28076861
220124A00007	1/24/2022	1.88	1/22/2027	102.43341	100.9596988	99.51458923	98.09732515	96.70717351	95.34342648	94.00540034	92.6924345	91.40389049
220124A00008	1/24/2022	1.88	1/22/2027	102.43341	100.9596988	99.51458923	98.09732515	96.70717351	95.34342648	94.00540034	92.6924345	91.40389049
220125A00010	1/25/2022	1.89	1/25/2027	102.46453	100.9825976	99.52958393	98.10471429	96.70724398	95.33645406	93.99165025	92.67216184	91.37734071
220126A00002	1/26/2022	1.9	12/18/2026	102.27308	100.8935907	99.53927545	98.20950068	96.90365793	95.62115836	94.36143203	93.12392708	91.90810907
220126A00003	1/26/2022	1.9	12/18/2026	102.27308	100.8935907	99.53927545	98.20950068	96.90365793	95.62115836	94.36143203	93.12392708	91.90810907
220131A00003	1/31/2022	1.98	2/1/2027	102.64059	101.1383678	99.66579076	98.22205689	96.80639393	95.4180567	94.05632589	92.72050691	91.40992884
220131A00006	1/31/2022	1.83	2/1/2027	102.51831	101.0152911	99.54196275	98.09752064	96.68119075	95.29222623	93.92990618	92.59353453	91.28243895
220201A00011	2/1/2022	1.86	4/20/2026	101.04846	100.3225068	99.60695737	98.90159119	98.20619192	97.52054933	96.84445908	96.17772249	95.52014637
220203A00009	2/3/2022	1.99	2/2/2027	102.66273	101.1573758	99.68175288	98.23505956	96.81651996	95.42538539	94.06093321	92.72246565	91.40930881
220204A00004	2/4/2022	2.08	1/8/2027	102.64984	101.2116741	99.80072582	98.41629258	97.05769319	95.72426929	94.41538443	93.13042312	91.86879002
220209A00010	2/9/2022	2.14	1/11/2027	102.7555	101.3085481	99.88913062	98.49653085	97.1300561	95.78903704	94.47282672	93.18079965	91.91235088
220209A00011	2/9/2022	2.14	1/11/2027	102.7555	101.3085481	99.88913062	98.49653085	97.1300561	95.78903704	94.47282672	93.18079965	91.91235088
220214A00010	2/14/2022	2.46	12/21/2029	110.45465	105.9583863	101.6716869	97.58371709	93.68425425	89.96365318	86.41281044	83.02313116	79.78649807
220214A00012	2/14/2022	2.47	12/28/2029	110.53883	106.0219315	101.7163733	97.61118475	93.69601924	89.96111685	86.39726802	82.99577968	79.74844373
220216A00003	2/16/2022	2.49	12/14/2029	110.54777	106.0682433	101.7966459	97.72226993	93.83501067	90.12533181	86.58423055	83.20320502	79.97422397
220217A00012	2/17/2022	2.28	2/16/2027	103.21335	101.662053	100.1418116	98.65176383	97.19108007	95.75896081	94.35463518	92.97735967	91.62641688
220217A00015	2/17/2022	2.28	2/16/2027	103.21335	101.662053	100.1418116	98.65176383	97.19108007	95.75896081	94.35463518	92.97735967	91.62641688
220217A00016	2/17/2022	2.24	9/15/2026	102.15452	101.0189688	99.90859047	98.82255045	97.76005509	96.7203449	95.70269273	94.70640212	93.73080562

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220217A00017	2/17/2022	2.27	1/29/2027	103.06186	101.5645941	100.0967333	98.657491	97.246105	95.86183946	94.50398399	93.17185248	91.86478207
220217A00018	2/17/2022	2.28	2/17/2027	103.22106	101.6667342	100.1435509	98.65064845	97.18719356	95.75238314	94.34544292	92.96562618	91.61221249
220217A00027	2/16/2024	2.56	2/17/2032	114.34422	107.6128492	101.3263932	95.4530864	89.96358908	84.83079143	80.02963309	75.53693816	71.33126423
220218A00003	2/18/2022	2.16	9/4/2026	102.00162	100.896991	99.81619807	98.75847978	97.72310326	96.70936645	95.71659639	94.7441478	93.79140162
220222A00018	2/22/2022	2.5	12/19/2031	113.76971	107.2161771	101.0862474	95.35034879	89.98111718	84.95322112	80.24320102	75.82932202	71.69143913
220224A00018	2/24/2022	2.15	3/16/2026	101.09565	100.4651607	99.84253223	99.2276145	98.62026473	98.02034366	97.42771544	96.84224752	96.26381053
220224A00023	2/24/2022	2.15	3/16/2026	101.09565	100.4651607	99.84253223	99.2276145	98.62026473	98.02034366	97.42771544	96.84224752	96.26381053
220225A00014	2/25/2022	2.42	2/23/2029	108.43366	104.7985796	101.3055156	97.94814353	94.72045317	91.61673529	88.63156465	85.75978417	82.99649004
220225A00015	2/25/2022	2.26	2/25/2027	103.25099	101.6726401	100.126172	98.61068483	97.12531503	95.66923082	94.24163075	92.84174231	91.46882063
220301A00013	3/1/2022	2.01	2/16/2027	102.79078	101.242913	99.72604203	98.23930568	96.781876	95.352955	93.9517733	92.57758883	91.22968556
220301A00015	3/1/2022	2	1/4/2027	102.51052	101.0840329	99.6843536	98.31078808	96.96267035	95.63935655	94.34022409	93.06467072	91.81211377
220302A00010	3/2/2022	2.14	1/13/2027	102.76765	101.3152869	99.89065802	98.49304185	97.12173819	95.77607054	94.45538511	93.15904985	91.88645359
220302A00011	3/2/2022	2.14	1/13/2027	102.76765	101.3152869	99.89065802	98.49304185	97.12173819	95.77607054	94.45538511	93.15904985	91.88645359
220304A00004	3/4/2022	2.12	12/29/2028	107.02246	103.5687562	100.2450478	97.04576529	93.96560932	90.99953443	88.14273552	85.39063505	82.73887106
220308A00012	3/8/2022	2.51	3/8/2032	112.04353	106.3425891	101.0013985	95.99471111	91.29920336	86.89331638	82.75711269	78.87214521	75.22133756
220309A00010	3/9/2022	2.27	3/8/2027	103.34218	101.7327784	100.156261	98.61168592	97.09814814	95.61477649	94.16073222	92.73520751	91.33742397
220310A00009	3/10/2022	2.31	3/10/2027	103.51673	101.8649605	100.2480417	98.66492836	97.11461917	95.59615264	94.10860506	92.65108859	91.22274953
220310A00010	3/10/2022	2.31	3/10/2027	103.51673	101.8649605	100.2480417	98.66492836	97.11461917	95.59615264	94.10860506	92.65108859	91.22274953
220311A00013	3/15/2022	2.35	3/15/2027	103.51907	101.8894507	100.2933795	98.72988307	97.19802912	95.69692079	94.22569501	92.78352087	91.36959812
220314A00004	3/14/2022	2.44	3/12/2027	103.64565	102.0229972	100.4336317	98.87659885	97.35097716	95.85588006	94.39045419	92.95387784	91.54535948
220314A00007	3/14/2022	2.44	3/12/2027	103.64565	102.0229972	100.4336317	98.87659885	97.35097716	95.85588006	94.39045419	92.95387784	91.54535948
220315A00014	3/15/2022	2.78	3/15/2032	115.90367	109.0484456	102.6497359	96.67468092	91.09295079	85.87654103	80.99958264	76.43816849	72.17019467
220315A00015	3/15/2022	3.18	3/13/2037	125.52312	113.5484188	102.8708936	93.34158052	84.82939187	77.21888588	70.40832569	64.30798787	58.83868727
220315A00018	3/15/2022	2.43	3/15/2027	103.65025	102.0195246	100.4223606	98.85779077	97.32488227	95.82273774	94.35049362	92.90731853	91.49241178
220315A00036	3/17/2022	2.63	3/16/2027	103.98575	102.3494886	100.7469387	99.17711993	97.63909428	96.13195946	94.65484727	93.20692186	91.78737831
220315A00037	3/17/2022	2.63	3/16/2027	103.98575	102.3494886	100.7469387	99.17711993	97.63909428	96.13195946	94.65484727	93.20692186	91.78737831
220317A00026	5/3/2022	2.59	5/3/2027	104.28437	102.5140801	100.7823628	99.08803921	97.42997848	95.8070955	94.21834861	92.66273734	91.13930034
220317A00027	5/3/2022	2.59	5/3/2027	104.28437	102.5140801	100.7823628	99.08803921	97.42997848	95.8070955	94.21834861	92.66273734	91.13930034
220317A00028	5/3/2022	2.59	5/3/2027	104.28437	102.5140801	100.7823628	99.08803921	97.42997848	95.8070955	94.21834861	92.66273734	91.13930034
220324A00015	3/24/2022	2.79	3/3/2026	101.4178	100.8217894	100.2327756	99.65063563	99.07524977	98.5065009	97.94427463	97.38845919	96.83894536
220325A00012	3/28/2022	2.85	3/23/2026	101.58399	100.9325633	100.2894916	99.6546119	99.02776814	98.40880834	97.79758428	97.19395147	96.59776899
220325A00015	3/28/2022	2.86	3/23/2027	104.42068	102.7619063	101.1375499	99.54660524	97.98810567	96.46112177	94.96475957	93.49815887	92.06049162
220325A00017	3/28/2022	2.86	3/23/2027	104.42068	102.7619063	101.1375499	99.54660524	97.98810567	96.46112177	94.96475957	93.49815887	92.06049162

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220325A00018	3/28/2022	2.85	9/10/2026	102.81165	101.6858173	100.5846082	99.50722545	98.45290149	97.42090157	96.41052187	95.42108786	94.45195285
220325A00019	3/28/2022	2.86	3/23/2027	104.42068	102.7619063	101.1375499	99.54660524	97.98810567	96.46112177	94.96475957	93.49815887	92.06049162
220325A00020	3/28/2022	2.86	3/23/2027	104.42068	102.7619063	101.1375499	99.54660524	97.98810567	96.46112177	94.96475957	93.49815887	92.06049162
220329A00007	3/29/2022	2.94	3/29/2029	110.57874	106.8112623	103.1936024	99.71894679	96.38083626	93.17314291	90.09005075	87.1260378	84.27585936
220329A00009	3/29/2022	2.94	3/29/2029	110.57874	106.8112623	103.1936024	99.71894679	96.38083626	93.17314291	90.09005075	87.1260378	84.27585936
220331A00010	3/31/2022	2.83	2/18/2026	101.35688	100.7967753	100.2428618	99.69503652	99.15319929	98.6172522	98.08709948	97.56264739	97.04380423
220401A00009	4/1/2022	2.98	4/1/2027	104.69686	103.0114009	101.3612496	99.7453614	98.16273299	96.61240024	95.09343639	93.60495014	92.14608399
220404A00010	4/4/2022	2.93	4/2/2027	104.62116	102.9335864	101.2814103	99.66358295	98.07909689	96.52698426	95.00631474	93.51619366	92.05576033
220404A00014	4/4/2022	2.94	4/5/2027	104.66408	102.9678027	101.3072402	99.68132532	98.08903761	96.52939665	95.00146031	93.50432276	92.03711276
220407A00014	4/7/2022	3.14	4/6/2029	109.86053	106.5576201	103.3823316	100.3288988	97.39185202	94.56600295	91.84642785	89.22845247	86.70763768
220407A00017	4/7/2022	3.16	4/6/2029	110.49854	107.0054536	103.6498703	100.4255101	97.32642432	94.34697202	91.48180188	88.72583537	86.07425105
220408A00012	4/8/2022	3.12	6/29/2026	102.51823	101.5940282	100.6864722	99.79511691	98.91953146	98.05929999	97.21402117	96.38330758	95.56678506
220408A00013	4/8/2022	3.15	1/14/2027	104.26221	102.795709	101.3572433	99.94608103	98.56151307	97.20285422	95.86944241	94.56063762	93.27582101
220408A00014	4/8/2022	3.12	6/29/2026	102.51823	101.5940282	100.6864722	99.79511691	98.91953146	98.05929999	97.21402117	96.38330758	95.56678506
220411A00002	4/11/2022	3.18	4/9/2027	105.10894	103.3976438	101.7225382	100.0825417	98.47661414	96.90375687	95.36301031	93.8534522	92.37419566
220411A00008	4/11/2022	3.02	4/12/2027	105.09767	103.3427212	101.6262557	99.94712464	98.30422745	96.69650582	95.12294187	93.58255617	92.0744059
220412A00010	4/12/2022	3.09	3/15/2027	104.73254	103.0926348	101.4864549	99.91302934	98.37142072	96.86072753	95.38008214	93.92864926	92.50562443
220412A00016	4/12/2022	3.09	3/19/2027	104.76774	103.1167595	101.4998809	99.9161129	98.36450284	96.84413449	95.3541264	93.89363016	92.46182886
220412A00017	4/12/2022	3.09	3/19/2027	104.76774	103.1167595	101.4998809	99.9161129	98.36450284	96.84413449	95.3541264	93.89363016	92.46182886
220412A00018	4/12/2022	3.09	3/15/2027	104.73254	103.0926348	101.4864549	99.91302934	98.37142072	96.86072753	95.38008214	93.92864926	92.50562443
220418A00016	4/22/2022	3.11	9/15/2026	103.14541	102.0038623	100.8875781	99.79572219	98.72749866	97.68214578	96.65893429	95.65716567	94.6761705
220419A00015	4/19/2022	3.14	4/17/2026	101.95949	101.238087	100.5268994	99.82570679	99.1342993	98.45247289	97.78002917	97.11677519	96.46252328
220419A00016	4/19/2022	3.21	4/19/2027	105.25443	103.5140017	101.8108289	100.1437797	98.51176926	96.91375611	95.34874055	93.81576229	92.31389853
220420A00032	4/20/2022	3.26	10/16/2026	103.58729	102.3579088	101.1577191	99.98568547	98.84082485	97.7221995	96.62891442	95.56011492	94.5149844
220420A00033	4/20/2022	3.29	4/20/2027	105.40301	103.658467	101.9513055	100.2803915	98.64463463	97.04298882	95.47444967	93.93805254	92.43287048
220420A00034	6/15/2022	3.3	6/15/2027	105.94825	104.0451757	102.1858342	100.3689597	98.59333391	96.85778138	95.16116758	93.5023973	91.880413
220420A00037	6/15/2022	3.3	6/15/2027	105.94825	104.0451757	102.1858342	100.3689597	98.59333391	96.85778138	95.16116758	93.5023973	91.880413
220420A00061	6/15/2022	3.3	6/15/2027	105.94825	104.0451757	102.1858342	100.3689597	98.59333391	96.85778138	95.16116758	93.5023973	91.880413
220421A00012	4/21/2022	3.31	4/21/2026	102.11403	101.3810348	100.6585622	99.94639073	99.2443009	98.55207954	97.86951942	97.19641909	96.53258267
220421A00013	4/21/2022	3.33	9/15/2026	103.39598	102.2529158	101.1351382	100.0418116	98.97213956	97.9253598	96.9007425	95.89758863	94.91522828
220421A00016	4/21/2022	3.31	4/21/2026	102.11403	101.3810348	100.6585622	99.94639073	99.2443009	98.55207954	97.86951942	97.19641909	96.53258267
220422A00014	4/22/2022	3.36	9/29/2026	103.55524	102.3727249	101.2172186	100.0878012	98.98359625	97.90376595	96.8475094	95.81406043	94.80268575
220425A00026	4/25/2022	3.13	2/25/2026	101.57659	100.9965181	100.4230697	99.85612833	99.29558355	98.74132759	98.193255	97.65126272	97.11524994

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220425A00027	4/29/2022	3.15	8/20/2026	102.97464	101.9053903	100.858345	99.83281497	98.82814165	97.84369301	96.87886238	95.93306715	95.00574758
220425A00028	4/29/2022	3.16	4/23/2027	105.20473	103.4536037	101.7401464	100.0632058	98.42167894	96.81450774	95.24067661	93.69921028	92.18917178
220426A00004	4/26/2022	3.41	4/26/2032	120.3392	113.224418	106.58781	100.3945459	94.61251739	89.21211107	84.16600145	79.44896217	75.03769373
220427A00011	4/29/2022	3.15	4/29/2027	105.24279	103.4746024	101.7447232	100.0519725	98.39521994	96.77338149	95.18541708	93.63032832	92.10715637
220428A00019	4/28/2022	3.27	4/28/2027	105.44493	103.6776979	101.9486986	100.2567594	98.60075348	96.97960027	95.39226292	93.83774607	92.31509375
220429A00002	4/29/2022	3.63	4/29/2032	121.85113	114.6778512	107.9862626	101.7412727	95.91053676	90.46422475	85.37481221	80.61688993	76.16699026
220506A00016	5/6/2022	3.35	5/6/2027	105.66203	103.8710452	102.1191857	100.4052687	98.72815653	97.08675709	95.48002118	93.90694047	92.36654548
220509A00013	7/15/2022	3.37	7/15/2027	106.36676	104.3772797	102.4353561	100.5395594	98.68851225	96.88088801	95.11540833	93.390841	91.70599802
220509A00014	7/15/2022	3.37	7/15/2027	106.36676	104.3772797	102.4353561	100.5395594	98.68851225	96.88088801	95.11540833	93.390841	91.70599802
220509A00016	7/15/2022	3.37	7/15/2027	106.36676	104.3772797	102.4353561	100.5395594	98.68851225	96.88088801	95.11540833	93.390841	91.70599802
220510A00015	5/13/2022	3.13	11/3/2025	100.7032	100.4395326	100.1772495	99.91633768	99.65678635	99.3985849	99.14172279	98.88618962	98.63197507
220510A00016	5/13/2022	3.23	5/5/2027	105.43888	103.6526416	101.9053836	100.1959236	98.52312506	96.88589731	95.28319263	93.71400438	92.17736487
220511A00015	5/11/2022	3.29	5/11/2027	105.6013	103.7973617	102.0330858	100.3072828	98.6188148	96.9665879	95.34955017	93.76668957	92.21703209
220512A00013	5/12/2022	3.18	5/12/2027	105.41251	103.6076194	101.8424664	100.1158633	98.42667291	96.77380175	95.15619805	93.57284976	92.0227826
220518A00009	5/18/2022	3.38	5/18/2028	109.32344	106.4484147	103.6644212	100.9680455	98.35602495	95.82523917	93.37270287	90.99555905	88.6910726
220519A00010	5/19/2022	3.15	11/19/2026	103.75811	102.4418102	101.1519548	99.8877544	98.64845502	97.43333226	96.24169011	95.07285946	93.92619684
220520A00006	5/20/2022	3.02	5/20/2027	105.35135	103.5157779	101.7223585	99.96986191	98.25710698	96.58295439	94.946305	93.34609813	91.78130992
220526A00010	5/26/2022	3	5/26/2026	102.14655	101.317381	100.5016644	99.69907349	98.90929326	98.13201862	97.36695412	96.61381358	95.87231967
220526A00011	5/26/2022	3.29	5/24/2029	112.36508	108.4089321	104.6153819	100.9768848	97.48628606	94.13679967	90.92198715	87.83573787	84.87225054
220527A00014	5/27/2022	2.99	5/27/2026	102.14574	101.313831	100.4954606	99.69030003	98.89803133	98.11834656	97.35094753	96.59554543	95.85186044
220527A00015	5/27/2022	3.03	5/27/2027	105.27052	103.4264779	101.6237861	99.86126332	98.13776885	96.45220237	94.803502	93.19064273	91.61263488
220601A00038	6/3/2022	3.69	5/28/2032	122.43398	115.1628209	108.3846492	102.0633098	96.16548277	90.66044403	85.51985037	80.71754369	76.22937223
220602A00039	6/2/2022	3.11	6/2/2027	105.60316	103.737206	101.9134401	100.1306638	98.38772042	96.68349299	95.01690297	93.38690849	91.79250293
220615A00010	6/15/2022	3.86	6/15/2027	107.00922	105.0958379	103.2263843	101.3995879	99.61422501	97.86911509	96.16311867	94.49513581	92.86410442
220622A00006	6/22/2022	3.58	6/22/2027	106.55102	104.6225126	102.7387109	100.8983081	99.10004772	97.3427181	95.62515019	93.94621583	92.30482604
220623A00005	6/23/2022	3.45	6/23/2027	106.31217	104.3832114	102.4990378	100.6583377	98.85985096	97.10236226	95.3846991	93.70573005	92.06436302
220624A00003	6/24/2022	3.5	6/24/2027	106.41811	104.4853172	102.5974507	100.7531952	98.95128524	97.19050003	95.46966202	93.78763493	92.14332204
220624A00016	6/24/2022	3.34	6/24/2026	102.74175	101.8292976	100.9330507	100.0525837	99.18748211	98.33734608	97.50178942	96.68043914	95.8729349
220624A00033	6/24/2022	3.5	6/24/2027	106.41811	104.4853172	102.5974507	100.7531952	98.95128524	97.19050003	95.46966202	93.78763493	92.14332204
220627A00055	6/27/2022	3.55	6/26/2026	102.88751	101.9697162	101.0683058	100.1828407	99.31290026	98.45807863	97.61798385	96.79223747	95.98047392
220628A00034	6/28/2022	3.61	6/28/2027	106.67089	104.724418	102.8234098	100.9665343	99.15250397	97.38007767	95.64805816	93.95529046	92.30065997
220628A00044	8/15/2022	3.6	8/13/2027	107.11294	105.0371959	103.0126115	101.0375915	99.11060307	97.23017218	95.39488055	93.60336326	91.8543063
220628A00052	8/15/2022	3.6	8/13/2027	107.11294	105.0371959	103.0126115	101.0375915	99.11060307	97.23017218	95.39488055	93.60336326	91.8543063

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220628A00053	8/15/2022	3.6	8/13/2027	107.11294	105.0371959	103.0126115	101.0375915	99.11060307	97.23017218	95.39488055	93.60336326	91.8543063
220629A00003	6/29/2022	3.59	6/29/2027	106.64264	104.6936407	102.7902315	100.9310688	99.11486046	97.34036038	95.60636687	93.91172067	92.25530309
220629A00034	6/29/2022	3.51	6/29/2027	103.24892	102.2381536	101.2467113	100.2740425	99.31962194	98.38294417	97.46352249	96.56088803	95.67458897
220630A00036	6/30/2022	3.42	6/30/2027	106.32385	104.3752224	102.4722479	100.6135798	98.79792261	97.02402693	95.29068801	93.59674361	91.94107229
220630A00045	6/30/2022	3.39	6/30/2026	102.77626	101.8480207	100.9365443	100.0413773	99.16208484	98.29824736	97.4494599	96.61533156	95.79548489
220701A00050	7/1/2022	3.26	7/1/2027	106.02308	104.0747452	102.172133	100.3138915	98.49872108	96.72536899	94.99262705	93.29932982	91.64435286
220706A00032	7/6/2022	3.15	7/6/2027	105.99256	104.0284953	102.1108797	100.2383311	98.40951933	96.62316213	94.87802348	93.17291146	91.50667641
220712A00016	7/15/2022	3.35	1/15/2026	101.37154	100.9049517	100.4426698	99.98463363	99.53078482	99.08106593	98.63542061	98.19379353	97.75613035
220715A00001	7/15/2022	3.44	7/15/2027	106.5052	104.5143163	102.5710193	100.6738754	98.82150671	97.01258589	95.24583386	93.52001777	91.83394896
220715A00027	7/15/2022	3.44	7/15/2027	106.5052	104.5143163	102.5710193	100.6738754	98.82150671	97.01258589	95.24583386	93.52001777	91.83394896
220715A00047	7/15/2022	3.44	7/15/2027	106.5052	104.5143163	102.5710193	100.6738754	98.82150671	97.01258589	95.24583386	93.52001777	91.83394896
220719A00004	7/19/2022	3.46	7/19/2027	106.58301	104.5805385	102.6261822	100.7184827	98.85603937	97.0375036	95.26157597	93.52700427	91.83258148
220722A00044	9/1/2022	3.23	9/1/2027	106.52534	104.4040675	102.3359156	100.3191913	98.35227196	96.43359852	94.5616726	92.73505359	90.9523559
220722A00049	9/15/2022	3.25	9/15/2025	100.35321	100.2255269	100.0981811	99.97117379	99.84450371	99.71816942	99.59216956	99.46650274	99.34116763
220722A00050	9/15/2022	3.25	9/15/2025	100.35321	100.2255269	100.0981811	99.97117379	99.84450371	99.71816942	99.59216956	99.46650274	99.34116763
220722A00051	9/15/2022	3.23	9/15/2027	106.65694	104.4951437	102.3881829	100.3342857	98.33175135	96.37894725	94.47430552	92.61631988	90.80354272
220727A00004	7/27/2022	3.23	7/27/2027	106.19701	104.1769013	102.2058603	100.2823847	98.40503121	96.57241079	94.78318561	93.03606704	91.3298134
220727A00027	7/27/2022	3.23	7/27/2027	106.19701	104.1769013	102.2058603	100.2823847	98.40503121	96.57241079	94.78318561	93.03606704	91.3298134
220727A00035	10/24/2022	3.33	10/24/2029	113.83664	109.4271944	105.2157006	101.1921415	97.34706978	93.67156984	90.1572243	86.79608295	83.58063387
220729A00035	8/3/2022	3.14	8/3/2027	106.07739	104.0396276	102.0517359	100.1121824	98.21948774	96.3722287	94.56903505	92.80858745	91.08961508
220729A00043	7/29/2022	3.04	7/29/2027	105.83174	103.8100025	101.8375196	99.91277741	98.03432347	96.20075987	94.41074051	92.6629689	90.95619591
220729A00045	7/29/2022	3.03	7/29/2027	105.81157	103.7900459	101.8177668	99.89322444	98.01496651	96.18159517	94.39176444	92.64417792	90.93758659
220729A00047	7/29/2022	3.06	1/29/2027	104.25892	102.7522083	101.2750751	99.82672132	98.40638025	97.01331186	95.6468017	94.30615975	92.99071941
220801A00066	8/1/2022	2.93	7/30/2027	105.81828	103.7744613	101.7814266	99.83756739	97.94133815	96.09125376	94.28588673	92.52386445	90.80386662
220802A00009	8/2/2022	3	8/2/2027	105.78465	103.752629	101.7703135	99.83617735	97.94874763	96.10660704	94.30839116	92.55278607	90.83852615
220804A00023	8/4/2022	3.19	8/4/2027	106.18793	104.1463104	102.1546903	100.2115314	98.31534909	96.46471496	94.65825403	92.89464241	91.17260496
220804A00037	8/4/2022	3.35	8/4/2025	100.0352	100.0240822	100.0129766	100.0018815	99.99079697	99.97972302	99.9686596	99.9576067	99.94656431
220808A00025	8/8/2022	3.25	8/6/2027	106.3283	104.2797941	102.2815326	100.331963	98.42959027	96.57297641	94.76073718	92.99153995	91.26410133
220811A00021	8/11/2022	3.47	8/11/2025	100.09364	100.0630706	100.0325387	100.0020417	99.97157977	99.94115269	99.91076044	99.88040295	99.85008016
220812A00001	8/12/2022	3.17	8/12/2027	106.36572	104.2977466	102.280791	100.3132595	98.3936236	96.52041323	94.69221407	92.90766495	91.16545545
220812A00002	8/12/2022	3.17	8/12/2027	106.36572	104.2977466	102.280791	100.3132595	98.3936236	96.52041323	94.69221407	92.90766495	91.16545545
220816A00009	8/16/2022	3.33	8/16/2027	106.58552	104.5071656	102.4801835	100.5029676	98.57397372	96.69171704	94.85476915	93.06175564	91.31135351
220817A00036	10/14/2022	3.41	10/15/2027	107.33527	105.0833241	102.890101	100.7536399	98.67206208	96.64356696	94.66642825	92.7389902	90.85966403

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220817A00037	10/14/2022	3.41	10/15/2027	107.33527	105.0833241	102.890101	100.7536399	98.67206208	96.64356696	94.66642825	92.7389902	90.85966403
220817A00038	10/14/2022	3.41	10/15/2027	107.33527	105.0833241	102.890101	100.7536399	98.67206208	96.64356696	94.66642825	92.7389902	90.85966403
220817A00047	8/17/2022	3.29	8/17/2027	106.66005	104.5753652	102.5423008	100.5592356	98.62461519	96.73694508	94.89478773	93.09676002	91.34153074
220819A00034	8/19/2022	3.73	8/19/2032	123.22891	115.7045159	108.7050627	102.1909434	96.12574568	90.47597499	85.21080644	80.30185878	75.72298868
220823A00002	8/23/2022	3.38	8/23/2027	106.90493	104.801287	102.7499709	100.7493279	98.79777296	96.89378237	95.03589115	93.22269016	91.45282355
220823A00009	8/23/2022	3.52	8/23/2027	107.04769	104.9453936	102.8953236	100.8958395	98.94536051	97.04236688	95.18539736	93.37304636	91.60396139
220823A00015	8/23/2022	3.78	8/30/2032	123.65581	116.0865099	109.0468601	102.496776	96.39941643	90.72090188	85.43006147	80.49820304	75.89890379
220824A00011	8/24/2022	3.7	8/22/2025	100.19741	100.1362824	100.0752425	100.0142911	99.95342813	99.89265336	99.8319666	99.77136766	99.71085634
220825A00006	8/25/2022	3.56	8/25/2027	107.15122	105.0423669	102.9859825	100.9804142	99.02407053	97.11542203	95.25299808	93.43538428	91.66121978
220825A00022	8/25/2022	3.68	8/25/2025	100.22234	100.152886	100.083535	100.0142905	99.94515216	99.87611971	99.80719294	99.73837161	99.66965547
220826A00033	8/26/2022	3.73	8/26/2025	100.23468	100.162446	100.0903219	100.0183105	99.94641144	99.87462453	99.80294949	99.73138607	99.65993401
220829A00057	8/29/2022	3.67	8/31/2026	103.63632	102.5330142	101.4532218	100.3961923	99.36121133	98.34759376	97.35468277	96.38184819	95.42848522
220830A00055	8/30/2022	3.7	8/30/2029	114.89356	110.6157828	106.5240614	102.6092757	98.86280438	95.27649474	91.84263434	88.55392465	85.40345651
220830A00093	11/16/2022	3.69	11/16/2029	115.59545	111.0838967	106.7770792	102.6645862	98.73659693	94.98384069	91.39756334	87.96949539	84.69182247
220831A00079	8/31/2022	3.79	8/29/2025	100.26609	100.1855212	100.1050843	100.0247797	99.94460704	99.86456607	99.78465646	99.70487788	99.62523004
220901A00033	9/1/2022	3.72	9/1/2027	107.55954	105.4271396	103.3480808	101.3206664	99.3432677	97.41431965	95.53231813	93.69581698	91.90342528
220901A00035	9/1/2022	3.82	9/1/2028	111.66368	108.4612232	105.3688086	102.382012	99.49661745	96.70860349	94.01413314	91.40954401	88.89133929
220906A00046	9/6/2022	3.79	9/7/2027	107.77299	105.6214469	103.5240156	101.4789619	99.48462282	97.53940103	95.64176184	93.79023023	91.98338799
220907A00010	9/7/2022	3.9	9/9/2032	125.13137	117.4605453	110.3280717	103.693072	97.51798357	91.76827477	86.41218476	81.42048742	76.76627638
220907A00023	9/7/2022	3.76	9/8/2026	103.81543	102.6890862	101.587221	100.5090426	99.45379234	98.42074381	97.40920087	96.41849629	95.44799019
220912A00044	11/15/2022	3.85	11/14/2025	100.99973	100.7051539	100.4123119	100.1211852	99.83175869	99.54401734	99.25794638	98.97353122	98.69075739
220912A00046	11/15/2022	3.85	11/14/2025	100.99973	100.7051539	100.4123119	100.1211852	99.83175869	99.54401734	99.25794638	98.97353122	98.69075739
220912A00050	11/15/2022	3.76	11/15/2027	108.44645	106.096046	103.8087685	101.5825139	99.41526559	97.30508846	95.25012484	93.24859079	91.29877255
220912A00051	11/15/2022	3.76	11/15/2027	108.44645	106.096046	103.8087685	101.5825139	99.41526559	97.30508846	95.25012484	93.24859079	91.29877255
220913A00017	9/13/2022	3.98	9/14/2026	104.12565	102.980925	101.861433	100.7663432	99.69486287	98.64623353	97.61972874	96.61465265	95.63033835
220913A00018	9/13/2022	3.91	9/13/2027	108.09596	105.9240392	103.8070283	101.7431582	99.73073037	97.76811425	95.85374365	93.98611377	92.1637782
220915A00040	9/15/2022	4.16	9/15/2025	100.4695	100.3416987	100.2142355	100.0871111	99.96032412	99.83387321	99.70775696	99.58197401	99.45652301
220916A00018	9/16/2022	4.07	9/16/2027	108.18514	106.0729549	104.0148855	102.0091354	100.0539858	98.14778958	96.28896706	94.47600288	92.70744272
220916A00021	9/16/2022	4.17	9/16/2027	104.43447	103.291416	102.1716123	101.0743787	99.99906412	98.9450423	97.91171031	96.89848768	95.90481528
220916A00042	9/16/2022	4.07	9/16/2030	120.62773	115.1269846	109.9166469	104.9797603	100.3004541	95.86386481	91.65606708	87.66400897	83.87545257
220916A00043	9/16/2022	4.07	9/16/2031	123.66693	117.0467978	110.8344399	105.0024303	99.52533488	94.37955476	89.54318408	84.99587975	80.71874183
220916A00045	9/16/2022	4.1	9/16/2032	126.62008	118.8773404	111.6782626	104.981514	98.74911803	92.94616724	87.54055999	82.50276065	77.80558152
220919A00033	9/19/2022	4	9/17/2027	108.33504	106.1492405	104.0188917	101.9422014	99.9174472	97.94297589	96.01719997	94.13859446	92.30569389

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220919A00036	9/19/2022	4.11	9/19/2029	116.3717	112.104722	108.0254865	104.1246015	100.3932068	96.82293632	93.40588744	90.13459239	87.00199152
220920A00024	9/20/2022	4.25	9/19/2025	100.52288	100.3839389	100.2453929	100.1072429	99.96948723	99.83212415	99.69515194	99.55856891	99.42237336
220920A00025	9/20/2022	4.23	9/18/2026	104.45506	103.2973104	102.1653031	101.0581899	99.97515478	98.91541721	97.8782301	96.86287803	95.86867558
220920A00026	9/20/2022	4.1	9/20/2027	108.58597	106.3889486	104.2478065	102.1607287	100.1259744	98.14187302	96.20682042	94.31927603	92.47775958
220921A00014	9/21/2022	4.08	9/21/2027	108.55446	106.3549649	104.2114645	102.1221391	100.0852424	98.09909854	96.16209872	94.27269771	92.4294109
220921A00069	9/21/2022	3.98	9/21/2027	108.49411	106.2922422	104.146484	102.0550143	100.0160816	98.02800514	96.08917129	94.19803048	92.35309391
220921A00074	9/21/2022	3.98	9/21/2027	108.49411	106.2922422	104.146484	102.0550143	100.0160816	98.02800514	96.08917129	94.19803048	92.35309391
220929A00041	9/29/2022	4.38	9/29/2027	109.30497	107.0745275	104.9012495	102.7832581	100.7187565	98.70602113	96.74339806	94.8292994	92.96220022
220929A00043	9/29/2022	4.44	9/28/2029	118.29255	113.8615347	109.6255137	105.5747895	101.7002078	97.99312046	94.44535377	91.04917994	87.79728987
220929A00063	9/29/2022	4.38	9/29/2027	109.30497	107.0745275	104.9012495	102.7832581	100.7187565	98.70602113	96.74339806	94.8292994	92.96220022
221005A00041	10/5/2022	4.3	10/5/2027	109.20225	106.9564656	104.7685735	102.6366622	100.5589001	98.53353124	96.55887084	94.63330212	92.75527282
221006A00012	10/6/2022	4.37	10/6/2027	109.36877	107.1183861	104.9260549	102.7898618	100.7079683	98.6786118	96.70010117	94.77081375	92.88919165
221011A00036	10/11/2022	4.59	10/6/2026	105.09114	103.8796846	102.6962791	101.5399583	100.4097986	99.30491783	98.22447316	97.16765893	96.13370457
221014A00026	10/14/2022	4.63	10/14/2027	110.04601	107.7660498	105.5453196	103.3818475	101.2737428	99.21919328	97.21646131	95.26388017	93.35985037
221014A00027	10/14/2022	4.63	10/14/2027	110.04601	107.7660498	105.5453196	103.3818475	101.2737428	99.21919328	97.21646131	95.26388017	93.35985037
221014A00032	10/14/2022	4.67	10/14/2027	109.79283	107.5863453	105.4379059	103.3455941	101.3075675	99.32205842	97.38736958	95.50187123	93.66399773
221014A00043	10/14/2022	4.49	10/14/2027	109.8958	107.6143501	105.3922363	103.2274816	101.1181901	99.06254482	97.05880368	95.10529562	93.20041711
221014A00050	10/14/2022	4.49	10/14/2027	109.8958	107.6143501	105.3922363	103.2274815	101.1181901	99.06254482	97.05880368	95.10529562	93.20041711
221018A00006	10/18/2022	4.55	10/18/2027	109.91838	107.6288831	105.3990984	103.2270302	101.1107642	99.04846635	97.03837828	95.07881376	93.16815496
221018A00007	10/18/2022	4.68	10/18/2027	105.30415	104.0920728	102.905293	101.7430602	100.6046543	99.48938319	98.39658071	97.32560594	96.27584183
221018A00030	10/18/2022	4.71	10/17/2025	100.91764	100.7006631	100.4846321	100.2695426	100.0553884	99.84216331	99.62986127	99.41847618	99.20800205
221018A00031	10/18/2022	4.71	10/17/2025	100.91764	100.7006631	100.4846321	100.2695426	100.0553884	99.84216331	99.62986127	99.41847618	99.20800205
221018A00047	10/18/2022	4.78	10/20/2025	100.96897	100.7436	100.5192522	100.2959168	100.073587	99.85225587	99.63191664	99.41256258	99.19418703
221018A00048	10/18/2022	4.71	10/19/2026	105.40163	104.1521843	102.9325165	101.7415648	100.5783216	99.44182611	98.33116142	97.24545225	96.1838625
221018A00049	10/18/2022	4.59	10/18/2027	110.00802	107.7174947	105.4867103	103.313663	101.1964379	99.13320027	97.12219122	95.16172399	93.25018024
221019A00008	10/19/2022	4.8	10/17/2025	100.93713	100.7201272	100.5040675	100.2889495	100.0747668	99.8615133	99.64918295	99.43776965	99.2272674
221019A00009	10/19/2022	4.8	10/17/2025	100.93713	100.7201272	100.5040675	100.2889495	100.0747668	99.8615133	99.64918295	99.43776965	99.2272674
221025A00027	10/25/2022	4.57	10/25/2027	110.0524	107.7421279	105.4925078	103.3014936	101.1671273	99.08753363	97.06091547	95.08555004	93.15978503
221027A00009	10/27/2022	4.68	10/27/2025	101.02891	100.7840382	100.5403615	100.2978678	100.0565485	99.81639494	99.57739879	99.33955164	99.10284521
221027A00050	10/27/2022	4.52	10/27/2027	109.9646	107.6498366	105.395965	103.2009255	101.0627483	98.97954707	96.94951439	94.97091771	93.04209555
221027A00056	4/25/2023	4.48	4/25/2030	120.8454	115.7590648	110.9225714	106.3222034	101.9450818	97.77910515	93.81289757	90.0357611	86.43763112
221027A00060	12/1/2022	4.46	12/1/2027	110.27258	107.855326	105.5039256	103.2162237	100.9901483	98.82370673	96.71498202	94.66212977	92.66337486
221027A00061	12/15/2022	4.45	12/15/2027	110.42136	107.9639019	105.5743602	103.2504771	100.9900859	98.79110428	96.65153035	94.56943902	92.54297863

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
221027A00062	12/15/2022	4.45	12/15/2027	110.42136	107.9639019	105.5743602	103.2504771	100.9900859	98.79110428	96.65153035	94.56943902	92.54297863
221027A00063	12/15/2022	4.45	12/15/2027	110.42136	107.9639019	105.5743602	103.2504771	100.9900859	98.79110428	96.65153035	94.56943902	92.54297863
221031A00004	10/31/2022	4.79	10/28/2025	101.06786	100.8201558	100.5736664	100.3283851	100.0843031	99.84141157	99.5997018	99.3591652	99.11979323
221031A00033	10/31/2022	4.74	10/31/2025	101.09134	100.8352893	100.5805343	100.3270631	100.0748659	99.82393332	99.5742558	99.32582401	99.07862866
221031A00035	10/31/2022	4.67	10/30/2026	105.49225	104.211707	102.9623964	101.7431843	100.5529908	99.39078703	98.25559249	97.14647188	96.0625327
221031A00036	10/31/2022	4.59	10/29/2027	110.1488	107.8264104	105.5652187	103.3631492	101.2182187	99.12852778	97.09225702	95.1076624	93.17307162
221031A00042	10/31/2022	4.73	10/30/2026	105.56806	104.2870081	103.0372003	101.8174994	100.6268252	99.46414878	98.3284892	97.21891103	96.13452157
221031A00045	10/31/2022	4.79	10/31/2025	101.10411	100.8480389	100.5932623	100.3397695	100.087551	99.83659706	99.5868983	99.33844535	99.09122892
221102A00026	11/2/2022	4.66	11/2/2027	110.36033	108.0243376	105.7501269	103.5356084	101.3787808	99.27772722	97.23061079	95.23567067	93.29121812
221107A00029	11/7/2022	4.83	11/9/2026	105.8336	104.5266598	103.2488844	101.9992983	100.7769664	99.580995	98.41052955	97.26475244	96.14288101
221107A00030	11/7/2022	4.7	11/5/2027	110.4918	108.1457621	105.8619558	103.6382842	101.4727387	99.36339433	97.30840592	95.30600387	93.35449034
221107A00048	11/7/2022	4.96	9/8/2025	100.48481	100.3763834	100.2681976	100.1602567	100.0525596	99.94510568	99.83789395	99.73092359	99.62419376
221107A00053	11/7/2022	4.95	10/7/2025	100.84434	100.6551434	100.4666672	100.2789065	100.0918573	99.90551539	99.71987678	99.53493744	99.35069335
221107A00056	11/7/2022	4.73	11/8/2027	110.60095	108.2451099	105.9519518	103.7193675	101.5453406	99.4279386	97.36530778	95.35566982	93.39731786
221108A00033	11/8/2022	4.7	11/8/2027	110.53198	108.1769452	105.884575	103.6527621	101.4794908	99.36282879	97.30092297	95.29199542	93.33433967
221108A00036	11/8/2022	4.95	11/7/2025	101.2342	100.9585586	100.6844256	100.4117898	100.140639	99.87096086	99.60274347	99.33597487	99.07064329
221110A00024	11/10/2022	4.51	11/10/2025	101.14784	100.8640587	100.5818774	100.301286	100.0222711	99.74481923	99.46891728	99.19455217	98.921711
221110A00025	11/10/2022	4.39	11/10/2026	105.2783	103.9727682	102.6960898	101.4473075	100.2255052	99.02980708	97.85937519	96.71340756	95.59113617
221110A00026	11/10/2022	4.29	11/10/2027	109.61391	107.2639268	104.976663	102.7500129	100.581963	98.47058238	96.41401877	94.41049454	92.45830313
221110A00038	11/10/2022	4.34	11/10/2027	109.72913	107.3778054	105.0892223	102.8612805	100.6919656	98.57934601	96.52156858	94.51685502	92.56349805
221110A00039	11/10/2022	4.34	11/10/2027	109.72913	107.3778054	105.0892223	102.8612805	100.6919656	98.57934601	96.52156858	94.51685502	92.56349805
221110A00064	1/17/2023	4.25	1/14/2028	110.29264	107.7545597	105.2888524	102.8930367	100.5647328	98.30165647	96.10161468	93.96250146	91.88229378
221110A00065	1/17/2023	4.25	1/14/2028	110.29264	107.7545597	105.2888524	102.8930367	100.5647328	98.30165647	96.10161468	93.96250146	91.88229378
221110A00075	11/10/2022	4.56	11/10/2025	101.162	100.8781914	100.5959845	100.3153677	100.0363274	99.75885034	99.48292327	99.20853315	98.93566707
221110A00076	11/10/2022	4.45	11/10/2026	105.35593	104.049872	102.7726737	101.5233803	100.3010756	99.10488343	97.93396564	96.78752001	95.66477833
221110A00084	11/10/2022	4.56	11/6/2025	101.11535	100.8426809	100.5714907	100.3017662	100.0334953	99.76666623	99.50126743	99.23728731	98.97471446
221110A00086	11/10/2022	4.34	11/8/2027	109.70434	107.3589688	105.0760533	102.8534979	100.6892927	98.58151104	96.52830524	94.52790251	92.57860137
221110A00108	11/10/2022	4.48	12/10/2025	101.48377	101.1163068	100.7515169	100.3893707	100.0298395	99.6728949	99.31850895	98.96665406	98.61730307
221110A00110	11/10/2022	4.47	1/13/2026	101.87061	101.4081902	100.9499848	100.4959349	100.0459839	99.60007625	99.15815752	98.72017412	98.28607348
221114A00002	11/14/2022	4.37	11/15/2027	109.86066	107.4936211	105.1900609	102.9478647	100.7650059	98.6395398	96.56959927	94.55339142	92.58919386
221116A00027	11/16/2022	4.46	11/14/2025	101.17923	100.8843178	100.5911424	100.2996836	100.0099265	99.72185595	99.43545723	99.15071569	98.86761689
221117A00012	11/17/2022	4.54	11/14/2025	101.20277	100.9078147	100.6145955	100.3230933	100.0332928	99.74517905	99.45873734	99.173953	98.89081157
221117A00013	11/17/2022	4.54	11/14/2025	101.20277	100.9078147	100.6145955	100.3230933	100.0332928	99.74517905	99.45873734	99.173953	98.89081157

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
221117A00014	11/17/2022	4.54	11/14/2025	101.20277	100.9078147	100.6145955	100.3230933	100.0332928	99.74517905	99.45873734	99.173953	98.89081157
221117A00025	11/17/2022	4.28	11/17/2027	109.67646	107.3059262	104.9991023	102.7538754	100.5682156	98.44017441	96.36788067	94.34953703	92.38341644
221118A00018	11/18/2022	4.55	11/18/2025	101.25224	100.946126	100.6418719	100.3394642	100.0388858	99.74012029	99.44315107	99.14796192	98.85453676
221118A00019	11/18/2022	4.55	11/18/2025	101.25224	100.946126	100.6418719	100.3394642	100.0388858	99.74012029	99.44315107	99.14796192	98.85453676
221118A00023	11/18/2022	4.12	11/18/2027	109.48507	107.1105606	104.8000093	102.5512959	100.3623826	98.23131346	96.15620981	94.13526703	92.16675088
221118A00045	11/18/2022	4.57	11/18/2025	101.25835	100.9522214	100.6479556	100.3455362	100.0449462	99.74616914	99.44918843	99.15398783	98.86055129
221118A00046	11/18/2022	4.4	11/18/2026	105.39377	104.0684974	102.7701119	101.4978004	100.250786	99.02832262	97.82969386	96.65421141	95.50121367
221118A00080	11/18/2022	4.61	11/18/2025	101.27056	100.964412	100.6601229	100.3576801	100.057067	99.75826684	99.46126314	99.16603966	98.87258033
221121A00047	11/21/2022	4.89	11/21/2033	135.71649	126.4440184	117.9084457	110.0465769	102.8009661	96.11936806	89.95424133	84.26230225	79.0041227
221121A00052	11/21/2022	4.35	11/22/2027	109.90125	107.5138828	105.1909873	102.93044	100.7301977	98.58829731	96.50285289	94.47205139	92.49414961
221121A00064	11/21/2022	4.34	11/22/2027	109.87788	107.4907822	105.1681581	102.9078764	100.7078941	98.5662484	96.48105341	94.45049627	92.47283392
221122A00029	11/22/2022	4.31	11/22/2027	109.80774	107.4214807	105.0996705	102.8401856	100.6409834	98.50010166	96.41565498	94.38583092	92.40888686
221122A00040	11/22/2022	4.31	11/22/2027	109.80774	107.4214807	105.0996705	102.8401856	100.6409834	98.50010166	96.41565498	94.38583092	92.40888686
221123A00016	11/23/2022	4.58	11/23/2029	119.0556	114.548743	110.2470042	106.1398941	102.2175155	98.47052653	94.89010705	91.46792649	88.19611426
221123A00034	11/23/2022	4.43	11/23/2026	105.49775	104.159901	102.8477134	101.5604687	100.297478	99.05807812	97.84163	96.64751787	95.47514805
221123A00039	11/23/2022	4.29	11/23/2027	109.77325	107.3845559	105.0604519	102.7988045	100.597569	98.45478087	96.36855203	94.33706746	92.35858176
221128A00034	11/28/2022	4.27	11/26/2027	109.76304	107.3659639	105.0338961	102.7647024	100.556331	98.40680965	96.31424201	94.27680443	92.29274254
221129A00034	11/29/2022	4.38	12/1/2025	101.36917	101.0265529	100.6862471	100.3482336	100.0124894	99.67899168	99.34771795	99.018646	98.69175393
221129A00035	11/29/2022	4.09	11/29/2027	109.54631	107.1398393	104.7989125	102.5213802	100.3051781	98.14832092	96.0488992	94.00507598	92.01508355
221129A00037	11/29/2022	4.56	11/26/2025	101.34858	101.0201045	100.6937654	100.3695387	100.0474039	99.72734086	99.40932956	99.09335029	98.77938361
221129A00038	11/29/2022	4.56	11/26/2025	101.34858	101.0201045	100.6937654	100.3695387	100.0474039	99.72734086	99.40932956	99.09335029	98.77938361
221129A00039	11/29/2022	4.56	11/26/2025	101.34858	101.0201045	100.6937654	100.3695387	100.0474039	99.72734086	99.40932956	99.09335029	98.77938361
221129A00040	11/29/2022	4.56	11/26/2025	101.34858	101.0201045	100.6937654	100.3695387	100.0474039	99.72734086	99.40932956	99.09335029	98.77938361
221129A00041	11/29/2022	4.56	11/28/2025	101.37189	101.0378291	100.7059662	100.3762836	100.0487602	99.72337458	99.400106	99.07893383	98.75983771
221129A00042	11/29/2022	4.56	11/28/2025	101.37189	101.0378291	100.7059662	100.3762836	100.0487602	99.72337458	99.400106	99.07893383	98.75983771
221129A00043	11/29/2022	4.59	12/1/2025	101.41724	101.0747877	100.7346424	100.396785	100.0611925	99.72784222	99.39671179	99.06777906	98.74102222
221129A00044	11/29/2022	4.56	11/28/2025	101.37189	101.0378291	100.7059662	100.3762836	100.0487602	99.72337458	99.400106	99.07893383	98.75983771
221129A00045	11/29/2022	4.56	11/28/2025	101.37189	101.0378291	100.7059662	100.3762836	100.0487602	99.72337458	99.400106	99.07893383	98.75983771
221129A00046	11/29/2022	4.56	12/1/2025	101.407	101.0645673	100.7244436	100.3866077	100.0510367	99.71770774	99.38659852	99.0576869	98.73095107
221129A00047	11/29/2022	4.56	12/1/2025	101.407	101.0645673	100.7244436	100.3866077	100.0510367	99.71770774	99.38659852	99.0576869	98.73095107
221129A00048	11/29/2022	4.56	12/1/2025	101.407	101.0645673	100.7244436	100.3866077	100.0510367	99.71770774	99.38659852	99.0576869	98.73095107
221129A00049	11/29/2022	4.56	12/1/2025	101.407	101.0645673	100.7244436	100.3866077	100.0510367	99.71770774	99.38659852	99.0576869	98.73095107
221129A00050	11/29/2022	4.56	12/2/2025	101.41879	101.0735686	100.7306986	100.3901555	100.0519155	99.71595534	99.38225207	99.05078295	98.7215256

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
221129A00051	11/29/2022	4.56	12/2/2025	101.41879	101.0735686	100.7306986	100.3901555	100.0519155	99.71595534	99.38225207	99.05078295	98.7215256
221129A00052	11/29/2022	4.56	12/2/2025	101.41879	101.0735686	100.7306986	100.3901555	100.0519155	99.71595534	99.38225207	99.05078295	98.7215256
221129A00053	11/29/2022	4.56	12/2/2025	101.41879	101.0735686	100.7306986	100.3901555	100.0519155	99.71595534	99.38225207	99.05078295	98.7215256
221129A00054	11/29/2022	4.56	12/3/2025	101.43058	101.0825691	100.7369524	100.3937017	100.0527927	99.71420139	99.37790424	99.04387793	98.71209949
221129A00055	11/29/2022	4.56	12/3/2025	101.43058	101.0825691	100.7369524	100.3937017	100.0527927	99.71420139	99.37790424	99.04387793	98.71209949
221129A00056	11/29/2022	4.31	11/29/2027	109.89394	107.4867821	105.1450999	102.8667456	100.6496592	98.49185946	96.39144082	94.34656992	92.35548242
221129A00059	11/29/2022	4.39	11/27/2026	105.49571	104.1483923	102.8257408	101.5271193	100.2519108	98.99951918	97.76936861	96.56090237	95.37358226
221129A00060	11/29/2022	4.39	11/27/2026	105.49571	104.1483923	102.8257408	101.5271193	100.2519108	98.99951918	97.76936861	96.56090237	95.37358226
221129A00061	11/29/2022	4.39	11/27/2026	105.49571	104.1483923	102.8257408	101.5271193	100.2519108	98.99951918	97.76936861	96.56090237	95.37358226
221129A00062	11/29/2022	4.39	11/27/2026	105.49571	104.1483923	102.8257408	101.5271193	100.2519108	98.99951918	97.76936861	96.56090237	95.37358226
221129A00064	11/29/2022	4.28	11/30/2027	109.83545	107.4261667	105.0824825	102.8022522	100.5834134	98.42398288	96.32205255	94.27578649	92.28341766
221129A00065	11/29/2022	4.28	11/30/2027	109.83545	107.4261667	105.0824825	102.8022522	100.5834134	98.42398288	96.32205255	94.27578649	92.28341766
221129A00066	11/29/2022	4.28	11/29/2027	109.82322	107.4169125	105.0760575	102.7985129	100.5822192	98.42519571	96.32553728	94.28141102	92.29105306
221129A00067	11/29/2022	4.28	11/29/2027	109.82322	107.4169125	105.0760575	102.7985129	100.5822192	98.42519571	96.32553728	94.28141102	92.29105306
221129A00068	11/29/2022	4.28	11/29/2027	109.82322	107.4169125	105.0760575	102.7985129	100.5822192	98.42519571	96.32553728	94.28141102	92.29105306
221129A00069	11/29/2022	4.28	11/26/2027	109.78653	107.3891726	105.056831	102.7873693	100.5787354	98.42895708	96.33613775	94.29845361	92.31415015
221129A00070	11/29/2022	4.28	11/26/2027	109.78653	107.3891726	105.056831	102.7873693	100.5787354	98.42895708	96.33613775	94.29845361	92.31415015
221129A00071	11/29/2022	4.28	11/26/2027	109.78653	107.3891726	105.056831	102.7873693	100.5787354	98.42895708	96.33613775	94.29845361	92.31415015
221129A00072	11/29/2022	4.39	12/2/2026	105.55881	104.1985322	102.8623693	101.5497355	100.2600619	98.99279692	97.74740676	96.5233739	95.3201968
221129A00073	11/29/2022	4.39	12/2/2026	105.55881	104.1985322	102.8623693	101.5497355	100.2600619	98.99279692	97.74740676	96.5233739	95.3201968
221129A00075	11/29/2022	4.38	12/1/2026	105.53293	104.1755323	102.842161	101.5322286	100.2451693	98.98043477	97.73749388	96.51583197	95.31495015
221129A00076	11/29/2022	4.38	12/1/2026	105.53293	104.1755323	102.842161	101.5322286	100.2451693	98.98043477	97.73749388	96.51583197	95.31495015
221129A00077	11/29/2022	4.38	12/1/2026	105.53293	104.1755323	102.842161	101.5322286	100.2451693	98.98043477	97.73749388	96.51583197	95.31495015
221129A00078	11/29/2022	4.38	12/1/2026	105.53293	104.1755323	102.842161	101.5322286	100.2451693	98.98043477	97.73749388	96.51583197	95.31495015
221129A00083	11/29/2022	4.38	11/30/2026	105.52059	104.1659832	102.8353083	101.527984	100.2434474	98.98115319	97.74057316	96.52119533	95.32252345
221129A00084	11/29/2022	4.38	11/30/2026	105.52059	104.1659832	102.8353083	101.527984	100.2434474	98.98115319	97.74057316	96.52119533	95.32252345
221129A00085	11/29/2022	4.38	11/30/2026	105.52059	104.1659832	102.8353083	101.527984	100.2434474	98.98115319	97.74057316	96.52119533	95.32252345
221129A00086	11/29/2022	4.38	11/30/2026	105.52059	104.1659832	102.8353083	101.527984	100.2434474	98.98115319	97.74057316	96.52119533	95.32252345
221130A00019	11/30/2022	4.63	11/26/2025	101.3715	101.0429853	100.7165993	100.392326	100.0701449	99.75003568	99.43197844	99.11595347	98.80194129
221130A00032	11/30/2022	4.37	11/30/2027	110.04784	107.6360192	105.2898478	103.0071829	100.7859607	98.62419639	96.51998046	94.4714756	92.47691343
221130A00033	11/30/2022	4.37	11/30/2027	110.04784	107.6360192	105.2898478	103.0071829	100.7859607	98.62419639	96.51998046	94.4714756	92.47691343
221130A00069	11/30/2022	4.15	11/30/2027	109.69994	107.2888	104.9433839	102.6615411	100.4412037	98.28038255	96.17716443	94.12970838	92.1362426
221130A00075	11/30/2022	4.15	11/30/2027	109.69994	107.2888	104.9433839	102.6615411	100.4412037	98.28038255	96.17716443	94.12970838	92.1362426

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
221130A00076	11/30/2022	4.15	11/30/2027	109.69994	107.2888	104.9433839	102.6615411	100.4412037	98.28038255	96.17716443	94.12970838	92.1362426
221130A00081	11/30/2022	4.15	11/30/2027	109.69994	107.2888	104.9433839	102.6615411	100.4412037	98.28038255	96.17716443	94.12970838	92.1362426
221130A00085	11/30/2022	4.19	11/30/2027	109.62306	107.2163141	104.8751172	102.5973215	100.3808661	98.22376937	96.12412464	94.08009737	92.0899219
221130A00110	11/30/2022	4.15	11/30/2027	109.52866	107.1230463	104.7829549	102.5062411	100.2908451	98.13478559	96.03615668	93.99312444	92.00392378
221201A00011	12/1/2022	3.95	12/1/2027	109.23869	106.8303413	104.4877417	102.2087371	99.99125609	97.83330678	95.73297309	93.68841147	91.69784772
221201A00043	12/1/2022	4.37	12/3/2029	110.31265	107.7969008	105.3689144	103.0248912	100.7612229	98.57448277	96.46141509	94.41892551	92.44407193
221201A00068	12/1/2022	4.21	12/1/2027	109.27576	106.9633063	104.7146301	102.5275902	100.4001325	98.33028421	96.31614989	94.35590804	92.44780774
221202A00018	12/2/2022	4.16	12/2/2027	109.57528	107.1636472	104.8178328	102.5356796	100.3151143	98.15414271	96.05084691	94.0033814	92.00997014
221202A00025	12/2/2022	4.06	12/2/2026	105.20768	103.8483827	102.5132079	101.2015677	99.91289252	98.64663067	97.40224777	96.179226	94.97706353
221205A00024	12/5/2022	4.13	12/3/2027	109.51574	107.1020939	104.7543903	102.4704693	100.2482513	98.08573657	95.98100141	93.93219517	91.93753684
221205A00048	12/5/2022	4.4	12/5/2025	101.39775	101.0442901	100.6933006	100.3447551	99.99862809	99.65489443	99.31352927	98.97450812	98.63780685
221205A00088	12/5/2022	4.13	12/3/2027	109.51574	107.1020939	104.7543903	102.4704693	100.2482513	98.08573657	95.98100141	93.93219517	91.93753684
221206A00025	12/6/2022	4.27	12/4/2026	105.42031	104.0556124	102.7151986	101.3984723	100.1048584	98.83380032	97.58475881	96.35721137	95.15065167
221206A00036	12/6/2022	4.13	12/6/2027	109.55003	107.1277707	104.7718988	102.4802277	100.2506574	98.08116916	95.96982128	93.91474589	91.91414572
221206A00039	12/6/2022	4.29	12/7/2026	105.48378	104.1105266	102.7618362	101.4371037	100.1357447	98.85719342	97.60090186	96.36633918	95.15299099
221207A00009	12/7/2022	4.38	12/8/2025	101.42456	101.0627556	100.7035418	100.3468912	99.99277626	99.64116989	99.29204541	98.9453765	98.60113721
221207A00010	12/7/2022	4.08	12/7/2027	109.44249	107.0187966	104.6616049	102.3687237	100.1380473	97.96755126	95.85528876	93.79938698	91.79804393
221207A00012	12/7/2022	4.21	12/7/2026	105.37429	104.0018248	102.6539064	101.3299329	100.0293202	98.75150278	97.49593307	96.2620805	95.04943102
221207A00017	12/7/2022	3.86	12/7/2027	109.09118	106.6682098	104.3118109	102.0197899	99.79003681	97.62052304	95.50929775	93.45448444	91.45427767
221207A00032	12/7/2022	4.52	12/7/2032	129.76832	121.7070369	114.2244664	107.2756737	100.8194377	94.8179295	89.23641652	84.04299482	79.20834507
221207A00035	12/7/2022	4.31	1/7/2026	101.73104	101.2855586	100.8439926	100.4062856	99.97238713	99.54224741	99.11581767	98.69304994	98.27389706
221208A00001	12/8/2022	4.6	12/8/2033	133.44245	124.2147723	115.7261507	107.912825	100.7168666	94.08561475	87.97117189	82.3299506	77.12226501
221208A00005	12/8/2022	4.88	12/8/2037	146.53133	132.6685873	120.3509169	109.3940084	99.63658648	90.93741924	83.17272819	76.23394515	70.0257674
221208A00006	12/8/2022	4.88	12/8/2037	146.53133	132.6685873	120.3509169	109.3940084	99.63658648	90.93741924	83.17272819	76.23394515	70.0257674
221208A00020	12/8/2022	4.11	12/8/2027	109.52524	107.0978189	104.7370625	102.4407742	100.2068411	98.03323197	95.91799325	93.85924596	91.85518223
221208A00050	12/8/2022	4.11	12/8/2027	109.52524	107.0978189	104.7370625	102.4407742	100.2068411	98.03323197	95.91799325	93.85924596	91.85518223
221208A00051	2/15/2023	4.27	2/13/2026	102.1112	101.5624771	101.0196639	100.4826661	99.95139044	99.42574551	98.905642	98.39099241	97.8817111
221208A00052	2/15/2023	4.01	2/15/2028	110.06184	107.4361937	104.8876452	102.4134688	100.0110506	97.67788589	95.41157355	93.20981126	91.07039059
221208A00054	2/1/2023	4.02	2/1/2028	109.92069	107.3379282	104.830218	102.3949392	100.0295777	97.73172237	95.49906065	93.32937338	91.22053065
221208A00061	12/8/2022	4.11	12/8/2027	109.52524	107.0978189	104.7370625	102.4407742	100.2068411	98.03323197	95.91799325	93.85924596	91.85518223
221208A00062	12/8/2022	4.24	12/8/2028	114.1084	110.5907102	107.2022384	103.9375584	100.7914987	97.75913098	94.83575777	92.01690012	89.29828635
221208A00110	12/8/2022	4.07	12/8/2027	109.42996	107.0036852	104.6440542	102.3488673	100.1160124	97.94345887	95.82925385	93.77151898	91.76844699
221209A00035	12/9/2022	3.91	12/9/2027	109.2323	106.8021544	104.4389081	102.1403497	99.90435484	97.72888112	95.61196477	93.55171696	91.54632054

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	Parallel-Shift Sensitivity Analysis											
7/31/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
221209A00037	12/9/2022	3.91	12/9/2027	109.2323	106.8021544	104.4389081	102.1403497	99.90435484	97.72888112	95.61196477	93.55171696	91.54632054
221209A00070	12/9/2022	4.42	12/9/2037	126.30352	118.8208382	111.9567943	105.6520228	99.85342814	94.51347061	89.58954098	85.04341037	80.8407451
221212A00011	12/12/2022	3.89	12/10/2027	109.19553	106.7630958	104.3976947	102.0971095	99.85920962	97.68194651	95.56335065	93.50152774	91.49465544
221212A00040	12/12/2022	4.45	12/12/2025	101.49574	101.1227204	100.7524569	100.3849178	100.0200732	99.65789311	99.29834847	98.9414104	98.5870505
221212A00041	12/12/2022	4.15	12/10/2027	109.64349	107.209174	104.8418409	102.5392799	100.299364	98.12004837	95.99936667	93.93542772	91.92641211
221212A00063	12/12/2022	4.45	12/12/2025	101.49574	101.1227204	100.7524569	100.3849178	100.0200732	99.65789311	99.29834847	98.9414104	98.5870505
221212A00071	12/12/2022	4.15	12/13/2027	109.67794	107.2350019	104.8594891	102.5491698	100.3018964	98.1156047	95.98831023	93.91810439	91.90315125
221212A00117	6/12/2023	4.11	6/12/2026	103.24898	102.3679859	101.5020606	100.6508188	99.81388883	98.9909113	98.18153889	97.38543572	96.60227691
221212A00131	12/12/2023	3.77	12/11/2026	104.81471	103.4354843	102.0811026	100.7509509	99.44443443	98.16097753	96.90002275	95.66103019	94.44347681
221213A00004	12/13/2022	3.99	12/13/2027	109.29459	106.8563026	104.4853422	102.1794779	99.93656509	97.75454243	95.63142802	93.56531585	91.5543725
221213A00017	12/13/2022	4.1	12/14/2026	105.30469	103.9138181	102.5481296	101.206996	99.8898113	98.59598929	97.32496228	96.07618062	94.84911189
221213A00047	12/13/2022	3.8	12/13/2027	109.01262	106.5742008	104.2032033	101.8973884	99.65460656	97.47279153	95.34995693	93.28419251	91.27366081
221213A00051	12/13/2022	4.02	12/13/2027	109.36647	106.9273087	104.5554947	102.2487951	100.0050647	97.82224161	95.69834343	93.6314637	91.61976851
221213A00056	12/13/2022	4.02	5/13/2026	102.91338	102.1158101	101.3306245	100.55754	99.79627781	99.04656791	98.30814827	97.58076481	96.86417102
221213A00061	12/13/2022	4.15	12/11/2026	105.33898	103.9559663	102.5978608	101.2640485	99.95393292	98.66693661	97.40250057	96.16008335	94.93916044
221214A00020	12/14/2022	4.2	12/12/2025	101.40276	101.0299523	100.6598975	100.2925662	99.92792804	99.56595348	99.20661323	98.84987847	98.49572081
221214A00022	12/14/2022	4.17	2/13/2026	102.05655	101.5079924	100.9653489	100.4285194	99.89741076	99.37193164	98.85199267	98.3375064	97.82838718
221214A00031	12/14/2022	3.97	12/14/2027	109.25766	106.8170865	104.4439794	102.1360965	99.89128698	97.70748324	95.58269764	93.5150187	91.50260779
221214A00077	12/14/2022	3.84	12/14/2027	109.11937	106.6769204	104.3020647	101.9925568	99.74623941	97.56103921	95.43496299	93.36609405	91.35258877
221214A00079	12/14/2022	3.84	12/14/2027	109.11937	106.6769204	104.3020647	101.9925568	99.74623941	97.56103921	95.43496299	93.36609405	91.35258877
221214A00102	12/14/2022	4.33	12/15/2025	101.48436	101.1030769	100.7246703	100.3491099	99.97636368	99.60639983	99.23918716	98.87469492	98.51289281
221215A00082	12/15/2022	4.27	12/15/2025	101.46155	101.0803155	100.701961	100.3264526	99.9537579	99.58384537	99.21668374	98.85224225	98.49049063
221215A00115	12/15/2022	4	12/15/2027	109.34069	106.8963758	104.5196951	102.2083976	99.96032491	97.77340258	95.64563628	93.57510826	91.55997388
221216A00007	12/16/2022	4.27	12/16/2025	101.47253	101.0885037	100.7074006	100.3291846	99.95382281	99.58128283	99.21153279	98.8445413	98.48027743
221216A00008	12/16/2022	4.27	12/16/2025	101.47253	101.0885037	100.7074006	100.3291846	99.95382281	99.58128283	99.21153279	98.8445413	98.48027743
221216A00009	12/16/2022	4.27	12/16/2025	101.47253	101.0885037	100.7074006	100.3291846	99.95382281	99.58128283	99.21153279	98.8445413	98.48027743
221216A00010	12/16/2022	4.27	12/16/2025	101.47253	101.0885037	100.7074006	100.3291846	99.95382281	99.58128283	99.21153279	98.8445413	98.48027743
221216A00013	12/16/2022	4.04	12/16/2027	109.44792	106.9995767	104.6190318	102.3040354	100.0524216	97.86210861	95.73109542	93.65745773	91.63934479
221216A00023	12/16/2022	4.04	12/13/2027	109.41439	106.9746461	104.6022631	102.2950066	100.0507311	97.86737439	95.74295371	93.67556227	91.66336586
221219A00043	12/19/2022	4.07	12/17/2027	109.53131	107.0792165	104.6950891	102.3766695	100.1217846	97.9283455	95.79434453	93.71785109	91.6970084
221220A00025	12/20/2022	4.38	12/22/2025	101.58236	101.1814731	100.7837654	100.3891951	99.99772501	99.60931865	99.22394001	98.84155367	98.46212477
221221A00043	12/21/2022	4.26	12/19/2025	101.50155	101.1091603	100.7198182	100.3334873	99.95013262	99.56971972	99.1922147	98.81758417	98.44579525
221221A00048	12/21/2022	4.22	12/21/2026	105.55451	104.1428891	102.7571284	101.3965785	100.0606102	98.74861489	97.46000361	96.19420623	94.95067075

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
221221A00049	12/21/2022	4.15	12/21/2027	109.76981	107.3038528	104.9065116	102.5754936	100.3085965	98.10370419	95.9587827	93.87187667	91.84110583
221221A00053	12/21/2022	4.15	12/21/2027	109.76981	107.3038528	104.9065116	102.5754936	100.3085965	98.10370419	95.9587827	93.87187667	91.84110583
221222A00012	12/22/2022	4.35	12/16/2025	101.50317	101.1190732	100.7378996	100.3596135	99.98418195	99.61157264	99.24175365	98.87469358	98.51036151
221222A00013	12/22/2022	4.34	12/23/2025	101.57754	101.1739023	100.7734806	100.3762383	99.98213744	99.59114078	99.20321165	98.81831395	98.43641215
221222A00024	12/22/2022	4.35	12/15/2025	101.49197	101.110664	100.73224	100.3566624	99.98389893	99.61391798	99.2466883	98.88217914	98.5203602
221222A00026	12/22/2022	4.22	12/15/2026	105.48314	104.0882684	102.7186941	101.3737852	100.0529321	98.75554486	97.48105232	96.22890151	94.99855684
221222A00027	12/22/2022	4.16	12/15/2027	109.72492	107.2759406	104.8946871	102.5789147	100.3264621	98.13525207	96.00328751	93.92864808	91.90948668
221222A00035	12/30/2022	4.34	12/30/2025	101.65574	101.2325294	100.8128421	100.3966332	99.98385988	99.57447959	99.16845067	98.76573209	98.36628351
221222A00053	12/22/2022	4.18	12/22/2027	109.70284	107.2686062	104.903483	102.6050961	100.371165	98.19950184	96.08800652	94.03466295	92.03753503
221223A00025	12/23/2022	4.25	12/23/2027	110.03514	107.5604515	105.1547398	102.8156981	100.5411082	98.32883897	96.17684239	94.08314961	92.04586754
221228A00044	12/28/2022	4.31	12/28/2027	110.24019	107.7492579	105.3280898	102.9743432	100.6857642	98.46018724	96.29553201	94.18979894	92.14106579
221228A00075	12/28/2022	4.09	12/28/2027	109.88091	107.390753	104.9704407	102.6176209	100.3300347	98.10551233	95.94196901	93.83740128	91.78988314
221228A00129	12/28/2022	4.11	12/28/2027	109.9286	107.4363694	105.0156895	102.6640785	100.3791554	98.15863667	96.00033115	93.90213602	91.86203259
221229A00075	12/29/2022	5.2	12/29/2037	150.53377	136.3798913	123.802974	112.6146143	102.6500085	93.76488247	85.83283221	78.74302005	72.39817914
221230A00087	12/30/2022	4.56	1/2/2026	101.78367	101.3518567	100.9237087	100.4991795	100.0782236	99.6607958	99.24685194	98.83634849	98.42924266
221230A00088	12/30/2022	4.42	12/30/2026	105.94802	104.5090979	103.0969328	101.710842	100.3501656	99.0142656	97.70252463	96.41434558	95.14915052
221230A00109	12/30/2022	4.56	12/30/2025	101.74854	101.3250956	100.9051754	100.4887352	100.0757319	99.66612307	99.25986695	98.85692254	98.45724947
221230A00111	12/30/2022	4.42	12/30/2026	105.94802	104.5090979	103.0969328	101.710842	100.3501656	99.0142656	97.70252463	96.41434558	95.14915052
230103A00066	1/3/2023	4.19	7/15/2026	103.75164	102.7761979	101.8191507	100.8799778	99.95818092	99.05328033	98.16481378	97.29233577	96.43541681
230103A00070	1/3/2023	4.53	10/15/2025	100.85593	100.6445819	100.4341321	100.2245772	100.0159115	99.8081291	99.60122443	99.39519183	99.19002572
230104A00004	1/4/2023	4.19	1/4/2028	110.0285	107.5210474	105.0843562	102.7160296	100.4137647	98.17535015	95.99866191	93.88165924	91.82238087
230104A00044	1/4/2023	4.2	1/4/2028	110.05307	107.5453109	105.1083211	102.7397022	100.4371513	98.19845692	96.02149476	93.90422391	91.84468296
230105A00020	1/5/2023	4.32	1/5/2028	110.35977	107.8454586	105.4021586	103.0274558	100.7190373	98.4746821	96.29225716	94.16971307	92.10508037
230106A00017	1/6/2023	4.23	1/6/2028	110.15001	107.6355842	105.1922589	102.8176205	100.5093503	98.26522186	96.08309707	93.96092168	91.89672169
230106A00019	1/6/2023	4.23	1/6/2028	110.15001	107.6355842	105.1922589	102.8176205	100.5093503	98.26522186	96.08309707	93.96092168	91.89672169
230106A00032	1/6/2023	4.28	1/6/2026	101.73752	101.2944265	100.8551989	100.4197895	99.98814862	99.56022732	99.13597755	98.71535208	98.29830448
230109A00042	1/9/2023	4.07	12/20/2027	109.5651	107.1043842	104.7120849	102.3859174	100.1236878	97.92328791	95.7826913	93.69994988	91.67319019
230109A00083	1/9/2023	4.79	1/11/2038	145.63095	131.7338918	119.3974627	108.4341629	98.68009083	89.9918558	82.24390958	75.3262376	69.14235937
230110A00006	1/10/2023	4.06	1/10/2028	109.77598	107.2553046	104.8062413	102.4263473	100.1132769	97.86477826	95.6786893	93.55293317	91.48551449
230110A00023	1/10/2023	4.3	1/12/2026	101.78135	101.3219349	100.8666806	100.4155308	99.96842996	99.52532363	99.08615825	98.65088122	98.2194409
230110A00035	1/10/2023	4.08	1/10/2028	109.82256	107.3002847	104.8511231	102.4725096	100.1619852	97.91719281	95.73587224	93.61585551	91.5550625
230110A00040	1/13/2023	4.07	12/13/2027	109.48627	107.0456522	104.6724157	102.3643238	100.1192307	97.93507357	95.80986912	93.74171012	91.72876187
230110A00043	1/10/2023	3.84	1/10/2028	109.41092	106.8910836	104.4429357	102.0640296	99.75201464	97.50463442	95.3197223	93.1951973	91.12906017

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230110A00047	1/10/2023	3.84	1/10/2028	109.41092	106.8910836	104.4429357	102.0640296	99.75201464	97.50463442	95.3197223	93.1951973	91.12906017
230110A00055	1/10/2023	4.06	1/10/2028	109.77598	107.2553046	104.8062413	102.4263473	100.1132769	97.86477826	95.6786893	93.55293317	91.48551449
230110A00070	1/10/2023	4.27	1/9/2026	101.73501	101.2840036	100.8370058	100.3939644	99.95482706	99.51954206	99.08805877	98.66032738	98.23629896
230111A00004	1/11/2023	3.83	1/11/2028	109.39688	106.8744886	104.4239377	102.0427708	99.72862988	97.47925145	95.29246229	93.16617515	91.09838485
230111A00013	1/11/2023	4.25	1/9/2026	101.72602	101.2750365	100.8280623	100.3850444	99.94593036	99.51066856	99.0792083	98.6514998	98.22749413
230111A00019	1/11/2023	3.83	1/11/2028	109.39688	106.8744886	104.4239377	102.0427708	99.72862988	97.47925145	95.29246229	93.16617515	91.09838485
230111A00046	1/11/2023	4.28	1/13/2026	101.78309	101.3209058	100.8629351	100.4091183	99.95939892	99.51372144	99.07203135	98.63427514	98.20040024
230112A00004	1/12/2023	4	1/12/2028	109.64953	107.1249825	104.6723217	102.2890877	99.97292097	97.72155654	95.53281974	93.40462192	91.3349566
230112A00014	1/12/2023	4.09	1/12/2027	105.62459	104.1530203	102.7094694	101.2932034	99.90351583	98.53972402	97.20116833	95.88721101	94.59723536
230112A00041	1/12/2023	4.2	1/12/2026	101.73556	101.2762716	100.8211394	100.370111	99.92313073	99.4801442	99.04109785	98.6059391	98.1746163
230112A00042	1/12/2023	4.09	1/12/2027	105.62459	104.1530203	102.7094694	101.2932034	99.90351583	98.53972402	97.20116833	95.88721101	94.59723536
230112A00044	1/12/2023	4	1/12/2028	109.64953	107.1249825	104.6723217	102.2890877	99.97292097	97.72155654	95.53281974	93.40462192	91.3349566
230112A00059	3/1/2023	4.04	3/2/2026	102.15351	101.5577625	100.9689619	100.3869914	99.81173276	99.24307018	98.68089066	98.12508373	97.57554141
230112A00060	3/15/2023	4.01	3/13/2026	102.24279	101.6164825	100.9978653	100.3867961	99.78313703	99.18675367	98.59751475	98.01529217	97.43996088
230112A00061	3/15/2023	4.01	3/13/2026	102.24279	101.6164825	100.9978653	100.3867961	99.78313703	99.18675367	98.59751475	98.01529217	97.43996088
230112A00062	3/15/2023	3.83	3/15/2028	109.91686	107.2109681	104.5863287	102.039991	99.56913309	97.17105435	94.84316967	92.58300342	90.38818402
230112A00063	3/15/2023	3.83	3/15/2028	109.91686	107.2109681	104.5863287	102.039991	99.56913309	97.17105435	94.84316967	92.58300342	90.38818402
230112A00065	1/12/2023	4.09	1/12/2027	105.62459	104.1530203	102.7094694	101.2932034	99.90351583	98.53972402	97.20116833	95.88721101	94.59723536
230112A00066	1/12/2023	4	1/12/2028	109.64953	107.1249825	104.6723217	102.2890877	99.97292097	97.72155654	95.53281974	93.40462192	91.3349566
230113A00037	1/26/2024	3.43	1/30/2026	101.53691	101.0284716	100.5251223	100.0267835	99.53338072	99.04484083	98.56109226	98.08206479	97.60768956
230113A00055	1/13/2023	3.88	1/13/2028	109.36269	106.8390159	104.3873031	102.0050861	99.69000016	97.43977539	95.25223252	93.12527865	91.05690322
230113A00057	1/13/2023	3.99	1/13/2028	109.17971	106.7680459	104.4255786	102.1498847	99.93864323	97.78962965	95.70071085	93.66984085	91.69505658
230113A00080	1/13/2023	4.18	1/13/2026	101.73702	101.2749666	100.8171194	100.3634254	99.91382789	99.46827153	99.02670179	98.58906515	98.15530906
230117A00040	1/17/2023	4.07	1/19/2027	105.67515	104.1842915	102.7221743	101.2880348	99.88113962	98.5007808	97.14627431	95.81695917	94.51219645
230117A00048	1/17/2023	3.97	1/14/2028	109.59695	107.0676114	104.6104515	102.2229963	99.90287163	97.64779858	95.45558943	93.32414319	91.25144167
230117A00087	1/17/2023	3.93	1/18/2028	109.54071	107.001174	104.53442	102.137941	99.80933285	97.54628862	95.34659386	93.2081224	91.12883223
230118A00019	1/18/2023	3.59	1/18/2028	108.87239	106.3375128	103.8754131	101.4835807	99.15960889	96.90118811	94.70610172	92.57222147	90.49750346
230118A00020	1/18/2023	3.87	1/16/2026	101.65609	101.1855816	100.7194396	100.2576066	99.80002301	99.34663003	98.89737012	98.45218673	98.01102438
230118A00033	1/18/2023	3.81	1/18/2028	109.24123	106.7054705	104.2424115	101.8495465	99.52447371	97.26488856	95.0685789	92.93342074	90.85737417
230118A00039	1/18/2023	3.81	1/18/2028	109.24123	106.7054705	104.2424115	101.8495465	99.52447371	97.26488856	95.0685789	92.93342074	90.85737417
230118A00053	1/18/2023	3.87	1/16/2026	101.65609	101.1855816	100.7194396	100.2576066	99.80002301	99.34663003	98.89737012	98.45218673	98.01102438
230118A00056	1/18/2023	3.87	1/16/2026	101.65609	101.1855816	100.7194396	100.2576066	99.80002301	99.34663003	98.89737012	98.45218673	98.01102438
230118A00058	1/23/2023	4	2/17/2026	102.00278	101.4433675	100.8901019	100.3428819	99.80160862	99.2661854	98.73651756	98.21251249	97.69407956

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230118A00087	1/18/2023	4.02	1/16/2026	101.69405	101.2238259	100.7579595	100.2963946	99.83907147	99.38593169	98.93691784	98.4919736	98.05104362
230119A00034	1/19/2023	3.82	1/19/2028	109.27666	106.7377385	104.2716743	101.8759602	99.54818663	97.28604148	95.08730555	92.94984817	90.87162312
230119A00105	1/19/2023	3.9	1/19/2027	105.42226	103.9333615	102.4731691	101.0409211	99.63588522	98.2573543	96.90464513	95.57709754	94.27407339
230119A00108	1/19/2023	3.81	1/19/2028	109.25168	106.7130696	104.2473139	101.8519016	99.52442329	97.26256701	95.06411376	92.92693306	90.84897887
230119A00137	1/19/2023	3.9	1/19/2027	105.42226	103.9333615	102.4731691	101.0409211	99.63588522	98.2573543	96.90464513	95.57709754	94.27407339
230120A00021	1/20/2023	4.13	1/20/2026	101.78756	101.3060174	100.829048	100.3565824	99.88855692	99.42490892	98.96557705	98.5105011	98.05962194
230120A00022	1/20/2023	3.9	1/20/2028	109.48724	106.9429319	104.4716961	102.0710143	99.73846758	97.47173495	95.26858882	93.12689055	91.04458636
230120A00027	1/20/2023	4.13	1/20/2026	101.78756	101.3060174	100.829048	100.3565824	99.88855692	99.42490892	98.96557705	98.5105011	98.05962194
230120A00029	1/20/2023	3.9	1/20/2028	109.48724	106.9429319	104.4716961	102.0710143	99.73846758	97.47173495	95.26858882	93.12689055	91.04458636
230120A00079	1/20/2023	3.68	1/20/2028	109.1178	106.5743696	104.1040957	101.7044496	99.37300734	97.10744297	94.90552435	92.76510855	90.68413777
230120A00099	1/20/2023	3.92	1/20/2026	101.7199	101.238151	100.7609801	100.2883204	99.82010809	99.3562803	98.89677551	98.44153329	97.99049436
230120A00103	1/20/2023	3.92	1/20/2026	101.7199	101.238151	100.7609801	100.2883204	99.82010809	99.3562803	98.89677551	98.44153329	97.99049436
230120A00114	1/20/2023	4.13	1/20/2026	101.78756	101.3060174	100.829048	100.3565824	99.88855692	99.42490892	98.96557705	98.5105011	98.05962194
230120A00117	1/20/2023	3.9	1/20/2028	109.48724	106.9429319	104.4716961	102.0710143	99.73846758	97.47173495	95.26858882	93.12689055	91.04458636
230123A00051	1/23/2023	3.75	1/21/2028	109.30353	106.7550247	104.2798779	101.8755569	99.53962828	97.26975748	95.0637041	92.9193174	90.83453213
230124A00004	1/24/2023	3.99	1/24/2028	109.75616	107.1975298	104.7126716	102.2990295	99.95415172	97.67568629	95.46137617	93.3090549	91.21664234
230124A00014	1/24/2023	4.23	1/26/2026	101.90009	101.4016418	100.9080757	100.4193212	99.93530811	99.45596759	98.98123213	98.51103551	98.04531277
230124A00015	1/24/2023	4.09	1/25/2027	105.77374	104.265901	102.7874346	101.3375526	99.91549814	98.52054089	97.15197544	95.80912039	94.49131731
230124A00024	1/24/2023	4.23	1/23/2026	101.86783	101.3777677	100.8924348	100.4117594	99.9356745	99.46411449	98.99701491	98.53431256	98.07594542
230124A00025	1/24/2023	4.09	1/25/2027	105.77374	104.265901	102.7874346	101.3375526	99.91549814	98.52054089	97.15197544	95.80912039	94.49131731
230124A00045	1/24/2023	3.99	1/24/2028	109.75616	107.1975298	104.7126716	102.2990295	99.95415172	97.67568629	95.46137617	93.3090549	91.21664234
230124A00046	1/24/2023	3.99	1/24/2028	109.75616	107.1975298	104.7126716	102.2990295	99.95415172	97.67568629	95.46137617	93.3090549	91.21664234
230124A00055	6/15/2023	4.13	6/15/2032	125.59266	118.1650245	111.2423149	104.7873513	98.76587756	93.14631789	87.89955431	82.99872365	78.41903219
230124A00056	3/28/2023	4.19	3/28/2033	128.16585	119.8516058	112.1575356	105.0336844	98.43438357	92.3178616	86.64589176	81.38347357	76.49854426
230124A00058	6/15/2023	4.21	6/15/2034	131.52178	121.8505898	112.9986599	104.8915079	97.4618038	90.64865027	84.39693784	78.65676721	73.38293211
230125A00010	1/25/2023	4.01	1/25/2027	105.6534	104.1465081	102.6689673	101.2199948	99.79883435	98.40475592	97.03705452	95.69504917	94.3780818
230125A00022	1/25/2023	3.8	1/25/2027	105.44402	103.9370146	102.4593926	101.0103698	99.58918833	98.19511699	96.82744951	95.48550372	94.16862046
230125A00023	1/25/2023	3.69	1/25/2028	109.19447	106.6364252	104.1523381	101.7396372	99.39585942	97.11864193	94.90571772	92.75491088	90.66413241
230125A00031	1/25/2023	3.74	1/25/2028	108.86175	106.423954	104.0567894	101.7577554	99.52445792	97.35460353	95.24599435	93.19652348	91.20417051
230126A00015	1/26/2023	4.08	1/26/2027	105.77014	104.2596293	102.7785906	101.3262352	99.90180245	98.50455833	97.13379388	95.78882433	94.46898805
230126A00036	1/26/2023	4.19	1/26/2026	101.88022	101.3818325	100.8883234	100.3996255	99.91566867	99.436384	98.96170399	98.49156243	98.02589438
230127A00012	1/27/2023	4	1/27/2028	109.81422	107.2466599	104.7533547	102.331725	99.9792952	97.69369104	95.47263441	93.31393893	91.21550561
230127A00044	1/27/2023	4.25	1/27/2026	101.92083	101.4195582	100.9232181	100.4317415	99.94505717	99.4630951	98.98578676	98.5130649	98.04486359

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	Parallel-Shift Sensitivity Analysis											
7/31/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230127A00045	1/27/2023	4.12	1/27/2027	105.84197	104.3281956	102.8440024	101.3886016	99.96122859	98.56114523	97.1876388	95.84002095	94.51762655
230127A00046	1/27/2023	4	1/27/2028	109.81422	107.2466599	104.7533547	102.331725	99.9792952	97.69369104	95.47263441	93.31393893	91.21550561
230127A00048	1/27/2023	4	1/27/2028	109.81422	107.2466599	104.7533547	102.331725	99.9792952	97.69369104	95.47263441	93.31393893	91.21550561
230127A00053	1/27/2023	4	1/27/2028	109.81422	107.2466599	104.7533547	102.331725	99.9792952	97.69369104	95.47263441	93.31393893	91.21550561
230127A00056	1/27/2023	3.78	1/27/2028	109.44218	106.8755216	104.3832001	101.9626291	99.61132783	97.32691698	95.10711378	92.94972743	90.85265484
230127A00060	1/30/2023	4.25	2/3/2026	101.99551	101.4747031	100.9592163	100.4489701	99.9438851	99.44388305	98.94888749	98.45882343	97.9736174
230127A00073	1/27/2023	4.24	2/17/2026	102.13661	101.5767752	101.0230867	100.4754472	99.93375776	99.39792154	98.86784386	98.34343209	97.82459554
230127A00096	1/27/2023	4.21	1/27/2026	101.90086	101.3996386	100.9033562	100.4119369	99.92530939	99.44340376	98.96615146	98.49348527	98.02533923
230130A00045	1/30/2023	4.02	1/28/2028	109.87567	107.3045916	104.8079449	102.3831385	100.0276888	97.73921375	95.51542775	93.35413747	91.25323733
230130A00086	1/30/2023	4.16	2/1/2027	105.96194	104.4334112	102.9349841	101.465849	100.0252215	98.61234471	97.22648793	95.86694571	94.53303663
230130A00087	1/30/2023	4.04	1/28/2028	109.92614	107.3544157	104.8571397	102.431718	100.0756664	97.78660255	95.56224044	93.40038637	91.29893438
230130A00095	2/3/2023	4.25	5/26/2026	103.18283	102.3489658	101.5286073	100.7214271	99.927109	99.14534713	98.37584504	97.61831563	96.87248069
230130A00127	1/30/2023	4.02	2/1/2028	109.92069	107.3379282	104.830218	102.3949392	100.0295777	97.73172237	95.49906065	93.32937338	91.22053065
230131A00004	1/31/2023	3.76	1/31/2028	109.43381	106.8563396	104.3538332	101.9236682	99.56333264	97.27041806	95.04261402	92.87770362	90.77355907
230131A00006	1/31/2023	4.23	2/2/2026	101.97471	101.4567205	100.9439916	100.4364466	99.93400718	99.43659654	98.94413941	98.45656205	97.97379215
230131A00009	1/31/2023	3.98	1/31/2028	109.80751	107.2291196	104.7256132	102.2943724	99.93289081	97.63876494	95.40968912	93.24345088	91.13792661
230131A00032	2/3/2023	4.17	7/30/2026	103.83002	102.8137362	101.8173835	100.8403829	99.88217394	98.94221786	98.0199962	97.11501001	96.2267789
230131A00034	2/3/2023	3.99	12/23/2027	109.40499	106.9380343	104.5398875	102.2082478	99.94090187	97.73572329	95.5906685	93.503773	91.4731479
230131A00057	1/31/2023	4.1	1/29/2027	105.83478	104.3156497	102.8263099	101.3659612	99.93383121	98.52917425	97.15127057	95.79942502	94.47296604
230131A00067	1/31/2023	4.02	2/2/2026	101.90203	101.3838153	100.8708773	100.3631314	99.86049919	99.36290359	98.87026911	98.38252178	97.89958909
230131A00071	1/31/2023	4.22	1/30/2026	101.93803	101.4284147	100.9238906	100.4243854	99.92982463	99.44013502	98.95524489	98.47508392	97.99958319
230131A00087	2/3/2023	4.26	1/5/2026	101.68715	101.2473104	100.8112785	100.3790082	99.95045077	99.52555844	99.10428427	98.6865821	98.27240654
230131A00095	1/31/2023	4.22	1/30/2026	101.93803	101.4284147	100.9238906	100.4243854	99.92982463	99.44013502	98.95524489	98.47508392	97.99958319
230201A00003	2/1/2023	3.93	1/31/2028	109.68092	107.1041541	104.6022309	102.1725382	99.81257072	97.51992599	95.29229932	93.12747919	91.02334291
230201A00011	2/1/2023	3.93	2/1/2028	109.69259	107.1127471	104.6078926	102.1754062	99.81277567	97.51759191	95.28754396	93.12041444	91.01407508
230201A00012	2/1/2023	4.08	2/1/2027	105.84006	104.3124922	102.8150137	101.3468108	99.90709941	98.49512313	97.11015171	95.75148006	94.41842717
230202A00006	2/2/2023	3.92	2/2/2027	105.60854	104.0798087	102.5812218	101.1119635	99.671247	98.25831323	96.87242944	95.51288822	94.17900629
230202A00008	2/2/2023	3.81	2/2/2028	109.39979	106.8207741	104.3168033	101.885254	99.52360922	97.22945581	95.00047892	92.83445758	90.72926015
230202A00011	2/2/2023	3.92	2/2/2027	105.60854	104.0798087	102.5812218	101.1119635	99.671247	98.25831323	96.87242944	95.51288822	94.17900629
230202A00034	2/2/2024	3.41	2/2/2026	101.55154	101.0348058	100.5233311	100.0170312	99.51582782	99.0196443	98.52840547	98.0420377	97.56046878
230202A00038	2/2/2023	3.84	2/2/2028	109.47591	106.8959155	104.3909909	101.9585088	99.5959518	97.30090606	95.07105615	92.9041805	90.79814694
230202A00041	2/2/2023	3.82	2/2/2028	109.42516	106.8458212	104.3415325	101.9096722	99.54772341	97.25327256	95.02400467	92.85769855	90.75222241
230202A00042	2/2/2023	3.82	2/2/2028	109.42516	106.8458212	104.3415325	101.9096722	99.54772341	97.25327256	95.02400467	92.85769855	90.75222241

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	Parallel-Shift Sensitivity Analysis												
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230202A00045	2/2/2023	3.62	2/2/2028	109.10111	106.5220511	104.0181404	101.5867479	99.22535085	96.93153028	94.702966	92.537432	90.43279191
230202A00050	2/2/2023	3.82	2/2/2028	109.42516	106.8458212	104.3415325	101.9096722	99.54772341	97.25327256	95.02400467	92.85769855	90.75222241
230202A00061	2/2/2023	4.16	2/2/2026	101.93859	101.4207034	100.9080816	100.4006429	99.89830894	99.40100305	98.90864993	98.42117583	97.93850845
230202A00096	2/2/2023	3.81	2/2/2028	109.39979	106.8207741	104.3168033	101.885254	99.52360922	97.22945581	95.00047892	92.83445758	90.72926015
230203A00021	2/8/2023	4.21	6/17/2026	103.39184	102.496382	101.6164719	100.7517088	99.90170352	99.06607989	98.24447459	97.43653644	96.64192589
230203A00026	2/3/2023	3.98	2/3/2028	109.84293	107.2553028	104.7429912	102.303359	99.93387871	97.63212688	95.39577906	93.2226051	91.1104647
230203A00038	2/3/2023	4.1	2/3/2027	105.89603	104.3620122	102.8582701	101.3839801	99.9383508	98.52061854	97.13004634	95.76592271	94.42756049
230203A00039	2/3/2023	3.98	2/3/2028	109.84293	107.2553028	104.7429912	102.303359	99.93387871	97.63212688	95.39577906	93.2226051	91.1104647
230203A00043	2/14/2023	4.31	2/13/2026	102.13306	101.584271	101.04139	100.5043248	99.97298231	99.44727106	98.92710173	98.41238681	97.90304066
230203A00045	2/14/2023	4.31	2/13/2026	102.13306	101.584271	101.04139	100.5043248	99.97298231	99.44727106	98.92710173	98.41238681	97.90304066
230203A00053	2/10/2023	4.32	2/10/2026	102.10652	101.566086	101.0313826	100.5023213	99.97881295	99.46077027	98.94810783	98.44074193	97.93859065
230203A00054	2/10/2023	4.32	2/10/2026	102.10652	101.566086	101.0313826	100.5023213	99.97881295	99.46077027	98.94810783	98.44074193	97.93859065
230203A00057	2/3/2023	4.34	2/3/2026	102.04221	101.521259	101.0056332	100.4952491	99.99002712	99.48988913	98.99475861	98.50456056	98.01922149
230203A00058	2/3/2023	4.34	2/3/2026	102.04221	101.521259	101.0056332	100.4952491	99.99002712	99.48988913	98.99475861	98.50456056	98.01922149
230208A00029	2/8/2023	4.27	2/8/2027	106.22207	104.6704288	103.1495475	101.6585887	100.1967414	98.76322324	97.35727961	95.97818223	94.62522802
230208A00036	2/8/2023	4.43	2/6/2026	102.12183	101.5923749	101.068418	100.5498747	100.0366613	99.52869578	99.02589783	98.52818875	98.03549144
230208A00038	2/8/2023	4.27	2/8/2027	106.22207	104.6704288	103.1495475	101.6585887	100.1967414	98.76322324	97.35727961	95.97818223	94.62522802
230208A00039	2/8/2023	4.17	2/8/2028	110.38721	107.7779087	105.2447962	102.7851925	100.3965304	98.07634911	95.82228876	93.63208587	91.50356859
230208A00040	2/8/2023	4.26	2/8/2029	114.88667	111.1817136	107.6189828	104.1922216	100.8954889	97.7231374	94.66979657	91.73035807	88.89996116
230208A00041	2/8/2023	4.32	2/8/2030	119.24859	114.4202603	109.8206772	105.4377392	101.2600545	97.27689145	93.47813679	89.85425656	86.39625992
230208A00055	2/8/2023	4.22	2/6/2026	102.04768	101.5180039	100.9938343	100.4750869	99.96167775	99.45352459	98.95054686	98.45266564	97.95980363
230208A00060	2/8/2023	4.06	2/8/2027	106.00775	104.4559991	102.9350437	101.4440433	99.98218546	98.54868638	97.14279009	95.76376704	94.41091294
230209A00024	2/9/2023	4.4	2/5/2026	102.09512	101.568505	101.0473264	100.5315039	100.0209553	99.51559969	99.0153582	98.52015331	98.02990913
230209A00025	2/9/2023	4.25	2/5/2027	106.15172	104.6096599	103.0980862	101.6161693	100.1631094	98.73813488	97.34050141	95.96949035	94.62440781
230209A00027	2/9/2023	4.12	2/7/2028	110.24732	107.6427591	105.1142034	102.6589813	100.274534	97.9584084	95.70825197	93.52180817	91.3969117
230209A00037	2/9/2023	4.12	2/9/2028	110.27171	107.6609656	105.1265157	102.6656781	100.2758797	97.95465392	95.69963562	93.5085563	91.3792394
230210A00035	2/10/2023	4.52	2/10/2026	102.21417	101.6734024	101.1383691	100.6089805	100.0851472	99.5667821	99.05379959	98.54611601	98.04364937
230210A00055	2/10/2023	4.02	2/10/2028	110.21407	107.5971866	105.056922	102.5905736	100.1955529	97.86937865	95.60967224	93.41415216	91.28062964
230210A00062	2/10/2023	4.13	2/10/2027	106.14193	104.5830761	103.0552171	101.5575037	100.0891153	98.64926073	97.23717685	95.85212731	94.49340137
230210A00065	2/10/2023	4.02	2/10/2028	110.21407	107.5971866	105.056922	102.5905736	100.1955529	97.86937865	95.60967224	93.41415216	91.28062964
230213A00020	2/15/2023	4.28	1/25/2028	110.49648	107.9257121	105.4290776	103.0040099	100.6480431	98.3588122	96.13404752	93.97157066	91.86929007
230214A00031	2/14/2023	4.31	2/14/2028	110.8211	108.188529	105.6331414	103.1522044	100.7431046	98.40333763	96.13050266	93.92229737	91.7765133
230215A00008	2/15/2023	4.49	2/16/2027	106.67217	105.0927914	103.5449627	102.0278102	100.5404912	99.08219356	97.65213426	96.24955804	94.8737362

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230215A00035	2/15/2023	4.47	2/17/2026	102.30376	101.7429079	101.1882244	100.6396052	100.0969511	99.56016491	99.02915168	98.5038184	97.98407407
230215A00045	2/15/2023	4.37	2/15/2028	110.98822	108.3505324	105.7902216	103.3045461	100.890884	98.54672274	96.2696539	94.05736789	91.90764942
230217A00036	2/17/2023	4.44	2/17/2028	111.19451	108.5482485	105.9797057	103.4861323	101.0648901	98.7134514	96.4293935	94.21039329	92.05422268
230217A00052	2/17/2023	4.55	2/17/2027	106.78008	105.1968002	103.6451831	102.1243445	100.6334377	99.17164648	97.73818404	96.33229157	94.95323695
230221A00004	2/21/2023	4.47	2/18/2028	111.28505	108.6346497	106.0621475	103.5647783	101.1398962	98.78496598	96.49755772	94.2753417	92.11608352
230221A00007	2/21/2023	4.5	10/18/2027	109.80634	107.5181185	105.2895834	103.1187391	101.0036721	98.94254895	96.93361211	94.97517597	93.06562336
230222A00024	2/22/2023	4.74	3/2/2026	102.56907	101.9719208	101.3817306	100.7983821	100.2217568	99.65173877	99.08821488	98.5310745	97.9802095
230223A00010	2/23/2023	4.68	10/3/2025	100.75847	100.5803229	100.4028056	100.2259195	100.049661	99.87402701	99.69901402	99.52461875	99.35083793
230223A00012	2/23/2023	4.68	10/3/2025	100.75847	100.5803229	100.4028056	100.2259195	100.049661	99.87402701	99.69901402	99.52461875	99.35083793
230223A00033	2/23/2023	4.5	2/23/2028	111.42876	108.7617073	106.1733254	103.6608102	101.2214784	98.85275969	96.55219114	94.31741185	92.14615805
230224A00015	2/24/2023	4.86	3/17/2026	102.82165	102.182271	101.5508719	100.9273032	100.3114196	99.70307929	99.10214395	98.50847863	97.92195165
230224A00029	2/24/2023	4.87	2/24/2026	102.57326	101.9926651	101.4186584	100.8511255	100.289957	99.73504641	99.18628918	98.64358328	98.1068289
230227A00060	2/27/2023	4.86	2/27/2026	102.60397	102.0149722	101.4327463	100.8571745	100.2881433	99.72554156	99.16926069	98.61919456	98.07523937
230228A00009	2/28/2023	4.69	2/27/2026	102.5455	101.9561882	101.3736598	100.7977963	100.2284837	99.66561064	99.10906828	98.55875014	98.01455217
230228A00010	2/28/2023	4.5	2/26/2027	106.94056	105.3268491	103.7457143	102.1962411	100.6775453	99.18877508	97.72911014	96.29775971	94.8939614
230301A00029	3/1/2023	4.59	3/1/2028	111.75605	109.0641804	106.4521058	103.9169653	101.456022	99.06665503	96.74635372	94.49271222	92.30342434
230301A00036	3/1/2023	4.91	3/2/2026	102.67	102.0725021	101.4819744	100.8982913	100.321334	99.75098685	99.18713648	98.62967226	98.07848604
230301A00047	3/1/2023	4.61	3/1/2028	111.78366	109.0946084	106.4864367	103.9561798	101.5010045	99.11820144	96.8051785	94.55945491	92.3786556
230302A00028	3/2/2023	5.02	3/2/2026	102.7353	102.1375841	101.5468381	100.9629384	100.3857664	99.8152062	99.25114457	98.69347081	98.14207674
230302A00047	3/2/2023	4.76	3/2/2028	111.61727	109.0449288	106.5489993	104.1267004	101.7753693	99.49245916	97.27553321	95.12225906	93.03040337
230303A00035	5/15/2023	4.65	5/15/2030	121.88426	116.716582	111.8049763	107.1353273	102.6943705	98.46964119	94.44942166	90.62269204	86.97908507
230303A00036	5/15/2023	4.53	5/15/2028	112.54207	109.6295453	106.8086603	104.0759829	101.42823	98.86226225	96.37507693	93.963801	91.62568452
230303A00037	5/15/2023	4.81	5/15/2026	103.50936	102.7044202	101.9120417	101.1319362	100.3638195	99.60741611	98.86245909	98.12868943	97.40585594
230303A00038	4/14/2023	4.56	4/14/2028	112.23527	109.4141793	106.6796258	104.028389	101.4573902	98.96368747	96.54446864	94.1970442	91.91884109
230303A00041	4/14/2023	4.56	4/14/2028	112.23527	109.4141793	106.6796258	104.028389	101.4573902	98.96368747	96.54446864	94.1970442	91.91884109
230303A00057	3/3/2023	4.77	3/3/2027	107.32607	105.6968658	104.1006897	102.5366017	101.0036997	99.501115	98.02801118	96.5835822	95.16705119
230303A00059	3/3/2023	4.56	3/3/2027	107.10391	105.4746029	103.8783596	102.31424	100.7813401	99.27878971	97.80575076	96.36141583	94.94500668
230307A00004	3/7/2023	4.67	3/7/2028	112.01679	109.3080085	106.6810907	104.1330168	101.6609044	99.26199796	96.93366214	94.6733754	92.4787243
230307A00020	3/7/2023	4.98	3/9/2026	102.79851	102.1812879	101.5714994	100.9690129	100.3736976	99.78542564	99.20407238	98.62951594	98.06163735
230307A00021	3/7/2023	4.63	3/7/2028	111.9374	109.2265806	106.5964693	104.0441634	101.566881	99.16195861	96.82684566	94.55909864	92.35637587
230307A00022	3/7/2023	4.77	3/8/2027	107.39332	105.7499267	104.1400285	102.5626631	101.0169092	99.50188007	98.01672207	96.56061295	95.13276045
230307A00026	3/7/2023	4.98	3/6/2026	102.76125	102.1524208	101.55083	100.9563448	100.3688395	99.78819159	99.21428121	98.6469914	98.08620783
230307A00034	3/7/2023	4.41	3/7/2028	111.55125	108.8414145	106.2123758	103.6612251	101.185174	98.78155362	96.44780798	94.18148861	91.9802492

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230307A00114	3/7/2023	4.65	3/7/2028	111.99003	109.2785111	106.6477173	104.0947444	101.61681	99.21125015	96.87551388	94.60715723	92.4038381
230308A00019	3/8/2023	5.05	3/9/2026	102.84143	102.224053	101.6141173	101.0114848	100.4160248	99.82760946	99.24611392	98.67141639	98.10339787
230309A00004	3/9/2023	4.86	3/9/2027	107.55286	105.9053997	104.29155	102.7103438	101.1608554	99.64219391	98.15350161	96.6939525	95.26275071
230309A00005	3/9/2023	5.06	3/9/2026	102.84756	102.2301623	101.6202055	101.0175523	100.4220716	99.83363571	99.25211985	98.67740216	98.10936366
230309A00027	3/9/2023	4.68	3/9/2028	112.09484	109.3764011	106.7390103	104.1797455	101.6958086	99.28452114	96.94331817	94.66974283	92.46144077
230309A00030	3/9/2023	5.01	3/9/2026	102.8169	102.1996158	101.5897642	100.9872151	100.3918378	99.80350442	99.22209018	98.64747328	98.07953472
230309A00031	3/9/2023	5.01	3/9/2026	102.8169	102.1996158	101.5897642	100.9872151	100.3918378	99.80350442	99.22209018	98.64747328	98.07953472
230309A00032	3/9/2023	4.82	3/9/2027	107.48793	105.8410163	104.2277025	102.6470227	101.0980514	99.57989806	98.09170518	96.63264699	95.20192785
230309A00033	3/9/2023	4.82	3/9/2027	107.48793	105.8410163	104.2277025	102.6470227	101.0980514	99.57989806	98.09170518	96.63264699	95.20192785
230309A00034	3/9/2023	4.64	3/9/2028	111.98936	109.2723241	106.6363039	104.0783785	101.5957509	99.18574329	96.84579188	94.57344057	92.36633583
230309A00035	3/9/2023	4.64	3/9/2028	111.98936	109.2723241	106.6363039	104.0783785	101.5957509	99.18574329	96.84579188	94.57344057	92.36633583
230309A00036	3/9/2023	4.46	3/9/2028	111.70802	108.9905648	106.354251	103.796146	101.3134454	98.90346511	96.56363498	94.29149307	92.08468035
230309A00038	3/9/2023	4.85	3/9/2026	102.76182	102.1441811	101.5339934	100.93112	100.3354297	99.7467945	99.16508916	98.59019156	98.0219824
230309A00041	3/9/2023	4.85	3/9/2026	102.76182	102.1441811	101.5339934	100.93112	100.3354297	99.7467945	99.16508916	98.59019156	98.0219824
230309A00057	3/9/2023	4.86	3/9/2027	107.55286	105.9053997	104.29155	102.7103438	101.1608554	99.64219391	98.15350161	96.6939525	95.26275071
230309A00080	3/9/2023	4.68	3/9/2028	112.09484	109.3764011	106.7390103	104.1797455	101.6958086	99.28452114	96.94331817	94.66974283	92.46144077
230309A00091	3/9/2023	4.68	3/9/2028	112.09484	109.3764011	106.7390103	104.1797455	101.6958086	99.28452114	96.94331817	94.66974283	92.46144077
230309A00096	3/9/2023	4.68	3/9/2028	112.09484	109.3764011	106.7390103	104.1797455	101.6958086	99.28452114	96.94331817	94.66974283	92.46144077
230310A00017	3/10/2023	4.43	3/9/2029	115.86008	112.0510482	108.3906969	104.8723714	101.4897552	98.23685052	95.10796022	92.09767062	89.20083579
230310A00024	3/10/2023	4.38	3/10/2028	111.31584	108.6050099	105.9751322	103.4232872	100.9466766	98.54262184	96.20855831	93.9420293	91.74068086
230310A00030	3/10/2023	4.38	3/10/2028	111.31584	108.6050099	105.9751322	103.4232872	100.9466766	98.54262184	96.20855831	93.9420293	91.74068086
230310A00037	3/10/2023	4.69	3/10/2026	102.63235	102.0129404	101.4010331	100.7964885	100.199174	99.60895998	99.02572023	98.44933133	97.87967282
230310A00039	3/10/2023	4.33	3/10/2028	111.18386	108.4747787	105.8466177	103.2964503	100.8214795	98.41902786	96.08653185	93.82153586	91.62168697
230310A00047	6/9/2023	4.22	6/9/2028	111.9556	108.9816878	106.1034141	103.3171935	100.6195928	98.00732563	95.47724558	93.02633913	90.65171952
230310A00049	3/10/2023	4.7	3/10/2026	102.6385	102.0190772	101.4071487	100.8025831	100.2052477	99.61501308	99.03175284	98.45534362	97.88566496
230310A00054	9/8/2023	4.09	9/11/2028	112.6204	109.3745407	106.2408629	103.2148275	100.2921083	97.46858017	94.74030901	92.10354115	89.55469398
230310A00069	3/10/2023	4.7	3/9/2026	102.62686	102.0102275	101.4010277	100.7991249	100.2043884	99.6166904	99.03590625	98.46191418	97.89459528
230310A00071	3/10/2023	4.38	3/10/2028	111.31584	108.6050099	105.9751322	103.4232872	100.9466766	98.54262184	96.20855831	93.9420293	91.74068086
230310A00073	3/10/2023	4.7	3/6/2026	102.59192	101.9836731	101.3826567	100.788741	100.2018005	99.62171264	99.04835771	98.48161876	97.92138155
230310A00089	3/10/2023	4.7	3/10/2026	102.6385	102.0190772	101.4071487	100.8025831	100.2052477	99.61501308	99.03175284	98.45534362	97.88566496
230310A00091	3/10/2023	4.53	3/10/2027	107.02998	105.3841933	103.7720285	102.1925182	100.6447351	99.12778665	97.64081377	96.18298906	94.75351539
230310A00092	3/10/2023	4.38	3/10/2028	111.31584	108.6050099	105.9751322	103.4232872	100.9466766	98.54262184	96.20855831	93.9420293	91.74068086
230310A00114	3/10/2023	4.5	3/10/2027	106.9812	105.3358241	103.7240625	102.1449482	100.5975542	99.08098813	97.59439103	96.13693569	94.70782517

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230310A00120	3/10/2023	4.33	3/10/2028	111.18386	108.4747787	105.8466177	103.2964503	100.8214795	98.41902786	96.08653185	93.82153586	91.62168697
230313A00036	3/13/2023	4.06	3/13/2028	110.50476	107.7964948	105.1693696	102.6204473	100.1469152	97.74608122	95.41536828	93.15230803	90.95453574
230313A00048	3/13/2023	4.25	3/13/2026	102.39258	101.765748	101.1466092	100.535023	99.93085139	99.33395984	98.74421705	98.16149486	97.58566816
230313A00052	3/13/2023	4.17	3/15/2027	106.50356	104.8486332	103.2277002	101.6397834	100.0839382	98.55925628	97.06486335	95.59991773	94.16360876
230313A00057	3/13/2023	4.06	3/13/2028	110.50476	107.7964948	105.1693696	102.6204473	100.1469152	97.74608122	95.41536828	93.15230803	90.95453574
230313A00061	3/13/2023	4.06	3/13/2028	110.50476	107.7964948	105.1693696	102.6204473	100.1469152	97.74608122	95.41536828	93.15230803	90.95453574
230313A00072	3/13/2023	4.06	3/13/2028	110.50476	107.7964948	105.1693696	102.6204473	100.1469152	97.74608122	95.41536828	93.15230803	90.95453574
230313A00078	3/13/2023	4.41	3/13/2026	102.49244	101.8652583	101.2457719	100.633841	100.0293276	99.43209729	98.84201859	98.25896332	97.68280635
230313A00090	3/13/2023	4.41	3/13/2026	102.49244	101.8652583	101.2457719	100.633841	100.0293276	99.43209729	98.84201859	98.25896332	97.68280635
230313A00091	3/13/2023	4.15	3/13/2028	110.74309	108.0316397	105.4014056	102.8494453	100.3729438	97.96920712	95.63565597	93.36982012	91.16933294
230313A00098	3/13/2023	4.41	3/13/2026	102.49244	101.8652583	101.2457719	100.633841	100.0293276	99.43209729	98.84201859	98.25896332	97.68280635
230313A00102	3/13/2023	4.15	3/13/2028	110.74309	108.0316397	105.4014056	102.8494453	100.3729438	97.96920712	95.63565597	93.36982012	91.16933294
230313A00112	3/13/2023	4.15	3/13/2028	110.74309	108.0316397	105.4014056	102.8494453	100.3729438	97.96920712	95.63565597	93.36982012	91.16933294
230313A00119	3/13/2023	4.41	3/13/2026	102.49244	101.8652583	101.2457719	100.633841	100.0293276	99.43209729	98.84201859	98.25896332	97.68280635
230313A00121	3/13/2023	4.29	3/15/2027	106.70034	105.0437442	103.4211719	101.8316449	100.2742179	98.7479817	97.25206127	95.78561422	94.34782924
230313A00123	3/13/2023	4.22	9/15/2027	108.78484	106.5997513	104.4699685	102.3937075	100.3692544	98.39496398	96.46925608	94.59061271	92.75757492
230313A00128	3/13/2023	4.18	12/15/2027	109.77295	107.3233862	104.9415611	102.6252294	100.3722293	98.18048326	96.04799391	93.97284056	91.95317578
230313A00134	3/13/2023	4.16	4/14/2028	111.14057	108.334563	105.614738	102.9778864	100.4209405	97.94096866	95.5351687	93.20086071	90.93548085
230313A00135	3/13/2023	4.17	6/15/2028	111.88024	108.8903937	105.9972177	103.1970694	100.4864609	97.86205423	95.32065433	92.8592019	90.47476698
230313A00149	3/13/2023	4.15	3/13/2028	110.74309	108.0316397	105.4014056	102.8494453	100.3729438	97.96920712	95.63565597	93.36982012	91.16933294
230313A00152	3/13/2023	4.18	3/13/2028	110.82253	108.1100213	105.4787509	102.9257779	100.4482867	98.04358242	95.7090852	93.44232415	91.240932
230313A00158	3/13/2023	4.41	3/13/2026	102.49244	101.8652583	101.2457719	100.633841	100.0293276	99.43209729	98.84201859	98.25896332	97.68280635
230313A00159	3/13/2023	4.41	3/13/2026	102.49244	101.8652583	101.2457719	100.633841	100.0293276	99.43209729	98.84201859	98.25896332	97.68280635
230313A00177	3/13/2023	4.41	3/13/2026	102.49244	101.8652583	101.2457719	100.633841	100.0293276	99.43209729	98.84201859	98.25896332	97.68280635
230313A00179	3/13/2023	4.29	3/15/2027	106.70034	105.0437442	103.4211719	101.8316449	100.2742179	98.7479817	97.25206127	95.78561422	94.34782924
230313A00180	3/13/2023	4.15	3/13/2028	110.74309	108.0316397	105.4014056	102.8494453	100.3729438	97.96920712	95.63565597	93.36982012	91.16933294
230313A00215	3/13/2023	4.13	3/13/2028	110.69013	107.9793853	105.349842	102.7985568	100.3227152	97.91962359	95.58670315	93.3214841	91.12160023
230314A00003	3/14/2023	4.64	3/16/2026	102.67043	102.0343447	101.4061699	100.7857545	100.1729549	99.56763117	98.96964682	98.37886861	97.79516653
230314A00011	3/14/2023	4.38	3/14/2028	111.36425	108.6417497	106.0008026	103.4384516	100.9518686	98.53834716	96.19529619	93.92023427	91.71078415
230314A00014	3/14/2023	4.18	3/14/2028	110.78647	108.1206203	105.535566	103.0283103	100.5959943	98.23588551	95.94537165	93.72195406	91.56324192
230314A00015	3/14/2023	4.55	9/14/2026	104.77328	103.6246414	102.5012981	101.4024155	100.3271994	99.27488995	98.24475928	97.23611023	96.24827459
230314A00016	3/14/2023	4.38	3/14/2028	111.36425	108.6417497	106.0008026	103.4384516	100.9518686	98.53834716	96.19529619	93.92023427	91.71078415
230314A00017	3/14/2023	4.39	1/18/2028	110.68872	108.1347037	105.6537856	103.2434532	100.9012929	98.62498886	96.41231787	94.26114542	92.16942147

Classification | Public

	Parallel-Shift Sensitivity Analysis											
7/31/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230314A00019	3/14/2023	4.39	1/18/2028	110.68872	108.1347037	105.6537856	103.2434532	100.9012929	98.62498886	96.41231787	94.26114542	92.16942147
230314A00021	3/14/2023	4.41	10/13/2027	109.54317	107.27165	105.0591143	102.9036012	100.8032291	98.75619472	96.76076885	94.81529278	92.91817463
230314A00024	3/14/2023	4.41	10/13/2027	109.54317	107.27165	105.0591143	102.9036012	100.8032291	98.75619472	96.76076885	94.81529278	92.91817463
230314A00028	3/14/2023	4.43	7/14/2027	108.45085	106.4430045	104.4829993	102.5693954	100.7008101	98.8759112	97.09341492	95.35208386	93.65072491
230314A00030	3/14/2023	4.43	7/14/2027	108.45085	106.4430045	104.4829993	102.5693954	100.7008101	98.8759112	97.09341492	95.35208386	93.65072491
230314A00032	3/14/2023	4.45	4/14/2027	107.34371	105.5986494	103.8906588	102.2186232	100.5814707	98.97817233	97.4077398	95.86922356	94.36171077
230314A00034	3/14/2023	4.45	4/14/2027	107.34371	105.5986494	103.8906588	102.2186232	100.5814707	98.97817233	97.4077398	95.86922356	94.36171077
230314A00054	3/14/2023	4.46	3/15/2027	106.97912	105.3201513	103.6952568	102.1034488	100.5437808	99.0153427	97.51725831	96.04868426	94.60880826
230314A00067	3/14/2023	4.16	3/14/2028	110.97468	108.2532074	105.6133761	103.0522236	100.5669157	98.15474017	95.81310054	93.53951036	91.33158764
230314A00070	3/14/2023	4.25	3/12/2027	106.71548	105.0649082	103.4481681	101.8642812	100.312311	98.79135645	97.30055034	95.83905765	94.40607404
230314A00081	3/14/2023	4.16	3/14/2028	110.97468	108.2532074	105.6133761	103.0522236	100.5669157	98.15474017	95.81310054	93.53951036	91.33158764
230315A00007	3/15/2023	4.2	3/16/2026	102.39215	101.7570592	101.1298645	100.5104205	99.89858393	99.2942149	98.69717702	98.10733717	97.52456547
230315A00010	3/15/2023	4.2	3/13/2026	102.36137	101.734651	101.1156209	100.5041424	99.90007757	99.30329189	98.71365407	98.13103597	97.55531248
230315A00013	3/15/2023	4.2	3/16/2026	102.39215	101.7570592	101.1298645	100.5104205	99.89858393	99.2942149	98.69717702	98.10733717	97.52456547
230315A00016	3/15/2023	4.08	3/16/2027	106.36752	104.7110276	103.0886055	101.4992676	99.9420661	98.41608943	96.92046041	95.45433461	94.01689876
230315A00023	3/15/2023	4.2	3/16/2026	102.39215	101.7570592	101.1298645	100.5104205	99.89858393	99.2942149	98.69717702	98.10733717	97.52456547
230315A00024	3/15/2023	4.03	3/15/2028	110.44758	107.7345918	105.1030156	102.5498996	100.0724168	97.66786196	95.33364536	93.06728702	90.86641117
230315A00030	3/15/2023	4.03	3/15/2028	110.44758	107.7345918	105.1030156	102.5498996	100.0724168	97.66786196	95.33364536	93.06728702	90.86641117
230315A00055	3/15/2023	4.2	3/11/2026	102.34085	101.7197083	101.1061197	100.4999506	99.90106673	99.30933712	98.72463381	98.14683193	97.57580955
230315A00068	3/15/2023	4.2	3/16/2026	102.39215	101.7570592	101.1298645	100.5104205	99.89858393	99.2942149	98.69717702	98.10733717	97.52456547
230315A00084	3/15/2023	4.08	3/24/2027	106.45984	104.7808305	103.1366471	101.5262716	99.94872484	98.40306572	96.88838897	95.40382357	93.9485311
230315A00098	3/15/2023	4.08	3/15/2027	106.35598	104.7023	103.0825965	101.4958872	99.9412284	98.41771222	96.92446492	95.46064536	94.0254434
230315A00116	3/15/2023	4.36	3/16/2026	102.49334	101.8578903	101.2303392	100.610542	99.99835518	99.393639	98.79625694	98.20607587	97.62296586
230315A00117	3/15/2023	4.17	3/15/2027	106.50356	104.8486332	103.2277002	101.6397834	100.0839382	98.55925628	97.06486335	95.59991773	94.16360876
230315A00125	3/15/2023	4.11	3/15/2027	106.40517	104.7510778	103.1309644	101.5438526	99.98879833	98.46489357	96.9712644	95.50706948	94.07149852
230315A00131	3/15/2023	4.13	3/15/2027	106.43797	104.7835963	103.1632097	101.5758295	100.0205116	98.49634781	97.00246405	95.5380189	94.10220193
230316A00001	3/16/2023	3.81	3/16/2028	110.06746	107.3526388	104.7194654	102.164975	99.68632695	97.28080335	94.94580248	92.67883312	90.47750894
230316A00017	3/16/2023	3.81	3/16/2028	110.06746	107.3526388	104.7194654	102.164975	99.68632695	97.28080335	94.94580248	92.67883313	90.47750894
230316A00021	3/16/2023	4.2	3/16/2026	102.39215	101.7570592	101.1298645	100.5104205	99.89858393	99.2942149	98.69717702	98.10733717	97.52456547
230316A00032	3/16/2023	4.39	3/16/2026	102.51232	101.8767961	101.2491782	100.6293147	100.0170623	99.41228102	98.81483443	98.22458938	97.64141593
230316A00046	3/16/2023	4.18	6/16/2026	103.35418	102.4616559	101.5845876	100.7225729	99.87522586	99.0421739	98.22305689	97.41752671	96.62524679
230316A00047	3/16/2023	4.07	9/16/2027	108.47416	106.2896512	104.1605037	102.0849278	100.061206	98.08768944	96.16279495	94.28500145	92.4528472
230316A00048	3/16/2023	4.05	6/16/2028	111.54242	108.5546744	105.6636538	102.8657111	100.1573528	97.53523588	94.99616043	92.53706274	90.15500871

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230316A00055	3/16/2023	4.03	3/16/2028	110.45871	107.7428303	105.1085101	102.5527906	100.0728374	97.6659384	95.32949722	93.06102767	90.85814815
230316A00060	3/16/2023	3.89	3/16/2027	106.17264	104.5157906	102.8930584	101.3034517	99.7460208	98.21985228	96.72406726	95.25781965	93.82029466
230316A00061	3/16/2023	4.31	9/16/2025	100.49931	100.3687029	100.2384528	100.1085556	99.9790099	99.84981415	99.72096694	99.5924668	99.46431231
230316A00067	3/16/2023	3.89	3/16/2027	106.17264	104.5157906	102.8930584	101.3034517	99.7460208	98.21985228	96.72406726	95.25781965	93.82029466
230316A00072	3/16/2023	4.1	3/16/2027	106.40037	104.7436005	103.1209044	101.5312972	99.97383123	98.44759467	96.95171025	95.4853334	94.04765077
230316A00076	3/16/2023	4.45	3/16/2026	102.55026	101.9146078	101.2868562	100.6668603	100.0544765	99.44956505	98.8519894	98.2616164	97.67831607
230316A00078	3/16/2023	4.34	3/16/2027	106.7946	105.1344759	103.5084906	101.9156527	100.3550128	98.82565756	97.32670829	95.85731896	94.41667484
230316A00082	3/16/2023	4.3	3/16/2028	111.17594	108.4504508	105.806747	103.2418583	100.7529438	98.3372847	95.99227864	93.71543349	91.50436195
230316A00113	3/16/2023	4.28	3/16/2026	102.48701	101.851019	101.2229457	100.6026402	99.98995865	99.38476089	98.78691003	98.19627254	97.61271814
230317A00015	3/17/2023	4.13	3/17/2028	110.73576	108.0134198	105.3728727	102.8111467	100.3253975	97.91290347	95.57105949	93.29737091	91.08944817
230317A00016	3/17/2023	4.22	3/17/2027	106.60941	104.9481465	103.3210807	101.7272231	100.1656213	98.63535912	97.13555496	95.66536027	94.22395788
230317A00025	3/17/2023	4.35	3/17/2026	102.49769	101.8594688	101.2292151	100.6067817	99.99202345	99.38479873	98.78496933	98.19240045	97.60696054
230317A00026	3/17/2023	4.22	3/17/2027	106.60941	104.9481465	103.3210807	101.7272231	100.1656213	98.63535912	97.13555496	95.66536027	94.22395788
230317A00047	3/17/2023	4.1	3/17/2028	110.65599	107.9347144	105.2952119	102.7345068	100.2497553	97.83823656	95.4973461	93.22458996	91.0175792
230317A00048	3/17/2023	4.1	3/17/2028	110.65599	107.9347144	105.2952119	102.7345068	100.2497553	97.83823656	95.4973461	93.22458996	91.0175792
230317A00049	3/17/2023	4.1	3/17/2028	110.65599	107.9347144	105.2952119	102.7345068	100.2497553	97.83823656	95.4973461	93.22458996	91.0175792
230317A00050	3/17/2023	4.1	3/17/2028	110.65599	107.9347144	105.2952119	102.7345068	100.2497553	97.83823656	95.4973461	93.22458996	91.0175792
230317A00051	3/17/2023	4.35	3/17/2026	102.49769	101.8594688	101.2292151	100.6067817	99.99202345	99.38479873	98.78496933	98.19240045	97.60696054
230320A00006	3/20/2023	4.25	3/20/2026	102.46536	101.8189856	101.1807851	100.550604	99.92829159	99.31370076	98.70668821	98.10711411	97.51484207
230320A00033	3/20/2023	4.35	3/20/2026	102.52971	101.8831054	101.2446747	100.6142655	99.99172688	99.37691192	98.7696772	98.16988287	97.57739249
230320A00092	3/20/2023	4.31	3/20/2026	102.50397	101.8574575	101.2191189	100.5888009	99.96635276	99.35162746	98.74448161	98.14477537	97.55237232
230321A00001	3/21/2023	4.48	3/23/2026	102.64647	101.9911628	101.3442453	100.7055545	100.0749338	99.45223084	98.83729677	98.22998664	97.63015907
230321A00002	3/21/2023	4.33	3/19/2027	106.81487	105.1464113	103.5123717	101.9117481	100.3435794	98.80694135	97.30094468	95.82473354	94.37748384
230321A00009	3/21/2023	4.27	3/21/2028	111.15523	108.4162487	105.7597768	103.1828043	100.6824532	98.25597037	95.90072085	93.61418197	91.39393764
230321A00053	3/21/2023	4.27	3/21/2028	111.15523	108.4162487	105.7597768	103.1828043	100.6824532	98.25597037	95.90072085	93.61418197	91.39393764
230321A00074	3/21/2023	4.23	3/21/2028	111.04842	108.3108764	105.6558089	103.0802084	100.5811983	98.1560261	95.80205796	93.51677203	91.2977531
230322A00007	3/22/2023	4.54	3/21/2031	124.4979	118.3753687	112.6022888	107.1567255	102.0182384	97.16777311	92.58755966	88.26101903	84.17267696
230322A00009	3/22/2023	4.59	3/22/2032	128.04481	120.7739955	113.9810347	107.6317268	101.6945007	96.14019957	90.94188341	86.07464924	81.51546651
230322A00015	3/22/2023	4.24	3/22/2028	111.08683	108.3460214	105.6878416	103.109279	100.6074489	98.17959171	95.82306657	93.53534517	91.31400618
230322A00020	3/22/2023	4.2	3/22/2029	115.44141	111.5966939	107.9034642	104.3548818	100.9444547	97.66602151	94.51373296	91.48203371	88.56564585
230323A00028	3/23/2023	4.1	3/23/2028	110.47772	107.798402	105.2008111	102.6818995	100.2387552	97.86859651	95.56876476	93.33671813	91.17002531
230323A00029	3/23/2023	4.39	3/24/2031	123.66998	117.5621859	111.803787	106.3728132	101.2487946	96.41265141	91.846592	87.53401895	83.45944256
230323A00030	3/23/2023	4.72	3/23/2037	143.16111	130.1794939	118.5769754	108.1967332	98.90066092	90.56704038	83.08851538	76.37032531	70.32876442

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230323A00034	3/23/2023	4.23	3/23/2026	102.48351	101.8288009	101.1824733	100.544367	99.91432561	99.29219671	98.67783166	98.07108554	97.47181703
230323A00048	3/23/2023	4.07	3/23/2028	110.64366	107.9060735	105.2511247	102.6757976	100.1772043	97.75258227	95.39928785	93.11479029	90.89666602
230323A00051	3/23/2023	3.85	3/23/2028	110.24971	107.5131979	104.8594217	102.2853504	99.78808977	97.36487143	95.01304625	92.73007834	90.51353931
230323A00054	3/23/2023	3.95	3/23/2028	110.32257	107.5893093	104.9385905	102.3673963	99.87284181	97.45216736	95.10273215	92.82200809	90.60757421
230323A00056	3/23/2023	4	3/23/2027	106.31534	104.6402904	102.9999502	101.3933068	99.81938578	98.27725011	96.7659986	95.28476408	93.83271175
230323A00058	3/23/2023	3.96	9/23/2027	108.31739	106.114867	103.9685373	101.8765663	99.8371977	97.8487465	95.90959505	94.01818995	92.17303888
230323A00065	3/23/2023	3.85	3/23/2028	110.24971	107.5131979	104.8594217	102.2853504	99.78808977	97.36487143	95.01304625	92.73007834	90.51353931
230323A00081	3/23/2023	3.85	3/23/2028	110.24971	107.5131979	104.8594217	102.2853504	99.78808977	97.36487143	95.01304625	92.73007834	90.51353931
230324A00001	3/24/2023	4.04	6/24/2026	103.31461	102.4002231	101.5020473	100.6196577	99.75264021	98.90059526	98.06313697	97.23989263	96.43050216
230324A00006	3/24/2023	4.06	3/24/2026	102.38257	101.7254722	101.0768239	100.4364611	99.80422538	99.17996261	98.56352242	97.95475824	97.35352713
230324A00021	3/24/2023	3.72	3/24/2028	109.4476	106.8361976	104.3041764	101.8485747	99.46656646	97.15545202	94.91265135	92.73569767	90.62223156
230324A00023	3/24/2023	3.69	3/24/2028	109.83157	107.097961	104.4471015	101.8759586	99.38163483	96.96135841	94.61247732	92.332453	90.11885461
230324A00032	3/24/2023	3.93	3/24/2028	110.27991	107.54448	104.8917264	102.3186229	99.82227739	97.39992377	95.04891498	92.76671711	90.55090372
230324A00036	3/24/2023	3.98	3/24/2027	106.29337	104.6157878	102.973011	101.3640171	99.78782746	98.24350173	96.73013526	95.24685764	93.79283105
230324A00050	3/24/2023	4.13	3/24/2026	101.41463	101.0381597	100.6651935	100.2956743	99.92954899	99.56676573	99.20727367	98.8510231	98.49796536
230327A00046	3/27/2023	4.22	3/27/2026	102.51824	101.8523709	101.1951656	100.5464532	99.9060697	99.27385534	98.64965435	98.03331491	97.42468902
230327A00047	3/27/2023	4.08	3/27/2028	110.7155	107.9659443	105.299639	102.7135322	100.2047053	97.7703673	95.40784741	93.11458954	90.88814619
230328A00019	3/28/2023	4.12	3/27/2026	102.49829	101.8319092	101.1742009	100.5250003	99.88414288	99.25146843	98.62682076	98.01004764	97.40100068
230328A00020	3/28/2023	3.98	3/28/2028	110.6539	107.8981589	105.2260133	102.6343912	100.1203572	97.68110388	95.31394559	93.01631191	90.78574191
230328A00024	3/28/2023	4.2	3/28/2028	111.04953	108.2926938	105.6193635	103.0264728	100.5110924	98.07042105	95.70177848	93.40259955	91.17042821
230328A00026	3/28/2023	4.34	3/28/2029	115.75202	111.8920265	108.1844407	104.6223579	101.1992316	97.90884983	94.74531625	91.70303165	88.77667727
230328A00027	3/28/2023	4.22	3/28/2028	110.77698	108.0965258	105.4980188	102.9783898	100.5347093	98.16417913	95.86412599	93.63199424	91.46533998
230328A00028	3/28/2023	4.34	3/27/2026	102.90815	102.1617103	101.4261773	100.7013084	99.98687217	99.28264409	98.58840593	97.90394568	97.22905728
230328A00037	3/28/2023	4.21	3/28/2028	111.01655	108.2712866	105.6104677	103.0309261	100.5296342	98.10370038	95.75036197	93.46697841	91.2510247
230328A00045	3/28/2023	4.21	3/28/2028	111.01655	108.2712866	105.6104677	103.0309261	100.5296342	98.10370038	95.75036197	93.46697841	91.2510247
230328A00047	3/28/2023	4.21	3/28/2028	111.01655	108.2712866	105.6104677	103.0309261	100.5296342	98.10370038	95.75036197	93.46697841	91.2510247
230328A00051	3/28/2023	4.53	3/28/2033	127.9419	120.3768505	113.3583452	106.8429434	100.7909141	95.16589953	89.93460968	85.06654698	80.53375669
230328A00052	3/28/2023	4.53	3/28/2033	127.9419	120.3768505	113.3583452	106.8429434	100.7909141	95.16589953	89.93460968	85.06654698	80.53375669
230328A00098	3/28/2023	4.24	3/29/2027	106.78612	105.0906873	103.4306032	101.8048249	100.2123527	98.6522253	97.1235188	95.62534436	94.15684665
230328A00100	3/28/2023	4.19	3/28/2028	111.02263	108.2661619	105.5931878	103.0006449	100.4856045	98.04526531	95.67694751	93.3780861	91.14622527
230328A00111	3/28/2023	4.36	3/27/2026	102.61104	101.9448331	101.2872865	100.6382359	99.9975173	99.36497089	98.74044084	98.12377528	97.51482619
230329A00020	3/29/2023	4.23	3/29/2028	111.1419	108.3810604	105.7038989	103.1073445	100.5884597	98.14443527	95.77258355	93.47033234	91.23521899
230329A00043	3/29/2023	4.36	3/27/2026	102.61104	101.9448331	101.2872865	100.6382359	99.9975173	99.36497089	98.74044084	98.12377528	97.51482619

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230330A00011	3/30/2023	4.21	3/30/2028	111.09968	108.3366683	105.6574668	103.0589986	100.5383191	98.09261245	95.71918476	93.41545796	91.17896386
230330A00062	3/30/2023	4.42	3/30/2026	102.68342	102.0086635	101.3427884	100.6856161	100.0369768	99.3967049	98.76463921	98.1406226	97.52450194
230330A00083	3/30/2023	4.1	3/30/2027	106.68295	104.9836241	103.319796	101.6904215	100.0944944	98.53104735	96.99915075	95.49791031	94.02646558
230331A00014	3/31/2023	4.34	3/31/2026	102.64037	101.9630239	101.2946282	100.635002	99.98397352	99.34137549	98.70704482	98.08082268	97.46255425
230331A00033	3/31/2023	4.34	3/31/2026	102.64037	101.9630239	101.2946282	100.635002	99.98397352	99.34137549	98.70704482	98.08082268	97.46255425
230331A00057	3/31/2023	4.08	3/31/2028	110.76058	107.999427	105.3221282	102.725598	100.2068877	97.76317729	95.39176936	93.09008248	90.8556454
230404A00002	4/4/2023	4.1	4/2/2027	106.59807	104.8932512	103.2241382	101.5896777	99.98885392	98.42069098	96.88425078	95.37863121	93.90296438
230405A00008	4/5/2023	4.01	10/6/2025	100.65691	100.4707266	100.2852435	100.1004534	99.91635252	99.73293693	99.55020275	99.36814616	99.18676335
230405A00010	4/5/2023	3.96	4/6/2026	102.44303	101.7499412	101.0662461	100.3917507	99.72626977	99.06962338	98.42163621	97.78213757	97.15096124
230405A00012	4/5/2023	3.8	4/5/2028	110.05879	107.2930791	104.6117817	102.0117778	99.49008424	97.04384953	94.6703465	92.36696601	90.13121089
230405A00021	4/5/2023	3.96	4/6/2026	102.44303	101.7499412	101.0662461	100.3917507	99.72626977	99.06962338	98.42163621	97.78213757	97.15096124
230405A00022	4/5/2023	3.8	4/5/2028	110.05879	107.2930791	104.6117817	102.0117778	99.49008424	97.04384953	94.6703465	92.36696601	90.13121089
230405A00037	4/5/2023	3.71	4/6/2026	102.3186	101.6253751	100.9415477	100.266932	99.60134257	98.94459885	98.29652516	97.65695042	97.02570804
230405A00044	4/5/2023	3.8	4/5/2028	110.05879	107.2930791	104.6117817	102.0117778	99.49008424	97.04384953	94.6703465	92.36696601	90.13121089
230405A00046	4/5/2023	3.82	10/5/2027	108.14395	105.9100322	103.7337664	101.6132446	99.54664219	97.53220965	95.56826865	93.65320853	91.78548293
230405A00049	4/5/2023	3.81	4/5/2028	110.08591	107.3198267	104.6381677	102.0378103	99.51577154	97.06919945	94.69536665	92.39166377	90.15559343
230406A00016	4/6/2023	3.89	4/6/2028	109.71751	107.1002516	104.5629628	102.1026639	99.71650805	97.40177484	95.15586349	92.97628666	90.86066461
230406A00023	4/6/2023	3.84	4/6/2028	110.1781	107.4079383	104.7223845	102.1183093	99.59272057	97.14275782	94.76568563	92.45888709	90.21985767
230406A00026	4/6/2023	3.92	4/6/2027	106.33948	104.6257251	102.9480508	101.3053815	99.69668515	98.12097034	96.57728442	95.06471151	93.58237073
230406A00029	4/6/2023	3.84	4/6/2028	110.1781	107.4079383	104.7223845	102.1183093	99.59272057	97.14275782	94.76568563	92.45888709	90.21985767
230406A00039	3/29/2024	3.43	3/31/2026	102.02704	101.3520098	100.6859024	100.0285433	99.37976091	98.73938824	98.10726256	97.48322533	96.86712205
230406A00041	5/31/2024	3.25	5/29/2026	102.37841	101.539944	100.7152064	99.90385967	99.1055794	98.32005174	97.54697283	96.78604835	96.03699322
230406A00043	7/31/2024	3.2	7/31/2026	102.85975	101.8459755	100.8521733	99.87775325	98.92215239	97.98482933	97.06526326	96.16295301	95.27741611
230406A00044	9/30/2024	3.16	9/30/2026	103.32808	102.1442505	100.9875248	99.85698248	98.75174194	97.67096056	96.61383282	95.57958824	94.56748947
230406A00045	4/29/2024	3.41	4/30/2027	105.71152	103.9362842	102.1995428	100.5001075	98.83684129	97.20865375	95.61449877	94.05337222	92.52430981
230406A00046	6/28/2024	3.35	6/30/2027	106.18832	104.2410376	102.3393818	100.4820074	98.66761952	96.89496947	95.16285312	93.47010889	91.81561592
230406A00047	8/30/2024	3.31	8/31/2027	106.68456	104.5643746	102.4972164	100.4814055	98.51532358	96.59741588	94.72618799	92.900203	91.11807885
230406A00049	10/31/2024	3.29	10/29/2027	107.19613	104.9078145	102.6799813	100.5105792	98.3976454	96.33930008	94.33374249	92.3792467	90.4741578
230406A00050	4/6/2023	3.67	4/6/2027	106.03554	104.3223422	102.6452546	101.0032002	99.39514505	97.82009629	96.27709975	94.76523813	93.28362926
230406A00052	4/6/2023	4.02	4/6/2026	102.48446	101.791218	101.1073653	100.4327136	99.76707806	99.11027843	98.46213945	97.82249041	97.19116506
230406A00105	4/6/2023	3.84	4/6/2028	110.1781	107.4079383	104.7223845	102.1183093	99.59272057	97.14275782	94.76568563	92.45888709	90.21985767
230410A00011	4/10/2023	4.08	4/9/2027	106.64709	104.9222285	103.2338079	101.5807359	99.96196616	98.3764934	96.82335202	95.30161383	93.81038627
230410A00012	4/10/2023	3.98	4/10/2028	110.60305	107.8157635	105.1138536	102.4941501	99.95362356	97.4893788	95.09864755	92.77878201	90.52724858

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230411A00054	4/11/2023	3.74	4/11/2028	110.15791	107.3695505	104.6668045	102.0464865	99.50555264	97.04109416	94.65033015	92.33060098	90.07936194
230412A00005	4/12/2023	4.16	4/10/2026	102.62254	101.9177601	101.2226812	100.5371028	99.86083052	99.19367562	98.53545427	97.88598759	97.24510146
230412A00006	4/12/2023	4.04	4/12/2027	106.61388	104.8809113	103.1846831	101.5240959	99.89808994	98.30564765	96.74579169	95.2175828	93.72011797
230412A00007	4/12/2023	3.95	4/12/2028	110.54357	107.7514411	105.0449886	102.4210228	99.87649848	97.40850534	95.01426117	92.691105	90.43649091
230412A00028	4/12/2023	3.69	4/12/2028	110.03199	107.242537	104.538812	101.9176253	99.37592618	96.91079911	94.5194571	92.19923475	89.94758198
230412A00031	4/12/2023	3.91	4/10/2026	102.49618	101.7912551	101.0960452	100.4103481	99.73396914	99.06671906	98.40841362	97.75887352	97.11792424
230412A00033	4/12/2023	4.04	4/12/2027	106.61388	104.8809113	103.1846831	101.5240959	99.89808994	98.30564765	96.74579169	95.2175828	93.72011797
230412A00038	4/12/2023	3.69	4/12/2028	110.03199	107.242537	104.538812	101.9176253	99.37592618	96.91079911	94.5194571	92.19923475	89.94758198
230413A00017	4/13/2023	3.88	4/13/2028	110.36333	107.5708589	104.864159	102.240039	99.69544729	97.22746743	94.83331155	92.51031343	90.25592223
230413A00018	4/13/2023	3.96	4/13/2027	106.48799	104.7533349	103.0555045	101.3933948	99.76594205	98.17212507	96.61096301	95.08151339	93.58287011
230413A00020	4/13/2023	3.88	4/13/2028	110.36333	107.5708589	104.864159	102.240039	99.69544729	97.22746743	94.83331155	92.51031343	90.25592223
230413A00021	4/13/2023	4.07	4/13/2026	102.58968	101.8767772	101.1738002	100.4805446	99.79680931	99.12239891	98.45712322	97.80079724	97.15324092
230413A00031	4/13/2023	4.07	4/13/2026	102.58968	101.8767772	101.1738002	100.4805446	99.79680931	99.12239891	98.45712322	97.80079724	97.15324092
230413A00082	4/13/2023	4.01	4/13/2027	106.574	104.8385784	103.139999	101.4771538	99.84897874	98.2544522	96.69259304	95.16245842	93.66314193
230417A00023	4/17/2023	3.86	4/7/2028	110.4412	107.6602802	104.96443	102.3504981	99.81547078	97.35646775	94.97073463	92.65563665	90.40865242
230417A00037	4/17/2023	4.39	4/16/2026	102.84983	102.1276321	101.4156055	100.713534	100.0212093	99.33842906	98.66499659	98.00072046	97.34541448
230417A00044	4/17/2023	4.32	4/17/2026	102.81034	102.0855423	101.370993	100.6664721	99.97176895	99.28667912	98.61100366	97.94454911	97.28712728
230417A00045	4/17/2023	4.21	4/16/2027	106.9546	105.2073769	103.4973736	101.8234639	100.1845686	98.57965187	97.00771909	95.46781466	93.95902005
230417A00046	4/17/2023	4.13	4/17/2028	111.0934	108.279529	105.5523068	102.9084944	100.3449994	97.85886743	95.44727455	93.10752065	90.83702287
230417A00085	4/17/2023	4.68	4/17/2026	101.76518	101.3481673	100.9354429	100.526933	100.1225661	99.72227245	99.32598377	98.93363355	98.54515675
230418A00035	4/18/2023	4.13	4/18/2028	105.71895	104.2683932	102.8520652	101.4688737	100.1177684	98.79774069	97.50782229	96.24708284	95.01462823
230418A00059	4/18/2023	4.09	4/17/2026	102.69498	101.969983	101.2552493	100.5505574	99.85569639	99.17046117	98.49465237	97.8280761	97.17054374
230419A00030	4/19/2023	4.39	4/20/2026	102.89376	102.1603593	101.437442	100.7247818	100.022161	99.32936832	98.64619815	97.97245069	97.30793162
230419A00035	4/19/2023	4.16	4/19/2028	111.1992	108.3781935	105.644186	102.9939232	100.424295	97.93233032	95.51518946	93.17015756	90.8946379
230420A00024	4/20/2023	4.31	4/20/2026	102.83541	102.1022454	101.3795611	100.6671315	99.96473907	99.27217246	98.58922617	97.91570039	97.25140086
230420A00056	4/20/2023	4.38	4/20/2033	129.81084	121.3702876	113.5626399	106.3366092	99.64533452	93.44598002	87.69936871	82.36965114	77.42400577
230420A00059	4/20/2023	4.72	4/20/2038	145.35546	131.2114908	118.6866995	107.5828699	97.72719584	88.9688986	81.17630804	74.23434408	68.04234198
230420A00060	4/20/2023	4.72	4/20/2038	145.35546	131.2114908	118.6866995	107.5828699	97.72719584	88.9688986	81.17630804	74.23434408	68.04234198
230420A00063	4/20/2023	4.65	4/20/2037	142.51393	129.4938518	117.8659226	107.4708777	98.168571	89.83558435	82.36314683	75.65532309	69.62743408
230420A00071	4/20/2023	4.31	4/20/2026	102.83541	102.1022454	101.3795611	100.6671315	99.96473907	99.27217246	98.58922617	97.91570039	97.25140086
230421A00006	4/21/2023	4.04	4/21/2028	110.89192	108.0694928	105.3342893	102.6830354	100.1126072	97.62002066	95.20242433	92.85709218	90.58141707
230421A00020	4/21/2023	4.23	4/21/2026	102.7876	102.0518718	101.3267003	100.611857	99.90712211	99.2122819	98.52712874	97.85146076	97.18508165
230421A00025	4/21/2023	4.04	4/21/2028	110.89192	108.0694928	105.3342893	102.6830354	100.1126072	97.62002066	95.20242433	92.85709218	90.58141707

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230421A00041	4/21/2023	4.22	4/21/2027	107.03298	105.2710084	103.5467966	101.8591931	100.2070959	98.58944763	97.00523318	95.4534777	93.93324444
230421A00043	4/21/2023	4.1	4/21/2028	111.05729	108.2325675	105.4951241	102.8416827	100.2691179	97.77444387	95.35480774	93.00748197	90.72985802
230421A00044	4/21/2023	4.13	10/21/2027	109.01181	106.7244352	104.4969422	102.3273238	100.2136535	98.15408577	96.14685187	94.19025569	92.28267023
230421A00062	4/21/2023	4.33	4/21/2028	106.02343	104.5439674	103.0996079	101.6892275	100.3117464	98.9661285	97.65137841	96.3665401	95.11069479
230421A00064	4/21/2023	4.1	4/21/2028	111.05729	108.2325675	105.4951241	102.8416827	100.2691179	97.77444387	95.35480774	93.00748197	90.72985802
230424A00003	4/24/2023	4.15	4/26/2027	106.97115	105.1956813	103.4584936	101.7584102	100.0943068	98.46510468	96.86976885	95.30730552	93.77676006
230424A00005	4/24/2023	4.08	4/24/2028	111.03668	108.2037316	105.458536	102.7977902	100.2183435	97.71718672	95.29144484	92.93836966	90.65533324
230424A00012	4/24/2023	4.28	4/24/2026	102.85623	102.1119588	101.3784748	100.655549	99.94295431	99.24047008	98.54788198	97.86498169	97.19156669
230424A00026	4/24/2023	4.28	4/24/2026	102.85623	102.1119588	101.3784748	100.655549	99.94295431	99.24047008	98.54788198	97.86498169	97.19156669
230424A00064	4/24/2023	4.28	4/24/2026	102.85623	102.1119588	101.3784748	100.655549	99.94295431	99.24047008	98.54788198	97.86498169	97.19156669
230425A00006	4/25/2023	3.89	4/24/2026	102.6193	101.8753097	101.1421241	100.4195058	99.7072273	99.00506756	98.3128118	97.63025131	96.9571832
230425A00011	4/25/2023	4.3	9/25/2025	100.59347	100.4378088	100.2826364	100.1279504	99.97374854	99.82002858	99.66678824	99.51402526	99.3617374
230425A00029	4/25/2023	4.14	4/24/2026	102.75257	102.0087214	101.2756573	100.553147	99.84096368	99.13888667	98.44670173	97.76420061	97.09118085
230425A00030	4/25/2023	4.01	4/26/2027	106.72529	104.9520481	103.2170441	101.5191047	99.8571066	98.22997226	96.63666764	95.07619994	93.5476155
230425A00031	4/25/2023	3.69	4/25/2028	110.1703	107.3421194	104.6017978	101.9460189	99.37162135	96.87558613	94.45502901	92.10719334	89.82944334
230425A00032	4/25/2023	3.95	4/25/2028	110.68844	107.8575081	105.1143703	102.4557228	99.87840992	97.37941808	94.95586799	92.60500761	90.32420546
230425A00040	4/25/2023	3.89	4/24/2026	102.6193	101.8753097	101.1421241	100.4195058	99.7072273	99.00506756	98.3128118	97.63025131	96.9571832
230425A00045	4/25/2023	3.95	4/25/2028	110.68844	107.8575081	105.1143703	102.4557228	99.87840992	97.37941808	94.95586799	92.60500761	90.32420546
230425A00047	4/25/2023	4.01	4/26/2027	106.72529	104.9520481	103.2170441	101.5191047	99.8571066	98.22997226	96.63666764	95.07619994	93.5476155
230425A00050	4/25/2023	4.14	4/24/2026	102.75257	102.0087214	101.2756573	100.553147	99.84096368	99.13888667	98.44670173	97.76420061	97.09118085
230425A00052	4/25/2023	4.01	4/26/2027	106.72529	104.9520481	103.2170441	101.5191047	99.8571066	98.22997226	96.63666764	95.07619994	93.5476155
230425A00053	4/25/2023	4.14	4/24/2026	102.75257	102.0087214	101.2756573	100.553147	99.84096368	99.13888667	98.44670173	97.76420061	97.09118085
230425A00104	4/25/2023	3.86	7/15/2026	103.43228	102.4585027	101.5030981	100.5655463	99.64534959	98.74202859	97.85512151	96.98418329	96.12878484
230426A00003	4/26/2023	3.89	5/9/2028	110.67227	107.8027302	105.0232315	102.3303816	99.72094373	97.19182469	94.74006758	92.36284463	90.05745062
230426A00004	4/26/2023	3.89	5/9/2028	110.67227	107.8027302	105.0232315	102.3303816	99.72094373	97.19182469	94.74006758	92.36284463	90.05745062
230426A00005	4/26/2023	3.91	6/13/2028	111.10238	108.1295508	105.2527612	102.4683968	99.77299703	97.16324979	94.6359845	92.18816515	89.81688383
230426A00006	4/26/2023	3.91	6/13/2028	111.10238	108.1295508	105.2527612	102.4683968	99.77299703	97.16324979	94.6359845	92.18816515	89.81688383
230426A00007	4/26/2023	3.92	7/11/2028	111.42992	108.3740837	105.4193912	102.5619414	99.79800264	97.12400795	94.53654655	92.03235627	89.60831609
230426A00008	4/26/2023	3.92	7/11/2028	111.42992	108.3740837	105.4193912	102.5619414	99.79800264	97.12400795	94.53654655	92.03235627	89.60831609
230426A00009	4/26/2023	3.94	8/8/2028	111.78317	108.6451921	105.613393	102.6835796	99.85174673	97.11407055	94.46689913	91.90674357	89.43026979
230426A00010	4/26/2023	3.94	8/8/2028	111.78317	108.6451921	105.613393	102.6835796	99.85174673	97.11407055	94.46689913	91.90674357	89.43026979
230426A00011	4/26/2023	3.96	9/12/2028	112.22154	108.979136	105.8489242	102.8263629	99.90712114	97.08706993	94.36227133	91.72896831	89.18357523
230426A00012	4/26/2023	3.96	9/12/2028	112.22154	108.979136	105.8489242	102.8263629	99.90712114	97.08706993	94.36227133	91.72896831	89.18357523

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230426A00013	4/26/2023	3.98	10/10/2028	112.58915	109.2622023	106.0525856	102.955452	99.96618347	97.08038234	94.29385953	91.60262292	89.00286669
230426A00014	4/26/2023	3.98	10/10/2028	112.58915	109.2622023	106.0525856	102.955452	99.96618347	97.08038234	94.29385953	91.60262292	89.00286669
230426A00025	4/26/2023	3.62	4/26/2028	109.98684	107.1583935	104.4178987	101.7620398	99.18764858	96.69170006	94.27130422	91.92369906	89.64624386
230426A00033	4/26/2023	3.88	4/26/2028	110.50569	107.6744667	104.9311435	102.2724038	99.6950854	97.19616846	94.77276801	92.42212666	90.14160796
230426A00036	4/26/2023	4.06	4/27/2026	102.72354	101.971538	101.2305595	100.500362	99.78071136	99.07137999	98.37214696	97.68279753	97.00312307
230426A00037	4/26/2023	3.94	4/26/2027	106.60236	104.8302315	103.0963193	101.3994519	99.73850651	98.11240604	96.52011703	94.96064715	93.43304322
230426A00040	4/26/2023	3.9	4/26/2028	110.56109	107.7290944	104.9850172	102.3255413	99.7475037	97.24788424	94.82379735	92.47248518	90.19131077
230426A00046	4/26/2023	3.95	4/26/2028	110.69959	107.8656637	105.1197015	102.4583848	99.87854943	97.37717367	94.95137072	92.59838148	90.31556781
230426A00049	4/26/2023	4.13	4/27/2026	102.77595	102.0237333	101.2825402	100.5521304	99.83226953	99.12273012	98.42329114	97.73373784	97.05386153
230426A00062	4/26/2023	4.13	4/27/2026	102.77595	102.0237333	101.2825402	100.5521304	99.83226953	99.12273012	98.42329114	97.73373784	97.05386153
230426A00064	6/15/2023	3.87	6/15/2028	111.00768	108.0305735	105.1498294	102.3618109	99.66304006	97.05018823	94.52006934	92.0696328	89.69595696
230426A00065	6/15/2023	3.87	6/15/2028	111.00768	108.0305735	105.1498294	102.3618109	99.66304006	97.05018823	94.52006934	92.0696328	89.69595696
230426A00142	4/26/2023	4.51	4/27/2026	101.70595	101.2863464	100.871107	100.4601565	100.0534211	99.65082858	99.25230861	98.85779252	98.46721325
230427A00066	4/27/2023	4.07	4/27/2027	106.84246	105.0653509	103.3266035	101.6250412	99.95953564	98.32900447	96.73240909	95.16875236	93.63707654
230427A00077	4/27/2023	4.14	10/27/2026	104.78886	103.5212925	102.2844864	101.0773263	99.89875439	98.74776244	97.62338927	96.52471791	95.45087313
230428A00017	4/28/2023	4.17	4/28/2026	102.81627	102.0611295	101.3170926	100.5839171	99.86136627	99.14921016	98.44722548	97.7551953	97.07290879
230428A00018	4/28/2023	3.99	4/28/2028	110.8329	107.9914445	105.2383185	102.5701845	99.98386011	97.47630633	95.04462024	92.68602751	90.39787573
230428A00029	4/28/2023	4.23	4/28/2026	102.86136	102.106033	101.3618109	100.628452	99.90571973	99.19338401	98.49122155	97.79901537	97.11655462
230428A00050	4/28/2023	4.31	4/28/2028	105.87723	104.4261427	103.0092854	101.6255655	100.2739323	98.95337728	97.66293199	96.401666	95.16868516
230428A00055	4/28/2023	4.61	4/28/2026	101.7503	101.3299422	100.9139693	100.5023035	100.0948703	99.69159708	99.29241292	98.89724866	98.50603676
230501A00011	5/1/2023	4.09	4/26/2027	106.86578	105.0912671	103.3550152	101.6558507	99.99264956	98.36433364	96.76986833	95.20826027	93.67855525
230501A00012	5/1/2023	3.98	5/1/2028	110.8384	107.988463	105.2273382	102.5516669	99.95824517	97.44401375	95.00605023	92.64156175	90.34787816
230502A00038	5/2/2023	3.86	5/2/2028	110.5148	107.6666636	104.9073853	102.2336117	99.64213792	97.12990352	94.69398469	92.33158699	90.04003858
230502A00052	5/2/2023	3.96	5/3/2027	106.71682	104.9242939	103.1707499	101.4549986	99.77589792	98.13235211	96.52330923	94.94775889	93.40473022
230502A00055	5/2/2023	4.08	5/4/2026	102.81089	102.0392675	101.2792412	100.5305528	99.79294976	99.06618687	98.35002622	97.64423678	96.94859421
230502A00076	5/2/2023	3.95	5/3/2027	106.69907	104.9067011	103.1533165	101.4377215	99.75877442	98.11537944	96.5064847	94.93107991	93.38819424
230502A00079	5/2/2023	3.6	5/2/2028	109.99286	107.1475282	104.3911217	101.7202724	99.13176982	96.62254798	94.18967803	91.83036087	89.54192032
230502A00081	5/2/2023	3.96	5/3/2027	106.71682	104.9242939	103.1707499	101.4549986	99.77589792	98.13235211	96.52330923	94.94775889	93.40473022
230502A00086	5/2/2023	4.08	5/1/2026	102.77939	102.016142	101.2642442	100.5234398	99.7934847	99.07414156	98.36518009	97.6663766	96.97751377
230502A00122	5/2/2023	3.7	5/3/2027	106.38206	104.59034	102.8376335	101.122747	99.44453687	97.80190552	96.19379942	94.61920672	93.07715512
230503A00004	5/3/2023	3.94	5/3/2027	106.68131	104.8891083	103.135883	101.4204445	99.74165092	98.09840676	96.48966017	94.91440092	93.37165826
230503A00012	5/3/2023	3.82	5/3/2028	110.4137	107.564237	104.8037652	102.1289211	99.53649659	97.02342778	94.58678735	92.22377729	89.93172209
230503A00014	5/3/2023	3.94	5/3/2027	106.68131	104.8891083	103.135883	101.4204445	99.74165092	98.09840676	96.48966017	94.91440092	93.37165826

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	Parallel-Shift Sensitivity Analysis											
7/31/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230503A00020	5/3/2023	3.84	5/3/2028	110.46948	107.619242	104.858006	102.1824157	99.58926239	97.07548173	94.63814584	92.27445619	89.98173679
230503A00025	5/3/2023	3.84	5/3/2028	110.46948	107.619242	104.858006	102.1824157	99.58926239	97.07548173	94.63814584	92.27445619	89.98173679
230503A00029	5/3/2023	4.08	5/4/2026	102.81089	102.0392675	101.2792412	100.5305528	99.79294976	99.06618687	98.35002622	97.64423678	96.94859421
230503A00030	5/3/2023	3.84	5/3/2028	110.46948	107.619242	104.858006	102.1824157	99.58926239	97.07548173	94.63814584	92.27445619	89.98173679
230503A00032	5/3/2023	4.08	5/1/2026	102.77939	102.016142	101.2642442	100.5234398	99.7934847	99.07414156	98.36518009	97.6663766	96.97751377
230503A00034	5/3/2023	3.84	5/3/2028	110.46948	107.619242	104.858006	102.1824157	99.58926239	97.07548173	94.63814584	92.27445619	89.98173679
230503A00072	5/3/2023	3.83	5/4/2026	102.67264	101.9008909	101.1407507	100.3919626	99.65427337	98.92743742	98.21121623	97.5053783	96.80969879
230504A00006	5/4/2023	3.79	12/6/2027	108.742	106.3294735	103.983125	101.7007747	99.48032864	97.31977384	95.21717417	93.17066714	91.17846063
230504A00007	5/4/2023	3.82	7/6/2027	107.16167	105.1885007	103.261902	101.3804877	99.54292571	97.74793179	95.99426802	94.28074061	92.606198
230504A00011	5/4/2023	3.7	5/4/2026	102.57276	101.8014283	101.0417063	100.293332	99.55605232	98.82962161	98.11380149	97.40836051	96.71307391
230504A00019	5/4/2023	3.95	5/4/2026	102.71104	101.9398337	101.1802252	100.4319502	99.69475623	98.96839818	98.25263819	97.5472453	96.85199525
230504A00020	5/4/2023	3.83	5/4/2027	106.49676	104.7035312	102.949358	101.233049	99.5534632	97.90950541	96.30012406	94.72430892	93.18108906
230504A00021	5/4/2023	3.76	5/4/2028	110.25652	107.4065352	104.6456412	101.9704798	99.37784007	96.86465541	94.42799548	92.06505917	89.7731678
230504A00034	5/4/2023	3.95	5/4/2026	102.71104	101.9398337	101.1802252	100.4319502	99.69475623	98.96839818	98.25263819	97.5472453	96.85199525
230504A00041	5/4/2023	3.95	5/4/2026	102.71104	101.9398337	101.1802252	100.4319502	99.69475623	98.96839818	98.25263819	97.5472453	96.85199525
230504A00042	5/4/2023	3.83	5/4/2027	106.49676	104.7035312	102.949358	101.233049	99.5534632	97.90950541	96.30012406	94.72430892	93.18108906
230504A00043	5/4/2023	3.76	5/4/2028	110.25652	107.4065352	104.6456412	101.9704798	99.37784007	96.86465541	94.42799548	92.06505917	89.7731678
230504A00049	5/4/2023	3.95	5/4/2026	102.71104	101.9398337	101.1802252	100.4319502	99.69475623	98.96839818	98.25263819	97.5472453	96.85199525
230504A00054	5/4/2023	3.95	5/4/2026	102.71104	101.9398337	101.1802252	100.4319502	99.69475623	98.96839818	98.25263819	97.5472453	96.85199525
230504A00057	5/4/2023	3.86	5/4/2026	102.6419	101.8709949	101.1116757	100.3636869	99.6267761	98.90069832	98.1852157	97.48009736	96.78511905
230504A00058	5/4/2023	3.69	5/4/2028	110.06107	107.2138287	104.4556148	101.7830701	99.19298591	96.68229738	94.24807607	91.88752267	89.59796023
230504A00059	5/4/2023	4.34	5/4/2026	101.77576	101.3202196	100.8697942	100.4243849	99.9838994	99.54824747	99.11734134	98.69109546	98.26942641
230504A00069	5/4/2023	3.82	5/4/2026	102.61118	101.8403999	101.0812092	100.3333476	99.59656271	98.87060949	98.15525015	97.45025382	96.7553963
230504A00084	5/4/2023	3.5	5/4/2028	109.73327	106.886117	104.1281164	101.4559009	98.86625391	96.35610319	93.9225134	91.56267876	89.27391624
230505A00002	5/5/2023	4.01	5/5/2026	102.76743	101.9932411	101.2307311	100.4796384	99.73970761	99.01069104	98.2923482	97.58444565	96.88675672
230505A00005	5/5/2023	3.99	5/5/2026	102.75201	101.9778886	101.2154433	100.4644146	99.72454722	98.99559334	98.27731254	97.56947139	96.87184323
230505A00014	5/5/2023	3.59	5/5/2028	109.99475	107.1411745	104.3770065	101.6988647	99.10352531	96.58790922	94.14907404	91.78420702	89.49061828
230505A00016	5/5/2023	3.85	5/5/2028	110.51826	107.6618562	104.8947945	102.213706	99.61537308	97.09672186	94.65481508	92.28684468	89.99012516
230505A00017	5/5/2023	4.01	5/5/2026	102.76743	101.9932411	101.2307311	100.4796384	99.73970761	99.01069104	98.2923482	97.58444565	96.88675672
230505A00022	5/5/2023	3.85	5/5/2028	110.51826	107.6618562	104.8947945	102.213706	99.61537308	97.09672186	94.65481508	92.28684468	89.99012516
230505A00027	5/5/2023	4.01	5/5/2026	102.76743	101.9932411	101.2307311	100.4796384	99.73970761	99.01069104	98.2923482	97.58444565	96.88675672
230505A00035	5/5/2023	3.9	5/5/2027	106.63219	104.835005	103.0770091	101.3570077	99.67385884	98.02646646	96.41377784	94.83478142	93.28850483
230505A00071	5/5/2023	3.85	5/5/2028	110.51826	107.6618562	104.8947945	102.213706	99.61537308	97.09672186	94.65481508	92.28684468	89.99012516

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	Parallel-Shift Sensitivity Analysis											
7/31/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230508A00007	5/8/2023	3.92	5/8/2028	110.74581	107.8779808	105.1000509	102.4086371	99.80050628	97.27256906	94.82187235	92.44559231	90.14102767
230508A00016	5/8/2023	4.14	5/8/2026	102.89965	102.1166439	101.345577	100.5861781	99.83818329	99.10133682	98.37539035	97.66010297	96.95524079
230508A00017	5/8/2023	4.01	5/10/2027	106.88436	105.0712819	103.2979711	101.5632384	99.86593984	98.20497633	96.57929102	94.98786738	93.42972725
230508A00018	5/8/2023	3.92	5/8/2028	110.74581	107.8779808	105.1000509	102.4086371	99.80050628	97.27256906	94.82187235	92.44559231	90.14102767
230509A00010	5/9/2023	4.14	5/8/2026	102.89965	102.1166439	101.345577	100.5861781	99.83818329	99.10133682	98.37539035	97.66010297	96.95524079
230509A00036	5/9/2023	4.02	5/10/2027	106.90231	105.0890651	103.3155917	101.5806993	99.88324396	98.2221265	96.59628998	95.0047178	93.44643174
230509A00060	5/9/2023	3.92	5/9/2028	110.75645	107.885723	105.1050646	102.4110827	99.80053924	97.27034044	94.81752852	92.43927494	90.13287371
230509A00118	5/9/2023	4.12	5/8/2026	102.88407	102.1011266	101.3301257	100.5707921	99.82286191	99.08607935	98.36019613	97.64497134	96.94017112
230510A00009	5/10/2023	4.07	5/11/2026	102.87653	102.0853625	101.3063917	100.539334	99.783917	99.03987684	98.30695746	97.58491047	96.87349484
230510A00014	5/10/2023	4.07	5/11/2026	102.87653	102.0853625	101.3063917	100.539334	99.783917	99.03987684	98.30695746	97.58491047	96.87349484
230510A00018	11/10/2023	3.61	11/10/2026	104.26908	102.9704198	101.7004999	100.4583609	99.24309004	98.05381451	96.88969942	95.74994567	94.63378803
230510A00037	5/10/2023	3.84	5/10/2028	110.54238	107.6719349	104.8916461	102.1981205	99.58811802	97.05854245	94.60643352	92.22896007	89.92341339
230510A00057	5/10/2023	3.98	5/11/2026	102.80565	102.0147934	101.2361255	100.4693673	99.71424676	98.97049987	98.23787066	97.51611082	96.80497935
230510A00062	8/10/2023	3.78	8/10/2026	103.5467	102.5017003	101.4778319	100.4744534	99.49095347	98.52674492	97.58126347	96.65396669	95.74433296
230511A00023	5/11/2023	3.95	5/19/2026	102.86315	102.0500164	101.2497637	100.4620858	99.68668767	98.92328329	98.1715955	97.43135566	96.70230326
230511A00032	5/11/2023	3.7	5/11/2026	102.64025	101.8493721	101.0706966	100.3039446	99.5488432	98.80512799	98.07254246	97.35083773	96.63977235
230511A00036	5/11/2023	3.79	5/19/2027	106.58527	104.7505197	102.9564678	101.2019277	99.48575495	97.80684765	96.16414414	94.55662137	92.98329315
230511A00038	5/11/2023	3.95	5/11/2026	102.78203	101.9912703	101.2127034	100.4460451	99.69102335	98.94737421	98.21484173	97.4931776	96.78214086
230511A00039	5/11/2023	3.86	11/27/2026	104.78503	103.4427112	102.1249805	100.8311964	99.56074415	98.31302996	97.08748001	95.8835397	94.70067279
230511A00042	5/11/2023	3.72	5/11/2028	110.2154	107.3468426	104.5684869	101.8769441	99.26897322	96.74147675	94.29149301	91.91618925	89.61285505
230511A00043	5/11/2023	3.72	5/16/2028	110.26581	107.3828457	104.5909147	101.8865985	99.26663334	96.72789854	94.26740884	91.88230779	89.56986117
230511A00044	5/11/2023	3.79	5/11/2027	106.50013	104.6878827	102.9154496	101.1816393	99.4853096	97.82536261	96.20074252	94.61043359	93.05345818
230511A00046	5/11/2023	3.95	5/11/2026	102.78203	101.9912703	101.2127034	100.4460451	99.69102335	98.94737421	98.21484173	97.4931776	96.78214086
230511A00050	5/11/2023	3.98	5/11/2026	102.80565	102.0147934	101.2361255	100.4693673	99.71424676	98.97049987	98.23787066	97.51611082	96.80497935
230511A00069	5/11/2023	3.98	5/12/2026	102.81588	102.0222213	101.2408431	100.4714574	99.71378926	98.96757198	98.23254696	97.50846337	96.79507781
230511A00080	5/11/2023	3.49	5/11/2028	109.77287	106.9060047	104.1294296	101.439748	98.8337122	96.30821836	93.86029886	91.48711545	89.18595253
230512A00008	5/12/2023	3.75	5/12/2026	102.68942	101.8955729	101.1140191	100.3444734	99.58666014	98.84031207	98.10517004	97.38098264	96.66750595
230512A00010	5/12/2023	3.75	5/12/2026	102.68942	101.8955729	101.1140191	100.3444734	99.58666014	98.84031207	98.10517004	97.38098264	96.66750595
230512A00011	5/12/2023	3.78	5/12/2028	110.39434	107.5205147	104.7371121	102.0407377	99.42814453	96.89622858	94.44202191	92.06268548	89.75550263
230512A00026	5/12/2023	4	5/12/2026	102.83168	102.0379582	101.2565123	100.4870596	99.72932514	98.98304226	98.24795235	97.52380454	96.81035542
230512A00033	5/12/2023	3.75	5/12/2026	102.68942	101.8955729	101.1140191	100.3444734	99.58666014	98.84031207	98.10517004	97.38098264	96.66750595
230512A00037	5/12/2023	3.86	5/12/2027	106.6368	104.8205772	103.0442976	101.3067723	99.60685857	97.94345729	96.31551147	94.72200397	93.16195562
230512A00042	5/12/2023	4	5/12/2026	102.83168	102.0379582	101.2565123	100.4870596	99.72932514	98.98304226	98.24795235	97.52380454	96.81035542

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230515A00011	5/15/2023	4.11	5/15/2026	102.95036	102.1478619	101.3579018	100.5801883	99.81443774	99.06037514	98.31773392	97.58625554	96.86568925
230515A00045	5/15/2023	4.08	5/15/2026	102.9264	102.1240094	101.3341529	100.556542	99.79089281	99.03693053	98.29438856	97.56300838	96.84253925
230515A00074	5/15/2023	4.11	5/15/2026	102.95036	102.1478619	101.3579018	100.5801883	99.81443774	99.06037514	98.31773392	97.58625554	96.86568925
230515A00078	5/15/2023	3.96	5/17/2027	106.87241	105.040414	103.2489456	101.4968179	99.78288572	98.10604671	96.46523943	94.85944143	93.28766748
230515A00080	5/15/2023	3.88	5/15/2028	110.70735	107.8208607	105.0253896	102.3175215	99.69399246	97.15168182	94.68760471	92.29890522	89.98284988
230516A00013	5/16/2023	4.11	5/15/2026	102.95036	102.1478619	101.3579018	100.5801883	99.81443774	99.06037514	98.31773392	97.58625554	96.86568925
230516A00035	5/16/2023	4.11	5/15/2026	102.95036	102.1478619	101.3579018	100.5801883	99.81443774	99.06037514	98.31773392	97.58625554	96.86568925
230516A00036	5/16/2023	4	5/17/2027	106.94498	105.1123083	103.3201756	101.5673959	99.85282358	98.17535603	96.53393146	94.92752714	93.35515751
230516A00037	5/16/2023	3.91	5/16/2028	110.80264	107.9120499	105.112676	102.4010942	99.77403497	97.22837216	94.76111532	92.36940294	90.05049601
230516A00069	5/16/2023	4.1	5/15/2026	102.94238	102.139911	101.3499855	100.5723062	99.80658943	99.05256027	98.30995213	97.57850649	96.85797258
230517A00014	5/17/2023	4.14	5/18/2026	103.00632	102.1953058	101.3970954	100.6113834	99.83787756	99.07629444	98.32635948	97.58780647	96.86037726
230517A00048	5/17/2023	4.17	5/15/2026	102.99828	102.1955669	101.4053995	100.627481	99.8615276	99.10726437	98.36442465	97.63274988	96.91198925
230518A00017	5/18/2023	4.28	5/18/2026	103.11928	102.3077703	101.5090666	100.7228667	99.94887831	99.18681787	98.43641074	97.6973906	96.96949922
230518A00019	5/18/2023	3.81	5/18/2028	110.74724	107.8473298	105.0391749	102.3193391	99.68453306	97.13161081	94.65756278	92.25950879	89.93469162
230519A00012	5/19/2023	4.53	12/19/2025	101.60721	101.2145682	100.8249786	100.4384015	100.054802	99.67414567	99.29639855	98.92152727	98.54949893
230519A00027	5/19/2023	4.39	5/19/2026	103.21939	102.4046838	101.6028704	100.8136492	100.0367246	99.27181034	98.51862901	97.77691164	97.04639744
230519A00029	5/19/2023	4.39	5/19/2026	103.21939	102.4046838	101.6028704	100.8136492	100.0367246	99.27181034	98.51862901	97.77691164	97.04639744
230519A00030	5/19/2023	4.27	5/19/2027	107.45878	105.6158613	103.8137906	102.0513799	100.3274804	98.64098634	96.99083214	95.37599112	93.79547351
230519A00038	5/19/2023	3.92	5/19/2028	111.06981	108.1625421	105.3473095	102.6206617	99.97930141	97.4200747	94.93996413	92.53608173	90.20566257
230519A00041	5/19/2023	3.92	5/19/2028	111.06981	108.1625421	105.3473095	102.6206617	99.97930141	97.4200747	94.93996413	92.53608173	90.20566257
230522A00026	5/22/2023	4.35	5/22/2026	103.22075	102.3977533	101.5879162	100.7909224	100.0064677	99.23425733	98.47400581	97.72543642	96.98828096
230522A00043	5/22/2023	4.17	5/16/2028	111.53725	108.6362241	105.8266653	103.105141	100.4683741	97.91323081	95.43671365	93.03595421	90.70820685
230522A00046	5/22/2023	4.17	5/22/2028	111.60521	108.6866831	105.8606215	103.1235683	100.4722181	97.90340873	95.41411369	93.00143547	90.6625993
230522A00093	5/22/2023	4.17	5/22/2028	111.60521	108.6866831	105.8606215	103.1235683	100.4722181	97.90340873	95.41411369	93.00143547	90.6625993
230523A00008	5/23/2023	4.44	5/26/2026	103.34034	102.5057667	101.6847026	100.8768248	100.081817	99.29937306	98.52919646	97.77099994	97.02450517
230523A00024	5/23/2023	4.06	5/24/2027	107.26512	105.4080087	103.5923659	101.8169913	100.0807323	98.38247751	96.72115555	95.09573274	93.50521171
230523A00048	5/23/2023	4.44	5/26/2026	103.34034	102.5057667	101.6847026	100.8768248	100.081817	99.29937306	98.52919646	97.77099994	97.02450517
230523A00049	5/23/2023	4.31	5/24/2027	107.59199	105.7341737	103.9177827	102.1416273	100.4045568	98.70546184	97.04327269	95.41695731	93.82551986
230523A00083	5/23/2023	4.21	5/23/2028	111.73033	108.8072564	105.9768552	103.2356631	100.580369	98.00780456	95.51493734	93.09886386	90.75680341
230523A00085	5/23/2023	4.39	5/23/2029	116.59789	112.563417	108.6937752	104.9813374	101.4188693	97.99950889	94.71674528	91.56439896	88.5366029
230523A00086	5/23/2023	4.42	5/23/2030	120.85434	115.6887804	110.7805475	106.1154226	101.6800459	97.46186164	93.44906567	89.63055626	85.99588877
230523A00088	5/23/2023	4.59	5/23/2033	131.71378	123.1093547	115.1553174	107.7985811	100.9906632	94.68726652	88.84789845	83.43552505	78.41625913
230523A00089	5/23/2023	4.65	5/23/2034	135.23506	125.4676434	116.518635	108.3142491	100.7877416	93.87870138	87.53241904	81.69932077	76.33446165

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	Parallel-Shift Sensitivity Analysis											
7/31/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230523A00090	5/23/2023	4.71	5/23/2035	138.68814	127.7531124	117.8219835	108.795827	100.5859942	93.11299591	86.30551195	80.09951188	74.43747452
230523A00091	5/23/2023	4.77	5/23/2036	141.89756	129.8024118	118.9126889	109.0996459	100.2489937	92.25920463	85.04002587	78.51117175	72.6011744
230524A00009	5/24/2023	3.9	5/24/2028	111.06702	108.1460084	105.3178497	102.5790706	99.92635058	97.35651246	94.86651499	92.45344627	90.11451743
230524A00028	5/24/2023	4.36	5/26/2026	103.27402	102.4397453	101.6189783	100.8113942	100.0166768	99.23452004	98.46462744	97.70671181	96.96049486
230524A00038	5/24/2023	4.36	5/26/2026	103.27402	102.4397453	101.6189783	100.8113942	100.0166768	99.23452004	98.46462744	97.70671181	96.96049486
230525A00094	5/25/2023	4.31	5/25/2028	112.03824	109.105238	106.2653413	103.5150754	100.8511167	98.27028435	95.76953314	93.34594709	90.99673302
230526A00013	5/26/2023	4.39	5/26/2026	103.35707	102.5216263	101.6997232	100.8910307	100.0952318	99.31201939	98.54109625	97.78217436	97.03497467
230526A00016	5/26/2023	4.46	5/26/2027	107.89204	106.0259235	104.2015104	102.4176069	100.67306	98.96675795	97.29762792	95.6646347	94.06677892
230526A00033	5/26/2023	4.63	5/27/2031	125.63949	119.2940457	113.3205833	107.6952277	102.3957561	97.40147748	92.69311927	88.2527231	84.06354881
230526A00034	5/26/2023	4.66	5/26/2032	129.08505	121.5961432	114.6104196	108.0911562	102.0045	96.31922781	91.0065288	86.03980651	81.39449792
230530A00027	5/30/2023	4.22	5/30/2028	111.83903	108.8950887	106.0450008	103.2852757	100.6125687	98.02367711	95.5155336	93.08519979	90.72986004
230530A00045	5/30/2023	4.56	5/29/2026	103.81898	102.8950107	101.987603	101.0963149	100.2207187	99.36040169	98.51496546	97.6840254	96.86721008
230530A00048	5/30/2023	4.45	5/29/2026	103.3832	102.5401391	101.710857	100.8950177	100.0922959	99.30237667	98.52495532	97.75973658	97.00643448
230530A00054	5/30/2023	4.56	5/29/2026	103.81898	102.8950107	101.987603	101.0963149	100.2207187	99.36040169	98.51496546	97.6840254	96.86721008
230530A00055	5/30/2023	4.56	5/29/2026	103.81898	102.8950107	101.987603	101.0963149	100.2207187	99.36040169	98.51496546	97.6840254	96.86721008
230530A00118	5/30/2023	4.4	5/28/2027	107.80635	105.9355777	104.1067136	102.3185672	100.5699854	98.85985545	97.18710343	95.55069243	93.9496211
230530A00171	5/30/2023	4.43	5/29/2026	103.36645	102.5234691	101.6942628	100.8784984	100.0758506	99.28600459	98.50865561	97.74350845	96.99027713
230531A00037	5/31/2023	4.41	5/29/2026	103.34971	102.5067992	101.6776686	100.8619791	100.0594053	99.26963251	98.4923559	97.72728031	96.97411978
230531A00038	5/31/2023	4.01	5/28/2027	107.21919	105.3515962	103.5258998	101.7409093	99.99547091	98.28847126	96.61883577	94.985527	93.38754314
230531A00042	5/31/2023	4.01	5/28/2027	107.21919	105.3515962	103.5258998	101.7409093	99.99547091	98.28847126	96.61883577	94.985527	93.38754314
230531A00060	5/31/2023	4.44	2/27/2026	102.35812	101.7699469	101.1885335	100.6137676	100.0455358	99.48372686	98.92823244	98.37894644	97.83576516
230531A00061	5/31/2023	4.42	4/1/2026	102.70535	102.0250177	101.3537038	100.6912343	100.0374351	99.39213673	98.75517401	98.12638612	97.50561632
230531A00062	5/31/2023	4.39	4/30/2026	103.00357	102.2421365	101.491977	100.7528399	100.0244835	99.30667312	98.59918069	97.9017848	97.21427032
230531A00063	5/31/2023	4.37	5/29/2026	103.31621	102.4734594	101.6444803	100.8289405	100.0265148	99.23688834	98.45975649	97.69482403	96.94180507
230531A00090	5/31/2023	4.41	6/1/2026	103.38414	102.5328142	101.6955349	100.8719571	100.0617463	99.26457857	98.48014059	97.70812891	96.94824969
230531A00091	5/31/2023	4.26	6/1/2027	107.59613	105.716365	103.8789276	102.0826215	100.3262886	98.6088107	96.92910788	95.28613691	93.67888975
230531A00099	5/31/2023	4.41	5/29/2026	103.34971	102.5067992	101.6776686	100.8619791	100.0594053	99.26963251	98.4923559	97.72728031	96.97411978
230601A00025	6/1/2023	4.12	6/1/2028	111.5752	108.6294738	105.7778493	103.016823	100.3430393	97.75328485	95.24448211	92.81368274	90.45806145
230602A00012	6/2/2023	4.39	6/2/2026	103.37878	102.5247232	101.684807	100.8586812	100.046008	99.24646039	98.45972189	97.68548616	96.92345658
230602A00020	6/2/2023	3.94	6/2/2028	111.27957	108.3305362	105.4759294	102.7122235	100.0360447	97.44416309	94.93348516	92.50104762	90.14401113
230602A00027	6/2/2023	4.2	6/2/2026	103.27708	102.422681	101.5824431	100.756015	99.94305776	99.14324379	98.3562559	97.58178706	96.81953999
230602A00030	6/2/2023	4.2	6/2/2026	103.27708	102.422681	101.5824431	100.756015	99.94305776	99.14324379	98.3562559	97.58178706	96.81953999
230602A00051	6/2/2023	4.33	6/2/2038	124.47721	117.3831557	110.8734358	104.8914479	99.38666203	94.31391524	89.63279677	85.30710805	81.30438789

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230605A00022	6/5/2023	4.39	6/4/2027	107.87509	105.9842359	104.1361217	102.3295347	100.563301	98.83628727	97.14739912	95.49557956	93.87980738
230606A00008	6/6/2023	3.98	6/6/2028	111.43951	108.4768109	105.6093002	102.8334082	100.1457229	97.54297777	95.02204527	92.57992979	90.21376147
230606A00014	6/6/2023	4.35	6/7/2027	107.8379	105.9389676	104.0831348	102.2691713	100.4958889	98.76214035	97.0668183	95.40885323	93.78721202
230606A00015	6/6/2023	4.24	6/6/2028	111.97824	109.0125125	106.1419057	103.3628614	100.6719738	98.0659822	95.54176447	93.09633004	90.72681373
230606A00029	6/6/2023	4.45	6/5/2026	103.46483	102.6021124	101.7538148	100.9195809	100.0990625	99.29192304	98.4978367	97.71648827	96.94757259
230607A00007	6/7/2023	4.24	6/7/2028	111.98997	109.0212376	106.1478023	103.3660995	100.6727141	98.0643766	95.53795657	93.09045564	90.71900127
230607A00020	6/7/2023	4.28	6/7/2028	111.97229	109.0299971	106.1836122	103.4294606	100.7640345	98.18397927	95.68608675	93.26728746	90.92464398
230607A00038	6/7/2023	4.58	6/5/2026	103.57621	102.7129645	101.8641536	101.0294123	100.2083925	99.40075728	98.60618086	97.82434789	97.0549531
230608A00003	6/8/2023	4.23	6/8/2028	111.97282	109.0014899	106.1256348	103.3416725	100.6461788	98.03587574	95.50762494	93.05842047	90.68538267
230608A00049	6/8/2023	4.47	6/8/2026	103.51728	102.6460455	101.7895153	100.9473215	100.1191058	99.3045219	98.50323456	97.71491963	96.93926341
230609A00026	6/9/2023	4.11	6/9/2027	107.54701	105.6428066	103.7819879	101.9633137	100.1855835	98.44763884	96.74836122	95.08667078	93.46152448
230609A00027	6/9/2023	3.99	6/9/2028	111.50214	108.5300223	105.6536354	102.8693879	100.1738393	97.56369652	95.0358067	92.58715044	90.21483542
230609A00034	6/9/2023	3.99	6/9/2028	111.50214	108.5300223	105.6536354	102.8693879	100.1738393	97.56369652	95.0358067	92.58715044	90.21483542
230609A00039	6/9/2023	4.73	12/10/2025	101.57536	101.207694	100.8427007	100.4803523	100.12062	99.76347529	99.40889027	99.05683737	98.70728939
230609A00040	6/9/2023	4.38	5/12/2027	107.57303	105.7481332	103.9633449	102.2174675	100.5093535	98.83789976	97.20204526	95.60076895	94.03308793
230609A00041	6/9/2023	4.53	7/13/2026	103.98842	103.0182372	102.0662217	101.1318662	100.2146817	99.31419704	98.42995831	97.56152789	96.70848377
230609A00042	6/9/2023	4.46	11/25/2026	105.56361	104.2205573	102.9026767	101.6092902	100.3397445	99.09340961	97.86967782	96.6679626	95.48769772
230609A00043	6/9/2023	4.32	9/29/2027	109.17368	106.9446991	104.7728536	102.6562656	100.5931392	98.58175157	96.62044963	94.70764624	92.84181716
230609A00076	7/10/2023	4.19	7/10/2028	112.22356	109.158598	106.1948987	103.3285587	100.555847	97.8731967	95.27719717	92.76458612	90.33224228
230612A00023	6/12/2023	4.32	6/12/2026	103.49449	102.6114812	101.7435816	100.8904054	100.0515796	99.22674381	98.41554946	97.6176596	96.83274828
230613A00015	6/13/2023	4.73	6/13/2033	117.93239	113.6105641	109.5230314	105.6545673	101.991067	98.51945141	95.22758539	92.10420271	89.13883769
230613A00019	6/13/2023	4.49	6/15/2026	103.61737	102.726341	101.8506876	100.9900114	100.1439298	99.31207321	98.49408444	97.68961813	96.89834034
230613A00021	6/13/2023	4.35	6/14/2027	107.92511	106.005644	104.1301525	102.2973647	100.5060574	98.75505021	97.04320403	95.36941912	93.73263354
230613A00034	6/13/2023	4.56	6/12/2026	103.64322	102.7603463	101.8925682	101.0394957	100.2007566	99.37599107	98.56485143	97.7670014	96.98211567
230613A00061	6/13/2023	4.56	6/15/2026	103.67927	102.7879508	101.9120039	101.0510378	100.2046698	99.37253013	98.5542616	97.74951879	96.95796769
230613A00091	6/13/2023	4.58	6/15/2026	103.69696	102.8055536	101.9295229	101.0684739	100.222024	99.38980353	98.57145508	97.76663326	96.97500407
230614A00001	6/14/2023	4.55	6/12/2026	103.63445	102.7516272	101.8838903	101.0308585	100.1921595	99.36743374	98.55633338	97.75852216	96.97367481
230614A00029	6/14/2023	4.55	6/15/2026	103.67043	102.7791494	101.9032445	101.0423197	100.1959926	99.36389342	98.54566487	97.74096155	96.94944949
230614A00038	6/14/2023	4.3	6/15/2026	103.51147	102.6200893	101.7441072	100.883123	100.0367533	99.20462748	98.38638765	97.58168769	96.79019294
230614A00048	6/14/2023	4.55	6/15/2026	103.67043	102.7791494	101.9032445	101.0423197	100.1959926	99.36389342	98.54566487	97.74096155	96.94944949
230615A00023	6/15/2023	4.58	6/15/2026	103.69696	102.8055536	101.9295229	101.0684739	100.222024	99.38980353	98.57145508	97.76663326	96.97500407
230615A00026	6/15/2023	4.84	6/15/2038	147.17777	132.7776683	120.0400119	108.7594855	98.75731868	89.87771968	81.98480763	74.95996878	68.69957552
230615A00033	6/15/2023	4.58	6/15/2026	103.69696	102.8055536	101.9295229	101.0684739	100.222024	99.38980353	98.57145508	97.76663326	96.97500407

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230615A00039	6/15/2023	4.16	6/15/2027	107.71383	105.7911179	103.91256	102.0768808	100.2828494	98.5292781	96.8150208	95.13897107	93.50006066
230615A00044	6/15/2023	4.33	6/15/2026	103.53801	102.6465022	101.7703942	100.9092856	100.062793	99.23054574	98.41218589	97.60736731	96.8157553
230616A00012	6/16/2023	4.41	6/16/2026	103.62059	102.725921	101.8467522	100.9826789	100.1333142	99.29828406	98.47722719	97.66979433	96.87564781
230616A00037	6/16/2023	4.48	6/16/2027	108.19668	106.2689468	104.3854806	102.5450022	100.746277	98.98811399	97.26936372	95.58891661	93.94570135
230616A00038	6/16/2023	4.32	6/16/2028	112.32848	109.3292392	106.4270092	103.6181296	100.899098	98.26656302	95.71731652	93.24828697	90.85653279
230616A00040	6/16/2023	4.66	6/16/2026	103.78001	102.885439	102.0063467	101.1423322	100.2930093	99.45800491	98.63695837	97.82952115	97.03535623
230616A00106	6/16/2023	4.61	6/16/2026	103.73565	102.8412949	101.9624134	101.0986073	100.2494902	99.41468918	98.59384363	97.78660506	96.9926365
230620A00035	6/20/2023	4.36	6/20/2030	120.85411	115.6084792	110.6279975	105.897832	101.4040585	97.13359801	93.07416167	89.21419855	85.54284787
230620A00065	6/20/2023	4.56	6/18/2026	103.71533	102.8155488	101.9314294	101.0625672	100.2085692	99.36905556	98.54365932	97.73202591	96.93381254
230620A00091	6/20/2023	4.56	6/22/2026	103.76341	102.8523359	101.957314	101.0779202	100.2137472	99.36440163	98.5295036	97.70868613	96.90159459
230621A00016	6/21/2023	4.55	6/22/2026	103.75437	102.8433426	101.9483644	101.0690138	100.2048834	99.35557997	98.52072357	97.69994724	96.89289634
230621A00022	6/21/2023	4.24	6/21/2028	112.15424	109.1433305	106.2302567	103.4113121	100.6829496	98.04177532	95.48454148	93.00813906	90.60959118
230621A00041	6/21/2023	4.24	6/21/2028	112.15424	109.1433305	106.2302567	103.4113121	100.6829496	98.04177532	95.48454148	93.00813906	90.60959118
230621A00047	6/21/2023	4.44	6/21/2028	106.54597	105.0023067	103.496556	102.0274725	100.5938626	99.19458152	97.82853012	96.49465329	95.19193761
230621A00048	6/21/2023	4.55	6/22/2026	103.75437	102.8433426	101.9483644	101.0690138	100.2048834	99.35557997	98.52072357	97.69994724	96.89289634
230622A00004	6/22/2023	4.23	6/22/2027	107.93291	105.9883165	104.0887897	102.2330105	100.4197117	98.64767105	96.91570939	95.22268892	93.56751136
230622A00005	6/22/2023	4.05	6/22/2028	111.82436	108.8105551	105.8949131	103.0737025	100.3433574	97.70046666	95.14176625	92.66413179	90.26457196
230622A00019	6/22/2023	4.33	6/22/2028	111.9506	109.0437237	106.2321112	103.5120799	100.8801118	98.33284528	95.86706697	93.47970418	91.16781798
230622A00027	6/22/2023	4.49	6/22/2026	103.70015	102.7893828	101.8946668	101.0155752	100.1517007	99.30265006	98.46804342	97.64751388	96.84070687
230622A00028	6/22/2023	4.35	6/22/2027	108.02478	106.0818156	104.1838312	102.3295136	100.517599	98.74686839	97.0161459	95.32429663	93.67022516
230622A00030	6/22/2023	4.17	6/22/2028	111.96102	108.950104	106.0371346	103.2183952	100.4903312	97.84954223	95.29277403	92.81691171	90.4189728
230622A00039	6/26/2023	4.49	6/26/2026	103.74744	102.8253909	101.9197732	101.030153	100.1561087	99.29723328	98.45313379	97.62343079	96.80775774
230622A00047	6/22/2023	4.49	6/22/2026	103.70015	102.7893828	101.8946668	101.0155752	100.1517007	99.30265006	98.46804342	97.64751388	96.84070687
230622A00049	6/22/2023	4.71	12/17/2025	101.65325	101.266038	100.881793	100.5004785	100.1220609	99.74650716	99.37378466	99.00386135	98.63670561
230622A00056	6/26/2023	4.49	6/26/2026	103.74744	102.8253909	101.9197732	101.030153	100.1561087	99.29723328	98.45313379	97.62343079	96.80775774
230622A00083	6/22/2023	4.55	6/22/2026	103.75437	102.8433426	101.9483644	101.0690138	100.2048834	99.35557997	98.52072357	97.69994724	96.89289634
230622A00093	6/22/2023	4.55	6/22/2026	103.75437	102.8433426	101.9483644	101.0690138	100.2048834	99.35557997	98.52072357	97.69994724	96.89289634
230622A00095	6/22/2023	4.38	6/22/2027	108.0822	106.1386716	104.2401346	102.3852748	100.5728282	98.80157555	97.07034054	95.37798809	93.72342253
230622A00096	6/22/2023	4.21	6/22/2028	112.07814	109.0655002	106.1508516	103.3304739	100.6008114	97.9584622	95.40017097	92.92282157	90.52343043
230623A00002	6/23/2023	4.45	6/23/2026	103.67571	102.7623031	101.8650381	100.9834884	100.1172433	99.26590587	98.42909328	97.60643548	96.79757496
230623A00003	6/23/2023	4.29	6/23/2027	107.92223	105.9774599	104.0777702	102.2218475	100.4084234	98.6362746	96.90422108	95.21112407	93.55588441
230623A00004	6/23/2023	4.13	6/23/2028	111.85533	108.8431281	105.9290119	103.109257	100.3803006	97.73873456	95.18129738	92.70486735	90.30645561
230623A00025	6/23/2023	4.45	6/23/2026	103.67571	102.7623031	101.8650381	100.9834884	100.1172433	99.26590587	98.42909328	97.60643548	96.79757496

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230623A00026	6/23/2023	4.29	6/23/2027	107.92223	105.9774599	104.0777702	102.2218475	100.4084234	98.6362746	96.90422108	95.21112407	93.55588441
230623A00027	6/23/2023	4.13	6/23/2028	111.85533	108.8431281	105.9290119	103.109257	100.3803006	97.73873456	95.18129738	92.70486735	90.30645561
230623A00036	6/23/2023	4.45	6/23/2026	103.67571	102.7623031	101.8650381	100.9834884	100.1172433	99.26590587	98.42909328	97.60643548	96.79757496
230623A00037	6/23/2023	4.13	6/23/2028	111.85533	108.8431281	105.9290119	103.109257	100.3803006	97.73873456	95.18129738	92.70486735	90.30645561
230623A00051	6/23/2023	4.18	6/23/2028	112.00187	108.9875078	106.0712887	103.2494823	100.5185241	97.87500425	95.31565988	92.83736773	90.43713751
230623A00053	6/23/2023	4.4	6/23/2026	103.69415	102.7797703	101.8815581	100.9990903	100.1319549	99.27975436	98.4421046	97.61863468	96.80898622
230623A00056	6/23/2023	4.18	6/23/2028	112.00187	108.9875078	106.0712887	103.2494823	100.5185241	97.87500425	95.31565988	92.83736773	90.43713751
230623A00057	6/23/2023	4.52	6/23/2026	103.73917	102.825448	101.9278753	101.0460217	100.1794762	99.32784219	98.49073651	97.66778912	96.85864243
230623A00058	6/23/2023	4.38	6/23/2027	108.09474	106.1482722	104.2469201	102.3893664	100.5743419	98.80062235	97.06702701	95.37241629	93.71569028
230626A00020	6/26/2023	4.49	6/26/2026	103.74744	102.8253909	101.9197732	101.030153	100.1561087	99.29723328	98.45313379	97.62343079	96.80775774
230626A00021	6/26/2023	4.49	6/26/2026	103.74744	102.8253909	101.9197732	101.030153	100.1561087	99.29723328	98.45313379	97.62343079	96.80775774
230626A00022	6/26/2023	4.34	6/25/2027	108.04293	106.0913382	104.1850976	102.3228841	100.5034186	98.72546745	96.98784093	95.28939091	93.62900933
230626A00023	6/26/2023	4.18	6/26/2028	112.03657	109.0131687	106.0884579	103.2586778	100.5202353	97.86969359	95.30376406	92.81929944	90.41328676
230627A00004	6/27/2023	4.47	6/29/2026	103.76445	102.8340193	101.9203122	101.0228829	100.1412989	99.2751429	98.42401194	97.58751714	96.7652829
230627A00005	6/27/2023	4.3	6/28/2027	108.003	106.0433486	104.1294132	102.2598558	100.4333822	98.6487446	96.90473931	95.20020525	93.53402191
230627A00006	6/27/2023	4.12	6/27/2028	111.87163	108.8478201	105.92282	103.0928616	100.354344	97.7038232	95.13800399	92.65373284	90.24799091
230627A00030	6/27/2023	4.17	6/27/2028	112.01872	108.9927378	106.0656192	103.2335942	100.4930601	97.84057146	95.27283142	92.78668495	90.37911178
230627A00035	6/27/2023	4.21	6/27/2028	112.13639	109.1086719	106.1798586	103.3461802	100.604033	97.94997007	95.38069335	92.89304664	90.48400848
230627A00036	6/27/2023	4.38	6/28/2027	108.15745	106.1962681	104.2808339	102.4098061	100.5818899	98.79583641	97.05044147	95.34454319	93.6770204
230627A00037	6/27/2023	4.56	6/26/2026	103.81148	102.8891114	101.9831803	101.0932508	100.2189008	99.35972352	98.5153258	97.68532816	96.86936398
230627A00089	6/27/2023	4.56	6/30/2026	103.85955	102.9258883	102.0090517	101.108592	100.2240728	99.35507306	98.50118663	97.66202127	96.83719828
230627A00090	6/27/2023	4.21	6/27/2028	112.13639	109.1086719	106.1798586	103.3461802	100.604033	97.94997007	95.38069335	92.89304664	90.48400848
230628A00016	6/28/2023	4.58	6/26/2026	103.82978	102.9073172	102.0012967	101.1112787	100.2368414	99.37757788	98.53309495	97.70301313	96.88696577
230628A00017	6/28/2023	4.41	6/28/2027	108.21537	106.2536129	104.3376166	102.4660375	100.6375802	98.85099584	97.10507978	95.39866992	93.73064483
230628A00018	6/28/2023	4.23	6/28/2028	112.20693	109.1753255	106.2428291	103.4056618	100.6602094	98.00301533	95.43077236	92.94031558	90.52861538
230628A00028	6/28/2023	4.58	6/24/2026	103.80563	102.8888213	101.9882572	101.1035087	100.2341612	99.37981445	98.54008209	97.71459083	96.90298004
230628A00038	6/28/2023	4.58	6/24/2026	103.80563	102.8888213	101.9882572	101.1035087	100.2341612	99.37981445	98.54008209	97.71459083	96.90298004
230628A00045	6/28/2023	4.18	6/28/2028	112.0597	109.0302733	106.0998993	103.2648024	100.5213702	97.86614752	95.2958288	92.80725064	90.39738488
230628A00061	6/28/2023	4.47	6/26/2026	103.72915	102.8071851	101.9016569	101.0121251	100.1381681	99.27937893	98.43536464	97.60574582	96.79015596
230628A00063	6/28/2023	4.47	6/29/2026	103.76445	102.8340193	101.9203122	101.0228829	100.1412989	99.2751429	98.42401194	97.58751714	96.7652829
230628A00068	6/28/2023	4.29	6/28/2027	107.9837	106.0242336	104.1104856	102.241112	100.4148188	98.63035812	96.88652654	95.182163	93.5161471
230629A00008	6/29/2023	4.34	6/29/2028	112.54284	109.5034221	106.5634116	103.7190185	100.9666152	98.3027323	95.72405066	93.22739395	90.80972179
230629A00019	6/29/2023	4.51	6/24/2027	108.35682	106.4049544	104.4983787	102.6357682	100.8158473	99.03738579	97.29919698	95.60013572	93.93909677

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230629A00025	6/29/2023	4.7	6/24/2026	103.91475	102.9973987	102.0963038	101.2110311	100.3411658	99.48630761	98.6460699	97.82007932	97.00797513
230629A00037	6/29/2023	4.69	6/29/2026	103.96754	103.036092	102.1213824	101.2229633	100.3404018	99.47328027	98.62119562	97.78375869	96.96059367
230629A00042	6/29/2023	4.69	6/29/2026	103.96754	103.036092	102.1213824	101.2229633	100.3404018	99.47328027	98.62119562	97.78375869	96.96059367
230629A00045	6/29/2023	4.69	6/29/2026	103.96754	103.036092	102.1213824	101.2229633	100.3404018	99.47328027	98.62119562	97.78375869	96.96059367
230629A00046	6/29/2023	4.51	6/29/2027	108.42133	106.4547129	104.5340185	102.657899	100.8250531	99.03422579	97.28420688	95.57382889	93.90196523
230629A00071	6/29/2023	4.41	6/29/2028	112.73361	109.690357	106.7484404	103.903902	101.1529614	98.49200754	95.91758973	93.42640991	91.01531477
230629A00072	6/29/2023	4.69	6/29/2026	103.96754	103.036092	102.1213824	101.2229633	100.3404018	99.47328027	98.62119562	97.78375869	96.96059367
230629A00076	6/29/2023	4.51	6/29/2027	108.42133	106.4547129	104.5340185	102.657899	100.8250531	99.03422579	97.28420688	95.57382889	93.90196523
230629A00094	6/29/2023	4.41	6/29/2028	112.73361	109.690357	106.7484404	103.903902	101.1529614	98.49200754	95.91758973	93.42640991	91.01531477
230629A00097	6/29/2023	4.41	6/29/2028	112.73361	109.690357	106.7484404	103.903902	101.1529614	98.49200754	95.91758973	93.42640991	91.01531477
230630A00003	6/30/2023	4.54	6/30/2027	108.49232	106.5221797	104.5981051	102.7187381	100.8827719	99.08894631	97.33604613	95.62289911	93.94837415
230630A00028	6/30/2023	4.42	6/30/2027	108.39973	106.4279381	104.5022925	102.6214377	100.7840631	98.98890525	97.23474563	95.5204089	93.84476101
230630A00030	6/30/2023	4.23	6/30/2028	112.44733	109.4015205	106.4555318	103.6055496	100.8479249	98.17916805	95.59594074	93.09504866	90.67343439
230630A00043	6/30/2023	4.6	6/30/2026	103.96184	103.0267449	102.10852	101.2067075	100.3208698	99.45058467	98.59544479	97.75505685	96.92904109
230630A00046	6/30/2023	4.6	6/30/2026	103.96184	103.0267449	102.10852	101.2067075	100.3208698	99.45058467	98.59544479	97.75505685	96.92904109
230630A00055	6/30/2023	4.35	6/30/2028	112.58436	109.5414776	106.5982054	103.7507343	100.9954269	98.32880427	95.74753842	93.24844466	90.82847467
230630A00062	6/30/2023	4.6	6/30/2026	103.96184	103.0267449	102.10852	101.2067075	100.3208698	99.45058467	98.59544479	97.75505685	96.92904109
230630A00079	6/30/2023	4.65	6/30/2026	103.94288	103.0088012	102.0915523	101.1906854	100.3057641	99.43636735	98.58208869	97.74253587	96.91733008
230630A00086	6/30/2023	4.72	6/30/2026	104.0077	103.073289	102.1557194	101.2545359	100.3693019	99.49959623	98.64501251	97.80515833	96.97965481
230630A00088	6/30/2023	4.54	6/30/2027	108.49232	106.5221797	104.5981051	102.7187381	100.8827719	99.08894631	97.33604613	95.62289911	93.94837415
230630A00094	6/30/2023	4.42	6/30/2027	108.39973	106.4279381	104.5022925	102.6214377	100.7840631	98.98890525	97.23474563	95.5204089	93.84476101
230703A00013	7/3/2023	4.34	7/3/2028	112.58947	109.5382754	106.587225	103.7324826	100.9703814	98.29741493	95.71022935	93.20561561	90.7805025
230703A00015	7/3/2023	4.34	7/3/2028	112.58947	109.5382754	106.587225	103.7324826	100.9703814	98.29741493	95.71022935	93.20561561	90.7805025
230703A00018	7/3/2023	4.61	7/3/2026	104.0085	103.0648882	102.1384519	101.2287235	100.3352534	99.45760805	98.59536906	97.74813279	96.91550958
230703A00019	7/3/2023	4.61	7/3/2026	104.0085	103.0648882	102.1384519	101.2287235	100.3352534	99.45760805	98.59536906	97.74813279	96.91550958
230703A00025	7/3/2023	4.73	7/3/2026	104.05477	103.1118464	102.1860722	101.2769791	100.3841187	99.50705822	98.64538045	97.79868264	96.96657601
230703A00029	7/3/2023	4.89	2/3/2026	102.32757	101.805767	101.289292	100.778065	100.2720062	99.77103743	99.27508215	98.78406525	98.29791318
230703A00043	7/3/2023	4.53	7/6/2027	108.54812	106.5610914	104.6208971	102.7261468	100.8755009	99.06766838	97.30140444	95.57550882	93.8888237
230705A00006	7/5/2023	4.26	7/5/2028	112.59357	109.5318166	106.5708398	103.7067666	100.9358973	98.25469459	95.65977529	93.14790287	90.71598018
230705A00008	7/5/2023	4.63	7/6/2026	104.06476	103.1125702	102.1778697	101.2601746	100.3590233	99.47397043	98.60458683	97.75045829	96.91118516
230705A00019	7/5/2023	4.44	7/6/2027	108.51338	106.5240889	104.5817322	102.6849152	100.8322944	99.02257469	97.25450785	95.52689011	93.83856038
230705A00034	7/5/2023	4.75	7/6/2026	104.11143	103.1599388	102.2259071	101.3088537	100.4083178	99.5238553	98.65503797	97.80145256	96.96270035
230705A00035	7/5/2023	5.03	8/8/2025	100.10523	100.0829714	100.0607329	100.0385181	100.0163269	99.99415928	99.97201521	99.94989464	99.92779753

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230705A00040	7/5/2023	4.38	7/5/2028	112.7311	109.6723088	106.7140676	103.8525223	101.0839849	98.404929	95.81198193	93.30191692	90.87164607
230705A00042	7/5/2023	4.42	7/5/2028	112.84966	109.789104	106.8291433	103.9659207	101.195747	98.51509449	95.92058912	93.40900294	90.97724686
230705A00103	7/5/2023	4.56	7/6/2027	108.6067	106.6190882	104.6783194	102.7830056	100.9318069	99.1234319	97.35663556	95.63021733	93.94301915
230705A00111	7/5/2023	4.9	1/6/2026	101.98038	101.5370141	101.0975128	100.661826	100.2299043	99.80169873	99.37716145	98.95624534	98.5389041
230706A00006	7/6/2023	4.59	7/6/2028	113.36577	110.2947745	107.32475	104.4518174	101.6722714	98.98256928	96.37932286	93.85929066	91.41937079
230706A00014	7/6/2023	4.99	7/6/2038	149.19159	134.613303	121.7209344	110.3057056	100.1859151	91.20328913	83.21984395	76.11518243	69.78416337
230707A00021	9/1/2023	4.61	8/30/2030	122.85075	117.3552652	112.1464965	107.2078777	102.5238866	98.0799769	93.86251087	89.85869809	86.05653812
230707A00022	9/1/2023	4.61	8/30/2030	122.85075	117.3552652	112.1464965	107.2078777	102.5238866	98.0799769	93.86251087	89.85869809	86.05653812
230707A00023	9/1/2023	4.61	8/30/2030	122.85075	117.3552652	112.1464965	107.2078777	102.5238866	98.0799769	93.86251087	89.85869809	86.05653812
230707A00031	7/7/2023	4.84	7/7/2026	104.20916	103.2544117	102.3172293	101.3971296	100.4936477	99.60633544	98.73476083	97.87850703	97.03717186
230710A00013	7/10/2023	4.55	7/10/2029	117.7964	113.6021241	109.5844044	105.7348503	102.0455172	98.50887854	95.11780118	91.86552269	88.74563018
230711A00013	7/11/2023	4.78	7/13/2026	104.22889	103.2574594	102.3042145	101.3686455	100.450263	99.54859575	98.66318938	97.79360596	96.93942319
230711A00038	7/11/2023	4.89	10/10/2025	100.8701	100.6725668	100.4758222	100.2798595	100.0846737	99.89026034	99.69661467	99.50373209	99.31160804
230712A00002	7/12/2023	4.31	7/12/2028	112.60381	109.5276657	106.5532894	103.6767487	100.894288	98.20231781	95.59740575	93.07626918	90.6357676
230712A00014	7/12/2023	4.62	7/13/2026	104.07499	103.1043572	102.1518991	101.2171068	100.299491	99.39858058	98.5139215	97.645076	96.79162196
230712A00015	7/12/2023	4.62	7/13/2026	104.07499	103.1043572	102.1518991	101.2171068	100.299491	99.39858058	98.5139215	97.645076	96.79162196
230712A00016	7/12/2023	4.45	7/12/2027	108.46573	106.4631894	104.5082288	102.5994277	100.7354142	98.9148664	97.13651052	95.39911848	93.70150611
230712A00017	7/12/2023	4.45	7/12/2027	108.46573	106.4631894	104.5082288	102.5994277	100.7354142	98.9148664	97.13651052	95.39911848	93.70150611
230712A00018	7/12/2023	4.31	7/12/2028	112.60381	109.5276657	106.5532894	103.6767487	100.894288	98.20231781	95.59740575	93.07626918	90.6357676
230712A00019	7/12/2023	4.31	7/12/2028	112.60381	109.5276657	106.5532894	103.6767487	100.894288	98.20231781	95.59740575	93.07626918	90.6357676
230712A00020	7/12/2023	4.31	7/12/2028	112.60381	109.5276657	106.5532894	103.6767487	100.894288	98.20231781	95.59740575	93.07626918	90.6357676
230712A00021	7/12/2023	4.31	7/12/2028	112.60381	109.5276657	106.5532894	103.6767487	100.894288	98.20231781	95.59740575	93.07626918	90.6357676
230712A00035	1/12/2024	4.36	1/12/2026	101.80882	101.3493329	100.8940053	100.4427827	99.9956095	99.55243129	99.11319449	98.67784649	98.24633566
230712A00039	7/12/2023	4.62	7/13/2026	104.07499	103.1043572	102.1518991	101.2171068	100.299491	99.39858058	98.5139215	97.645076	96.79162196
230712A00040	7/12/2023	4.45	7/12/2027	108.46573	106.4631894	104.5082288	102.5994277	100.7354142	98.9148664	97.13651052	95.39911848	93.70150611
230712A00041	7/12/2023	4.31	7/12/2028	112.60381	109.5276657	106.5532894	103.6767487	100.894288	98.20231781	95.59740575	93.07626918	90.6357676
230712A00046	7/12/2023	4.52	7/13/2026	103.9788	103.0086683	102.056702	101.1223951	100.2052585	99.3048211	98.42062907	97.55224477	96.69924619
230712A00051	7/12/2023	4.62	7/13/2026	104.07499	103.1043572	102.1518991	101.2171068	100.299491	99.39858058	98.5139215	97.645076	96.79162196
230712A00056	7/12/2023	4.22	7/12/2028	112.33531	109.2631817	106.2927235	103.4200039	100.6412707	97.95293715	95.35157407	92.83390153	90.39678175
230713A00014	7/13/2023	4.2	7/13/2028	112.28679	109.2126446	106.2403294	103.3659049	100.5856097	97.89584822	95.29318309	92.77432668	90.33613394
230713A00019	7/13/2023	4.51	7/13/2026	103.96918	102.9990994	102.0471823	101.1129239	100.1958352	99.29544515	98.41129983	97.54296164	96.69000862
230713A00021	7/13/2023	4.44	7/13/2026	103.90185	102.9321172	101.9805444	101.0466257	100.1298724	99.22981351	98.34599513	97.47797978	96.62534558
230713A00023	7/13/2023	4.2	7/13/2028	112.28679	109.2126446	106.2403294	103.3659049	100.5856097	97.89584822	95.29318309	92.77432668	90.33613394

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230713A00026	7/13/2023	4.49	7/13/2026	103.94995	102.9799617	102.0281429	101.0939816	100.1769887	99.27669325	98.39264134	97.5243954	96.67153346
230713A00031	7/13/2023	4.49	7/13/2026	103.94995	102.9799617	102.0281429	101.0939816	100.1769887	99.27669325	98.39264134	97.5243954	96.67153346
230713A00058	7/13/2023	4.08	7/13/2028	112.14771	109.0706004	106.0955397	103.2185804	100.4359492	97.74403927	95.13940254	92.61874141	90.17890143
230714A00020	7/14/2023	4.52	7/14/2026	103.99082	103.0178658	102.0631802	101.1262539	100.2065936	99.30372446	98.4171887	97.54654519	96.69136852
230714A00022	7/14/2023	4.36	7/14/2027	108.3126	106.3061578	104.3475225	102.4352621	100.5679948	98.74438903	96.96316172	95.22307613	93.52293979
230714A00023	7/14/2023	4.18	7/14/2028	112.23816	109.1619993	106.1878299	103.3117034	100.529849	97.8386625	95.23469823	92.71466085	90.27539807
230714A00026	7/14/2023	4.18	7/14/2028	112.23816	109.1619993	106.1878299	103.3117034	100.529849	97.8386625	95.23469823	92.71466085	90.27539807
230714A00030	7/14/2023	4.52	7/17/2026	104.02688	103.0454539	102.0826081	101.137822	100.2105902	99.30042564	98.40685946	97.52943972	96.66773078
230714A00034	7/14/2023	4.37	7/16/2027	108.35652	106.3441847	104.3799245	102.4622929	100.5898966	98.76139341	96.97549006	95.2309401	93.52654185
230714A00036	7/14/2023	4.37	7/12/2030	121.12759	115.8130654	110.7701769	105.9835573	101.4387898	97.12234323	93.02151305	89.12436655	85.41969215
230714A00042	7/14/2023	4.58	7/14/2026	104.0487	103.0754435	102.1204612	101.1832421	100.2632928	99.36013827	98.47332078	97.60239908	96.7469477
230717A00022	7/17/2023	4.59	7/17/2026	104.09499	103.1132032	102.1500055	101.2048723	100.2772977	99.36679487	98.47289473	97.59514525	96.73311073
230717A00088	7/17/2023	4.43	7/19/2027	108.5121	106.4900081	104.5164109	102.5898413	100.7088881	98.87219267	97.07844591	95.32638631	93.61479787
230718A00013	7/18/2023	4.54	7/17/2026	104.04634	103.0648109	102.1018645	101.1569792	100.2296495	99.31938828	98.42572668	97.54821273	96.68641077
230718A00014	7/18/2023	4.37	7/19/2027	108.39277	106.3718965	104.3994896	102.4740871	100.5942789	98.75870674	96.9660622	95.21508433	93.50455768
230718A00015	7/18/2023	4.19	7/18/2028	112.31253	109.2242725	106.2387537	103.3519856	100.5601564	97.85962376	95.24690607	92.71867418	90.27174395
230718A00016	7/18/2023	4.54	7/17/2026	104.04634	103.0648109	102.1018645	101.1569792	100.2296495	99.31938828	98.42572668	97.54821273	96.68641077
230718A00023	7/18/2023	4.54	7/20/2026	104.08257	103.0925571	102.1214451	101.1686961	100.2337921	99.31623403	98.41554162	97.53125206	96.66291937
230718A00038	7/18/2023	4.46	11/13/2026	105.40782	104.0942964	102.8089009	101.5507273	100.318911	99.11262412	97.93107382	96.77350009	95.63917421
230718A00065	7/18/2023	4.3	7/18/2033	116.65291	112.3115104	108.2083536	104.3277963	100.6553517	97.17759718	93.88208795	90.75727921	87.79245445
230718A00070	7/18/2023	4.06	7/18/2028	112.14278	109.0519906	106.0641523	103.1752665	100.3815099	97.67922906	95.06493176	92.53527909	90.08707771
230718A00093	7/18/2023	4.06	7/18/2028	112.14278	109.0519906	106.0641523	103.1752665	100.3815099	97.67922906	95.06493176	92.53527909	90.08707771
230719A00006	7/19/2023	4.54	7/20/2026	104.08257	103.0925571	102.1214451	101.1686961	100.2337921	99.31623403	98.41554162	97.53125206	96.66291937
230719A00015	7/19/2023	4.37	7/19/2027	108.39277	106.3718965	104.3994896	102.4740871	100.5942789	98.75870674	96.9660622	95.21508433	93.50455768
230719A00034	7/19/2023	4.19	7/19/2028	112.32365	109.232479	106.2442313	103.3549088	100.5606896	97.85792205	95.24311536	92.71293205	90.26418009
230719A00081	12/16/2024	3.6	12/18/2026	104.65143	103.2545319	101.8831064	100.5365123	99.21413304	97.91537225	96.63965259	95.38641511	94.15511854
230719A00091	11/13/2023	4.56	11/14/2025	101.20865	100.913689	100.6204588	100.3289457	100.0391343	99.75100982	99.46455736	99.17976232	98.89661025
230719A00096	12/18/2023	4.46	12/19/2025	101.57981	101.1872402	100.7977148	100.4112015	100.0276655	99.64707227	99.26938792	98.89457906	98.52261279
230719A00101	10/16/2023	4.65	10/17/2025	100.90465	100.687687	100.4716751	100.2566047	100.0424695	99.82926332	99.61698015	99.40561387	99.19515849
230720A00037	7/20/2023	4.55	7/20/2026	104.16153	103.1701104	102.1976354	101.2435618	100.3073698	99.38855931	98.48664855	97.60117353	96.73168709
230720A00038	7/20/2023	4.55	7/20/2026	104.16153	103.1701104	102.1976354	101.2435618	100.3073698	99.38855931	98.48664855	97.60117353	96.73168709
230720A00039	7/20/2023	4.68	7/20/2026	104.21994	103.2292061	102.2573787	101.303924	100.3683234	99.4500778	98.54870675	97.66374721	96.79475304
230721A00003	7/21/2023	4.67	7/21/2026	104.22257	103.2290488	102.2545462	101.2985166	100.3604372	99.43980506	98.53613578	97.64896274	96.77783635

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	Parallel-Shift Sensitivity Analysis												
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230721A00006	7/21/2023	4.32	7/21/2028	112.73697	109.6340685	106.6346102	103.7345698	100.9301005	98.21752682	95.59333591	93.05416922	90.59681486
230721A00029	7/21/2023	4.67	7/21/2026	104.22257	103.2290488	102.2545462	101.2985166	100.3604372	99.43980506	98.53613578	97.64896274	96.77783635
230721A00038	7/21/2023	4.67	7/21/2026	104.22257	103.2290488	102.2545462	101.2985166	100.3604372	99.43980506	98.53613578	97.64896274	96.77783635
230724A00037	7/24/2023	4.29	7/24/2028	112.68092	109.5705998	106.564254	103.6578194	100.8474197	98.12935173	95.50007661	92.95621138	90.49452119
230724A00064	7/24/2023	4.53	7/19/2027	108.71097	106.6868606	104.7112799	102.7827648	100.8999034	99.06133587	97.26575209	95.51188962	93.79853152
230724A00065	7/24/2023	4.37	7/18/2028	112.85253	109.7561446	106.7627048	103.8682122	101.0688489	98.36096621	95.74107649	93.20584491	90.75208184
230724A00066	7/24/2023	4.71	8/18/2026	104.61401	103.540954	102.4900068	101.4604905	100.4517534	99.4631695	98.4941381	97.54408205	96.61244678
230725A00016	7/25/2023	4.75	7/31/2026	104.42785	103.4055622	102.4033589	101.4206525	100.4568773	99.51148947	98.58396568	97.67380242	96.78051491
230725A00018	7/25/2023	4.4	7/25/2028	113.02444	109.906174	106.8921874	103.9784099	101.1609512	98.43609454	95.80028828	93.25013739	90.78239565
230725A00023	7/25/2023	4.57	4/9/2027	107.48452	105.7522803	104.0566102	102.3964195	100.7706578	99.17831663	97.61842695	96.09005738	94.59231227
230725A00028	7/25/2023	4.46	7/25/2030	121.71022	116.3450668	111.2557775	106.42665	101.8429545	97.49087243	93.35743512	89.43046703	85.69853324
230725A00071	7/25/2023	4.4	7/25/2028	113.02444	109.906174	106.8921874	103.9784099	101.1609512	98.43609454	95.80028828	93.25013739	90.78239565
230726A00011	7/26/2023	4.24	7/26/2028	112.77512	109.6527187	106.6349681	103.7177754	100.8972289	98.16959197	95.53129418	92.97892294	90.50921548
230726A00012	7/26/2023	4.24	7/26/2028	112.77512	109.6527187	106.6349681	103.7177754	100.8972289	98.16959197	95.53129418	92.97892294	90.50921548
230726A00023	7/26/2023	4.24	7/26/2028	112.77512	109.6527187	106.6349681	103.7177754	100.8972289	98.16959197	95.53129418	92.97892294	90.50921548
230727A00016	7/27/2023	4.51	7/27/2033	131.6086	122.8279414	114.724932	107.2431318	100.3310963	93.94190866	88.03275922	82.56456584	77.50163137
230727A00020	7/27/2023	4.39	7/27/2028	113.0176	109.8939161	106.8748801	103.9563946	101.1345491	98.40560792	95.76600164	93.21231853	90.74129666
230727A00033	7/27/2023	4.82	7/27/2026	104.80554	103.7155149	102.6483775	101.603412	100.5799305	99.57727324	98.59480724	97.63192505	96.68804337
230727A00037	7/27/2023	4.82	7/27/2026	104.80554	103.7155149	102.6483775	101.603412	100.5799305	99.57727324	98.59480724	97.63192505	96.68804337
230727A00063	7/27/2023	4.38	7/27/2028	113.21054	110.0787599	107.0519866	104.1261049	101.2971874	98.56148297	95.91540725	93.35553452	90.87858958
230727A00070	7/27/2023	4.75	7/27/2026	104.37722	103.3662723	102.3749779	101.4027716	100.4491051	99.51345081	98.59530114	97.69416736	96.80957883
230727A00073	7/27/2023	4.81	7/27/2026	104.43726	103.4259861	102.4343733	101.4618528	100.5078764	99.57191624	98.65346474	97.75203307	96.86715049
230727A00075	7/27/2023	4.5	7/27/2028	113.35034	110.2216099	107.1976543	104.2743723	101.447849	98.71434506	96.07028723	93.5122602	91.0369986
230728A00004	7/28/2023	4.77	7/28/2026	104.40995	103.3960489	102.4019161	101.426975	100.4706729	99.53247823	98.61187934	97.70838384	96.8215175
230728A00005	7/28/2023	4.59	7/28/2027	108.94454	106.8934501	104.8921097	102.9389962	101.0326456	99.17164871	97.3546486	95.58033824	93.84745828
230728A00006	7/28/2023	4.46	7/28/2028	113.24121	110.111375	107.0864547	104.1623398	101.3351069	98.60100821	95.95646281	93.39804815	90.92249208
230731A00012	7/31/2023	4.5	7/31/2029	117.84177	113.5880948	109.5159152	105.6164917	101.8815498	98.30325625	94.87419348	91.58733486	88.43602214
230731A00037	7/31/2023	4.74	7/31/2026	104.41773	103.3955004	102.3933513	101.4106983	100.4469759	99.50164005	98.5741676	97.664055	96.7708175
230801A00001	8/1/2023	5.14	8/1/2025	100.01878	100.0159933	100.0132121	100.0104334	100.0076571	100.0048832	100.0021117	99.99934266	99.99657598
230801A00021	8/1/2023	4.49	8/1/2028	113.38005	110.2370609	107.1997448	104.2639533	101.4257221	98.68126508	96.02696537	93.45936651	90.97516448
230801A00022	8/1/2023	4.65	8/2/2027	109.13007	107.0633883	105.0470932	103.0796389	101.1595339	99.28534299	97.45568428	95.66922718	93.92468997
230801A00024	8/1/2023	4.82	8/3/2026	104.53736	103.5061885	102.4954466	101.5045262	100.5328477	99.57985346	98.64500756	97.72779426	96.82771724
230801A00028	8/1/2023	5.14	8/1/2025	100.01878	100.0159933	100.0132121	100.0104334	100.0076571	100.0048832	100.0021117	99.99934266	99.99657598

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230802A00017	8/2/2023	4.79	8/3/2026	104.50676	103.4757564	102.4651796	101.474422	100.5029041	99.55006828	98.61537869	97.69831962	96.79839481
230802A00022	9/8/2023	4.41	9/8/2028	113.59257	110.3399445	107.1993686	104.166321	101.2364918	98.40577139	95.67023944	93.02615507	90.46994738
230802A00023	10/16/2023	4.37	10/16/2028	113.92026	110.5551705	107.3090702	104.1770185	101.1543161	98.23648914	95.41927678	92.69861952	90.07064814
230804A00030	8/4/2023	4.88	8/4/2027	105.0258	103.9216213	102.8393957	101.7784887	100.7382943	99.71822929	98.71773205	97.73626159	96.77329662
230807A00010	8/7/2023	4.4	8/7/2028	113.17802	110.0214384	106.971423	104.0237659	101.1744533	98.41965268	95.75570377	93.17910942	90.68652749
230807A00018	8/7/2023	4.65	8/7/2026	104.41366	103.3721253	102.3514523	101.3510161	100.3702179	99.4084827	98.46525762	97.54001102	96.63223148
230807A00024	8/7/2023	5.03	8/7/2025	100.09282	100.073341	100.0538813	100.0344417	100.0150223	99.99562293	99.97624366	99.95688442	99.93754518
230807A00025	8/7/2023	4.69	8/7/2026	104.4549	103.4131396	102.392242	101.3915843	100.4105677	99.44861707	98.50517945	97.57972315	96.6717367
230807A00033	8/7/2023	4.57	8/7/2026	104.40386	103.3613251	102.3396896	101.3383263	100.356635	99.39403927	98.44998491	97.523939	96.61538891
230807A00087	11/7/2023	4.75	11/7/2025	101.17923	100.9036874	100.6296514	100.3571123	100.0860578	99.81647559	99.54835371	99.28168024	99.0164434
230807A00093	2/7/2024	4.49	2/6/2026	102.15346	101.6239083	101.0998562	100.5812183	100.067911	99.55985229	99.05696182	98.5591609	98.06637241
230808A00008	8/8/2023	4.67	4/24/2026	103.14501	102.3995485	101.664895	100.9408116	100.227071	99.52345243	98.82974125	98.14572899	97.47121296
230808A00010	8/8/2023	4.95	8/8/2025	100.10339	100.0811259	100.0588889	100.0366756	100.0144859	99.99231986	99.97017731	99.94805826	99.92596266
230808A00014	8/8/2023	4.6	8/7/2026	104.36211	103.3208575	102.3004652	101.3003058	100.3197806	99.35831474	98.41535533	97.49037085	96.58284997
230808A00029	8/8/2023	4.6	8/7/2026	104.36211	103.3208575	102.3004652	101.3003058	100.3197806	99.35831474	98.41535533	97.49037085	96.58284997
230808A00054	8/8/2023	4.19	8/8/2028	112.77283	109.6144278	106.5628879	103.6139817	100.7636771	98.00812441	95.34364734	92.76673377	90.27402752
230808A00057	8/8/2023	4.19	8/8/2028	112.77283	109.6144278	106.5628879	103.6139817	100.7636771	98.00812441	95.34364734	92.76673377	90.27402752
230808A00060	8/8/2023	4.19	8/8/2028	112.77283	109.6144278	106.5628879	103.6139817	100.7636771	98.00812441	95.34364734	92.76673377	90.27402752
230809A00020	8/9/2023	4.51	11/9/2026	105.42045	104.1163138	102.8412999	101.5944282	100.374765	99.18141794	98.01353358	96.87029554	95.75092228
230809A00026	8/9/2023	4.59	8/7/2026	104.3518	103.3106039	102.2902678	101.2901637	100.3096932	99.34828114	98.40537487	97.48044282	96.57297367
230809A00034	8/9/2023	4.59	8/10/2026	104.38857	103.3388925	102.3104072	101.3024763	100.314487	99.34585062	98.39600148	97.46439581	96.55051065
230810A00010	8/10/2023	4.62	8/10/2026	104.41975	103.3698996	102.3412433	101.3331438	100.3449883	99.37618787	98.42617696	97.4944117	96.58036908
230810A00013	8/10/2023	4.34	8/10/2028	113.02992	109.8672801	106.8116297	103.8587381	101.0045672	98.24526168	95.57714005	92.99668523	90.5005364
230810A00024	8/10/2023	4.34	8/7/2028	112.99469	109.8409221	106.7936425	103.8486524	101.0019401	98.24967551	95.58820034	93.0140195	90.52379277
230810A00025	8/10/2023	4.37	5/8/2028	112.00728	109.1216597	106.3263687	103.6180051	100.9933225	98.44921893	95.98272923	93.59101793	91.27137258
230810A00026	8/10/2023	4.4	1/10/2028	110.61698	108.0857805	105.6264276	103.2364683	100.9135502	98.65541514	96.45989463	94.32490582	92.24844756
230810A00046	8/10/2023	4.88	11/18/2025	101.35301	101.0466991	100.742252	100.439652	100.1388823	99.8399263	99.54276745	99.24738951	98.9537764
230810A00053	8/10/2023	4.82	1/20/2026	102.11878	101.6363172	101.1584269	100.6850467	100.2161127	99.75156236	99.29133421	98.83536794	98.38360438
230810A00057	8/10/2023	4.62	8/10/2026	104.41975	103.3698996	102.3412433	101.3331438	100.3449883	99.37618787	98.42617696	97.4944117	96.58036908
230811A00017	8/11/2023	4.78	8/11/2026	104.59883	103.5452192	102.5129282	101.5013147	100.5097605	99.53767223	98.58447948	97.64963404	96.73260876
230814A00028	8/14/2023	4.86	8/14/2026	104.72122	103.6586213	102.6176941	101.5977756	100.598233	99.61845869	98.65786926	97.71590396	96.79202374
230814A00029	8/14/2023	4.71	2/12/2027	106.95872	105.389099	103.8507035	102.3426764	100.8641891	99.41444248	97.99266603	96.5981163	95.23007579
230815A00031	8/15/2023	5.14	8/13/2025	100.17134	100.1351682	100.0990372	100.0629497	100.0269055	99.99090461	99.95494692	99.91903234	99.88316079

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7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230815A00037	8/15/2023	4.53	8/15/2028	113.67336	110.4869171	107.4085226	104.4338944	101.5589425	98.77976266	96.09262735	93.4939762	90.98040757
230815A00038	8/15/2023	4.57	8/16/2027	109.29737	107.1875781	105.1298444	103.1225434	101.1641103	99.25304048	97.3878866	95.56725602	93.78980828
230815A00084	8/15/2023	5.14	8/15/2025	100.19677	100.155033	100.1133481	100.0717155	100.0301353	99.98860727	99.94713138	99.9057075	99.86433554
230816A00025	8/16/2023	4.62	4/16/2027	107.78761	106.0307855	104.3114007	102.6283194	100.9804557	99.36676734	97.7862534	96.23795238	94.72094007
230817A00036	8/17/2023	4.91	8/17/2026	104.81317	103.7417484	102.6923441	101.6642787	100.6569047	99.66960068	98.70176979	97.75283877	96.82225664
230817A00054	5/17/2024	4.5	5/15/2026	103.26181	102.4579444	101.6666369	100.8875907	100.1205218	99.36515511	98.62122366	97.88846871	97.16663926
230818A00005	8/18/2023	5.01	8/18/2025	100.23174	100.1816263	100.1315821	100.0816055	100.0316961	99.98185396	99.93207882	99.88237056	99.83272904
230818A00007	8/18/2023	4.73	8/18/2026	104.71015	103.6354549	102.5829137	101.5518496	100.5416088	99.55156386	98.58111234	97.62967554	96.69669741
230818A00024	8/18/2023	4.81	8/18/2026	104.72016	103.6465007	102.59496	101.5648589	100.555545	99.56639249	98.59680033	97.64619122	96.71401041
230818A00025	8/18/2023	4.68	8/18/2027	109.40133	107.2877708	105.2263901	103.2155565	101.2536997	99.33930994	97.47093516	95.64717813	93.86669407
230818A00064	8/18/2023	5.09	8/18/2025	100.23247	100.1823899	100.1323775	100.0824321	100.0325537	99.98274204	99.93299703	99.88331852	99.83370638
230818A00065	8/18/2023	4.82	8/18/2026	104.73078	103.6570553	102.6054553	101.5752957	100.5659242	99.57671479	98.60706655	97.65640214	96.72416678
230821A00006	8/21/2023	4.66	8/21/2028	114.14921	110.9386686	107.8373442	104.8408912	101.9451601	99.14619139	96.44020509	93.82359174	91.29290353
230821A00074	8/21/2023	5.18	8/21/2025	100.2755	100.2170704	100.1587278	100.1004682	100.0422915	99.98419745	99.92618597	99.86825685	99.81040989
230821A00085	8/21/2023	5.04	2/23/2026	102.65869	102.0805883	101.5090102	100.9438484	100.3849952	99.83234531	99.28579564	98.74524545	98.21059621
230823A00036	8/23/2023	4.87	8/24/2026	104.86204	103.7709495	102.7026718	101.656496	100.6317401	99.62774976	98.64389723	97.67957979	96.73421861
230823A00066	8/23/2023	4.68	8/23/2027	109.46709	107.3390492	105.2637482	103.2395318	101.2648047	99.3380338	97.45774454	95.62251866	93.83099145
230824A00008	8/24/2023	4.69	8/24/2028	112.22493	109.4624759	106.7910195	104.2069467	101.7068128	99.28733277	96.94537246	94.67794061	92.48218128
230824A00031	8/24/2023	4.49	8/24/2028	113.88922	110.6689396	107.558574	104.5537287	101.6502156	98.84403876	96.13138437	93.50861111	90.97224127
230824A00043	8/24/2023	4.89	8/24/2026	104.8836	103.7923871	102.7239871	101.6776908	100.652816	99.64870858	98.66474057	97.70030926	96.75483578
230824A00061	8/24/2023	4.61	8/24/2028	114.03197	110.8148653	107.7074245	104.7052738	101.8042388	99.000336	96.28976355	93.66889126	91.13425195
230825A00005	8/25/2023	5.14	11/21/2025	101.47221	101.1573515	100.844458	100.5335111	100.2244927	99.91738466	99.61216932	99.30882911	99.00734672
230825A00009	8/25/2023	4.91	8/25/2026	104.91831	103.8241183	102.752863	101.7038232	100.6763119	99.66966992	98.68326493	97.71648988	96.76876184
230825A00010	8/25/2023	4.62	8/25/2028	114.07551	110.8549361	107.7442063	104.7389384	101.8349483	99.02824369	96.31501433	93.69162219	91.15459268
230825A00037	8/25/2023	4.91	8/25/2026	104.91831	103.8241183	102.752863	101.7038232	100.6763119	99.66966992	98.68326493	97.71648988	96.76876184
230825A00043	8/25/2023	4.89	8/25/2026	104.89669	103.802626	102.7314936	101.682575	100.6551831	99.64865878	98.66236983	97.69570921	96.74809401
230825A00044	8/25/2023	5.2	8/25/2025	100.3282	100.2586535	100.1892121	100.1198772	100.0506487	99.98152613	99.91250943	99.8435983	99.77479251
230825A00062	8/25/2023	5.21	8/25/2025	100.3289	100.2593493	100.1899073	100.1205719	100.0513427	99.98221959	99.9132023	99.84429058	99.7754842
230828A00036	8/28/2023	4.8	8/28/2026	104.91484	103.81122	102.7309153	101.6731944	100.6373534	99.62271725	98.62863866	97.65449633	96.69969383
230828A00047	8/28/2023	4.92	8/28/2026	104.96862	103.8658228	102.7863032	101.7293314	100.6942051	99.68025098	98.68682306	97.71330147	96.7590911
230828A00055	8/28/2023	5.24	8/28/2025	100.36996	100.2920747	100.2143106	100.1366721	100.0591592	99.98177135	99.90450842	99.82737006	99.75035597
230828A00056	8/28/2023	4.92	8/28/2026	104.96862	103.8658228	102.7863032	101.7293314	100.6942051	99.68025098	98.68682306	97.71330147	96.7590911
230829A00006	8/29/2023	5.21	8/29/2025	100.38054	100.2998719	100.2193369	100.1389344	100.058664	99.9785255	99.89851849	99.81864269	99.73889777

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230830A00028	8/30/2023	4.45	8/30/2027	109.22734	107.0796496	104.9855484	102.9433406	100.9513926	99.00813459	97.11205795	95.26171194	93.45570117
230830A00029	8/30/2023	4.45	8/30/2027	109.22734	107.0796496	104.9855484	102.9433406	100.9513926	99.00813459	97.11205795	95.26171194	93.45570117
230830A00034	8/30/2023	4.44	8/30/2028	113.57666	110.3499093	107.2336306	104.223396	101.3149829	98.50436345	95.78769397	93.16130528	90.6216937
230830A00051	8/30/2023	4.45	8/30/2027	109.22734	107.0796496	104.9855484	102.9433406	100.9513926	99.00813459	97.11205795	95.26171194	93.45570117
230830A00055	8/30/2023	4.47	8/30/2028	113.22851	110.0997738	107.0786093	104.1606415	101.3417028	98.61782243	95.98521476	93.44026985	90.97954389
230831A00001	8/31/2023	4.77	8/31/2026	104.84352	103.7331465	102.6463912	101.5825015	100.5407604	99.52048032	98.52100214	97.54169341	96.58194711
230831A00006	8/31/2023	4.61	8/31/2027	109.42477	107.2751211	105.1790984	103.1349965	101.1411809	99.19608108	97.29818735	95.4460482	93.63826745
230831A00007	8/31/2023	4.48	8/31/2028	113.71355	110.481884	107.3609061	104.3461804	101.4334737	98.61874802	95.89815005	93.26800171	90.7247909
230831A00016	8/31/2023	4.65	8/31/2026	104.78926	103.6780666	102.5905206	101.5258767	100.4834162	99.46244992	98.46231728	97.48238439	96.5220429
230831A00041	8/31/2023	4.48	8/31/2028	113.71355	110.481884	107.3609061	104.3461804	101.4334737	98.61874802	95.89815005	93.26800171	90.7247909
230831A00066	8/31/2023	4.77	8/31/2026	104.84352	103.7331465	102.6463912	101.5825015	100.5407604	99.52048032	98.52100214	97.54169341	96.58194711
230831A00069	8/31/2023	4.61	8/31/2027	109.42477	107.2751211	105.1790984	103.1349965	101.1411809	99.19608108	97.29818735	95.4460482	93.63826745
230831A00070	8/31/2023	4.48	8/31/2028	113.71355	110.481884	107.3609061	104.3461804	101.4334737	98.61874802	95.89815005	93.26800171	90.7247909
230831A00079	8/30/2024	4.28	8/29/2031	124.34315	117.7710982	111.6001514	105.8035595	100.3564952	95.23590779	90.42038674	85.89003673	81.62636258
230901A00007	9/1/2023	4.55	9/1/2027	109.31135	107.1600985	105.0625646	103.0170426	101.0218931	99.07554116	97.17647281	95.32323251	93.51442034
230901A00016	9/1/2023	4.6	8/3/2026	104.38487	103.3534981	102.3425772	101.351502	100.3796916	99.42658724	98.49165194	97.57436893	96.67424094
230901A00037	9/1/2023	4.3	9/1/2028	113.39411	110.1591442	107.0352201	104.0178776	101.1028624	98.28611673	95.56376892	92.93212351	90.38765222
230901A00044	9/1/2023	4.55	9/1/2027	109.31135	107.1600985	105.0625646	103.0170426	101.0218931	99.07554116	97.17647281	95.32323251	93.51442034
230905A00030	9/5/2023	4.55	9/5/2028	113.99499	110.7446179	107.6059291	104.574429	101.645832	98.81605073	96.08118585	93.43751592	90.88148815
230905A00033	9/5/2023	4.71	9/4/2026	104.90664	103.7836862	102.6848739	101.6094294	100.5566117	99.52571108	98.5160471	97.52696732	96.55784579
230906A00020	9/6/2023	5.19	9/8/2025	100.50974	100.4012836	100.2930751	100.1851114	100.0773917	99.96991509	99.86268077	99.75568786	99.64893552
230907A00012	9/7/2023	5.17	9/8/2025	100.50757	100.3991184	100.2909118	100.1829501	100.0752324	99.96775775	99.8605254	99.75353445	99.64678406
230907A00050	9/7/2023	5.05	9/5/2025	100.46312	100.3629399	100.2629728	100.1632134	100.0636609	99.96431466	99.86517405	99.76623839	99.66750701
230907A00051	9/7/2023	4.79	9/8/2026	105.04774	103.9128769	102.8026451	101.7162513	100.6529325	99.61195762	98.59262641	97.59426758	96.61623738
230908A00009	9/8/2023	4.55	9/8/2028	113.8277	110.6113093	107.5066929	104.5092613	101.6146498	98.81870066	96.11745215	93.50712778	90.98412631
230908A00010	9/8/2023	4.73	9/9/2030	112.68783	109.7971818	107.018179	104.3455311	101.7742377	99.29957117	96.91705909	94.62246916	92.4117945
230911A00010	9/11/2023	4.9	9/11/2026	105.13135	103.9888626	102.8713329	101.7779503	100.7079368	99.66054737	98.63506832	97.63081586	96.64713438
230911A00014	9/11/2023	4.61	9/11/2028	114.25962	110.9878974	107.8290288	104.7784509	101.8318155	98.98497671	96.23398003	93.57505253	91.00459306
230911A00026	9/11/2023	5.08	9/11/2025	100.53616	100.4193714	100.3028681	100.1866491	100.0707133	99.95505961	99.83968704	99.72459449	99.6097809
230911A00030	9/11/2023	5.09	9/11/2025	100.53733	100.4205372	100.3040327	100.1878126	100.0718757	99.95622096	99.84084729	99.72575364	99.61093895
230912A00026	9/12/2023	4.84	9/14/2026	105.10277	103.9521463	102.8268435	101.7260312	100.6489145	99.59473269	98.56275727	97.55229039	96.5626632
230912A00036	9/12/2023	4.57	9/12/2028	114.14616	110.8733651	107.7135522	104.6621521	101.7148081	98.86736637	96.11586533	93.4565252	90.88573851
230912A00053	9/12/2023	4.74	9/7/2027	109.79386	107.6204138	105.5015164	103.4354255	101.4204654	99.45502717	97.53756468	95.66659194	93.8406802

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230913A00013	9/13/2023	4.87	9/14/2026	105.13686	103.9860261	102.8605206	101.7595087	100.6821954	99.62781987	98.59565362	97.58499869	96.59518616
230913A00030	9/13/2023	5.16	9/15/2025	100.59729	100.4693599	100.3417678	100.2145147	100.0875993	99.96102022	99.83477609	99.70886552	99.58328716
230913A00031	9/13/2023	4.91	9/15/2026	105.19553	104.0415729	102.9130697	101.809181	100.729106	99.67207864	98.63736511	97.62426267	96.63209783
230913A00032	9/13/2023	4.74	9/15/2027	109.90253	107.7052018	105.5634317	103.475424	101.4394581	99.45388186	97.5171089	95.627615	93.78393526
230913A00046	9/13/2023	4.91	9/14/2026	105.1823	104.0311992	102.9054234	101.8041453	100.7265699	99.67193611	98.63951541	97.62860974	96.6385501
230913A00049	9/13/2023	4.74	9/13/2027	109.87536	107.6840081	105.5479591	103.4654325	101.4347191	99.45417751	97.52223154	95.63736654	93.7981267
230913A00050	9/13/2023	4.6	9/13/2028	114.25354	110.9761759	107.8120224	104.7564912	101.8052143	98.95402725	96.19895849	93.53621882	90.96219194
230914A00027	9/14/2023	4.76	1/8/2027	106.55498	105.0871364	103.6470252	102.233929	100.847153	99.48602584	98.14989835	96.83814294	95.55015257
230914A00031	9/14/2023	5.08	9/15/2025	100.58707	100.459147	100.3315652	100.2043224	100.0774173	99.95084846	99.82461456	99.6987142	99.57314603
230914A00050	9/14/2023	4.67	9/14/2027	109.73868	107.5459843	105.4086847	103.3249951	101.2932014	99.31165807	97.37878444	95.49306197	93.65303112
230914A00051	9/14/2023	4.84	9/14/2026	105.10277	103.9521463	102.8268435	101.7260312	100.6489145	99.59473269	98.56275727	97.55229039	96.5626632
230914A00059	7/26/2024	4.39	7/24/2026	103.98203	102.9814896	102.0002675	101.0378027	100.0935605	99.16702587	98.25770349	97.36511615	96.48880421
230914A00069	7/26/2024	4.34	7/26/2027	108.41712	106.3769119	104.3860884	102.4431398	100.5466164	98.69512266	96.88731454	95.12189731	93.39762337
230914A00070	7/26/2024	4.3	7/26/2028	112.73393	109.6173058	106.6050353	103.6930388	100.8774191	98.15445348	95.52058469	92.97241239	90.5066855
230914A00125	9/16/2024	4.46	9/16/2031	125.60365	118.9421512	112.6894123	106.818007	101.3024965	96.11927414	91.2464239	86.66359031	82.35185931
230915A00026	9/15/2023	4.57	9/15/2028	114.18407	110.9020776	107.7336163	104.6740842	101.7190944	98.86446485	96.10620727	93.44051709	90.86376354
230915A00030	9/15/2023	4.7	9/8/2027	109.72224	107.5467387	105.4258901	103.3579486	101.3412338	99.37413175	97.45509179	95.58262367	93.75529458
230915A00054	9/15/2023	4.88	9/15/2026	105.16136	104.007611	102.8793115	101.7756233	100.6957459	99.63891309	98.60439126	97.59147772	96.59949904
230915A00055	9/15/2023	4.7	9/15/2027	109.81655	107.6201672	105.4793191	103.3922151	101.3571347	99.37242664	97.43650484	95.54784559	93.70498446
230915A00057	9/15/2023	4.75	6/15/2027	108.6954	106.7656402	104.8801157	103.0375506	101.2367127	99.47641329	97.75550522	96.07288095	94.42747114
230918A00008	9/18/2023	4.91	9/18/2026	105.2352	104.0726894	102.9360011	101.8242787	100.7367043	99.67249574	98.63090412	97.6112124	96.61273358
230918A00010	9/18/2023	4.72	9/18/2029	119.3453	114.9213819	110.6908233	106.6440688	102.7720937	99.06636871	95.51882977	92.12184978	88.86821239
230918A00011	9/18/2023	4.91	9/18/2026	105.2352	104.0726894	102.9360011	101.8242787	100.7367043	99.67249574	98.63090412	97.6112124	96.61273358
230918A00013	9/18/2023	4.74	9/18/2030	123.7288	118.1558692	112.8759129	107.8718613	103.1277364	98.62857298	94.36034915	90.30992131	86.46496443
230918A00018	9/18/2023	5.01	3/18/2026	102.92943	102.2869081	101.6524346	101.0258615	100.4070416	99.7958312	99.19209032	98.59568224	98.00647362
230918A00023	9/18/2023	4.91	9/18/2026	105.2352	104.0726894	102.9360011	101.8242787	100.7367043	99.67249574	98.63090412	97.6112124	96.61273358
230918A00027	9/18/2023	5.11	9/30/2025	100.78373	100.6139629	100.4447667	100.2761369	100.1080708	99.94056548	99.77361819	99.60722619	99.44138671
230918A00030	9/18/2023	5.01	9/17/2027	105.387	104.2363785	103.1091436	102.0046141	100.9221351	99.86107666	98.82083219	97.8008178	96.80047106
230919A00010	9/19/2023	4.76	9/20/2027	110.01371	107.8009652	105.6444168	103.5422432	101.4926947	99.49409188	97.54482252	95.64333798	93.78815034
230919A00029	9/19/2023	4.63	9/19/2028	114.42509	111.1277973	107.9448524	104.8716038	101.9036216	99.03668314	96.26676231	93.59001893	91.00278886
230919A00043	9/19/2023	4.62	9/19/2028	114.39334	111.0965565	107.9141026	104.8413325	101.8738164	99.00733212	96.23785408	93.56154241	90.97473332
230919A00044	9/19/2023	4.93	9/21/2026	105.29798	104.1267686	102.9817514	101.8620549	100.7668442	99.69532065	98.64672026	97.62031145	96.6153936
230919A00047	9/19/2023	4.98	8/19/2026	104.91395	103.8364196	102.7811379	101.7474193	100.7346063	99.74206802	98.76919872	97.81541657	96.88016256

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230919A00055	9/19/2023	4.65	9/19/2028	114.48858	111.190279	108.0063519	104.9321466	101.9632321	99.09538516	96.32457877	93.64697199	91.05889994
230920A00002	9/20/2023	4.47	10/2/2028	114.3152	110.9768362	107.7554372	104.6461917	101.6445229	98.74607068	95.94668066	93.24239234	90.62942893
230920A00025	9/20/2023	5.14	9/16/2025	100.60768	100.4769613	100.3466001	100.216592	100.0869356	99.95762948	99.82867211	99.70006205	99.57179788
230920A00026	9/20/2023	4.9	9/16/2026	105.19733	104.0405978	102.9094349	101.8030025	100.7204941	99.66113812	98.62419602	97.60896023	96.61475279
230921A00021	9/21/2023	4.62	9/21/2028	114.65506	111.3427537	108.1455619	105.058797	102.0779893	99.19887905	96.41740508	93.72969432	91.13205166
230921A00028	9/21/2023	5.07	9/21/2026	105.45976	104.2875535	103.141559	102.0209003	100.9247421	99.85228543	98.80276587	97.77545153	96.76964142
230922A00022	9/22/2023	4.99	9/22/2026	105.38076	104.2062635	103.0580942	101.93537	100.83725	99.76293016	98.71164111	97.68264634	96.6752405
230922A00025	9/22/2023	5.18	9/22/2025	100.6912	100.5437499	100.396742	100.2501751	100.1040471	99.95835594	99.81309977	99.66827657	99.52388438
230925A00003	9/25/2023	4.99	9/25/2026	105.42109	104.2380204	103.0816483	101.951076	100.8454454	99.763936	98.70576313	97.67017571	96.65645469
230925A00004	9/25/2023	4.74	9/25/2028	114.85293	111.5315771	108.3258261	105.2309559	102.2424699	99.35608373	96.56771298	93.87346291	91.26961813
230925A00057	9/25/2023	5.19	9/30/2025	100.79728	100.6274987	100.4582853	100.2896383	100.1215549	99.95403246	99.78706808	99.62065903	99.45480255
230925A00080	9/25/2023	5.07	9/30/2025	100.78864	100.6187446	100.4494215	100.2806666	100.112477	99.94485007	99.77778286	99.6112726	99.44531654
230925A00114	9/25/2023	5.09	3/25/2026	103.06952	102.4071436	101.753303	101.107838	100.4705884	99.84139758	99.22011318	98.60658658	98.00067285
230925A00121	9/25/2023	5.2	9/25/2025	100.73346	100.577629	100.4222903	100.2674384	100.113071	99.95918603	99.80578106	99.65285386	99.50040221
230926A00010	9/26/2023	4.74	9/26/2028	114.86604	111.5415966	108.3329434	105.2353456	102.2442965	99.35550182	96.56486834	93.86849282	91.26265197
230926A00021	9/26/2023	4.73	9/26/2028	114.8341	111.510168	108.3020118	105.204898	102.2143204	99.3259853	96.53579969	93.8398608	91.23444568
230926A00048	9/26/2023	5.2	9/26/2025	100.74656	100.5879397	100.4298241	100.272211	100.115098	99.95848271	99.80236279	99.64673589	99.49159966
230926A00076	9/26/2023	4.73	9/26/2028	114.8341	111.510168	108.3020118	105.204898	102.2143204	99.3259853	96.53579969	93.8398608	91.23444568
230927A00020	9/27/2023	5.01	10/16/2026	105.73054	104.4872846	103.2734449	102.0879841	100.929913	99.79828791	98.69220839	97.61081431	96.55328388
230927A00021	9/27/2023	4.96	1/29/2027	107.1379	105.6084954	104.1090618	102.6387943	101.1969157	99.78267584	98.3953506	97.03424054	95.69866998
230927A00032	9/27/2023	5.02	9/23/2026	105.42903	104.2514678	103.1003533	101.9748053	100.873977	99.79705897	98.7432765	97.71188823	96.70218417
230927A00033	9/27/2023	4.78	9/25/2028	114.98057	111.6571843	108.4494489	105.3526457	102.3622766	99.47405531	96.68389598	93.98790226	91.38235728
230927A00034	9/27/2023	4.82	9/27/2028	115.13488	111.8032592	108.5877208	105.4835163	102.4861249	99.59123953	96.79475459	94.0927553	91.48150746
230928A00001	9/28/2023	4.91	9/28/2026	105.45072	104.2578699	103.0921447	101.9526219	100.8384237	99.74871105	98.68268193	97.63956883	96.61863717
230928A00014	9/28/2023	4.9	9/28/2027	110.42879	108.188684	106.0058686	103.878469	101.804687	99.78279756	97.81114514	95.88814033	94.0122566
230928A00016	9/28/2023	4.83	9/28/2028	115.1802	111.8449743	108.6260274	105.5186025	102.5181682	99.62040731	96.82120472	94.1166368	91.50296106
230928A00017	9/28/2023	4.83	9/28/2028	115.1802	111.8449743	108.6260274	105.5186025	102.5181682	99.62040731	96.82120472	94.1166368	91.50296106
230928A00033	9/28/2023	5.03	9/28/2026	105.50842	104.3164743	103.1516065	102.0128992	100.8994768	99.81050219	98.745175	97.70272949	96.68243265
230928A00047	9/28/2023	5.21	9/29/2025	100.78753	100.62053	100.4540788	100.2881779	100.1228246	99.95801626	99.79375013	99.63002359	99.466834
230928A00051	9/28/2023	5.04	9/28/2026	105.85167	104.5909473	103.360675	102.1597584	100.9871514	99.84185713	98.72292506	97.62944845	96.56056177
230928A00058	9/28/2023	5.04	9/28/2026	105.85167	104.5909473	103.360675	102.1597584	100.9871514	99.84185713	98.72292506	97.62944845	96.56056177
230928A00059	9/28/2023	4.84	9/28/2028	114.98893	111.6980194	108.5229272	105.4588384	102.5011694	99.6455579	96.88785056	94.22409135	91.65051071
230928A00060	9/28/2023	4.84	9/28/2028	114.98893	111.6980194	108.5229272	105.4588384	102.5011694	99.6455579	96.88785056	94.22409135	91.65051071

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230928A00061	9/28/2023	4.84	9/28/2028	114.98893	111.6980194	108.5229272	105.4588384	102.5011694	99.6455579	96.88785056	94.22409135	91.65051071
230928A00064	9/28/2023	4.78	9/30/2027	110.35348	108.1054082	105.9149992	103.7803584	101.6996708	99.67119551	97.6932619	95.76426638	93.88266899
230929A00031	9/29/2023	5.14	9/29/2025	100.77587	100.6088801	100.4424437	100.2765576	100.111219	99.9464253	99.78217381	99.61846187	99.45528684
230929A00033	9/29/2023	4.92	9/29/2026	105.39243	104.1984298	103.031621	101.8910792	100.7759232	99.68531081	98.61843677	97.5745307	96.55285528
230929A00046	9/29/2023	4.66	9/29/2027	110.07678	107.8346394	105.6499703	103.5208885	101.4455866	99.42233086	97.44945744	95.5253692	93.64853228
230929A00049	9/29/2023	4.87	9/30/2030	112.55751	109.7763817	107.1009046	104.5261181	102.0473342	99.66011859	97.36027507	95.14383122	93.00702484
230929A00059	9/29/2023	5.14	9/29/2025	100.77587	100.6088801	100.4424437	100.2765576	100.111219	99.9464253	99.78217381	99.61846187	99.45528684
230929A00061	9/29/2023	4.92	9/29/2026	105.39243	104.1984298	103.031621	101.8910792	100.7759232	99.68531081	98.61843677	97.5745307	96.55285528
230929A00062	9/29/2023	4.78	9/29/2027	110.18024	107.9400498	105.7572222	103.6298748	101.5562054	99.5344849	97.56305423	95.64032051	93.76475396
231002A00018	10/2/2023	4.87	10/1/2027	110.40469	108.1564163	105.9658044	103.8309616	101.7500723	99.72139516	97.74325934	95.81406092	93.93225966
231002A00042	10/2/2023	4.73	10/2/2028	115.15088	111.7990884	108.5646094	105.4426253	102.4285476	99.51800525	96.70683291	93.99105985	91.36689942
231003A00005	10/3/2023	4.84	10/3/2028	115.27805	111.9271456	108.6934591	105.5721796	102.5587233	99.64872387	96.8380204	94.12264628	91.49881878
231003A00011	10/3/2023	4.89	10/15/2027	110.63937	108.3499276	106.1199836	103.9475547	101.8307401	99.76771808	97.75674203	95.79613667	93.88429436
231003A00036	10/3/2023	4.84	10/3/2028	115.27805	111.9271456	108.6934591	105.5721796	102.5587233	99.64872387	96.8380204	94.12264628	91.49881878
231004A00006	10/4/2023	4.88	10/4/2028	115.41972	112.063753	108.825242	105.6993648	102.6815254	99.76734587	96.95265448	94.23347449	91.60601365
231005A00003	10/5/2023	5.14	10/6/2025	100.86716	100.6807014	100.4949388	100.3098701	100.1254914	99.94179877	99.75878838	99.57645637	99.39479893
231005A00035	10/5/2023	4.98	10/5/2026	105.54441	104.3328498	103.1492575	101.9926731	100.8621778	99.75689424	98.67598414	97.61864594	96.58411293
231005A00037	10/5/2023	4.88	10/5/2027	110.48103	108.2209059	106.0189654	103.8732917	101.7820451	99.7434615	97.75584849	95.81758188	93.92710229
231005A00039	10/5/2023	5.16	10/6/2025	100.87088	100.6844178	100.4986502	100.3135766	100.129193	99.94549544	99.76248016	99.58014328	99.39848098
231005A00040	10/5/2023	4.98	10/5/2026	105.54441	104.3328498	103.1492575	101.9926731	100.8621778	99.75689424	98.67598414	97.61864594	96.58411293
231005A00054	10/5/2023	4.98	10/5/2026	105.54441	104.3328498	103.1492575	101.9926731	100.8621778	99.75689424	98.67598414	97.61864594	96.58411293
231006A00009	10/6/2023	4.98	10/15/2027	110.8403	108.5485724	106.3163954	104.1417793	102.0228219	99.95770024	97.94466652	95.98204422	94.06822458
231006A00010	10/6/2023	4.93	10/16/2028	115.73986	112.3452216	109.07035	105.910284	102.860298	99.91589332	97.07278524	94.32689129	91.67432029
231006A00032	10/6/2023	5.08	10/6/2026	105.6777	104.4625205	103.2754553	102.1155334	100.9818294	99.87345977	98.78958024	97.72938374	96.69209835
231006A00033	10/6/2023	4.98	10/6/2027	110.71539	108.4498817	106.2427398	104.0920378	101.9959286	99.95264086	97.96047558	96.01780221	94.12305536
231010A00007	10/10/2023	4.83	10/12/2027	110.46503	108.1858255	105.9656929	103.8026706	101.6948769	99.64050835	97.63783555	95.68519934	93.78100736
231010A00030	10/10/2023	4.88	10/15/2026	105.55802	104.3186581	103.10856	101.9266992	100.7720935	99.64380571	98.54094151	97.46264654	96.40810443
231010A00031	10/10/2023	5.08	10/10/2025	100.90756	100.7099767	100.5131806	100.3171665	100.1219295	99.9274651	99.73376853	99.54083521	99.34866057
231010A00057	10/10/2023	4.66	10/10/2028	115.02786	111.6557208	108.4022876	105.2626565	102.2321576	99.30634399	96.48097966	93.7520277	91.11563964
231010A00068	10/10/2023	4.83	10/8/2027	110.41118	108.1435874	105.9345452	103.7821162	101.6844433	99.6397459	97.64631625	95.70251555	93.80677069
231010A00075	10/10/2023	4.78	10/10/2028	115.1753	111.8065443	108.5562322	105.4194698	102.3916025	99.46819744	96.64503208	93.91808204	91.28351061
231010A00076	10/10/2023	4.66	10/10/2028	115.02786	111.6557208	108.4022876	105.2626565	102.2321576	99.30634399	96.48097966	93.7520277	91.11563964
231010A00101	10/10/2023	4.78	10/10/2028	115.1753	111.8065443	108.5562322	105.4194698	102.3916025	99.46819744	96.64503208	93.91808204	91.28351061

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
231010A00129	10/10/2023	4.93	10/13/2026	105.59224	104.358197	103.1531676	101.9761323	100.8261215	99.70221005	98.60351481	97.52919198	96.47843512
231011A00004	10/11/2023	4.81	10/8/2027	110.36692	108.0998234	105.8912691	103.7393181	101.6421135	99.59787507	97.60489522	95.66153546	93.76622293
231011A00016	10/11/2023	4.75	10/11/2028	115.0911	111.7209193	108.4693281	105.3314216	102.3025359	99.37822981	96.55427271	93.82663278	91.19146643
231011A00028	10/11/2023	4.92	10/9/2026	105.52641	104.3038843	103.1098389	101.9432889	100.8032907	99.68894306	98.59938546	97.53379541	96.49138654
231011A00029	10/11/2023	4.81	10/8/2027	110.36692	108.0998234	105.8912691	103.7393181	101.6421135	99.59787507	97.60489522	95.66153546	93.76622293
231011A00030	10/11/2023	4.75	10/11/2028	115.0911	111.7209193	108.4693281	105.3314216	102.3025359	99.37822981	96.55427271	93.82663278	91.19146643
231012A00016	10/12/2023	5.14	10/14/2025	100.97161	100.7628637	100.5549938	100.3479965	100.1418661	99.93659703	99.73218392	99.52862131	99.32590383
231012A00027	10/12/2023	4.78	10/16/2028	115.25247	111.8657436	108.5985786	105.4460164	102.4033386	99.46605292	96.62988119	93.89074707	91.24476525
231013A00017	10/13/2023	5.13	10/14/2025	100.96953	100.760784	100.5529172	100.3459228	100.1397953	99.93452921	99.73011903	99.52655935	99.32384479
231013A00020	10/13/2023	4.98	10/13/2026	105.65306	104.4186265	103.2132122	102.0357981	100.8854147	99.76113652	98.66208031	97.5874021	96.53629533
231016A00016	10/16/2023	5.01	10/16/2026	105.73054	104.4872846	103.2734449	102.0879841	100.929913	99.79828791	98.69220839	97.61081431	96.55328388
231016A00047	10/16/2023	4.98	2/10/2027	107.34793	105.781215	104.2456041	102.7402425	101.2643073	99.81700535	98.39757136	97.00526697	95.63937946
231016A00049	10/16/2023	4.95	7/19/2027	109.54625	107.5136412	105.5297294	103.5930438	101.7021678	99.85573732	98.05243804	96.29100349	94.57021284
231017A00008	10/17/2023	5.26	10/17/2025	101.03677	100.8196107	100.6034044	100.3881402	100.1738119	99.96041323	99.74793821	99.53638071	99.32573473
231017A00017	10/17/2023	5.11	10/16/2026	105.85301	104.6089632	103.3943436	102.2081155	101.0492894	99.91692154	98.81011091	97.72799714	96.66975813
231017A00029	10/17/2023	4.99	10/17/2028	115.73019	112.3711363	109.1319382	106.0076118	102.9934127	100.0848214	97.27753106	94.56743623	91.95062206
231017A00032	10/17/2023	4.99	10/17/2028	115.73019	112.3711363	109.1319382	106.0076118	102.9934127	100.0848214	97.27753106	94.56743623	91.95062206
231017A00033	10/17/2023	4.99	10/17/2028	115.73019	112.3711363	109.1319382	106.0076118	102.9934127	100.0848214	97.27753106	94.56743623	91.95062206
231017A00034	10/17/2023	4.99	10/17/2028	115.73019	112.3711363	109.1319382	106.0076118	102.9934127	100.0848214	97.27753106	94.56743623	91.95062206
231017A00035	10/17/2023	4.99	10/17/2028	115.73019	112.3711363	109.1319382	106.0076118	102.9934127	100.0848214	97.27753106	94.56743623	91.95062206
231017A00036	10/17/2023	4.99	10/17/2028	115.73019	112.3711363	109.1319382	106.0076118	102.9934127	100.0848214	97.27753106	94.56743623	91.95062206
231017A00037	10/17/2023	4.99	10/17/2028	115.73019	112.3711363	109.1319382	106.0076118	102.9934127	100.0848214	97.27753106	94.56743623	91.95062206
231017A00039	10/17/2023	5.12	10/16/2026	106.22323	104.9146625	103.6331304	102.3777988	101.1478669	99.9425666	98.76116107	97.6029431	96.46723359
231017A00040	10/17/2023	5.12	10/16/2026	106.22323	104.9146625	103.6331304	102.3777988	101.1478669	99.9425666	98.76116107	97.6029431	96.46723359
231017A00041	10/17/2023	5.12	10/16/2026	106.22323	104.9146625	103.6331304	102.3777988	101.1478669	99.9425666	98.76116107	97.6029431	96.46723359
231017A00046	10/17/2023	5.26	10/17/2025	101.03677	100.8196107	100.6034044	100.3881402	100.1738119	99.96041323	99.74793821	99.53638071	99.32573473
231018A00026	10/18/2023	5.28	1/7/2026	102.16172	101.7151115	101.2724245	100.8336036	100.3985982	99.96735851	99.53983564	99.11598156	98.69574905
231019A00006	10/19/2023	5.29	10/20/2025	101.08367	100.8581297	100.6336079	100.410099	100.1875963	99.9660929	99.74558195	99.52605676	99.30751067
231019A00007	10/19/2023	5.19	10/19/2026	105.99347	104.740175	103.5167142	102.3220318	101.1551185	100.0150118	98.90079325	97.81158615	96.74655286
231019A00009	10/19/2023	5.14	10/19/2027	111.25478	108.9472982	106.6999736	104.5107945	102.3778317	100.2992365	98.27323714	96.29813418	94.37229734
231019A00031	1/22/2024	5.12	1/30/2026	102.39501	101.884046	101.3781835	100.8773496	100.3814696	99.89047017	99.40427953	98.92282725	98.44604427
231019A00036	10/19/2023	5.27	10/20/2025	101.07917	100.8536384	100.6291233	100.4056213	100.1831254	99.9616287	99.74112449	99.52160601	99.3030666
231019A00041	10/19/2023	5.08	10/19/2028	116.26834	112.8567031	109.565616	106.3900686	103.3252964	100.3667637	97.51015146	94.75134476	92.08642202

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
231019A00043	10/19/2023	5.19	10/19/2026	105.99347	104.740175	103.5167142	102.3220318	101.1551185	100.0150118	98.90079325	97.81158615	96.74655286
231019A00044	10/19/2023	5.14	10/19/2027	111.25478	108.9472982	106.6999736	104.5107945	102.3778317	100.2992365	98.27323714	96.29813418	94.37229734
231020A00041	10/20/2023	5.19	10/20/2025	101.06118	100.8356729	100.6111852	100.3877104	100.1652416	99.94377191	99.72329464	99.503803	99.28529035
231020A00048	10/20/2023	5.08	10/20/2026	105.8717	104.6164148	103.391087	102.194649	101.0260854	99.88442808	98.76875315	97.67817873	96.61186248
231020A00049	10/20/2023	5.03	10/20/2027	111.02201	108.7144137	106.4670556	104.2779124	102.1450503	100.0666164	98.04083485	96.0660026	94.14048587
231020A00051	10/20/2023	5.02	10/20/2028	116.08641	112.6749347	109.3841136	106.2089277	103.1446047	100.1866016	97.33059248	94.5724562	91.90826532
231020A00069	10/20/2023	5.08	10/15/2026	105.80241	104.561469	103.3498177	102.1664289	101.0103198	99.88055265	98.77623236	97.69650399	96.6405506
231020A00070	10/20/2023	5.19	10/15/2025	100.99522	100.7836663	100.5730156	100.3632606	100.1543952	99.9464139	99.73931093	99.53308067	99.32771753
231023A00029	10/23/2023	5.19	10/23/2025	101.10075	100.8668651	100.6340692	100.4023585	100.1717253	99.94216219	99.71366159	99.48621612	99.25981841
231023A00034	4/23/2024	4.95	4/23/2026	103.3398	102.5963079	101.8635517	101.1412976	100.4293206	99.72740197	99.03532936	98.35289625	97.67990188
231024A00017	10/24/2023	4.97	10/25/2027	110.95648	108.635826	106.3760399	104.1750697	102.0309512	99.94180313	97.9058228	95.92128192	93.98652291
231024A00029	10/24/2023	4.97	10/25/2027	110.95648	108.635826	106.3760399	104.1750697	102.0309512	99.94180313	97.9058228	95.92128192	93.98652291
231024A00030	10/24/2023	4.96	10/24/2028	115.94422	112.5238713	109.224841	106.0420741	102.9707579	100.0063119	97.14437512	94.38079381	91.71161005
231024A00039	10/24/2023	5.06	10/26/2026	105.92979	104.6574439	103.4158505	102.2039022	101.0205442	99.86477106	98.73562435	97.63218944	96.55359326
231024A00046	10/24/2023	4.96	10/24/2028	115.94422	112.5238713	109.224841	106.0420741	102.9707579	100.0063119	97.14437512	94.38079381	91.71161005
231024A00079	10/24/2023	5.18	10/24/2025	101.11158	100.8749042	100.6393417	100.4048887	100.1715374	99.93928008	99.70810894	99.47801635	99.24899473
231024A00082	10/24/2023	5.05	10/23/2026	105.87595	104.6122965	103.3789978	102.1749634	100.999158	99.85059522	98.72833385	97.6314758	96.55916349
231025A00003	10/25/2023	5.07	10/24/2025	101.10186	100.8650172	100.6292966	100.3946884	100.1611846	99.92877745	99.69745913	99.46722196	99.23805832
231025A00004	10/25/2023	5.07	10/24/2025	101.10186	100.8650172	100.6292966	100.3946884	100.1611846	99.92877745	99.69745913	99.46722196	99.23805832
231025A00013	10/25/2023	5.08	10/26/2026	105.95484	104.6823258	103.4405695	102.228461	101.0449454	99.88901734	98.75971815	97.65613319	96.57738933
231025A00018	10/25/2023	5.19	10/27/2025	101.15351	100.9084409	100.6645605	100.4218639	100.1803423	99.9399873	99.70079044	99.46274332	99.22583767
231025A00024	10/25/2023	5	10/25/2028	116.08855	112.6630382	109.3590928	106.1716439	103.095866	100.1271667	97.26117389	94.49372331	91.82084717
231025A00036	10/25/2023	5.08	10/21/2026	105.88555	104.6274018	103.3993371	102.2002882	101.0292332	99.88519759	98.76725185	97.67450865	96.60612055
231027A00015	10/27/2023	5.08	2/23/2026	102.68166	102.1034837	101.531831	100.9665953	100.4076688	99.85494609	99.30832422	98.7677024	98.23298208
231027A00019	10/27/2023	4.99	10/27/2026	105.85573	104.5810941	103.3373343	102.1233368	100.9380405	99.78043403	98.6495533	97.54447844	96.46433144
231027A00021	10/27/2023	5.13	10/30/2025	101.17793	100.9244961	100.6723345	100.4214318	100.1717788	99.92336619	99.67618468	99.4302252	99.1854787
231027A00028	10/27/2023	4.92	10/23/2028	115.80012	112.3849181	109.0907956	105.9127038	102.8458427	99.88564382	97.02775723	94.26803967	91.60254307
231027A00035	10/27/2023	4.99	10/30/2026	105.89655	104.6133125	103.3613505	102.1395316	100.9467747	99.7820497	98.64437495	97.53281401	96.44647334
231027A00036	10/27/2023	5.13	11/3/2025	101.23069	100.9661157	100.7029252	100.4411096	100.180658	99.92155984	99.66380455	99.4073817	99.15228095
231027A00043	10/27/2023	4.99	10/27/2026	105.85573	104.5810941	103.3373343	102.1233368	100.9380405	99.78043403	98.6495533	97.54447844	96.46433144
231030A00035	10/30/2023	4.85	10/30/2028	115.90825	112.4657477	109.1460057	105.9438728	102.8544545	99.8730944	96.99536012	94.21703133	91.53408776
231031A00021	10/31/2023	5.18	10/30/2025	101.19056	100.9371073	100.6849244	100.4340007	100.1843266	99.93589298	99.68869057	99.44271027	99.19794304
231031A00022	10/31/2023	5.04	10/30/2026	105.95973	104.6760633	103.423687	102.2014608	101.0083034	99.8431845	98.7051222	97.59317997	96.50646407

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	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
231031A00033	10/31/2023	5.05	10/30/2026	105.97236	104.6886135	103.4361543	102.2138467	101.0206091	99.85541146	98.71727166	97.60525316	96.51846221
231031A00040	4/30/2024	5.1	10/31/2025	101.18329	100.927086	100.6721757	100.4185497	100.1661984	99.91511227	99.6652818	99.41669764	99.16935052
231101A00016	11/1/2023	4.99	11/3/2025	101.21192	100.9471747	100.6838203	100.421844	100.1612349	99.90198232	99.64407568	99.38750446	99.13225827
231102A00022	11/2/2023	4.91	11/10/2026	105.95112	104.6410006	103.3598164	102.1066052	100.8804487	99.68046879	98.50582571	97.35571548	96.22936826
231102A00024	11/2/2023	4.78	11/2/2028	115.4717	112.03378	108.7186499	105.5211627	102.4364236	99.45977529	96.58678405	93.81322774	91.13508398
231102A00025	11/2/2023	4.9	12/8/2026	106.3324	104.9503426	103.5930466	102.2598981	100.9503067	99.66370097	98.39952747	97.15725011	95.93634952
231102A00026	11/2/2023	4.9	1/12/2027	106.81384	105.3331706	103.8806775	102.4556228	101.0572959	99.68501015	98.33810206	97.01593013	95.71787406
231102A00027	11/2/2023	4.89	2/9/2027	107.19363	105.6311775	104.099717	102.5983983	101.126403	99.6829417	98.26725323	96.87860284	95.51628133
231102A00028	11/2/2023	4.88	3/9/2027	107.58532	105.9375913	104.3234738	102.7420044	101.1922574	99.67334184	98.18439982	96.72460525	95.29316214
231102A00029	11/2/2023	4.88	4/13/2027	108.07051	106.3218149	104.6102031	102.9345606	101.293817	99.68694437	98.11295557	96.57090196	95.05987155
231102A00030	11/2/2023	4.87	5/11/2027	108.4416	106.6114079	104.8213555	103.0702493	101.3569384	99.68031599	98.03931801	96.43292065	94.86013854
231102A00031	11/2/2023	5.1	11/3/2025	101.22278	100.958217	100.6950401	100.433238	100.1727999	99.91371521	99.65597333	99.39956382	99.14447636
231102A00032	11/2/2023	4.91	11/2/2026	105.83731	104.5469544	103.2875024	102.0578511	100.8569465	99.6837839	98.537405	97.41689533	96.32138176
231102A00033	11/2/2023	4.83	11/2/2027	110.74833	108.4078421	106.1292284	103.9103984	101.7493481	99.6441579	97.59298856	95.59407681	93.64573161
231102A00039	11/2/2023	4.91	10/28/2026	105.7687	104.4918658	103.2460262	102.0300648	100.8429142	99.68355709	98.55102375	97.44438911	96.36277025
231102A00064	1/22/2024	5.01	1/22/2026	102.23583	101.747491	101.2638375	100.7847978	100.3103059	99.84029701	99.37470769	98.91347565	98.45653976
231102A00070	2/15/2024	4.86	2/16/2027	107.25125	105.6671685	104.114721	102.5930306	101.1012523	99.63857189	98.20420425	96.79739216	95.41740505
231103A00002	11/3/2023	4.67	11/29/2027	110.74251	108.3252178	105.9736088	103.6855379	101.4589389	99.29182448	97.18228338	95.12847667	93.12863467
231103A00007	11/3/2023	5.05	8/4/2025	100.05583	100.0446935	100.0335716	100.0224603	100.0113597	100.0002695	99.98918996	99.97812093	99.96706241
231103A00008	11/3/2023	4.97	11/3/2025	101.18849	100.9239891	100.6608712	100.3991278	100.1387483	99.87972184	99.62203801	99.36568634	99.11065648
231103A00029	11/3/2023	4.75	11/3/2026	105.64762	104.3561606	103.0953414	101.8640713	100.6613136	99.48607998	98.33742732	97.21445539	96.11630434
231103A00034	11/3/2023	4.49	11/3/2028	114.77315	111.3379161	108.0257005	104.8313438	101.7499364	98.7768063	95.90750613	93.13780072	90.46365526
231106A00007	11/6/2023	4.78	11/5/2027	110.67505	108.3268847	106.040992	103.8152774	101.647731	99.53642663	97.47951797	95.47523425	93.52187655
231106A00020	11/6/2023	5.02	11/6/2025	101.2405	100.9676124	100.6962028	100.4262595	100.1577709	99.89072495	99.62511013	99.36091485	99.09812771
231107A00009	11/7/2023	5.03	11/7/2025	101.25619	100.9805071	100.7063353	100.4336608	100.1624714	99.89275498	99.62449938	99.35769273	99.09232324
231107A00011	11/7/2023	4.84	11/9/2026	105.84651	104.5394831	103.2616214	102.0119505	100.7895352	99.59348178	98.42293567	97.27707922	96.15512972
231108A00015	11/8/2023	4.83	11/9/2026	105.8336	104.5266598	103.2488844	101.9992983	100.7769664	99.580995	98.41052955	97.26475244	96.14288101
231108A00026	11/8/2023	5.04	11/7/2025	101.25894	100.9832507	100.709074	100.4363947	100.1652005	99.89547924	99.62721887	99.36040746	99.09503324
231108A00028	11/8/2023	4.83	11/9/2026	105.8336	104.5266598	103.2488844	101.9992983	100.7769664	99.580995	98.41052955	97.26475244	96.14288101
231109A00025	11/9/2023	4.75	11/9/2028	114.90432	111.5671131	108.3502187	105.2486259	102.2575577	99.37246153	96.58899679	93.90302419	91.31059524
231113A00034	11/13/2023	5.16	11/13/2025	101.37188	101.079384	100.7885878	100.499478	100.2120398	99.92625873	99.64212033	99.35961037	99.07871477
231113A00038	11/13/2023	4.97	11/13/2026	106.07193	104.7538561	103.4639873	102.2014167	100.9652776	99.75474003	98.56900914	97.40732301	96.26895108
231114A00006	11/14/2024	4.67	11/14/2031	127.43318	120.5484499	114.094946	108.0431754	102.3658162	97.03754864	92.03489787	87.33609018	82.92092095

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	Parallel-Shift Sensitivity Analysis												
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
231114A00007	11/14/2024	4.89	11/14/2034	138.85022	128.4375254	118.9352678	110.2577951	102.3279711	95.07628973	88.4400831	82.3628144	76.79344805
231114A00046	11/14/2023	4.62	11/14/2028	115.09681	111.6305872	108.2893246	105.0677922	101.9610139	98.96425112	96.07298972	93.28292806	90.58996554
231114A00072	11/14/2023	4.67	11/15/2027	110.55617	108.1809532	105.869385	103.6193487	101.4288127	99.29582734	97.21852112	95.19509665	93.2238273
231114A00074	11/14/2023	4.6	11/14/2028	115.03022	111.565102	108.2249168	105.0044329	101.8986754	98.90290636	96.0126128	93.22349391	90.53144993
231115A00039	11/15/2023	4.85	11/16/2026	105.95785	104.6334306	103.3364575	102.0660819	100.8214896	99.60190022	98.40656475	97.2347645	96.08580933
231117A00001	11/17/2023	4.99	11/12/2025	101.30947	101.0198602	100.7319153	100.4456245	100.1609737	99.87794844	99.59653491	99.31671923	99.03848772
231117A00002	11/17/2023	4.76	11/12/2026	105.78466	104.4709293	103.1856171	101.9277996	100.6965935	99.49115384	98.3106712	97.1543704	96.02150842
231117A00003	11/17/2023	4.59	11/17/2028	115.0348	111.5609897	108.212695	104.9846687	101.8719136	98.86966984	95.97340258	93.17878954	90.48170987
231121A00015	11/21/2023	4.75	11/30/2026	106.0198	104.6616584	103.327507	102.016765	100.7288678	99.46326878	98.219438	96.99686211	95.79504346
231122A00029	11/22/2023	5.05	11/24/2025	101.48304	101.1598352	100.8387012	100.5196138	100.2025533	99.88750034	99.57443593	99.26334121	98.95419758
231127A00024	11/27/2023	4.78	11/27/2026	106.01867	104.6676671	103.3413945	102.0392135	100.760505	99.50467162	98.27113568	97.05933906	95.86874207
231127A00025	11/27/2023	4.68	11/29/2027	110.76609	108.3485077	105.9966229	103.7082822	101.4814189	99.31404573	97.20425123	95.1501963	93.15011112
231127A00026	11/27/2023	4.61	11/27/2028	115.22839	111.7225648	108.3443155	105.0883135	101.9494835	98.9229887	96.00421798	93.18877409	90.47246261
231127A00065	11/27/2023	5.03	11/26/2025	101.50252	101.1737324	100.8470789	100.5225394	100.2000932	99.87972033	99.56140064	99.24511447	98.93084234
231128A00002	11/28/2023	4.41	11/30/2028	114.84241	111.3282813	107.942507	104.679725	101.5348243	98.50293284	95.57940562	92.7598126	90.03992768
231128A00003	11/28/2023	4.41	11/30/2028	114.84241	111.3282813	107.942507	104.679725	101.5348243	98.50293284	95.57940562	92.7598126	90.03992768
231128A00009	11/28/2023	4.73	12/14/2026	106.1791	104.7818798	103.4099466	102.0626742	100.7394539	99.43969661	98.16283191	96.90830758	95.67558874
231129A00006	11/29/2023	4.25	11/29/2028	114.29003	110.7880776	107.4140309	104.1625414	101.028514	98.00709271	95.09364772	92.28376395	89.57322975
231130A00072	11/30/2023	4.83	12/1/2025	101.49918	101.1565511	100.8162326	100.4782029	100.142439	99.80891811	99.47761793	99.1485163	98.82159141
231130A00073	11/30/2023	4.61	11/30/2026	105.83091	104.4741056	103.1412696	101.8318208	100.5451952	99.28084666	98.0382459	96.81688008	95.61625211
231130A00074	11/30/2023	4.45	11/30/2028	114.72661	111.2206046	107.8425396	104.5870701	101.4491058	98.42379495	95.50651111	92.69284198	89.97857814
231201A00024	12/1/2023	4.36	12/1/2028	114.43457	110.9307257	107.5548745	104.3016728	101.1660237	98.14306891	95.22817641	92.41692847	89.70511075
231201A00026	12/1/2023	4.51	12/1/2026	105.70869	104.3500434	103.0154459	101.7043082	100.4160636	99.15016347	97.90607607	96.68328623	95.48129459
231201A00034	12/1/2023	4.62	3/2/2026	102.49784	101.9009222	101.3109702	100.727858	100.1514669	99.58168129	99.01838787	98.46147608	97.91083783
231205A00025	12/5/2023	4.61	12/15/2025	101.61732	101.2354248	100.8564149	100.4802589	100.1069245	99.73637987	99.36859359	99.00353479	98.64117305
231206A00012	12/6/2023	4.31	12/6/2028	114.32316	110.8073621	107.42049	104.1571372	101.0121517	97.98062343	95.05787191	92.23943403	89.52105295
231206A00044	12/8/2023	4.71	12/8/2025	101.54363	101.1815635	100.8220884	100.4651779	100.1108044	99.75894076	99.40956038	99.06263688	98.71814431
231206A00046	12/6/2023	4.39	12/6/2027	110.16793	107.7382332	105.3750788	103.0762799	100.8397323	98.66341265	96.54537495	94.4837473	92.47672845
231206A00047	12/6/2023	4.31	12/6/2028	114.32316	110.8073621	107.42049	104.1571372	101.0121517	97.98062343	95.05787191	92.23943403	89.52105295
231206A00070	12/6/2023	4.71	12/8/2025	101.54363	101.1815635	100.8220884	100.4651779	100.1108044	99.75894076	99.40956038	99.06263688	98.71814431
231207A00010	12/7/2023	4.38	12/7/2027	110.15629	107.7239882	105.3583747	103.0572509	100.8185059	98.64011015	96.52011181	94.45663332	92.44786816
231207A00011	12/7/2023	4.28	12/7/2028	114.23285	110.7158095	107.3278552	104.0635641	100.9177741	97.88556589	94.96225015	92.14335565	89.42461789
231207A00014	12/7/2023	4.7	12/8/2025	101.54002	101.1779632	100.8184961	100.4615934	100.1072278	99.75537195	99.40599932	99.05908353	98.71459864

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	Parallel-Shift Sensitivity Analysis											
7/31/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
231207A00016	12/7/2023	4.47	12/7/2026	105.73013	104.3551057	103.0046781	101.6782379	100.3751999	99.09499735	97.83708165	96.6009212	95.38600094
231207A00034	12/7/2023	4.7	12/5/2025	101.5035	101.1498107	100.7985929	100.4498203	100.1034674	99.75950903	99.41792025	99.07867663	98.74175399
231207A00035	12/7/2023	4.47	12/7/2026	105.73013	104.3551057	103.0046781	101.6782379	100.3751999	99.09499735	97.83708165	96.6009212	95.38600094
231208A00021	3/15/2024	4.75	9/15/2025	100.5449	100.4170188	100.2894795	100.1622792	100.0354165	99.90888994	99.78269824	99.65684	99.53131386
231208A00022	3/15/2024	4.69	12/15/2025	101.62125	101.2396453	100.8609257	100.4850541	100.1119983	99.74172659	99.37420771	99.0094109	98.64730586
231208A00023	3/15/2024	4.61	3/16/2026	102.65145	102.0154389	101.3873309	100.7669817	100.1542478	99.54898915	98.95106933	98.3603551	97.77671646
231211A00057	12/11/2023	4.58	12/11/2029	119.75717	115.0847104	110.6262114	106.3707373	102.3079649	98.42814852	94.722085	91.1810807	87.79692068
231212A00016	12/12/2023	4.59	12/7/2026	105.89436	104.5181584	103.1665727	101.8389941	100.5348366	99.2535333	97.99453485	96.75730922	95.5413409
231212A00018	12/12/2023	4.5	12/6/2027	110.42935	107.9965059	105.6302703	103.3284559	101.0889563	98.90974643	96.78887843	94.72447866	92.71474421
231212A00067	12/12/2023	4.82	12/12/2025	101.63335	101.2600173	100.8894448	100.5215983	100.1564479	99.79396376	99.43411662	99.07687766	98.72221844
231213A00049	12/13/2023	4.14	12/13/2028	113.82386	110.2971842	106.9005839	103.6285706	100.4759197	97.43765347	94.50902815	91.68552142	88.9628211
231214A00036	12/14/2023	4.19	12/14/2026	105.4296	104.0378269	102.6712463	101.3292357	100.0111888	98.7165189	97.44465794	96.1950559	94.96718001
231214A00075	12/14/2023	4.49	12/15/2025	101.5452	101.1637739	100.7852282	100.4095296	100.0366457	99.66654506	99.29919629	98.93456869	98.57263194
231215A00004	12/15/2023	4.07	12/15/2028	113.6068	110.0783014	106.6801701	103.4068977	100.2532399	97.21420068	94.28501918	91.46115717	88.73828757
231215A00018	12/15/2023	4.19	12/15/2027	109.79697	107.347109	104.9649981	102.6483867	100.3951129	98.20309885	96.07034711	93.9949368	91.97502033
231218A00052	12/18/2023	4.54	12/18/2025	101.59939	101.2095408	100.822695	100.4388202	100.0578823	99.67984736	99.30468222	98.93235414	98.56283087
231219A00016	12/19/2023	4.27	12/18/2026	105.58878	104.1850205	102.8068515	101.4536286	100.1247321	98.81956243	97.53753951	96.27810156	95.04070462
231219A00017	12/19/2023	4.26	1/15/2027	105.91001	104.4281535	102.9746537	101.5487691	100.1497808	98.77699456	97.42973944	96.10736693	94.80925007
231219A00018	12/19/2023	4.25	2/16/2027	106.29655	104.7202226	103.1753897	101.6611807	100.1767542	98.7212995	97.29403482	95.89420618	94.52108614
231219A00019	12/19/2023	4.17	12/15/2027	109.74894	107.2996634	104.9181241	102.6020721	100.3493457	98.15786767	96.02564071	93.95074432	91.93133123
231219A00020	12/19/2023	4.16	2/1/2028	110.27552	107.6882099	105.1760575	102.736435	100.3668252	98.06481421	95.82808662	93.65442063	91.54168376
231219A00021	12/19/2023	4.14	3/15/2028	110.73948	108.0225848	105.3871935	102.8303494	100.3492229	97.94110615	95.60340699	93.33364301	91.1294361
231219A00022	12/19/2023	4.13	4/14/2028	111.05847	108.2535917	105.5348714	102.8990987	100.3432068	97.86426475	95.4594712	93.12614695	90.86172884
231219A00023	12/19/2023	4.12	6/15/2028	111.73482	108.7470903	105.8559863	103.0578596	100.3492241	97.72674323	95.1872235	92.72760705	90.34496531
231219A00025	12/19/2023	4.06	12/15/2028	113.57264	110.0447286	106.6471633	103.3744414	100.2213192	97.18280123	94.2541271	91.43075906	88.70837049
231219A00060	12/19/2023	4.22	6/21/2027	107.76386	105.8262732	103.9334896	102.0842068	100.2771673	98.51115832	96.78500962	95.09759192	93.44781509
231220A00028	12/20/2023	4.13	12/20/2027	109.71002	107.2475323	104.8534989	102.5256346	100.2617443	98.05971881	95.91753066	93.83323074	91.80494465
231220A00030	12/20/2023	4.48	12/22/2025	101.62232	101.2213411	100.823538	100.4288728	100.0373084	99.64880823	99.26333633	98.88085725	98.50133614
231220A00031	12/20/2023	4.23	12/21/2026	105.56858	104.1568588	102.7709963	101.4103463	100.0742796	98.76218759	97.47348116	96.20759018	94.96396261
231220A00032	12/20/2023	4.57	12/19/2025	101.62305	101.2303748	100.8407458	100.4541297	100.0704914	99.68979647	99.31201102	98.93710165	98.56503547
231221A00006	12/21/2023	4.14	12/21/2026	105.44192	104.0311313	102.6461851	101.2864357	99.95125457	98.64003327	97.35218322	96.08713463	94.84433585
231221A00008	12/21/2023	3.99	12/21/2028	113.39714	109.8556767	106.4456675	103.161534	99.99796572	96.94990482	94.01253234	91.18125585	88.45169748
231221A00014	12/21/2023	4.14	6/21/2027	107.61096	105.6748746	103.7835604	101.9357192	100.1300944	98.36547378	96.64068799	94.9546084	93.30614552

Classification | Public

	Parallel-Shift Sensitivity Analysis											
7/31/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
231221A00022	12/21/2023	4.01	12/21/2028	112.39136	109.1261262	105.9809917	102.9508236	100.0307351	97.2160754	94.50241709	91.88554405	89.36144006
231221A00039	12/21/2023	3.99	12/21/2028	113.39714	109.8556767	106.4456675	103.161534	99.99796572	96.94990482	94.01253234	91.18125585	88.45169748
231221A00103	12/21/2023	4.3	12/30/2025	101.66823	101.2446422	100.8245866	100.4080168	99.99488956	99.5851623	99.17879315	98.77574097	98.37596524
231221A00104	12/21/2023	4.3	12/30/2025	101.66823	101.2446422	100.8245866	100.4080168	99.99488956	99.5851623	99.17879315	98.77574097	98.37596524
231222A00004	12/22/2023	4	12/22/2028	113.44208	109.8970945	106.4837777	103.1965428	100.0300672	96.97928113	94.03935494	91.20568593	88.47388667
231222A00039	12/22/2023	4.44	12/22/2025	101.60633	101.2053939	100.8076289	100.4130017	100.021475	99.6330124	99.2475778	98.86513582	98.4856516
231226A00016	12/26/2023	3.92	12/26/2028	113.14083	109.6584361	106.3070775	103.0810774	99.97503425	96.98381007	94.10251596	91.32649861	88.6513276
231226A00024	12/26/2023	4.03	12/26/2028	113.58796	110.0294278	106.6034352	103.3043362	100.1267587	97.06558703	94.11594832	91.27319936	88.53291472
231226A00027	12/26/2023	4.22	12/28/2026	105.63778	104.2065902	102.8019272	101.4231178	100.0695099	98.74047257	97.43539565	96.15368872	94.89478031
231226A00043	12/26/2023	4.46	12/26/2025	101.66034	101.2481932	100.8393922	100.4338986	100.0316723	99.632674	99.23686478	98.84420648	98.45466151
231226A00095	12/26/2023	4.22	12/28/2026	105.63778	104.2065902	102.8019272	101.4231178	100.0695099	98.74047257	97.43539565	96.15368872	94.89478031
231227A00005	12/27/2023	4.17	12/28/2026	105.56645	104.135787	102.7316468	101.3533514	100.0002487	98.67170808	97.36711969	96.08589327	94.82745758
231227A00014	12/27/2023	4.29	12/26/2025	101.61911	101.2067276	100.7977009	100.3919878	99.98954805	99.59034207	99.19433091	98.80147625	98.41174039
231227A00023	12/27/2023	3.98	12/27/2028	113.42623	109.86772	106.4418706	103.143027	99.965808	96.90508954	93.95599078	91.11386122	88.37426863
231227A00027	12/27/2023	4.42	12/26/2025	101.64391	101.2318045	100.8230437	100.4175901	100.0154036	99.61644484	99.22067493	98.8280557	98.43854958
231228A00023	12/28/2023	4.4	12/26/2025	101.6357	101.2236101	100.8148695	100.4094359	100.0072693	99.60833026	99.21258	98.81998031	98.43049362
231228A00024	12/28/2023	4.15	12/28/2026	105.53791	104.1074658	102.7035347	101.3254448	99.97254416	98.64420228	97.3398093	96.05877509	94.80052849
231228A00025	12/28/2023	4.05	12/28/2027	109.60644	107.1233267	104.7098085	102.3635465	100.0822916	97.86388313	95.70624535	93.6073831	91.56537837
231215A00026	1/17/2025	3.71	1/15/2027	105.09793	103.6223182	102.1749564	100.7551042	99.3620456	97.99508913	96.65356649	95.33683175	94.04426039
231228A00026	12/28/2023	3.96	12/28/2028	113.36777	109.8075061	106.3800757	103.0798108	99.90131936	96.83946727	93.88936424	91.046351	88.30598708
231229A00017	12/29/2023	4.42	12/29/2025	101.67809	101.2575847	100.8405586	100.4269685	100.0167721	99.60992768	99.20639428	98.80613159	98.40909996
231229A00068	12/29/2023	4.42	12/29/2025	101.67809	101.2575847	100.8405586	100.4269685	100.0167721	99.60992768	99.20639428	98.80613159	98.40909996
231229A00070	12/29/2023	4.42	12/29/2025	101.67809	101.2575847	100.8405586	100.4269685	100.0167721	99.60992768	99.20639428	98.80613159	98.40909996
231229A00071	12/29/2023	4.42	12/29/2025	101.67809	101.2575847	100.8405586	100.4269685	100.0167721	99.60992768	99.20639428	98.80613159	98.40909996
240102A00055	1/2/2024	4.23	1/4/2027	105.73526	104.2844356	102.8608378	101.4637633	100.0925348	98.74649777	97.42501929	96.12748716	94.85330911
240103A00004	1/3/2024	4.48	1/5/2026	101.78361	101.3435205	100.9072399	100.4747225	100.0459195	99.62078306	99.19926633	98.78132309	98.36690794
240103A00005	1/3/2024	4.28	1/4/2027	105.80756	104.3561935	102.9320594	101.5344578	100.1627111	98.81616461	97.4941851	96.19616017	94.92149735
240103A00010	1/3/2024	4.84	1/18/2039	148.53438	133.4894748	120.2477688	108.5780635	98.28016894	89.18058875	81.12882644	73.99421994	67.6632263
240103A00011	1/3/2024	4.84	1/18/2039	148.53438	133.4894748	120.2477688	108.5780635	98.28016894	89.18058875	81.12882644	73.99421994	67.6632263
240103A00018	1/3/2024	4.28	1/4/2027	105.80756	104.3561935	102.9320594	101.5344578	100.1627111	98.81616461	97.4941851	96.19616017	94.92149735
240103A00025	1/3/2024	4.48	1/2/2026	101.74926	101.3175337	100.8894731	100.465031	100.0441614	99.6268195	99.212961	98.80254239	98.39552089
240103A00026	1/3/2024	4.28	1/4/2027	105.80756	104.3561935	102.9320594	101.5344578	100.1627111	98.81616461	97.4941851	96.19616017	94.92149735
240103A00039	6/28/2024	4.11	10/29/2025	100.91003	100.6598104	100.4108356	100.1630931	99.91657362	99.67126817	99.42716781	99.18426368	98.94254701

Classification | Public

	Parallel-Shift Sensitivity Analysis												
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240103A00042	6/28/2024	4.11	10/29/2025	100.91003	100.6598104	100.4108356	100.1630931	99.91657362	99.67126817	99.42716781	99.18426368	98.94254701
240103A00043	6/28/2024	4.11	10/29/2025	100.91003	100.6598104	100.4108356	100.1630931	99.91657362	99.67126817	99.42716781	99.18426368	98.94254701
240103A00044	6/28/2024	4.11	10/29/2025	100.91003	100.6598104	100.4108356	100.1630931	99.91657362	99.67126817	99.42716781	99.18426368	98.94254701
240103A00045	6/28/2024	4.11	10/29/2025	100.91003	100.6598104	100.4108356	100.1630931	99.91657362	99.67126817	99.42716781	99.18426368	98.94254701
240103A00047	6/28/2024	4.05	1/29/2026	101.84146	101.3348796	100.8333422	100.3367701	99.84508966	99.35822893	98.87611724	98.39868533	97.92586529
240103A00049	6/28/2024	4.05	1/29/2026	101.84146	101.3348796	100.8333422	100.3367701	99.84508966	99.35822893	98.87611724	98.39868533	97.92586529
240103A00050	6/28/2024	4.05	1/29/2026	101.84146	101.3348796	100.8333422	100.3367701	99.84508966	99.35822893	98.87611724	98.39868533	97.92586529
240103A00051	6/28/2024	4.05	1/29/2026	101.84146	101.3348796	100.8333422	100.3367701	99.84508966	99.35822893	98.87611724	98.39868533	97.92586529
240103A00052	6/28/2024	4.05	1/29/2026	101.84146	101.3348796	100.8333422	100.3367701	99.84508966	99.35822893	98.87611724	98.39868533	97.92586529
240103A00054	6/28/2024	3.94	6/29/2026	103.2752	102.347208	101.4359157	100.5408711	99.66164208	98.79781198	97.94897853	97.11475339	96.29476153
240103A00056	6/28/2024	3.94	6/29/2026	103.2752	102.347208	101.4359157	100.5408711	99.66164208	98.79781198	97.94897853	97.11475339	96.29476153
240103A00057	6/28/2024	3.94	6/29/2026	103.2752	102.347208	101.4359157	100.5408711	99.66164208	98.79781198	97.94897853	97.11475339	96.29476153
240103A00058	6/28/2024	3.94	6/29/2026	103.2752	102.347208	101.4359157	100.5408711	99.66164208	98.79781198	97.94897853	97.11475339	96.29476153
240103A00059	6/28/2024	3.94	6/29/2026	103.2752	102.347208	101.4359157	100.5408711	99.66164208	98.79781198	97.94897853	97.11475339	96.29476153
240104A00070	12/13/2024	3.83	3/5/2027	105.83755	104.2153265	102.6260921	101.0689036	99.54285749	98.04708356	96.58074404	95.14303179	93.73316898
240105A00017	1/5/2024	4.29	1/5/2027	105.83405	104.3797807	102.9528511	101.5525538	100.1782077	98.82915415	97.5047567	96.20439963	94.92748728
240108A00022	1/8/2024	4.46	1/8/2026	101.80903	101.3605882	100.9161076	100.4755359	100.0388216	99.60591404	99.17676349	98.75132103	98.32953862
240108A00023	1/8/2024	4.27	1/8/2027	105.84098	104.3785631	102.9437839	101.5359283	100.154304	98.79824199	97.46709543	96.16023895	94.87706763
240108A00038	1/8/2024	4.13	1/8/2029	114.07469	110.4719645	107.0046435	103.6669053	100.453212	97.35829256	94.37712852	91.50494049	88.7371754
240108A00040	1/8/2024	4.13	1/8/2029	114.07469	110.4719645	107.0046435	103.6669053	100.453212	97.35829256	94.37712852	91.50494049	88.7371754
240108A00041	1/9/2024	4.13	1/9/2029	114.08559	110.4799247	107.0098729	103.669601	100.4535585	97.35646244	94.37328339	91.4992316	88.72974433
240109A00025	1/9/2024	4.47	1/9/2026	101.82492	101.373675	100.9264408	100.4831647	100.043794	99.60827714	99.17656347	98.74860315	98.32434723
240109A00042	1/9/2024	3.99	1/9/2029	113.85533	110.2471837	106.7749339	103.4327279	100.2149976	97.11644393	94.13202197	91.25692771	88.48658502
240109A00048	1/9/2024	4.12	1/9/2029	114.05074	110.4456829	106.9762196	103.6365198	100.4210337	97.32447886	94.34182642	91.46828712	88.69929872
240110A00001	1/10/2024	4.42	1/9/2026	101.80244	101.3512571	100.9040821	100.4608646	100.0215522	99.58609337	99.1544373	98.72653421	98.30233516
240110A00010	1/10/2024	4.42	1/12/2026	101.83629	101.3767309	100.92133	100.4700345	100.022789	99.57953895	99.14023072	98.70481177	98.27323042
240110A00021	1/10/2024	4.13	1/10/2028	109.94913	107.4262849	104.9751032	102.5931369	100.278039	98.02755644	95.83952569	93.71186871	91.64258894
240111A00025	1/11/2024	4.19	1/11/2027	105.75966	104.2897586	102.8477909	101.433028	100.0447667	98.68232758	97.34505389	96.03231076	94.74348417
240111A00031	1/11/2024	4.19	1/11/2027	105.75966	104.2897586	102.8477909	101.433028	100.0447667	98.68232758	97.34505389	96.03231076	94.74348417
240111A00046	12/13/2024	3.68	3/19/2027	105.74178	104.0824809	102.457437	100.865649	99.30616025	97.77805066	96.2804351	94.81246161	93.37330986
240112A00022	1/12/2024	4.24	1/12/2026	101.75388	101.2945369	100.8393559	100.3882789	99.94125042	99.49821597	99.05912201	98.62391595	98.19254614
240112A00036	1/12/2024	4.07	1/12/2027	105.59522	104.1238808	102.6805507	101.2645017	99.87502743	98.51144535	97.17309589	95.8593414	94.56956527
240112A00040	1/12/2024	4.24	1/12/2026	101.75388	101.2945369	100.8393559	100.3882789	99.94125042	99.49821597	99.05912201	98.62391595	98.19254614

Classification | Public

	Parallel-Shift Sensitivity Analysis												
7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240112A00044	1/12/2024	4.24	1/12/2026	101.75388	101.2945369	100.8393559	100.3882789	99.94125042	99.49821597	99.05912201	98.62391595	98.19254614
240112A00052	1/12/2024	4.07	1/12/2027	105.59522	104.1238808	102.6805507	101.2645017	99.87502743	98.51144535	97.17309589	95.8593414	94.56956527
240117A00021	1/17/2024	4.06	1/17/2029	114.18693	110.550919	107.0526182	103.6860639	100.4455816	97.32577256	94.3214989	91.42786948	88.64022665
240117A00023	1/17/2024	4.13	1/19/2027	105.86997	104.375877	102.910608	101.4733995	100.0635155	98.6802454	97.32290255	95.99082357	94.68336725
240117A00054	1/17/2024	4.22	1/18/2028	110.26446	107.7157906	105.240107	102.8348943	100.4977425	98.22633878	96.01846335	93.87198474	91.78485588
240118A00020	1/18/2024	4.25	2/18/2027	106.32289	104.7403205	103.1894341	101.6693497	100.1792184	98.71822215	97.28557244	95.88050872	94.50229737
240119A00007	1/19/2024	4.23	1/19/2029	114.54584	110.9045858	107.4012327	104.0298056	100.7846203	97.66026917	94.65160588	91.75373137	88.96198057
240119A00024	1/19/2024	4.49	1/20/2026	101.96037	101.4783478	101.0008979	100.5279551	100.0594556	99.5953368	99.13553731	98.67999684	98.22865625
240119A00028	1/19/2024	4.48	1/13/2026	101.87521	101.4127841	100.9545664	100.5005042	100.050541	99.60462125	99.16269047	98.72469512	98.2905826
240119A00029	1/19/2024	4.3	1/13/2027	105.94497	104.4682439	103.0196827	101.5985455	100.2041209	98.83572148	97.49268326	96.17436417	94.88014339
240119A00044	1/23/2024	4.23	1/23/2029	114.59055	110.9374655	107.4231364	104.0415305	100.7869123	97.65382598	94.63708017	91.7317338	88.93308247
240122A00006	1/22/2024	4.25	1/22/2027	105.97866	104.4773367	103.0051022	101.5611816	100.144829	98.75532441	97.39197227	96.05410062	94.74106005
240122A00050	1/22/2024	4.25	1/22/2027	105.97866	104.4773367	103.0051022	101.5611816	100.144829	98.75532441	97.39197227	96.05410062	94.74106005
240123A00037	1/23/2024	4.2	1/17/2029	114.41828	110.7847749	107.288695	103.9240935	100.6853138	97.56697374	94.56395121	91.67136961	88.88458496
240123A00057	1/23/2024	4.48	1/23/2026	101.98991	101.499509	101.0138312	100.5328133	100.0563883	99.58449045	99.11705538	98.65401981	98.19532171
240125A00007	1/25/2024	4.27	1/25/2027	106.04449	104.5345349	103.0539861	101.6020575	100.1779917	98.78105709	97.4105475	96.06578063	94.74609722
240125A00040	1/25/2024	4.24	12/15/2026	105.51095	104.1158805	102.7461072	101.4010027	100.0799573	98.78238084	97.50770227	96.25536846	95.02484374
240125A00068	1/25/2024	4.11	1/25/2028	110.25175	107.680253	105.1830121	102.7574479	100.4010882	98.11156194	95.8865938	93.72400009	91.62168424
240125A00069	1/25/2024	4.11	1/25/2028	110.25175	107.680253	105.1830121	102.7574479	100.4010882	98.11156194	95.8865938	93.72400009	91.62168424
240126A00031	1/26/2024	4.31	1/26/2026	101.97416	101.4750833	100.9808987	100.4915365	100.0069262	99.52699878	99.05168638	98.58092259	98.11464224
240126A00032	1/26/2024	4.31	1/26/2026	101.97416	101.4750833	100.9808987	100.4915365	100.0069262	99.52699878	99.05168638	98.58092259	98.11464224
240130A00034	1/30/2024	4.43	10/30/2025	101.01843	100.765077	100.5129967	100.2621774	100.0126099	99.76428473	99.51719264	99.27132448	99.02667118
240130A00044	1/30/2024	4.14	1/30/2029	114.34993	110.6817635	107.1536909	103.7595887	100.4936359	97.35029716	94.32430701	91.41065516	88.60457268
240130A00047	1/30/2024	4.01	1/30/2029	114.15154	110.4802166	106.9493014	103.5526477	100.2844154	97.13905133	94.11127343	91.19605579	88.38861489
240130A00057	1/30/2024	4.15	1/29/2027	106.01813	104.4957827	103.0033105	101.5399138	100.1048171	98.69727226	97.31655675	95.96197297	94.63284697
240130A00059	1/30/2024	4.33	1/30/2026	102.02899	101.5186795	101.0134725	100.5132959	100.018075	99.52773618	99.04220761	98.56141869	98.08530024
240130A00068	1/30/2024	4.17	1/30/2029	114.45622	110.7861731	107.2562775	103.8604034	100.5927281	97.44771436	94.42009508	91.50485833	88.69723363
240130A00070	1/30/2024	4.33	1/30/2026	102.02899	101.5186795	101.0134725	100.5132959	100.018075	99.52773618	99.04220761	98.56141869	98.08530024
240130A00089	1/30/2024	4.17	1/30/2029	114.45622	110.7861731	107.2562775	103.8604034	100.5927281	97.44771436	94.42009508	91.50485833	88.69723363
240131A00013	1/31/2024	4.13	2/1/2027	105.91624	104.3880666	102.8899952	101.4212097	99.98092573	98.56838661	97.18286184	95.82364609	94.49005808
240131A00014	1/31/2024	4.04	1/31/2029	114.0063	110.3414487	106.8167315	103.4260136	100.1634672	97.02355063	94.00099284	91.09077834	88.2881335
240131A00015	1/31/2024	4.02	1/31/2029	109.25839	106.8188801	104.4590737	102.1757505	99.96584209	97.82642398	95.75470785	93.74803436	91.80386638
240131A00022	3/1/2024	4.13	3/1/2027	106.27448	104.6594533	103.0771154	101.5265416	100.0068413	98.51715714	97.05666297	95.62456287	94.22008956

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240131A00033	1/31/2024	4.18	1/30/2026	101.95281	101.4427257	100.9377419	100.437787	99.94278616	99.45266588	98.96735425	98.48678075	98.01087619
240131A00034	1/31/2024	4	1/29/2027	105.79072	104.2701635	102.7794543	101.31779	99.88439599	98.47852479	97.09945477	95.74648902	94.41895432
240131A00039	1/31/2024	4.22	7/31/2026	103.89166	102.8722842	101.8729535	100.8930805	99.93210042	98.9894702	98.06466743	97.15718939	96.26655209
240131A00076	1/31/2024	4.35	1/30/2026	102.00404	101.4942281	100.9895107	100.4898136	99.99506224	99.50518343	99.02010545	98.53975796	98.06407201
240131A00080	1/31/2024	4.16	1/29/2027	105.9257	104.4058482	102.9158042	101.4547635	100.0219534	98.61662785	97.23806685	95.88557494	94.55848027
240201A00003	2/1/2024	4.17	2/2/2026	101.97945	101.4610105	100.9478428	100.439869	99.93701048	99.43919019	98.94633265	98.45836386	97.97521129
240201A00023	2/1/2024	4.5	8/1/2025	100.01627	100.0134872	100.0107076	100.0079304	100.0051556	100.0023832	99.99961326	99.9968457	99.99408054
240201A00027	2/1/2024	3.83	2/1/2029	113.53489	109.8686598	106.3429378	102.951567	99.68869332	96.54875035	93.52644407	90.61673769	87.81483772
240201A00029	2/1/2024	4.52	8/1/2025	100.01635	100.0135655	100.0107858	100.0080086	100.0052338	100.0024613	99.99969133	99.99692373	99.99415853
240201A00038	2/1/2024	4.3	2/2/2026	102.01084	101.4927376	100.9799016	100.4722504	99.96970542	99.47219002	98.9796289	98.49194828	98.00907585
240201A00040	2/1/2024	4.08	2/1/2030	118.07194	113.2917398	108.7375209	104.3973619	100.2600381	96.31497295	92.55219753	88.96231193	85.53644998
240201A00042	2/1/2024	4.24	2/1/2033	128.11074	119.9566618	112.4002946	105.3942887	98.89529341	92.86359544	87.26279642	82.05951981	77.22314539
240201A00043	2/1/2024	4.27	2/1/2034	131.06928	121.7900182	113.2682265	105.4373907	98.23718329	91.6128578	85.51470516	79.89756592	74.7203919
240201A00052	2/1/2024	4.5	8/1/2025	100.01627	100.0134872	100.0107076	100.0079304	100.0051556	100.0023832	99.99961326	99.9968457	99.99408054
240201A00056	2/1/2024	4.3	2/2/2026	102.01084	101.4927376	100.9799016	100.4722504	99.96970542	99.47219002	98.9796289	98.49194828	98.00907585
240201A00061	2/1/2024	4.5	8/1/2025	100.01627	100.0134872	100.0107076	100.0079304	100.0051556	100.0023832	99.99961326	99.9968457	99.99408054
240201A00064	2/1/2024	4.51	8/1/2025	100.01631	100.0135264	100.0107467	100.0079695	100.0051947	100.0024223	99.9996523	99.99688471	99.99411953
240201A00065	2/1/2024	4.33	2/2/2026	102.02632	101.5081735	100.9952916	100.4875948	99.98500466	99.48744437	98.99483868	98.5071138	98.02419744
240202A00014	2/2/2024	4.51	8/1/2025	100.0165	100.0137126	100.010931	100.0081519	100.0053752	100.002601	99.99982913	99.99705974	99.99429277
240202A00016	2/2/2024	4.25	2/2/2027	106.11223	104.5794993	103.0769859	101.6038693	100.159361	98.74269985	97.3531516	95.9900071	94.65258151
240202A00017	2/2/2024	4.23	8/3/2026	104.00733	102.9780281	101.9691455	100.9800806	100.010253	99.05910474	98.12609936	97.2107207	96.31247203
240202A00029	2/2/2024	4.15	2/2/2029	114.42079	110.7424941	107.204949	103.8019878	100.5277512	97.37666805	94.34343933	91.4230235	88.61062242
240202A00030	2/2/2024	4.32	2/3/2031	122.81766	116.8777228	111.2709656	105.9768439	100.9761865	96.2510975	91.78486502	87.56187673	83.56754197
240206A00017	2/6/2024	4.33	8/6/2027	108.53	106.4585621	104.4378266	102.4662215	100.5422398	98.66443135	96.83140036	95.04180316	93.29434565
240206A00026	2/6/2024	4.59	8/6/2025	100.07379	100.0570854	100.0403993	100.0237302	100.0070781	99.99044278	99.97382437	99.95722279	99.94063802
240207A00006	2/7/2024	4.06	2/7/2029	114.42541	110.7249784	107.166749	103.7444638	100.4521792	97.28424538	94.23528993	91.30020258	88.47412091
240207A00022	2/7/2024	4.25	2/7/2028	110.57896	107.970128	105.4373953	102.9780892	100.5896481	98.26961593	96.01563778	93.82545451	91.69689839
240207A00025	2/8/2024	4.2	1/8/2029	114.31842	110.7114696	107.2400359	103.898299	100.6807167	97.58201422	94.59716932	91.72139905	88.95014691
240207A00039	2/7/2024	4.55	8/7/2025	100.08437	100.0648844	100.045419	100.025974	100.0065493	99.98714475	99.96776045	99.94839631	99.92905231
240207A00040	2/7/2024	4.55	8/7/2025	100.08437	100.0648844	100.045419	100.025974	100.0065493	99.98714475	99.96776045	99.94839631	99.92905231
240208A00053	2/8/2024	4.58	2/9/2026	102.23508	101.6970014	101.164604	100.6377943	100.1164844	99.60058829	99.09002182	98.58470253	98.08454964
240208A00055	2/8/2024	4.37	2/8/2027	106.37637	104.8234856	103.3013899	101.8092377	100.3462176	98.91154674	97.50446987	96.12425823	94.77020825
240209A00007	2/9/2024	4.5	12/9/2025	101.50463	101.1396002	100.7772052	100.4174198	100.0602156	99.70556469	99.35343973	99.00381364	98.65665975

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240209A00019	2/9/2024	4.39	2/9/2027	106.42078	104.8645304	103.3391633	101.8438318	100.3777203	98.94004238	97.53003935	96.14697911	94.79015495
240209A00020	2/9/2024	4.58	2/9/2026	102.23508	101.6970014	101.164604	100.6377943	100.1164844	99.60058829	99.09002182	98.58470253	98.08454964
240212A00029	2/12/2024	4.58	2/12/2026	102.26924	101.7227865	101.1821834	100.6473416	100.118169	99.59457577	99.07647367	98.56377649	98.05639977
240213A00022	2/13/2024	4.6	8/13/2026	104.43582	103.3775926	102.3408965	101.3250793	100.3295138	99.3535975	98.39675178	97.45842048	96.5380689
240214A00001	2/14/2024	4.79	11/10/2025	101.22713	100.9432014	100.6608771	100.3801433	100.1009865	99.82339344	99.54735084	99.27284566	98.99986501
240214A00007	2/14/2024	4.7	2/17/2026	102.39313	101.8324731	101.2779743	100.7295309	100.1870436	99.6504158	99.11955261	98.59436131	98.07475117
240214A00019	2/15/2024	4.41	1/26/2029	115.2598	111.5866522	108.0532157	104.6534067	101.3814395	98.23181147	95.19928745	92.27888502	89.46586098
240215A00013	2/15/2024	4.82	8/15/2025	100.18325	100.141522	100.0998484	100.0582273	100.0166585	99.97514185	99.93367734	99.89226483	99.85090421
240215A00026	2/15/2024	4.48	2/10/2027	106.57369	105.0132052	103.4837086	101.9843547	100.5143235	99.07282452	97.65909529	96.27239999	94.9120284
240215A00033	2/15/2024	4.35	2/16/2027	106.5648	104.9844161	103.4356384	101.9175858	100.4294138	98.97030809	97.53948396	96.13618444	94.7596792
240215A00046	4/1/2024	4.49	4/1/2027	107.24408	105.5364296	103.8644873	102.2271989	100.6235501	99.05256656	97.51331151	96.00488409	94.52641753
240216A00012	2/16/2024	4.53	8/16/2027	109.06508	106.9605788	104.9079668	102.9056248	100.9519946	99.04557724	97.18493127	95.36866943	93.59545643
240220A00031	2/20/2024	4.68	2/20/2026	102.41697	101.8479467	101.2852632	100.7288119	100.1784896	99.63419529	99.09583008	98.56329731	98.0365024
240221A00014	2/21/2024	4.53	2/22/2027	106.81844	105.2197533	103.6531857	102.1178414	100.6128543	99.13739028	97.69064529	96.27184424	94.88023958
240221A00015	2/21/2024	4.48	2/22/2028	111.36365	108.7004097	106.1156706	103.6066405	101.1706441	98.80511834	96.50760729	94.27575657	92.10730856
240223A00007	2/23/2024	4.81	8/22/2025	100.26964	100.2084055	100.147264	100.0862117	100.0252483	99.96437378	99.90358781	99.84289022	99.78228082
240226A00010	2/26/2024	4.53	7/15/2027	108.66086	106.648173	104.683488	102.765367	100.8924205	99.06331005	97.2767458	95.53148463	93.82632794
240226A00025	2/26/2024	4.43	2/26/2027	106.82901	105.2162129	103.6359838	102.0874003	100.5695786	99.08166753	97.622847	96.19232667	94.78934455
240227A00021	2/27/2024	4.97	8/27/2025	100.33669	100.2615968	100.1866231	100.1117686	100.037033	99.962416	99.88791735	99.81353677	99.73927398
240229A00026	2/29/2024	4.74	2/27/2026	102.53373	101.944965	101.3629712	100.7876297	100.2188269	99.65645164	99.10039548	98.55055224	98.00681817
240229A00027	2/29/2024	4.54	2/26/2027	106.89016	105.2787869	103.6999196	102.1526404	100.6360677	99.14935253	97.69167682	96.26225222	94.86031858
240301A00023	3/1/2024	4.17	3/1/2029	115.09262	111.3127545	107.6800277	104.1878796	100.8300798	97.60071071	94.49415014	91.50505445	88.62834315
240301A00024	3/1/2024	4.17	3/1/2029	115.09262	111.3127545	107.6800277	104.1878796	100.8300798	97.60071071	94.49415014	91.50505445	88.62834315
240301A00025	3/1/2024	4.45	3/1/2027	106.78682	105.1675453	103.5810311	102.0263545	100.5026231	99.0089774	97.54458952	96.10866173	94.70042499
240305A00008	3/5/2024	4.84	9/5/2025	100.43547	100.3353828	100.2355077	100.1358394	100.0363771	99.93712015	99.83806792	99.73921975	99.64057499
240305A00010	3/5/2024	4.66	3/5/2026	102.55619	101.9508231	101.3526151	100.761442	100.17718	99.59970828	99.02890879	98.46466617	97.90686774
240305A00011	3/5/2024	4.55	9/4/2026	104.65099	103.5307111	102.4345052	101.3616029	100.3112659	99.2827864	98.27548634	97.28871527	96.32184921
240306A00006	3/6/2024	4.65	9/5/2025	100.4231	100.3229599	100.2230282	100.1233041	100.0237868	99.9244758	99.82537032	99.72646973	99.62777336
240306A00010	3/6/2024	4.22	3/6/2029	115.06019	111.2740057	107.635487	104.1380376	100.7753921	97.54160055	94.43101064	91.43825088	88.55821497
240307A00022	3/7/2024	4.09	3/7/2029	114.86888	111.0763816	107.4320892	103.9293672	100.5619172	97.32375833	94.20920965	91.21287282	88.32961648
240308A00005	3/8/2024	4.03	3/8/2029	114.661	110.8694929	107.2262846	103.7247259	100.3585101	97.12164908	94.00845475	91.01352248	88.13171504
240308A00009	3/8/2024	4.74	9/8/2025	100.46098	100.3525658	100.2444018	100.1364826	100.0288072	99.92137493	99.81418481	99.70723603	99.60052772
240308A00011	3/8/2024	4.54	3/9/2026	102.52877	101.9124787	101.3036153	100.7020461	100.1076403	99.52027026	98.93981131	98.36614174	97.79914267

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240308A00031	3/8/2024	4.46	9/16/2026	104.69498	103.5412878	102.4131257	101.3096482	100.2300501	99.17356101	98.13944325	97.12699041	96.13552552
240311A00006	3/11/2024	4.6	3/11/2026	102.58829	101.9662824	101.3518387	100.744822	100.1450977	99.55253474	98.96700514	98.3883839	97.816549
240311A00009	3/11/2024	4.38	3/11/2027	106.79845	105.1518943	103.5390157	101.9588453	100.4104528	98.89294311	97.40545444	95.94715706	94.51725158
240311A00012	3/11/2024	4.8	9/11/2025	100.50349	100.3867298	100.2702575	100.1540695	100.0381646	99.92254182	99.80720006	99.69213827	99.57735537
240312A00009	3/12/2024	4.68	3/12/2026	102.64937	102.0243901	101.4070464	100.797197	100.1947059	99.59944005	99.01126976	98.4300684	97.85571234
240312A00013	3/12/2024	4.68	3/12/2026	102.64937	102.0243901	101.4070464	100.797197	100.1947059	99.59944005	99.01126976	98.4300684	97.85571234
240312A00015	3/12/2024	4.13	3/12/2029	115.07091	111.2608331	107.6000559	104.0818756	100.6999297	97.44817722	94.32088131	91.31259145	88.41812756
240312A00019	3/12/2024	4.87	9/12/2025	100.52385	100.4043051	100.2850564	100.1661055	100.0474512	99.92909223	99.81102757	99.69325605	99.57577654
240312A00020	3/12/2024	4.82	11/3/2025	101.14893	100.8844953	100.6214455	100.3597699	100.0994579	99.84049872	99.58288188	99.32659693	99.07163354
240312A00028	3/12/2024	4.87	9/12/2025	100.52385	100.4043051	100.2850564	100.1661055	100.0474512	99.92909223	99.81102757	99.69325605	99.57577654
240313A00007	3/13/2024	4.88	9/12/2025	100.52505	100.4054986	100.2862488	100.1672967	100.0486412	99.93028112	99.81221532	99.69444266	99.57696201
240313A00023	3/13/2024	4.68	3/13/2026	102.66096	102.033182	101.4131089	100.8005963	100.1955063	99.59770424	99.00705868	98.42344135	97.84672705
240314A00012	3/14/2024	4.62	3/13/2026	102.66725	102.038898	101.4182666	100.8052098	100.1995892	99.60126971	99.01011961	98.42601022	97.84881598
240314A00013	3/14/2024	4.62	3/13/2026	102.66725	102.038898	101.4182666	100.8052098	100.1995892	99.60126971	99.01011961	98.42601022	97.84881598
240315A00015	3/15/2024	4.8	3/16/2026	102.77162	102.1351758	101.5066446	100.8858759	100.2727261	99.66705526	99.06872675	98.47760731	97.89356692
240318A00014	3/18/2024	4.67	3/18/2026	102.75723	102.1147516	101.4803382	100.8538343	100.2350922	99.623968	99.02032128	98.42401505	97.83491568
240318A00015	3/18/2024	4.47	2/20/2029	115.7934	112.0353228	108.4224331	104.9483014	101.6068215	98.39219128	95.29889608	92.32169239	89.45559301
240318A00020	3/18/2024	4.48	3/19/2029	114.83057	111.3017573	107.9095819	104.6478734	101.51078	98.49275093	95.5885186	92.7930824	90.10169323
240319A00003	3/19/2024	4.65	3/19/2026	102.75616	102.1109267	101.4738232	100.844696	100.2233956	99.6097762	99.00369575	98.40501557	97.81360037
240319A00004	3/19/2024	4.47	3/19/2027	107.16438	105.4909113	103.8519849	102.2465978	100.6737847	99.13261722	97.62220241	96.14168073	94.6902246
240319A00012	3/19/2024	4.77	4/14/2026	103.09871	102.3810405	101.6733982	100.9755711	100.2873555	99.60855357	98.93897255	98.27842511	97.62672892
240319A00014	3/19/2024	4.44	3/19/2029	116.01526	112.175537	108.4865568	104.9415351	101.5340312	98.2579314	95.1074304	92.07701392	89.16144215
240319A00021	3/19/2024	4.83	9/19/2025	100.61297	100.4738328	100.3350919	100.1967487	100.0588013	99.92124809	99.78408728	99.64731715	99.51093601
240320A00010	3/20/2024	4.77	3/20/2036	141.48028	129.5804376	118.8502481	109.1664274	100.4193662	92.51154517	85.35614203	78.87580446	73.00157025
240321A00007	3/21/2024	4.7	3/23/2026	102.78987	102.1340412	101.4866047	100.8473995	100.2162691	99.59306087	98.97762606	98.36981961	97.76950006
240321A00019	3/21/2024	4.88	9/22/2025	100.64704	100.4996349	100.352677	100.2061599	100.0600816	99.91444002	99.76923331	99.62445944	99.48011647
240322A00007	3/22/2024	4.67	3/23/2026	102.77031	102.1145578	101.467192	100.828057	100.1969961	99.57385677	98.95849025	98.35075148	97.75049901
240322A00008	3/22/2024	4.65	4/22/2026	103.1068	102.3670166	101.6378834	100.919167	100.2106449	99.51210083	98.82332486	98.14411272	97.47426589
240322A00013	3/22/2024	4.18	3/22/2029	115.36764	111.5242695	107.832354	104.2850478	100.8758602	97.59863123	94.44751293	91.41695117	88.50166921
240322A00014	3/22/2024	4.51	5/22/2026	103.40905	102.5844366	101.773015	100.974469	100.1884934	99.41479237	98.65307961	97.90307752	97.16451706
240322A00015	3/22/2024	4.65	11/21/2025	101.34019	101.0253441	100.7124713	100.4015482	100.0925566	99.78547841	99.48029586	99.17699132	98.87554739
240322A00018	3/22/2024	4.34	3/22/2027	106.98702	105.3068815	103.6615367	102.0499724	100.4712123	98.92431774	97.40838598	95.92254823	94.46596818
240322A00029	3/22/2024	4.36	3/22/2027	107.02023	105.3398007	103.694176	102.0823368	100.5033066	98.9561467	97.4399542	95.95386019	94.49702823

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240322A00032	3/22/2024	4.67	3/23/2026	102.77031	102.1145578	101.467192	100.828057	100.1969961	99.57385677	98.95849025	98.35075148	97.75049901
240325A00023	3/25/2024	4.71	9/25/2025	100.66795	100.5120845	100.3567133	100.2018304	100.0474335	99.89352023	99.7400883	99.58713546	99.43465943
240325A00024	3/25/2024	4.71	9/25/2025	100.66795	100.5120845	100.3567133	100.2018304	100.0474335	99.89352023	99.7400883	99.58713546	99.43465943
240325A00027	4/1/2024	4.91	10/1/2025	100.76227	100.5897655	100.4178549	100.2465315	100.0757922	99.90563408	99.73605424	99.56704972	99.39861759
240325A00028	4/1/2024	4.91	10/1/2025	100.76227	100.5897655	100.4178549	100.2465315	100.0757922	99.90563408	99.73605424	99.56704972	99.39861759
240325A00040	3/25/2024	4.46	4/30/2027	107.56708	105.7749573	104.0216355	102.3059225	100.6266725	98.9827873	97.37321283	95.79693751	94.25298982
240325A00060	3/25/2024	4.57	3/25/2026	102.77373	102.1118531	101.4585203	100.8135687	100.1768374	99.54816973	98.92741293	98.31441812	97.70904013
240326A00013	3/26/2024	4.91	9/26/2025	100.70065	100.5420838	100.3840236	100.2264658	100.069408	99.91284771	99.75678268	99.60121051	99.44612888
240326A00042	3/26/2024	4.71	3/26/2026	102.83139	102.1671268	101.5114623	100.8642335	100.2252781	99.5944378	98.97155864	98.35649034	97.74908644
240327A00008	3/27/2024	4.72	10/1/2025	100.74142	100.5688222	100.3968155	100.2253977	100.0545658	99.88431681	99.71464769	99.54555552	99.37703735
240327A00014	3/27/2024	4.88	9/24/2025	100.67147	100.5184894	100.3659841	100.2139501	100.0623851	99.91128702	99.76065366	99.61048285	99.46077247
240327A00016	3/27/2024	4.56	3/27/2026	102.79005	102.1225785	101.4637964	100.8135318	100.1716202	99.53790116	98.9122183	98.29441928	97.68435558
240327A00025	3/27/2024	4.35	3/26/2027	107.05359	105.3619528	103.7055	102.0831967	100.4940506	98.93710807	97.41145202	95.91620017	94.45050336
240327A00028	3/27/2024	4.4	3/27/2028	111.5753	108.8141009	106.1364239	103.5392072	101.0195243	98.57457586	96.20168385	93.89828483	91.66192434
240328A00017	3/28/2024	4.6	3/30/2026	102.85124	102.1752559	101.5081706	100.8498096	100.2000027	99.5585836	98.92539067	98.30026621	97.68305662
240328A00018	3/28/2024	4.39	3/29/2027	107.15825	105.4575079	103.7922518	102.1614319	100.5640437	98.99912192	97.46573843	95.96300056	94.4900493
240328A00022	3/28/2024	4.3	3/28/2028	111.51541	108.7479813	106.064419	103.4616436	100.9367113	98.48680688	96.10923701	93.80142396	91.56089981
240328A00023	3/28/2024	4.22	3/28/2029	115.58406	111.7199612	108.008637	104.4431581	101.0169554	97.72379594	94.55776372	91.51324121	88.58489251
240328A00026	3/28/2024	4.6	3/27/2026	102.81657	102.149003	101.4901232	100.839762	100.1977545	99.5639405	98.93816353	98.32027125	97.71011512
240328A00027	3/28/2024	4.39	3/29/2027	107.15825	105.4575079	103.7922518	102.1614319	100.5640437	98.99912192	97.46573843	95.96300056	94.4900493
240328A00031	3/28/2024	4.92	9/24/2025	100.67758	100.5245929	100.3720804	100.2200393	100.0684672	99.91736205	99.76672162	99.61654377	99.46682635
240328A00052	3/28/2024	4.34	3/28/2029	115.75202	111.8920265	108.1844407	104.6223579	101.1992316	97.90884983	94.74531625	91.70303165	88.77667727
240328A00061	3/28/2024	4.35	3/28/2029	115.78902	111.9283523	108.2201052	104.6573803	101.2336303	97.94264273	94.77852044	91.73566366	88.80875302
240328A00063	3/28/2024	4.47	3/28/2030	120.48677	115.4895521	110.7344348	106.2083158	101.8988782	97.79453755	93.88439329	90.15818488	86.60625027
240328A00064	3/28/2024	4.48	3/28/2031	124.21945	118.0850604	112.3019208	106.8479133	101.7024364	96.84628961	92.26157072	87.93158076	83.84073672
240328A00065	7/16/2024	4.46	7/16/2032	128.13099	120.5309737	113.4518665	106.8549368	100.7045311	94.96781477	89.61453554	84.61680766	79.94891535
240401A00003	4/1/2024	4.81	10/1/2025	100.75692	100.5843008	100.4122742	100.2408365	100.0699848	99.89971608	99.73002729	99.56091549	99.39237776
240401A00004	4/1/2024	4.81	10/1/2025	100.75692	100.5843008	100.4122742	100.2408365	100.0699848	99.89971608	99.73002729	99.56091549	99.39237776
240401A00006	4/1/2024	4.32	4/2/2029	115.26243	111.5545654	107.9934055	104.5722251	101.284653	98.12464943	95.0864864	92.16472961	89.35422127
240401A00009	4/1/2024	4.79	4/1/2026	102.95575	102.2744699	101.6022188	100.9388207	100.2841016	99.63789185	99.00002611	98.37034345	97.74868699
240401A00016	4/1/2024	4.47	4/1/2027	107.33138	105.6208708	103.9461639	102.3061984	100.699957	99.1264619	97.58477353	96.07398814	94.59323627
240401A00024	4/1/2024	4.97	10/1/2025	100.7726	100.6000837	100.4281598	100.2568231	100.0860706	99.91589941	99.74630646	99.57728886	99.4088437
240401A00027	4/1/2024	4.82	4/1/2026	102.97606	102.2946958	101.6223686	100.9588953	100.3041016	99.65781794	99.01987899	98.39012378	97.76839543

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240402A00015	4/2/2024	4.61	11/15/2027	110.41707	108.0434867	105.7335202	103.4850519	101.2960513	99.16456984	97.08873675	95.0667556	93.09690061
240402A00044	4/2/2024	4.83	4/2/2026	102.99503	102.310843	101.6357656	100.9696154	100.3122161	99.66339574	99.02298712	98.39082721	97.76675724
240403A00002	4/3/2024	5.01	10/3/2025	100.80488	100.6267983	100.4493479	100.2725269	100.0963319	99.92075966	99.74580682	99.57147008	99.39774619
240403A00006	4/3/2024	4.71	4/3/2026	102.97317	102.2857016	101.6074287	100.9381714	100.2777505	99.62599177	98.98272525	98.34778557	97.72101159
240403A00008	4/3/2024	4.67	4/2/2027	107.56119	105.8479597	104.1705954	102.5280315	100.9192484	99.34326605	97.7991427	96.28597258	94.8028843
240403A00010	4/3/2024	4.54	4/5/2027	107.50279	105.7795159	104.0924866	102.4406193	100.8228782	99.2382684	97.68583397	96.16465572	94.67384958
240403A00013	4/3/2024	4.58	4/17/2028	112.32868	109.4977371	106.7538472	104.0937565	101.51436	99.01269162	96.5859161	94.23132242	91.94631726
240403A00018	4/3/2024	4.67	4/5/2027	107.60158	105.8795566	104.1937158	102.5429769	100.9263068	99.342713	97.79124182	96.27097627	94.78103435
240403A00022	4/3/2024	4.53	4/3/2029	116.52861	112.6373214	108.9000973	105.3099345	101.8601944	98.54457926	95.35711236	92.2921195	89.34421174
240404A00004	4/4/2024	4.45	4/4/2029	116.24337	112.3544819	108.6197173	105.0320628	101.5848719	98.27183991	95.08698364	92.02462306	89.07936389
240404A00012	4/4/2024	4.46	4/4/2029	116.28057	112.3909946	108.655562	105.0672589	101.6194382	98.30579445	95.12034378	92.05740554	89.11158486
240404A00014	4/4/2024	4.78	4/6/2026	103.00932	102.3140578	101.6282079	100.9515781	100.2839831	99.62524241	98.9751805	98.33362636	97.70041349
240404A00015	4/4/2024	4.6	4/5/2027	107.48272	105.76174	104.076922	102.4271876	100.811504	99.2288794	97.67836049	96.15903075	94.67000862
240404A00019	6/3/2024	4.55	6/1/2027	108.13432	106.249423	104.4069528	102.6057077	100.844527	99.12228985	97.43791401	95.79035389	94.17859921
240404A00020	6/3/2024	4.55	6/1/2027	108.13432	106.249423	104.4069528	102.6057077	100.844527	99.12228985	97.43791401	95.79035389	94.17859921
240404A00021	4/4/2024	4.57	4/1/2031	122.07019	116.6017731	111.4374206	106.5581698	101.9463553	97.58551191	93.46028673	89.55635712	85.86035568
240404A00022	4/4/2024	4.78	4/6/2026	103.00932	102.3140578	101.6282079	100.9515781	100.2839831	99.62524241	98.9751805	98.33362636	97.70041349
240404A00023	4/4/2024	4.51	4/24/2028	112.22539	109.3759102	106.6145671	103.9380527	101.3432041	98.82700091	96.38655685	94.0191131	91.72203151
240405A00005	4/5/2024	4.81	4/6/2026	103.03004	102.3346962	101.6487675	100.9720596	100.3043872	99.64556994	98.99543212	98.35380278	97.7205154
240405A00006	4/5/2024	4.63	4/5/2027	107.53366	105.8122328	104.1269765	102.4768116	100.8607052	99.27766523	97.7267382	96.2070074	94.71759107
240405A00017	4/5/2024	4.5	4/5/2027	107.43483	105.7121513	104.0257073	102.3744148	100.7572382	99.17318305	97.62129355	96.1006508	94.61037098
240408A00015	4/8/2024	4.54	4/5/2029	116.59057	112.6923846	108.9487219	105.352549	101.8971994	98.57634954	95.38399845	92.31444951	89.36229285
240408A00018	4/8/2024	4.87	10/6/2025	100.82974	100.6431954	100.4573487	100.2721978	100.0877387	99.90396758	99.72088045	99.53847346	99.35674277
240408A00020	4/8/2024	4.86	4/8/2026	103.08914	102.3880593	101.6965435	101.0143978	100.3414323	99.67746217	99.02230761	98.37579355	97.73774953
240408A00025	4/8/2024	5.03	10/8/2025	100.8722	100.6801986	100.4889406	100.2984201	100.1086329	99.91957457	99.73124098	99.54362786	99.35673102
240408A00026	4/8/2024	4.86	4/8/2026	103.08914	102.3880593	101.6965435	101.0143978	100.3414323	99.67746217	99.02230761	98.37579355	97.73774953
240409A00021	4/9/2024	4.83	4/9/2026	103.08046	102.376655	101.6824913	100.9977711	100.3223023	99.65589795	98.99837604	98.34955948	97.7092759
240409A00035	4/9/2024	4.66	4/9/2027	107.63834	105.9047388	104.2077372	102.5462389	100.919193	99.32559028	97.76446112	96.23487354	94.73593133
240410A00007	4/10/2024	4.64	4/10/2028	112.60262	109.7834981	107.050625	104.4007931	101.8309429	99.33815032	96.91961954	94.57267648	92.2947624
240410A00008	4/10/2024	4.56	4/10/2029	117.00797	113.080304	109.3089242	105.6866877	102.2068264	98.86292143	95.64888344	92.55893296	89.58758279
240412A00017	4/12/2024	4.84	4/10/2026	103.14891	102.441447	101.7437178	101.0555257	100.3766758	99.70697821	99.04624849	98.39430693	97.75097867
240415A00060	4/15/2024	5.06	4/15/2026	103.31824	102.5969486	101.8857629	101.1844755	100.4928804	99.81077712	99.13797077	98.47427177	97.81949568
240416A00017	4/16/2024	5.17	10/16/2025	101.00414	100.7897995	100.5763887	100.3638966	100.1523171	99.94164436	99.73187247	99.52299556	99.31500785

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240416A00018	4/16/2024	5.04	4/16/2026	103.31672	102.5926647	101.8787999	101.1749083	100.4807814	99.79621644	99.12101653	98.45498993	97.7979502
240416A00019	4/16/2024	4.91	4/16/2027	108.1645	106.4065001	104.6859126	103.0016101	101.352508	99.73756546	98.155783	96.60620025	95.08789414
240416A00020	4/16/2024	4.85	4/17/2028	113.06984	110.2286619	107.4747715	104.8049137	102.2159764	99.70498613	97.26910104	94.90560349	92.6118939
240416A00030	4/16/2024	4.78	4/16/2027	108.06433	106.3050401	104.5832324	102.8977721	101.247572	99.63158875	98.04882024	96.49830391	94.97911451
240417A00015	4/17/2024	4.76	4/16/2027	108.02974	106.2707582	104.5492534	102.8640905	101.2141825	99.59848607	98.01599939	96.46575997	94.9468427
240417A00016	4/17/2024	4.63	4/17/2029	117.35997	113.4054792	109.6089706	105.9631967	102.4612872	99.09672834	95.86334234	92.75526739	89.76693954
240417A00017	4/17/2024	4.63	4/17/2029	117.35997	113.4054792	109.6089706	105.9631967	102.4612872	99.09672834	95.86334234	92.75526739	89.76693954
240418A00004	4/18/2024	4.87	4/18/2031	126.66297	120.3992157	114.4962376	108.9311531	103.6826602	98.73091812	94.05743827	89.64498497	85.47748342
240418A00012	4/18/2024	5.19	10/17/2025	101.0216	100.8044719	100.5882879	100.3730459	100.1587398	99.94536324	99.73291023	99.52137468	99.31075057
240418A00019	4/18/2024	5.05	4/17/2026	103.33671	102.6098155	101.8931865	101.1866065	100.4898646	99.80275586	99.1250811	98.45664653	97.79726365
240419A00026	4/23/2024	5.07	4/1/2026	103.14524	102.4632445	101.7902841	101.1261834	100.4707682	99.82386869	99.18531959	98.55495981	97.93263237
240422A00038	4/22/2024	5.03	10/22/2025	101.06654	100.8353098	100.6051473	100.3760484	100.1480056	99.92101168	99.69505923	99.47014105	99.24624999
240422A00040	4/22/2024	4.85	10/22/2026	105.70195	104.4408632	103.2100295	102.0083697	100.8348534	99.68849817	98.56836689	97.47356521	96.40323907
240422A00041	4/22/2024	4.92	4/22/2026	103.35687	102.6153967	101.8846006	101.16425	100.4541219	99.75399915	99.0636711	98.38293281	97.71158505
240423A00027	4/23/2024	4.93	3/31/2027	107.97214	106.2609577	104.5855014	102.9447126	101.3375783	99.76312532	98.2204179	96.70855613	95.22667407
240423A00028	4/23/2024	5.08	3/31/2026	103.13911	102.4598926	101.7896359	101.1281661	100.4753112	99.83090358	99.19477986	98.56678097	97.94675186
240423A00032	4/23/2024	5.06	4/20/2026	103.38243	102.6470633	101.9221948	101.207603	100.5030698	99.80838363	99.12333854	98.44773445	97.78137672
240423A00034	4/23/2024	4.92	4/19/2027	108.22426	106.4572462	104.7279752	103.0353007	101.3781245	99.75539274	98.16609353	96.60925491	95.08394283
240424A00030	4/24/2024	4.89	4/21/2027	108.20031	106.4278549	104.6933538	102.9956475	101.333629	99.70623589	98.11244832	96.55128679	95.02181014
240425A00010	4/25/2024	4.83	4/26/2027	108.29201	106.5023607	104.7512939	103.037626	101.3602233	99.71799833	98.10990767	96.5349494	94.99216117
240425A00021	4/25/2024	4.83	4/26/2027	108.29201	106.5023607	104.7512939	103.037626	101.3602233	99.71799833	98.10990767	96.5349494	94.99216117
240425A00028	4/25/2024	4.9	4/25/2028	113.31731	110.4497652	107.6708824	104.9773292	102.3659233	99.83362553	97.3775321	94.99486739	92.68297721
240425A00029	4/25/2024	4.85	4/25/2029	118.00968	114.0272774	110.204469	106.5339071	103.008626	99.62202352	96.36783913	93.24013427	90.2332734
240425A00030	4/25/2024	4.85	4/25/2029	118.00968	114.0272774	110.204469	106.5339071	103.008626	99.62202352	96.36783913	93.24013427	90.2332734
240425A00032	4/25/2024	4.92	4/25/2030	122.95194	117.815881	112.9314494	108.2848511	103.8631316	99.65411792	95.64636633	91.82911445	88.19223651
240425A00033	4/25/2024	4.96	4/27/2026	103.45007	102.6943686	101.9497431	101.2159485	100.4927496	99.77991776	99.07723084	98.3844731	97.70143486
240425A00034	4/25/2024	4.96	4/27/2026	103.45007	102.6943686	101.9497431	101.2159485	100.4927496	99.77991776	99.07723084	98.3844731	97.70143486
240426A00011	4/26/2024	5.17	10/27/2025	101.14863	100.9035624	100.65969	100.4170013	100.1754876	99.93514054	99.69595155	99.45791228	99.22101443
240426A00012	4/26/2024	4.92	4/27/2026	103.42011	102.6645343	101.9200315	101.1863584	100.4632798	99.75056688	99.04799775	98.35535663	97.67243385
240426A00024	4/26/2024	4.79	4/26/2029	116.97986	113.1777323	109.527884	106.023335	102.6574685	99.42400568	96.31698646	93.33075164	90.45992601
240426A00026	4/26/2024	5.05	4/30/2026	103.50322	102.7397004	101.9874748	101.2462931	100.5159132	99.79609999	99.08662522	98.38726706	97.69781003
240426A00029	4/26/2024	5.19	10/27/2025	101.15351	100.9084409	100.6645605	100.4218639	100.1803423	99.9399873	99.70079044	99.46274332	99.22583767
240426A00044	4/26/2024	4.78	4/26/2027	108.20415	106.4152943	104.6650085	102.9521075	101.2754578	99.63397238	98.02660819	96.45236367	94.91027678

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240429A00006	4/29/2024	4.86	10/29/2026	105.8085	104.5272299	103.2771499	102.057133	100.8661021	99.7030313	98.5669425	97.45690284	96.37202205
240429A00007	4/29/2024	5.04	10/29/2025	101.1596	100.9087728	100.6591967	100.4108574	100.1637459	99.91785289	99.6731695	99.42968677	99.18739589
240429A00008	4/29/2024	4.93	4/29/2026	103.45295	102.6916968	101.941677	101.2026421	100.4743516	99.75657238	99.04907772	98.3516475	97.66406783
240429A00045	4/29/2024	5.1	8/5/2025	100.06998	100.0560524	100.0421405	100.0282424	100.014358	100.0004873	99.98663032	99.97278697	99.95895725
240429A00052	4/29/2024	4.91	5/3/2027	108.40356	106.59561	104.8269308	103.0963208	101.4026304	99.74475634	98.12163959	96.5322629	94.97564876
240430A00016	4/30/2024	5.08	10/30/2025	101.18267	100.9290411	100.6766846	100.4255904	100.1757489	99.92715081	99.67978687	99.43364789	99.18872481
240430A00017	4/30/2024	5.08	10/30/2025	101.18267	100.9290411	100.6766846	100.4255904	100.1757489	99.92715081	99.67978687	99.43364789	99.18872481
240430A00034	4/30/2024	4.69	4/30/2029	117.75511	113.7554722	109.9168604	106.2318264	102.6933128	99.29463223	96.0294453	92.89173988	89.87581209
240430A00035	4/30/2024	4.94	4/30/2027	108.41534	106.6154936	104.8545922	103.1314379	101.4448811	99.79381978	98.17719641	96.59399593	95.04324354
240501A00017	5/1/2024	5.13	5/1/2026	103.57719	102.8106064	102.0553998	101.3113213	100.578126	99.85557593	99.14344035	98.44149496	97.74952191
240501A00018	12/23/2024	4.83	12/23/2026	106.44015	105.0165726	103.6191555	102.2472386	100.9001835	99.57737227	98.27820736	97.00211026	95.74852093
240501A00054	5/6/2024	4.79	5/4/2029	117.89917	113.8931254	110.0485657	106.3580219	102.8144223	99.41106442	96.14159325	92.99998065	89.98050653
240502A00013	5/2/2024	4.68	5/2/2028	113.0054	110.117795	107.320115	104.6089669	101.981109	99.43344563	96.96301924	94.56700326	92.24269506
240502A00017	5/2/2024	4.81	5/2/2028	113.1621	110.2768438	107.4813316	104.7721788	102.1461535	99.60016911	97.13127665	94.73665762	92.41361701
240502A00030	5/2/2024	4.75	5/2/2029	117.72189	113.7248023	109.8886709	106.2060505	102.6698928	99.27351788	96.01059277	92.87511067	89.8613721
240502A00048	5/2/2024	4.89	5/3/2027	108.36805	106.5604244	104.7920638	103.0617667	101.3683834	99.71081098	98.08799053	96.49890492	94.94257679
240503A00009	5/3/2024	4.61	5/3/2029	117.20241	113.2123317	109.3831293	105.7073602	102.1779769	98.78830026	95.5319975	92.40306208	89.39579462
240503A00016	5/3/2024	4.72	5/3/2028	112.92416	110.0394656	107.2446013	104.5361767	101.9109576	99.36585554	96.8979192	94.50432771	92.18238355
240503A00023	5/3/2024	5.13	8/4/2025	100.0568	100.0456634	100.0345408	100.0234288	100.0123273	100.0012364	99.99015609	99.9790863	99.96802703
240503A00024	5/3/2024	5.04	11/3/2025	101.20695	100.9424195	100.6792698	100.4174948	100.1570838	99.89802596	99.64031087	99.38392806	99.12886719
240503A00029	10/21/2024	4.85	10/21/2025	100.99696	100.7687776	100.5416397	100.3155382	100.0904661	99.86641612	99.64338138	99.4213549	99.20032979
240503A00035	5/3/2024	4.92	5/1/2026	103.41763	102.6517135	101.8971687	101.153745	100.4211977	99.69928905	98.9877883	98.28647129	97.59512028
240506A00011	5/6/2024	4.46	5/4/2029	116.92973	112.9344609	109.1006093	105.4207061	101.8876712	98.49479519	95.23571645	92.10440131	89.09512475
240506A00012	5/6/2024	5.04	11/6/2025	101.24594	100.9730442	100.701625	100.4316723	100.1631742	99.89611881	99.63049459	99.36628996	99.1034935
240506A00020	5/6/2024	4.73	5/6/2027	108.1237	106.3101149	104.5360731	102.8003797	101.1018861	99.43948907	97.81212904	96.21878756	94.65848543
240507A00017	5/7/2024	4.51	5/8/2028	112.6061	109.707454	106.899576	104.1790464	101.5426012	98.98712153	96.5096264	94.10726516	91.77731097
240507A00019	5/7/2024	4.51	5/8/2028	112.6061	109.707454	106.899576	104.1790464	101.5426012	98.98712153	96.5096264	94.10726516	91.77731097
240507A00020	5/7/2024	4.6	5/7/2027	108.03341	106.2156286	104.4375782	102.6980539	100.995904	99.33002203	97.69934509	96.10285144	94.53955852
240507A00021	5/7/2024	4.77	5/7/2026	103.43271	102.6494554	101.8781013	101.118378	100.3700235	99.63278351	98.90641123	98.19066721	97.48531898
240507A00034	5/7/2024	4.9	5/7/2026	103.47907	102.6963423	101.9254967	101.1662633	100.4183807	99.68159516	98.95566058	98.24033808	97.53539575
240507A00042	5/7/2024	4.57	5/7/2029	117.0987	113.0994044	109.2617762	105.5783418	102.0420162	98.64608396	95.38417677	92.2502536	89.23858161
240507A00043	5/7/2024	4.9	5/7/2026	103.47907	102.6963423	101.9254967	101.1662633	100.4183807	99.68159516	98.95566058	98.24033808	97.53539575
240507A00048	5/7/2024	4.73	5/7/2027	108.13695	106.3205055	104.5437193	102.8053924	101.1043759	99.43956622	97.80990305	96.21436712	94.65197821

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				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240507A00049	5/7/2024	4.64	5/8/2028	112.76416	109.867867	107.0621594	104.3436259	101.7090122	99.15520885	96.67924336	94.2782733	91.94957952
240507A00051	5/7/2024	4.57	5/7/2029	117.0987	113.0994044	109.2617762	105.5783418	102.0420162	98.64608396	95.38417677	92.2502536	89.23858161
240508A00005	5/8/2024	4.59	5/8/2031	125.68562	119.3765711	113.4349257	107.8371819	102.5614682	97.58742281	92.89608115	88.46977234	84.29202399
240508A00006	5/8/2024	4.92	5/8/2026	103.50743	102.7218169	101.9481764	101.1862314	100.4357174	99.69637818	98.96796499	98.25023642	97.54295817
240509A00005	5/9/2024	4.62	5/9/2029	117.31371	113.3047399	109.457993	105.7659665	102.2215514	98.81800836	95.54894641	92.40830231	89.39032184
240509A00010	5/9/2024	4.6	5/10/2027	108.07268	106.2463227	104.4600297	102.7125972	101.0028725	99.32974766	97.69215784	96.08907865	94.5195244
240509A00022	5/9/2024	4.66	5/9/2028	112.83291	109.9328779	107.1236159	104.4017081	101.7638951	99.20706218	96.72823163	94.32455576	91.99331015
240509A00023	5/9/2024	4.6	5/9/2029	117.23737	113.2298475	109.384505	105.6938412	102.1507486	98.74848945	95.48067418	92.34124094	89.32443684
240509A00039	5/9/2024	4.87	11/10/2025	101.2693	100.9850829	100.7024699	100.4214515	100.1420141	99.86414425	99.58782874	99.31305443	99.03980834
240510A00020	5/10/2024	4.63	5/10/2027	108.12656	106.2997065	104.5129248	102.7650126	101.0548168	99.38122948	97.74318538	96.13965994	94.56966726
240513A00022	5/13/2024	4.92	5/13/2026	103.57156	102.7718657	101.9845718	101.209388	100.4460358	99.69424533	98.9537547	98.22430997	97.50566474
240513A00024	5/13/2024	4.74	5/13/2027	108.23446	106.4007016	104.6072751	102.8529795	101.136664	99.45722218	97.81358935	96.2047409	94.62969027
240513A00025	5/13/2024	4.67	5/12/2028	112.89911	109.9898281	107.1718263	104.4416745	101.7960991	99.23197109	96.74629826	94.33621831	91.99899221
240513A00026	5/13/2024	4.6	5/14/2029	117.29817	113.2754967	109.4161135	105.7124682	102.1574023	98.74412824	95.46620787	92.31753234	89.2923032
240513A00041	5/13/2024	5.06	11/13/2025	101.34273	101.0502893	100.7595468	100.4704905	100.1831057	99.89737765	99.61329209	99.33083474	99.04999153
240513A00045	5/17/2024	4.73	6/17/2027	108.68453	106.7492263	104.8584024	103.0107722	101.2050935	99.44016818	97.71484004	96.02799298	94.37854944
240514A00049	5/14/2024	4.84	2/5/2026	102.36226	101.834393	101.3119789	100.7949371	100.2831848	99.77664105	99.27522644	98.77886322	98.28747519
240514A00065	5/14/2024	4.59	5/14/2029	117.25986	113.2379172	109.3792411	105.6762819	102.1218819	98.70925408	95.43196122	92.28389512	89.25925801
240515A00002	5/15/2024	4.4	11/13/2028	114.59912	111.1380092	107.801791	104.5852336	101.4833572	98.49142005	95.60490562	92.81951047	90.13113269
240515A00003	5/15/2024	4.36	5/15/2029	116.67777	112.6564615	108.7988056	105.0972191	101.5445176	98.1338896	94.85887416	91.71334107	88.69147181
240515A00014	5/15/2024	4.81	11/17/2025	101.34018	101.0364266	100.7345121	100.4344164	100.1361228	99.83961514	99.54487722	99.25189312	98.96064711
240515A00023	5/15/2024	4.51	5/15/2029	116.9653	112.9461694	109.0903501	105.3902911	101.8388307	98.42917822	95.15489245	92.00986131	88.98828322
240515A00024	5/15/2024	4.59	5/15/2028	112.71143	109.7965008	106.9732699	104.2383025	101.5883135	99.02016198	96.5308436	94.11748369	91.77733079
240515A00026	5/15/2024	4.64	5/17/2027	108.10612	106.262617	104.4598559	102.6966438	100.9718295	99.28430516	97.633004	96.01689837	94.43499803
240515A00027	5/15/2024	4.5	5/19/2027	108.00839	106.1579796	104.3486076	102.579076	100.84823	99.15495802	97.49818893	95.87689072	94.29006857
240515A00035	5/15/2024	4.57	5/15/2028	112.65498	109.740849	106.9184	104.1841959	101.5349523	98.96752874	96.47892138	94.06625613	91.72678203
240515A00036	5/17/2024	4.63	6/17/2027	108.49452	106.5610647	104.6720568	102.8262083	101.0222782	99.25906915	97.53542583	95.850233	94.20241393
240515A00037	5/15/2024	4.5	5/15/2029	116.92697	112.9085633	109.0534521	105.3540801	101.8032864	98.39428114	95.12062372	91.97620281	88.95521752
240515A00038	5/15/2024	4.5	5/15/2029	116.92697	112.9085633	109.0534521	105.3540801	101.8032864	98.39428114	95.12062372	91.97620281	88.95521752
240515A00039	5/15/2024	4.57	5/15/2030	121.49684	116.3384053	111.4357112	106.7746532	102.3419813	98.12524421	94.11273705	90.29345213	86.65703374
240515A00041	7/1/2024	4.69	7/1/2027	108.79571	106.819835	104.8902093	103.0054682	101.1642977	99.36543116	97.60764704	95.88976708	94.21065442
240515A00044	5/15/2024	4.97	11/14/2025	101.3293	101.0341106	100.7406563	100.44892	100.1588865	99.8705407	99.58386793	99.29885353	99.01548302
240515A00048	7/1/2024	4.55	7/2/2029	117.70201	113.5318598	109.5363506	105.7072287	102.0366751	98.51727969	95.14201755	91.90422689	88.79758839

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240515A00050	7/1/2024	4.55	7/2/2029	117.70201	113.5318598	109.5363506	105.7072287	102.0366751	98.51727969	95.14201755	91.90422689	88.79758839
240515A00052	7/1/2024	4.79	7/3/2034	136.8128	126.8628944	117.7548072	109.4118776	101.7648301	94.75102669	88.31379864	82.40184912	76.96871791
240515A00066	6/28/2024	4.8	6/29/2026	104.06908	103.1371283	102.2219175	101.3230035	100.4399532	99.57234895	98.71978746	97.88187947	97.05824905
240515A00067	6/28/2024	4.8	6/29/2026	104.06908	103.1371283	102.2219175	101.3230035	100.4399532	99.57234895	98.71978746	97.88187947	97.05824905
240515A00068	6/28/2024	4.8	6/29/2026	104.06908	103.1371283	102.2219175	101.3230035	100.4399532	99.57234895	98.71978746	97.88187947	97.05824905
240515A00089	5/15/2024	4.5	5/15/2029	116.92697	112.9085633	109.0534521	105.3540801	101.8032864	98.39428114	95.12062372	91.97620281	88.95521752
240516A00025	5/17/2024	4.55	10/16/2028	114.50513	111.1305441	107.8751958	104.7341396	101.7026674	98.77629762	95.95076164	93.22199259	90.58611419
240516A00030	5/16/2024	5	11/17/2025	101.37677	101.0731852	100.7714302	100.4714901	100.1733485	99.87698909	99.58239584	99.2895529	98.9984446
240516A00038	5/16/2024	4.9	5/18/2026	103.61955	102.8058274	102.004939	101.2165785	100.4404531	99.67627879	98.92378059	98.18269173	97.4527536
240517A00011	5/17/2024	4.61	5/17/2028	112.79298	109.8713462	107.0417688	104.3007993	101.6451428	99.07164808	96.57730069	94.15921576	91.81463161
240517A00017	5/17/2024	4.4	5/17/2029	116.85497	112.8246782	108.9585714	105.2490442	101.6888887	98.27127002	94.98970466	91.83804063	88.81043835
240517A00026	5/17/2024	4.68	5/17/2027	108.17869	106.3345113	104.531086	102.7672217	101.0417673	99.35361448	97.70169604	96.08498407	94.50248806
240517A00034	5/17/2024	5.02	11/17/2025	101.38282	101.0792252	100.7774588	100.4775072	100.1793542	99.88298345	99.58837889	99.2955247	99.00440519
240520A00016	5/20/2024	4.57	8/16/2027	109.29737	107.1875781	105.1298444	103.1225434	101.1641103	99.25304048	97.3878866	95.56725602	93.78980828
240520A00017	5/20/2024	4.94	4/15/2026	103.23238	102.5114261	101.8005773	101.0996236	100.4083587	99.72658256	99.05410016	98.39072202	97.73626374
240520A00018	5/20/2024	4.84	10/15/2026	105.50915	104.2700959	103.0603085	101.8787533	100.7244482	99.59645633	98.49388334	97.41587505	96.3616152
240520A00020	5/20/2024	4.79	1/15/2027	106.69256	105.2046857	103.7452711	102.3135734	100.9088711	99.53046707	98.17768792	96.84988266	95.54642194
240520A00025	5/20/2024	4.75	4/15/2027	107.87427	106.121671	104.4063379	102.7271434	101.083009	99.47289919	97.89581959	96.35081479	94.8369664
240520A00027	5/20/2024	4.7	10/15/2027	110.2152	107.9305663	105.7053365	103.5375251	101.4252341	99.36664462	97.36001256	95.40366516	93.49599722
240520A00031	5/20/2024	4.96	9/19/2025	100.63103	100.4918706	100.3531102	100.2147476	100.0767809	99.93920831	99.80202823	99.66523888	99.52883856
240520A00040	5/20/2024	4.89	11/20/2025	101.4027	101.0905145	100.7802596	100.471922	100.1654839	99.86092771	99.55823599	99.25739157	98.95837747
240520A00041	5/20/2024	4.83	11/25/2026	106.0577	104.7111829	103.3898947	102.0931585	100.8203195	99.57074597	98.3438288	97.13897999	95.95563196
240521A00005	5/21/2024	5.04	11/21/2025	101.44084	101.1260458	100.8132139	100.5023283	100.1933708	99.88632347	99.58116854	99.27788847	98.97646595
240521A00006	5/21/2024	4.9	5/21/2026	103.65785	102.8356695	102.0265781	101.2302675	100.4464362	99.67479172	98.91505098	98.16693947	97.43019109
240522A00012	5/22/2024	4.67	5/22/2028	113.02623	110.0874055	107.2415323	104.4851411	101.8149113	99.2276663	96.72036541	94.29009772	91.93407551
240522A00027	5/22/2024	4.62	5/21/2027	108.25321	106.3950147	104.5781275	102.801344	101.063508	99.36350534	97.70026251	96.07274454	94.4799534
240522A00039	5/22/2024	4.76	5/24/2027	108.41714	106.5515474	104.7275268	102.9438831	101.1994617	99.49314956	97.82387314	96.19059694	94.59232173
240523A00021	5/23/2024	4.96	11/24/2025	101.47634	101.1528994	100.8315334	100.5122182	100.1949344	99.87966251	99.56638331	99.25507793	98.94572767
240523A00025	5/23/2024	4.96	11/18/2025	101.39854	101.0919021	100.7871363	100.4842222	100.1831429	99.88388169	99.58642196	99.29074738	98.99684182
240523A00027	5/23/2024	4.49	5/24/2029	117.28548	113.2272993	109.3350706	105.6011105	102.0181308	98.57921828	95.27781378	92.1076918	89.06294179
240523A00033	5/24/2024	4.8	12/24/2027	111.38144	108.8874633	106.4629757	104.105646	101.813239	99.58360677	97.41468561	95.30449151	93.25111691
240523A00035	5/24/2024	4.78	11/24/2027	110.93373	108.5284079	106.1881115	103.9106963	101.6941068	99.53636766	97.43558037	95.38991947	93.39762933
240523A00037	5/24/2024	4.78	1/24/2028	111.74088	109.1570482	106.6475473	104.2098056	101.8413548	99.53982703	97.30295005	95.12854277	93.01451094

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240523A00043	5/24/2024	4.81	2/24/2028	112.24745	109.5667099	106.9650266	104.4395852	101.987688	99.6067509	97.29429785	95.04795544	92.86544798
240524A00001	5/24/2024	4.98	11/24/2025	101.48278	101.1593272	100.8379482	100.5186202	100.2013235	99.88603883	99.57274693	99.26142889	98.95206605
240524A00011	5/24/2024	5.02	5/19/2026	103.72947	102.9125031	102.1084551	101.317024	100.5379138	99.7708377	99.01551789	98.27168497	97.53907776
240524A00027	5/24/2024	4.82	6/30/2027	109.03444	107.058919	105.1295694	103.2450277	101.4039842	99.60517615	97.84738566	96.12943799	94.45019962
240125A00058	1/16/2025	3.85	6/11/2027	106.94598	105.0444149	103.1862779	101.3703187	99.59533367	97.86016145	96.1636808	94.50480916	92.88250102
240131A00019	1/16/2025	3.69	6/12/2026	102.88103	102.0017828	101.1375868	100.2880537	99.45281226	98.63150351	97.82378052	97.02930776	96.24776073
240208A00030	1/16/2025	4.05	1/23/2026	101.77992	101.290114	100.8050294	100.3246006	99.84876059	99.3774438	98.91058578	98.44812334	97.9899945
240118A00057	3/14/2025	3.81	5/14/2027	106.56818	104.747159	102.9662922	101.2243864	99.52029873	97.85292952	96.22122075	94.62415386	93.06074796
ADV1006437	5/28/2024	4.799	6/28/2027	108.96656	106.9973595	105.0740628	103.1953219	101.3598377	99.56635743	97.81367295	96.10061865	94.42606977
ADV1006438	5/28/2024	4.644	5/29/2029	117.65112	113.579628	109.6748846	105.9291758	102.3351834	98.88596418	95.57492883	92.39582184	89.34270303
ADV1006450	5/28/2024	5.047	5/28/2026	103.8701	103.027571	102.1987592	101.3833305	100.5809622	99.79134177	99.01416676	98.24914415	97.49599006
ADV1006451	5/28/2024	5.204	11/28/2025	101.5866	101.252072	100.9197527	100.5896162	100.261641	99.93580594	99.61209015	99.29047299	98.97093408
ADV1006474	5/28/2024	5.044	5/28/2026	103.8676	103.0250786	102.1962781	101.3808606	100.5785033	99.78889382	99.0117296	98.24671766	97.49357412
ADV1006478	5/28/2024	4.775	5/30/2028	113.42886	110.4620283	107.5896106	104.8080923	102.1141114	99.50444857	96.97602065	94.52587394	92.15117808
ADV1006508	5/29/2024	4.746	9/12/2028	114.70146	111.4198968	108.2515433	105.1918225	102.2363702	99.38102567	96.62182032	93.95496784	91.37685447
ADV1006512	5/29/2024	4.762	7/17/2028	114.01582	110.9046989	107.8967824	104.9880658	102.1747269	99.45311311	96.81973287	94.27124726	91.80446264
ADV1006532	5/29/2024	5.092	2/27/2026	102.73977	102.1503196	101.5676448	100.9916278	100.4221551	99.85911539	99.3024001	98.75190304	98.20752036
ADV1006538	5/29/2024	4.952	11/25/2026	106.22062	104.8729567	103.550545	102.2527043	100.9787793	99.72813797	98.50017047	97.29428843	96.10992379
ADV1006559	5/29/2024	4.894	7/30/2027	109.58377	107.5206218	105.5076145	103.5432089	101.6259261	99.75434279	97.92708839	96.14284297	94.4003349
ADV1006562	5/29/2024	4.768	6/29/2029	118.52905	114.3510922	110.3475816	106.510293	102.8314347	99.30362123	95.91985027	92.67348058	89.55821155
ADV1006570	5/29/2024	4.908	5/28/2027	108.74348	106.863824	105.0262444	103.2295444	101.4725664	99.75419346	98.0733473	96.42898703	94.82010744
ADV1006582	5/30/2024	5.037	5/29/2026	103.87471	103.0294012	102.1978961	101.3798591	100.5749646	99.78289728	99.00335176	98.23603241	97.48065284
ADV1006583	5/30/2024	4.859	5/28/2027	108.65309	106.7742884	104.9375495	103.1416745	101.3855065	99.66792857	97.98786315	96.34426964	94.7361432
ADV1006595	5/30/2024	5.031	5/29/2026	103.86969	103.0244002	102.1929178	101.3749033	100.5700311	99.77798566	98.99846185	98.23116397	97.47580563
ADV1006596	5/30/2024	4.859	5/28/2027	108.65309	106.7742884	104.9375495	103.1416745	101.3855065	99.66792857	97.98786315	96.34426964	94.7361432
ADV1006598	5/30/2024	4.783	5/30/2028	113.45159	110.4844289	107.6116919	104.8298622	102.1355776	99.52561841	96.99690135	94.54647244	92.17150112
ADV1006599	5/30/2024	4.695	5/30/2029	117.86085	113.7825227	109.8712849	106.1194068	102.5195557	99.06477383	95.74845808	92.56433961	89.50646533
ADV1006606	5/30/2024	4.579	5/30/2029	116.23262	112.4858576	108.891015	105.4410251	102.1291912	98.94916338	95.89491877	92.96074296	90.14121241
ADV1006633	5/31/2024	4.653	5/28/2027	108.40615	106.5272946	104.6905496	102.894716	101.1386342	99.4211853	97.74128952	96.09790427	94.49002279
ADV1006634	5/31/2024	4.572	5/31/2028	113.07112	110.1019153	107.2274184	104.4440987	101.7485812	99.13763422	96.6081625	94.15720073	91.78190736
ADV1006650	5/31/2024	4.854	5/29/2026	103.78036	102.9346838	102.1028304	101.2844642	100.4792589	99.68689823	98.90707638	98.13949696	97.38387294
ADV1006652	5/31/2024	4.854	5/29/2026	103.78036	102.9346838	102.1028304	101.2844642	100.4792589	99.68689823	98.90707638	98.13949696	97.38387294
ADV1006656	5/31/2024	4.99	5/29/2026	103.83536	102.9902269	102.1588998	101.3410388	100.5363183	99.74442289	98.96504744	98.19789629	97.44268305

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1006657	5/31/2024	4.811	5/28/2027	108.56454	106.6865801	104.8506647	103.055598	101.3002232	99.58342419	97.90412357	96.26128118	94.65389253
ADV1006659	5/31/2024	4.732	5/31/2028	113.3184	110.3503837	107.4769104	104.69446	101.9996668	99.38930798	96.8602965	94.40967482	92.03460869
ADV1006680	6/3/2024	4.924	6/3/2026	103.84953	102.9905324	102.1457906	101.3149542	100.4976816	99.69364198	98.90251542	98.12399215	97.35777229
ADV1006681	6/3/2024	4.731	6/3/2027	108.50175	106.6077255	104.7564421	102.9466808	101.1772694	99.44707618	97.75500831	96.10001016	94.48106185
ADV1006683	6/3/2024	4.637	6/5/2028	113.11459	110.1352904	107.2513345	104.4591638	101.7553689	99.1366857	96.59998864	94.14228365	91.76070211
ADV1006724	6/4/2024	4.536	6/4/2027	108.28597	106.3887501	104.5344495	102.7218417	100.9497471	99.21702686	97.52258142	95.8653487	94.24430272
ADV1006734	6/4/2024	4.987	12/4/2025	101.59643	101.2452873	100.8965749	100.5502696	100.2063467	99.86478157	99.52554992	99.18862787	98.85399184
ADV1006742	6/4/2024	4.992	12/4/2025	101.59819	101.2470369	100.8983207	100.5520117	100.208085	99.86651613	99.52728078	99.19035505	98.85571535
ADV1006757	6/5/2024	4.883	12/5/2025	101.59687	101.2426763	100.8909589	100.5416934	100.1948541	99.85041574	99.50835331	99.16864222	98.83125818
ADV1006759	6/5/2024	4.502	6/5/2029	117.1895	113.1069656	109.1925011	105.4382968	101.8369504	98.38143949	95.06510042	91.88160798	88.8249565
ADV1006780	6/5/2024	4.435	6/1/2029	116.88097	112.8159136	108.9178209	105.1789571	101.5919853	98.14994432	94.84622781	91.67456399	88.62899715
ADV1006781	6/5/2024	4.998	10/31/2025	101.1618	100.9056417	100.6507753	100.397193	100.1448852	99.89384229	99.64405488	99.39551356	99.14820907
ADV1006792	6/6/2024	4.967	12/8/2025	101.6407	101.2783872	100.9186708	100.5615205	100.2069087	99.85480828	99.50519257	99.15803521	98.81331022
ADV1006793	6/6/2024	4.835	6/8/2026	103.83723	102.9644662	102.1064247	101.2627382	100.433048	99.61700734	98.81428064	98.02454341	97.2474816
ADV1006802	6/6/2024	4.287	6/6/2029	116.65591	112.5729673	108.6585258	104.9047423	101.3041812	97.84978958	94.53487542	91.35308715	88.29839471
ADV1006838	6/7/2024	4.941	1/7/2026	102.04627	101.5995542	101.1567627	100.7178439	100.2827471	99.85142224	99.42382031	98.9998931	98.57959323
ADV1006844	6/7/2024	4.772	6/7/2027	108.63207	106.725483	104.8621475	103.0408234	101.2603183	99.51948125	97.81720113	96.15240483	94.52405579
ADV1006845	6/7/2024	4.686	6/7/2028	113.28121	110.2937532	107.4020585	104.6025398	101.8917672	99.26645777	96.7234676	94.25978562	91.87252703
ADV1006846	6/7/2024	4.579	6/7/2029	117.51354	113.4189724	109.493121	105.7281427	102.1165985	98.65143183	95.32594688	92.13378848	89.06892285
ADV1006860	6/10/2024	4.544	6/10/2030	122.03397	116.7769323	111.7841716	107.0409759	102.5335301	98.24885408	94.17474789	90.29974093	86.61304481
ADV1006862	6/10/2024	4.698	6/12/2028	113.38015	110.3769565	107.4704377	104.6569647	101.9330605	99.29539715	96.74078877	94.26618448	91.86866196
ADV1006864	6/10/2024	4.684	6/10/2030	122.34504	117.0921517	112.1028966	107.3626186	102.8575523	98.57476336	94.50209385	90.62811201	86.94206517
ADV1006866	6/10/2024	4.751	6/10/2032	129.84925	122.2920903	115.245029	108.6706748	102.5345689	96.80493922	91.45247788	86.45013836	81.77295015
ADV1006868	6/10/2024	4.737	6/10/2031	126.40525	119.9976056	113.9675153	108.2906265	102.9442819	97.90739216	93.16031961	88.68477117	84.46369985
ADV1006872	6/10/2024	4.778	6/10/2027	108.68351	106.7679491	104.8960105	103.0664432	101.2780399	99.52963537	97.82010492	96.14836244	94.51335898
ADV1006873	6/10/2024	4.612	6/4/2029	117.60423	113.5165569	109.5969644	105.8376503	102.231218	98.77065046	95.44928879	92.26081199	89.19921812
ADV1006874	6/11/2024	4.614	6/1/2029	117.57473	113.4962864	109.5852113	105.8337542	102.2345636	98.7806641	95.46543577	92.28259392	89.22617045
ADV1006912	6/11/2024	4.816	6/11/2026	103.91953	103.0372051	102.1699238	101.3173004	100.478965	99.65455977	98.84373893	98.046168	97.26152346
ADV1006931	6/12/2024	4.404	6/12/2029	116.88976	112.7928626	108.8654714	105.0996739	101.4879705	98.02324864	94.6987606	91.50810313	88.44519797
ADV1006934	6/12/2024	4.933	12/12/2025	101.67854	101.3050477	100.9343111	100.5663021	100.2009903	99.83834611	99.4783402	99.12094372	98.76612823
ADV1006935	6/12/2024	4.796	6/12/2026	103.85306	102.9691298	102.1003075	101.2462043	100.4064478	99.58067776	98.76854632	97.96971687	97.18386385
ADV1006936	6/12/2024	4.561	6/14/2027	108.32724	106.4038393	104.5244889	102.6879159	100.892895	99.13824378	97.42282127	95.74552579	94.10529361
ADV1006937	6/12/2024	4.656	6/12/2026	103.79195	102.9074686	102.0381135	101.1835003	100.3432555	99.5170183	98.70443984	97.90518277	97.1189208

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1006940	6/12/2024	5.018	10/1/2025	100.78411	100.6115844	100.4396497	100.2683021	100.0975387	99.92735646	99.75775242	99.58872367	99.42026728
ADV1006942	6/12/2024	4.955	11/28/2025	101.50667	101.1723393	100.8402103	100.5102628	100.1824753	99.85682687	99.53329643	99.21186342	98.89250749
ADV1006943	6/12/2024	5.018	10/1/2025	100.78411	100.6115844	100.4396497	100.2683021	100.0975387	99.92735646	99.75775242	99.58872367	99.42026728
ADV1006944	6/12/2024	5.018	10/1/2025	100.78411	100.6115844	100.4396497	100.2683021	100.0975387	99.92735646	99.75775242	99.58872367	99.42026728
ADV1006945	6/12/2024	5.018	10/1/2025	100.78411	100.6115844	100.4396497	100.2683021	100.0975387	99.92735646	99.75775242	99.58872367	99.42026728
ADV1006947	6/12/2024	5.018	10/1/2025	100.78411	100.6115844	100.4396497	100.2683021	100.0975387	99.92735646	99.75775242	99.58872367	99.42026728
ADV1006948	6/12/2024	4.955	11/28/2025	101.50667	101.1723393	100.8402103	100.5102628	100.1824753	99.85682687	99.53329643	99.21186342	98.89250749
ADV1006949	6/12/2024	4.955	11/28/2025	101.50667	101.1723393	100.8402103	100.5102628	100.1824753	99.85682687	99.53329643	99.21186342	98.89250749
ADV1006950	6/12/2024	4.952	11/28/2025	101.50567	101.1713402	100.8392132	100.5092678	100.1814824	99.85583596	99.53230756	99.21087657	98.89152265
ADV1006953	6/12/2024	4.55	6/14/2027	108.30642	106.3832242	104.504072	102.6676935	100.8728634	99.11839958	97.40316097	95.72604608	94.08599123
ADV1006954	6/12/2024	4.466	6/12/2028	112.70697	109.7135715	106.8166102	104.012463	101.2976603	98.66888159	96.12294772	93.65681448	91.26756595
ADV1006955	6/12/2024	4.371	6/12/2029	116.76067	112.6662804	108.741319	104.9778778	101.3684599	97.90595537	94.58361924	91.39505066	88.33417371
ADV1006956	6/12/2024	4.382	6/12/2029	116.8037	112.7084745	108.7827031	105.0184765	101.4082968	97.94505313	94.62199969	91.43273482	88.37118179
ADV1006960	6/12/2024	4.668	6/12/2026	103.80248	102.9179425	102.0485378	101.1938755	100.3535822	99.52729715	98.71467135	97.9153675	97.12905927
ADV1006962	6/12/2024	4.822	6/12/2026	103.87585	102.9918159	102.1228861	101.2686768	100.4288153	99.60294163	98.79070773	97.99177701	97.20582388
ADV1006965	6/17/2024	4.601	7/1/2027	108.62507	106.6509092	104.722962	102.8398668	101.0003107	99.20302775	97.44679734	95.73044201	94.05282567
ADV1006966	6/12/2024	4.44	6/12/2029	117.03058	112.9309522	109.0009103	105.2325424	101.6183458	98.15120494	94.82436936	91.63143311	88.56631535
ADV1006967	6/12/2024	4.643	6/14/2027	108.48242	106.5575155	104.6766875	102.8386647	101.042221	99.28617331	97.56937981	95.8907382	94.24918406
ADV1006980	6/13/2024	4.665	6/15/2026	103.8372	102.9442138	102.0666382	101.2040804	100.3561567	99.52249614	98.70274029	97.89654269	97.1035683
ADV1006988	6/13/2024	4.393	6/13/2029	116.85838	112.7592126	108.8297659	105.0621102	101.4487318	97.98250465	94.65666901	91.46481014	88.40083917
ADV1006989	6/13/2024	4.955	12/15/2025	101.725	101.3431106	100.9640993	100.5879379	100.2145942	99.84403646	99.47623348	99.11115444	98.74876901
ADV1006999	6/13/2024	4.935	12/15/2025	101.71739	101.3355116	100.9565179	100.580374	100.2070478	99.83650743	99.4687217	99.10365982	98.74129144
ADV1007000	6/13/2024	4.793	6/15/2026	103.88824	102.9958626	102.1188756	101.2568826	100.4095009	99.57636034	98.75710342	97.95138446	97.1588692
ADV1007001	6/13/2024	4.268	6/13/2029	115.78623	111.8827011	108.140572	104.5522302	101.1104676	97.80845371	94.63971381	91.59810858	88.67781481
ADV1007016	6/13/2024	4.324	6/13/2028	112.52041	109.5220361	106.620472	103.8120695	101.0933395	98.46094254	95.91168232	93.44249808	91.05045838
ADV1007017	6/13/2024	4.543	8/4/2027	108.94144	106.871219	104.8515677	102.880924	100.957788	99.08071631	97.24831962	95.4592602	93.71224959
ADV1007019	6/13/2024	4.42	6/14/2027	108.1966	106.2719752	104.3914743	102.5538227	100.7577919	99.0021967	97.28589304	95.60777662	93.96678111
ADV1007020	6/13/2024	4.251	2/2/2029	115.04598	111.3499613	107.7954162	104.3761452	101.0862555	97.92014407	94.87248202	91.9381995	89.11247158
ADV1007052	6/14/2024	4.323	6/14/2029	116.59582	112.4988816	108.5717382	104.806451	101.1954971	97.73174232	94.40841908	91.21910574	88.157707
ADV1007060	6/14/2024	4.361	5/21/2029	116.46555	112.4392109	108.5771947	104.8718964	101.3161044	97.90297929	94.62603205	91.47910422	88.45634915
ADV1007061	6/14/2024	4.959	12/15/2025	101.72634	101.3444337	100.9654129	100.5892421	100.2158891	99.84532225	99.4775102	99.11242217	98.75002785
ADV1007063	6/14/2024	4.804	6/15/2026	103.89779	103.0053608	102.1283219	101.2662778	100.4188456	99.58565537	98.76634943	97.96058211	97.16801914
ADV1007066	6/14/2024	4.562	6/14/2027	108.32879	106.4053571	104.5259771	102.6893752	100.8943261	99.13964732	97.42419786	95.74687603	94.10661807

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1007068	6/18/2024	4.512	11/1/2027	110.01156	107.6824569	105.4149138	103.2068432	101.0562483	98.96121675	96.9199166	94.93059176	92.9915583
ADV1007075	6/14/2024	4.422	6/14/2027	108.20022	106.2755535	104.3950109	102.5573185	100.7612477	99.00561329	97.2892712	95.61111711	93.97008466
ADV1007076	6/14/2024	4.562	6/14/2027	108.32879	106.4053571	104.5259771	102.6893752	100.8943261	99.13964732	97.42419786	95.74687603	94.10661807
ADV1007096	6/17/2024	4.852	6/17/2026	103.96519	103.0668991	102.1841981	101.3166788	100.4639511	99.62563839	98.80137651	97.99081364	97.1936096
ADV1007098	6/17/2024	4.614	6/17/2027	108.46606	106.5328321	104.6440499	102.7984239	100.994713	99.23171999	97.50828964	95.82330674	94.17569459
ADV1007099	6/17/2024	4.522	6/20/2028	112.96851	109.9484715	107.0263845	104.1985442	101.4614035	98.81156844	96.24579095	93.76096165	91.35410311
ADV1007100	6/17/2024	4.415	6/18/2029	117.00303	112.8866689	108.941266	105.1588147	101.5317234	98.05279379	94.71519831	91.51245931	88.43842914
ADV1007107	6/17/2024	4.278	6/18/2029	116.75951	112.639943	108.6917158	104.9067957	101.2775658	97.79680401	94.45766108	91.25363882	88.17857056
ADV1007114	6/17/2024	4.74	6/18/2029	114.7521	111.4461394	108.2691701	105.2152854	102.2788825	99.45464768	96.73753959	94.12277371	91.60580774
ADV1007146	6/18/2024	4.482	6/20/2028	112.8516	109.8332744	106.9128609	104.0866532	101.3511057	98.70282563	96.13856614	93.65521904	91.24980803
ADV1007153	6/20/2024	4.502	2/25/2028	111.46201	108.7886064	106.1941707	103.6758893	101.2310641	98.85711103	96.55155391	94.31201952	92.13623243
ADV1007157	6/18/2024	4.969	12/18/2025	101.76814	101.3778252	100.9905211	100.606191	100.2248007	99.84631635	99.47070468	99.09793292	98.72796881
ADV1007160	6/18/2024	4.638	1/19/2027	106.52204	105.0245762	103.5559681	102.1154505	100.7022868	99.31576614	97.95520157	96.61992933	95.30930783
ADV1007166	6/18/2024	4.965	12/18/2025	101.76658	101.376273	100.9889726	100.6046462	100.2232595	99.84477877	99.46917069	99.09640251	98.72644196
ADV1007167	6/18/2024	4.805	6/18/2026	103.93604	103.0351214	102.1498858	101.279922	100.4248366	99.58424941	98.75779327	97.94511327	97.14586633
ADV1007168	6/18/2024	4.556	6/18/2027	108.36886	106.433753	104.5431993	102.6959025	100.8906173	99.12614199	97.40131728	95.71502404	94.06618187
ADV1007173	6/18/2024	4.389	6/20/2034	119.6586	114.4963752	109.6522054	105.1029985	100.827533	96.80629297	93.02131891	89.45607224	86.09531282
ADV1007211	6/20/2024	4.562	9/27/2027	109.67859	107.4496784	105.2777573	103.1609666	101.0975186	99.08569843	97.12386011	95.21042334	93.34387023
ADV1007218	6/20/2024	4.777	8/20/2026	104.71231	103.6330982	102.576237	101.5410329	100.5268237	99.53297429	98.55887468	97.60393919	96.66760509
ADV1007219	6/20/2024	4.682	12/21/2026	106.20631	104.7898453	103.3993296	102.0341061	100.6935435	99.37703091	98.08397726	96.81381044	95.56597651
ADV1007220	6/20/2024	4.59	6/21/2027	108.47259	106.5280153	104.6283808	102.7723771	100.9587433	99.18626278	97.4537621	95.76010866	94.10420916
ADV1007227	6/20/2024	4.835	6/22/2026	104.01359	103.1012464	102.2049732	101.3243442	100.4589515	99.60840142	98.77231386	97.95032145	97.14206927
ADV1007228	6/20/2024	4.588	6/21/2027	108.46877	106.5242296	104.6246319	102.7686643	100.9550658	99.18262009	97.45015351	95.75653354	94.10066691
ADV1007230	6/20/2024	4.494	6/20/2028	112.88633	109.8674856	106.9465628	104.1198588	101.383827	98.73507467	96.1703544	93.68655762	91.2807077
ADV1007267	6/21/2024	4.49	6/21/2028	112.8869	109.86519	106.9415851	104.1123675	101.3739815	98.72302511	96.15624279	93.67051808	91.26286688
ADV1007285	12/24/2024	4.775	12/24/2025	101.76568	101.3587875	100.955154	100.5547449	100.1575218	99.76344648	99.37248166	98.9845905	98.59973674
ADV1007317	6/25/2024	4.989	12/26/2025	101.87837	101.4656583	101.0562986	100.6502498	100.2474718	99.84792498	99.45157061	99.05837045	98.66828688
ADV1007329	6/25/2024	4.377	6/25/2029	116.93499	112.7998303	108.8372187	105.0390337	101.3975798	97.90556232	94.55606396	91.3425235	88.25871557
ADV1007342	6/25/2024	4.995	12/26/2025	101.88083	101.4681175	101.0587517	100.6526969	100.2499129	99.8503601	99.45399981	99.06079376	98.67070433
ADV1007351	6/25/2024	4.983	12/26/2025	101.8759	101.4631991	101.0538455	100.6478028	100.2450307	99.84548986	99.44914142	99.05594715	98.66586944
ADV1007352	6/25/2024	4.827	6/25/2026	104.04371	103.1229245	102.2184972	101.3299933	100.4569946	99.59909692	98.75591032	97.92705811	97.11217637
ADV1007353	6/25/2024	4.575	6/25/2027	108.49537	106.5392919	104.62865	102.762119	100.9384174	99.15630936	97.4146029	95.71214781	94.047834
ADV1007378	6/26/2024	4.529	6/26/2030	121.75532	116.470365	111.4530835	106.6884672	102.162426	97.86172749	93.77394071	89.88738328	86.19107274

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1007379	6/26/2024	4.573	6/26/2031	125.57839	119.1485687	113.1006467	107.4098049	102.0529679	97.0086687	92.25692829	87.77914565	83.55799571
ADV1007380	6/26/2024	4.622	6/28/2032	129.1137	121.5298418	114.4617655	107.8713986	101.723672	95.9862696	90.62939908	85.62558233	80.94946463
ADV1007385	6/26/2024	4.302	6/26/2029	116.94692	112.8006218	108.8276461	105.0198228	101.3694102	97.86906971	94.51184355	91.29113249	88.20067566
ADV1007406	6/27/2024	4.515	6/27/2028	113.03398	109.9929956	107.0512395	104.2049356	101.45047	98.7843855	96.20337473	93.70427225	91.28404782
ADV1007410	6/27/2024	4.998	12/29/2025	101.92068	101.4995675	101.0819379	100.6677478	100.2569549	99.84951756	99.44539467	99.04454593	98.64693163
ADV1007413	6/27/2024	4.827	6/29/2026	104.09438	103.1622964	102.2469629	101.3479275	100.4647572	99.59703422	98.74435526	97.90633106	97.08258564
ADV1007414	6/27/2024	4.997	12/29/2025	101.92026	101.4991494	101.0815208	100.6673318	100.25654	99.84910364	99.44498177	99.04413404	98.64652075
ADV1007421	7/1/2024	4.411	6/18/2029	116.99016	112.8741795	108.9291497	105.1470599	101.5203191	98.04172946	94.70446391	91.50204523	88.42832623
ADV1007425	6/27/2024	4.798	7/31/2026	104.47678	103.4542234	102.4517589	101.4687946	100.5047649	99.55912573	98.63135382	97.72094554	96.82741606
ADV1007426	6/27/2024	4.473	6/28/2027	108.47674	106.5098266	104.5888243	102.7123872	100.8792143	99.08805168	97.33768975	95.62696172	93.95474164
ADV1007429	6/27/2024	4.826	6/29/2026	104.09345	103.1613778	102.2460489	101.347018	100.4638521	99.59613352	98.7434589	97.90543897	97.08169778
ADV1007447	6/28/2024	4.576	6/28/2027	108.53603	106.5710882	104.65197	102.7773284	100.9458662	99.15633305	97.40752276	95.69827173	94.02745709
ADV1007449	6/28/2024	4.391	6/28/2029	117.02518	112.8796304	108.907385	105.1002692	101.4505403	97.95085935	94.59426797	91.37416665	88.28429429
ADV1007452	6/28/2024	4.403	6/28/2029	117.07264	112.9261642	108.9530158	105.1450245	101.4944467	97.99394232	94.63655206	91.41567546	88.32505054
ADV1007487	6/28/2024	5.085	9/30/2025	100.77969	100.609927	100.4407365	100.2721125	100.1040521	99.93655239	99.76961072	99.6032243	99.43739038
ADV1007489	6/28/2024	4.799	8/14/2026	104.65732	103.5950814	102.5545034	101.5349289	100.5357256	99.556286	98.59602666	97.65438697	96.73082799
ADV1007515	7/1/2024	5.041	1/2/2026	101.99594	101.5635829	101.1348996	100.7098388	100.2883546	99.87040197	99.45593667	99.04491513	98.63729453
ADV1007522	7/1/2024	4.894	7/1/2026	104.18708	103.2490349	102.3279446	101.4233488	100.5348065	99.66189276	98.80419723	97.9613239	97.13289042
ADV1007585	7/2/2024	4.518	7/2/2029	117.57935	113.4116922	109.4186019	105.5918259	101.9235481	98.40636102	95.03324228	91.79753255	88.69291481
ADV1007586	7/2/2024	4.518	7/2/2029	117.57935	113.4116922	109.4186019	105.5918259	101.9235481	98.40636102	95.03324228	91.79753255	88.69291481
ADV1007610	7/3/2024	4.582	7/6/2027	108.65401	106.6659477	104.7247379	102.8289929	100.9773725	99.16858509	97.40138535	95.67457242	93.98698794
ADV1007622	7/3/2024	4.58	7/6/2027	108.65011	106.6620794	104.7209078	102.8252004	100.9736169	99.16486566	97.39770142	95.67092333	93.98337307
ADV1007623	7/8/2024	4.946	1/8/2026	102.03009	101.581016	101.1359051	100.6947078	100.2573723	99.82384804	99.39408515	98.96803468	98.54564854
ADV1007648	7/5/2024	4.367	7/5/2029	116.47858	112.4397953	108.5713266	104.8650064	101.3131047	97.90830341	94.6436718	91.51264418	88.50899843
ADV1007651	7/5/2024	4.224	7/5/2029	116.74358	112.5759298	108.5835711	104.7581927	101.0919196	97.57728958	94.20723004	90.97503508	87.87434471
ADV1007660	7/5/2024	4.343	7/6/2029	116.92978	112.7637964	108.7729093	104.9488167	101.2836555	97.76997527	94.40071408	91.16917611	88.06901079
ADV1007673	7/5/2024	4.194	7/5/2029	116.62414	112.4588489	108.468775	104.6456113	100.9814853	97.46893768	94.10089816	90.87066324	87.77187519
ADV1007693	7/8/2024	4.357	4/9/2029	115.96029	112.0623155	108.3193722	104.7243824	101.2706384	97.9517783	94.76176632	91.69487348	88.74566012
ADV1007695	7/8/2024	4.378	1/10/2029	114.96486	111.3411717	107.8537318	104.4966774	101.2644304	98.15168206	95.1533784	92.26470641	89.48108135
ADV1007696	7/8/2024	4.411	9/13/2028	113.6602	110.3922402	107.2372383	104.190624	101.2480373	98.40532131	95.65851163	93.00382606	90.437655
ADV1007702	7/8/2024	4.744	1/8/2026	101.97081	101.521527	101.0762122	100.6348176	100.1972916	99.76358307	99.33364222	98.9074199	98.48486784
ADV1007703	7/8/2024	4.366	7/8/2027	108.39682	106.403224	104.4568013	102.5561418	100.6998915	98.88674557	97.11544636	95.38478119	93.69358052
ADV1007720	7/9/2024	4.76	1/9/2026	101.98985	101.5377497	101.0896688	100.6455574	100.2053625	99.76903243	99.33651623	98.90776388	98.48272621

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ADV1007723	7/9/2024	4.593	7/9/2026	104.07027	103.1097291	102.1669825	101.2415381	100.3329221	99.44067759	98.56436415	97.70355708	96.85784667
ADV1007732	7/9/2024	4.894	1/9/2026	102.01886	101.5670491	101.1192544	100.6754217	100.2354985	99.7994331	99.36717473	98.93867354	98.51388054
ADV1007736	7/9/2024	4.517	7/9/2027	108.5633	106.5679263	104.6197768	102.7174405	100.8595614	99.0448325	97.2719944	95.53983256	93.8471757
ADV1007761	7/10/2024	4.57	7/10/2026	104.06073	103.0974701	102.1521043	101.2241391	100.3130965	99.41851565	98.53995259	97.67697905	96.82918198
ADV1007770	7/10/2024	4.353	7/12/2027	108.4198	106.415054	104.4579924	102.5471874	100.6812629	98.85889313	97.07880054	95.33975347	93.64056434
ADV1007786	7/11/2024	4.084	7/11/2029	116.24962	112.0750426	108.0768477	104.2466368	100.5764532	97.05875936	93.68641291	90.4526434	87.35103113
ADV1007787	7/11/2024	4.357	7/12/2027	108.28556	106.2848089	104.3316064	102.424531	100.5622115	98.74332714	96.96660472	95.230817	93.53478053
ADV1007788	7/11/2024	4.292	7/11/2028	112.54162	109.4691464	106.4982364	103.6249716	100.8456072	98.15656325	95.55441686	93.03589409	90.59786267
ADV1007789	7/11/2024	4.221	7/11/2029	116.49788	112.3265362	108.3311839	104.5034481	100.8353986	97.31952268	93.94870085	90.7161841	87.61557267
ADV1007793	7/11/2024	4.233	5/9/2029	115.8394	111.8584025	108.0387906	104.3730941	100.8542343	97.47550112	94.23053135	91.11328833	88.11804319
ADV1007797	7/11/2024	4.612	6/30/2026	103.91086	102.9769597	102.0598894	101.1591983	100.27445	99.40522354	98.55111261	97.71172498	96.88668191
ADV1007801	7/11/2024	4.829	11/28/2025	101.46481	101.1305615	100.7985205	100.4686606	100.1409604	99.81539874	99.49195467	99.17060762	98.85133724
ADV1007814	7/12/2024	4.764	1/12/2026	101.99685	101.5367948	101.0809008	100.629116	100.1813849	99.73765297	99.29786652	98.86197294	98.42992052
ADV1007817	7/12/2024	4.381	7/9/2027	108.29633	106.3036441	104.3581237	102.458366	100.6030164	98.79076937	97.02036675	95.2905953	93.60028494
ADV1007827	7/12/2024	4.093	7/12/2029	116.2962	112.1179146	108.1162789	104.2828707	100.6097169	97.08926443	93.71435652	90.47820939	87.37439087
ADV1007828	7/12/2024	4.233	7/12/2029	116.55654	112.3812657	108.3822463	104.5510933	100.8798599	97.3610176	93.98743242	90.75234177	87.64933325
ADV1007829	7/12/2024	4.234	7/12/2029	116.56054	112.3851814	108.3860852	104.554858	100.8835525	97.3646403	93.99098733	90.75583092	87.65275858
ADV1007830	7/12/2024	4.234	7/12/2029	116.56054	112.3851814	108.3860852	104.554858	100.8835525	97.3646403	93.99098733	90.75583092	87.65275858
ADV1007865	7/15/2024	4.703	1/15/2026	102.00476	101.5363768	101.0723122	100.6125056	100.1568987	99.70543366	99.25805416	98.81470468	98.37533075
ADV1007874	7/15/2024	4.332	7/15/2027	108.27159	106.2627965	104.3019358	102.3875669	100.5183022	98.69280518	96.90978787	95.16800888	93.46627134
ADV1007889	7/15/2024	4.252	3/12/2027	106.72101	105.0703704	103.453558	101.8696005	100.3175612	98.79653906	97.30566679	95.84410929	94.41106214
ADV1007906	7/16/2024	4.081	7/16/2029	116.29013	112.1008618	108.0891644	104.2465557	100.5650004	97.0368879	93.65500785	90.41252677	87.30296638
ADV1007913	7/16/2024	4.594	1/16/2026	101.99758	101.5260791	101.058951	100.5961389	100.1375831	99.68322474	99.2330062	98.78687087	98.34476315
ADV1007923	7/16/2024	4.075	7/16/2029	116.26607	112.0772725	108.0660389	104.2238797	100.5427601	97.01507008	93.63359977	90.39151621	87.28234155
ADV1007924	7/16/2024	4.075	7/16/2029	116.26607	112.0772725	108.0660389	104.2238797	100.5427601	97.01507008	93.63359977	90.39151621	87.28234155
ADV1007925	7/16/2024	4.545	7/16/2026	104.04101	103.0622217	102.1019156	101.1595721	100.2346897	99.32678547	98.43539402	97.56006697	96.70037203
ADV1007927	7/16/2024	4.54	7/16/2026	104.03616	103.0573941	102.0971131	101.1547943	100.2299364	99.32205619	98.43068853	97.55538496	96.6957132
ADV1007928	7/16/2024	4.295	1/18/2028	110.45343	107.9023353	105.4242819	103.0167526	100.6773357	98.40371697	96.19367488	94.04507653	91.95587341
ADV1007939	7/16/2024	4.527	7/16/2026	104.02354	103.0448425	102.0846266	101.1423721	100.2175776	99.30976007	98.41845424	97.54321173	96.68360026
ADV1007941	7/16/2024	4.12	7/17/2028	112.31355	109.2229112	106.2351122	103.3461588	100.5522355	97.84969615	95.2350555	92.704981	90.25628524
ADV1007944	7/16/2024	4.512	7/16/2026	104.00898	103.0303598	102.0702191	101.1280388	100.2033175	99.29557224	98.40433776	97.52916569	96.66962378
ADV1007957	7/17/2024	4.221	7/19/2027	108.24158	106.2195286	104.2460296	102.3196139	100.4388675	98.60242874	96.80898581	95.05727465	93.34607679
ADV1008000	7/23/2024	4.195	7/2/2029	116.29454	112.1521047	108.1834488	104.3803572	100.7350427	97.24012564	93.88861029	90.6738626	87.58958976

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1008001	7/18/2024	4.526	7/20/2026	104.07072	103.0807264	102.1096355	101.1569082	100.2220261	99.30449029	98.40382045	97.51955372	96.65124411
ADV1008009	7/18/2024	4.713	1/20/2026	102.06937	101.5869931	101.1091896	100.6358959	100.1670483	99.70258412	99.24244188	98.7865613	98.3348832
ADV1008011	7/18/2024	4.532	7/20/2026	104.07661	103.0865852	102.1154636	101.1627059	100.2277939	99.31022862	98.40952964	97.52523414	96.65689613
ADV1008031	7/19/2024	4.252	7/19/2027	108.30313	106.2804437	104.3063249	102.3793013	100.4979588	98.66093531	96.8669187	95.11464461	93.4028943
ADV1008042	7/19/2024	4.77	1/20/2026	102.09657	101.6141147	101.1362306	100.6628569	100.1939299	99.72938683	99.26916635	98.8132081	98.3614529
ADV1008099	7/23/2024	4.563	7/23/2026	104.14225	103.1435936	102.1641625	101.2034003	100.260776	99.33577855	98.42791607	97.53671478	96.66171825
ADV1008102	7/23/2024	4.373	7/23/2027	108.44778	106.4154133	104.4320489	102.4961943	100.6064166	98.76133586	96.95962327	95.19999834	93.48122708
ADV1008103	7/23/2024	4.746	1/23/2026	102.12053	101.6297191	101.1436416	100.662227	100.1854082	99.71311951	99.24529646	98.78187578	98.32279537
ADV1008104	7/23/2024	4.563	7/23/2026	104.14225	103.1435936	102.1641625	101.2034003	100.260776	99.33577855	98.42791607	97.53671478	96.66171825
ADV1008109	7/23/2024	4.252	7/23/2029	115.84751	111.8612354	108.0433991	104.3858815	100.8809986	97.52147933	94.30044069	91.21136478	88.24807734
ADV1008134	7/24/2024	4.357	7/24/2026	104.0198	103.018032	102.0356195	101.0720013	100.126641	99.1990226	98.2886492	97.39504244	96.51774146
ADV1008145	7/24/2024	4.328	7/26/2027	108.39368	106.3536982	104.3630936	102.4203598	100.5240474	98.67276076	96.86515599	95.09993844	93.3758606
ADV1008146	7/24/2024	4.302	11/29/2027	109.87573	107.468807	105.1273449	102.8492056	100.632329	98.47473419	96.3745157	94.32984032	92.33894384
ADV1008164	7/25/2024	4.773	10/24/2025	101.01624	100.7796803	100.5442364	100.3099018	100.0766685	99.84452886	99.61347508	99.38349951	99.1545946
ADV1008195	7/25/2024	4.41	7/26/2027	108.55836	106.5166871	104.5244243	102.5800646	100.6821574	98.82930629	97.02016658	95.25344278	93.52788662
ADV1008196	7/25/2024	4.232	7/26/2027	108.3457	106.3034921	104.3107686	102.3660152	100.4677782	98.6146578	96.80530629	95.03842533	93.3127639
ADV1008198	7/25/2024	4.133	7/25/2029	116.59537	112.3750111	108.3345222	104.4652596	100.7590394	97.20811331	93.80514276	90.54317515	87.41562137
ADV1008208	7/26/2024	4.678	1/26/2026	102.12312	101.6240027	101.1297704	100.6403547	100.1556853	99.67569314	99.20031081	98.72947197	98.26311161
ADV1008216	7/26/2024	4.284	7/26/2029	116.27454	112.1338463	108.1691495	104.3719382	100.7341657	97.24821836	93.90688937	90.70335489	87.63115136
ADV1008218	7/26/2024	4.53	7/26/2033	131.76144	122.9775321	114.871183	107.3859873	100.4705264	94.07790531	88.16533288	82.69374243	77.62744962
ADV1008219	7/26/2024	4.588	7/26/2035	137.96112	126.8868317	116.8465069	107.7365922	99.46446384	91.94721867	85.11060615	78.88808346	73.21997782
ADV1008220	7/26/2024	4.464	7/26/2032	128.23968	120.6084943	113.502182	106.8815757	100.710633	94.95617139	89.58762773	84.57683828	79.89783878
ADV1008221	7/26/2024	4.2	7/26/2029	116.57409	112.3596735	108.3247874	104.4608054	100.7595616	97.21332483	93.81477244	90.55696692	87.43333335
ADV1008223	7/26/2024	4.252	7/26/2028	112.58935	109.4748988	106.4647473	103.5548171	100.741213	98.02021378	95.3882638	92.84196424	90.37806545
ADV1008224	7/26/2024	4.252	7/26/2028	112.58935	109.4748988	106.4647473	103.5548171	100.741213	98.02021378	95.3882638	92.84196424	90.37806545
ADV1008225	7/26/2024	4.588	7/26/2035	137.96112	126.8868317	116.8465069	107.7365922	99.46446384	91.94721867	85.11060615	78.88808346	73.21997782
ADV1008226	7/26/2024	4.2	7/26/2029	116.57409	112.3596735	108.3247874	104.4608054	100.7595616	97.21332483	93.81477244	90.55696692	87.43333335
ADV1008228	7/26/2024	4.498	7/26/2034	126.36264	119.0660027	112.3262191	106.0953487	100.3299203	94.9904887	90.04123716	85.44962192	81.18605298
ADV1008231	7/26/2024	4.099	11/26/2029	117.8089	113.2114884	108.8235658	104.6344744	100.6341514	96.8130954	93.16233238	89.67338346	86.33823509
ADV1008232	7/26/2024	4.673	1/26/2026	102.12064	101.621526	101.1273009	100.6378923	100.1532299	99.67324478	99.1978694	98.72703747	98.26068398
ADV1008233	7/26/2024	4.475	7/27/2026	104.10256	103.0930748	102.1032234	101.1324408	100.1801791	99.24591107	98.32912957	97.42934627	96.54609089
ADV1008245	7/29/2024	4.292	7/29/2027	108.35633	106.3085708	104.3105717	102.3608088	100.4578156	98.60018068	96.78654508	95.01559976	93.28608355
ADV1008247	7/29/2024	4.465	7/29/2026	104.11578	103.100705	102.105476	101.1295188	100.172277	99.23321509	98.31181827	97.40759079	96.52005535

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1008249	7/29/2024	4.664	1/29/2026	102.15152	101.6440279	101.141586	100.6441157	100.1515437	99.66379758	99.18080682	98.70250204	98.22881523
ADV1008250	7/29/2024	4.466	7/29/2026	104.11679	103.1017057	102.1064714	101.1305089	100.1732618	99.23419477	98.31279286	97.40856036	96.52101997
ADV1008251	7/29/2024	4.752	7/29/2026	102.36373	101.8153709	101.2745124	100.7409787	100.214604	99.69522793	99.18269515	98.67685519	98.17756222
ADV1008257	7/29/2024	4.184	7/30/2029	116.55222	112.3271765	108.2825904	104.4097633	100.7004673	97.1469129	93.74172405	90.47791329	87.34885946
ADV1008260	7/29/2024	4.444	7/29/2032	128.12241	120.4870341	113.377464	106.7544177	100.5817499	94.82618706	89.45708492	84.44620787	79.76752784
ADV1008263	7/31/2024	4.308	5/25/2027	107.6004	105.739774	103.9206854	102.1419448	100.4024013	98.70094487	97.03650489	95.40804836	93.81457825
ADV1008275	7/30/2024	4.123	7/31/2028	112.47688	109.3452284	106.3190298	103.3941405	100.5666015	97.83263184	95.18861975	92.63111366	90.1568143
ADV1008283	11/1/2024	4.589	10/31/2025	101.09743	100.8316447	100.5672093	100.304109	100.0423336	99.78187325	99.52271804	99.26485824	99.00828421
ADV1008320	7/31/2024	4.126	7/30/2027	108.17848	106.127106	104.1256985	102.1727262	100.2667136	98.40624018	96.58993864	94.81649199	93.0846315
ADV1008323	7/31/2024	4.191	7/31/2028	112.46013	109.3339207	106.312871	103.3928529	100.569922	97.84031124	95.20042164	92.64681392	90.17620036
ADV1008348	8/1/2024	4.031	2/1/2029	113.99057	110.3230123	106.7957839	103.4027391	100.1380383	96.99612885	93.97172915	91.05981409	88.25560101
ADV1008352	8/1/2024	4.511	2/2/2026	102.12453	101.606098	101.0929311	100.5849516	100.0820809	99.58424238	99.09136063	98.60336186	98.12017373
ADV1008361	8/1/2024	4.307	8/3/2026	104.01869	102.9903819	101.9824556	100.9943127	100.0253741	99.07508329	98.142905	97.22832432	96.3308457
ADV1008371	11/15/2024	4.35	11/14/2025	101.18604	100.8807136	100.5771888	100.2754452	99.9754671	99.67723894	99.38074535	99.08597113	98.79290128
ADV1008374	8/1/2024	4.355	2/2/2026	102.07958	101.5608473	101.0473884	100.5391258	100.0359808	99.53787621	99.04473665	98.55648805	98.07305784
ADV1008382	8/2/2024	4.49	8/4/2025	100.04903	100.0379039	100.0267874	100.0156814	100.0045861	99.99350126	99.98242702	99.9713633	99.9603101
ADV1008387	8/2/2024	3.946	8/3/2026	103.7213	102.6935596	101.6862195	100.6986764	99.73035041	98.780684	97.84914107	96.93520591	96.0383822
ADV1008388	8/2/2024	4.208	2/2/2026	101.96736	101.449381	100.9366701	100.4291431	99.92672175	99.42932919	98.93689019	98.44933097	97.96657924
ADV1008389	8/2/2024	3.794	8/2/2029	115.00815	110.8058441	106.7836764	102.9329443	99.24541312	95.71328871	92.3291911	89.08613027	85.97748343
ADV1008391	8/2/2024	3.99	9/16/2026	104.16216	103.0117207	101.8867554	100.7864259	99.70992845	98.65649372	97.62538527	96.61589775	95.62735529
ADV1008394	8/2/2024	4.446	8/4/2025	100.0485	100.0373704	100.0262543	100.0151488	100.0040539	99.99296947	99.98189564	99.97083234	99.95977956
ADV1008396	8/2/2024	3.86	8/2/2028	111.4797	108.3629442	105.3512934	102.4406101	99.62694475	96.90652563	94.27574983	91.73117452	89.26950889
ADV1008398	8/2/2024	3.791	8/2/2029	114.99599	110.7939287	106.7719976	102.9214947	99.23418565	95.70227658	92.31838777	89.07552945	85.96707907
ADV1008399	8/2/2024	4.399	8/4/2025	100.04868	100.0375452	100.0264218	100.0153091	100.0042071	99.99311569	99.98203493	99.97096478	99.95990523
ADV1008404	8/2/2024	3.886	8/2/2027	107.58473	105.5340828	103.5335082	101.5814694	99.67648357	97.8171235	96.00201544	94.22983645	92.4993122
ADV1008405	8/2/2024	4.049	8/3/2026	103.7548	102.7279102	101.7213881	100.7346302	99.76705793	98.8181151	97.8872669	96.97399879	96.07781561
ADV1008406	8/2/2024	4.505	8/4/2025	100.04921	100.0380858	100.0269691	100.015863	100.0047675	99.99368256	99.98260817	99.97154431	99.96049096
ADV1008407	8/2/2024	3.891	8/2/2027	107.59488	105.5441201	103.5434426	101.5913028	99.68621791	97.82676071	96.01155735	94.23928486	92.50866886
ADV1008410	8/2/2024	3.883	8/2/2027	107.57865	105.5280604	103.5275476	101.5755694	99.67064296	97.81134118	95.99629029	94.2241674	92.49369821
ADV1008411	8/2/2024	3.804	8/2/2029	115.04868	110.8455622	106.8226059	102.9711097	99.28283802	95.74999582	92.36520221	89.12146634	86.01216462
ADV1008413	8/2/2024	4.029	8/3/2026	103.73438	102.7076033	101.7011913	100.7145421	99.74707695	98.79823984	97.86749593	96.95433074	96.05824912
ADV1008416	8/2/2024	3.874	8/2/2027	107.56039	105.5099931	103.5096658	101.5578694	99.65312115	97.79399421	95.97911484	94.20716025	92.47685623
ADV1008417	8/2/2024	3.857	8/2/2028	111.47057	108.3539559	105.3424407	102.4318896	99.61835315	96.89805976	94.26740661	91.72295098	89.26140214

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1008418	8/2/2024	3.791	8/2/2029	114.99599	110.7939287	106.7719976	102.9214947	99.23418565	95.70227658	92.31838777	89.07552945	85.96707907
ADV1008419	8/2/2024	3.865	8/2/2027	107.54214	105.4919259	103.4917839	101.5401693	99.63559934	97.77664723	95.9619394	94.19015311	92.46001425
ADV1008420	8/2/2024	4.48	8/4/2025	100.04891	100.0377827	100.0266662	100.0155604	100.0044651	99.9933804	99.98230625	99.97124263	99.96018952
ADV1008424	8/2/2024	3.748	8/2/2028	111.36133	108.241193	105.2264027	102.3128073	99.49644447	96.77353029	94.14045038	91.59375114	89.13013161
ADV1008425	8/2/2024	4.221	2/2/2026	101.97408	101.4560822	100.9433513	100.4358046	99.93336357	99.43595152	98.94349316	98.45591472	97.9731439
ADV1008426	8/2/2024	3.679	8/2/2029	114.84312	110.6358062	106.6090956	102.7542516	99.0630096	95.52754779	92.14046026	88.89473292	85.78372052
ADV1008432	8/5/2024	3.693	8/5/2027	107.22435	105.1692429	103.1644559	101.2084384	99.29969548	97.43678841	95.61833255	93.84299471	92.10949089
ADV1008438	8/5/2024	4.458	8/12/2025	100.13662	100.1032942	100.0700057	100.0367564	100.0035461	99.97037468	99.93724217	99.90414847	99.87109349
ADV1008441	8/5/2024	3.734	8/6/2029	114.80375	110.5944415	106.5659903	102.7096407	99.01710785	95.4805514	92.09254846	88.84606934	85.73445447
ADV1008442	8/5/2024	3.826	8/7/2028	111.4277	108.297948	105.2740794	102.3519124	99.527455	96.79689569	94.15659415	91.60307251	89.13300709
ADV1008443	8/5/2024	3.838	9/7/2027	107.8786	105.72592	103.627375	101.5812312	99.58582472	97.63955761	95.74089453	93.8883598	92.0805346
ADV1008444	8/5/2024	3.836	10/5/2027	108.18272	105.948383	103.7717047	101.65078	99.58378393	97.56896676	95.60464984	93.68922221	91.82113724
ADV1008448	8/5/2024	3.892	8/5/2027	107.62967	105.5703408	103.5614218	101.601353	99.6886372	97.82183344	95.99955495	94.22046651	92.48328216
ADV1008449	8/5/2024	3.821	8/6/2029	115.15734	110.9409104	106.9055615	103.0425294	99.343521	95.80068776	92.40659906	89.15421785	86.03687755
ADV1008450	8/5/2024	3.892	8/5/2027	107.62967	105.5703408	103.5614218	101.601353	99.6886372	97.82183344	95.99955495	94.22046651	92.48328216
ADV1008451	8/5/2024	4.008	8/5/2031	122.50142	116.0515076	109.9926957	104.2990834	98.94662247	93.91297178	89.17736782	84.72050529	80.52442737
ADV1008452	8/5/2024	3.976	8/5/2026	103.7733	102.739746	101.7268215	100.7339102	99.7604224	98.80579173	97.86947345	96.9509437	96.04969844
ADV1008462	8/7/2024	3.893	8/2/2027	107.59849	105.547693	103.546975	101.594795	99.68967018	97.83017337	96.01493069	94.24261917	92.51196443
ADV1008468	8/5/2024	4.047	8/5/2026	103.77411	102.7416006	101.7296776	100.737732	99.76517579	98.81144391	97.87599296	96.95830035	96.05786324
ADV1008469	8/5/2024	4.42	8/5/2025	100.05986	100.0459467	100.032043	100.018153	100.0042767	99.99041408	99.97656515	99.96272987	99.94890821
ADV1008471	8/5/2024	4.406	8/5/2025	100.05966	100.0457387	100.0318351	100.0179452	100.0040691	99.99020669	99.97635793	99.96252281	99.94870132
ADV1008472	8/5/2024	3.867	8/5/2027	107.57875	105.5199516	103.5115517	101.5519919	99.63977518	97.77346095	95.95166269	94.17304543	92.43632346
ADV1008476	8/5/2024	4.474	8/5/2025	100.05973	100.0458184	100.0319237	100.0180426	100.0041752	99.99032126	99.97648094	99.96265415	99.94884089
ADV1008502	8/6/2024	4.121	8/6/2026	103.86087	102.8251224	101.81008	100.8151276	99.83967238	98.88314452	97.94499628	97.02470089	96.12175158
ADV1008503	10/4/2024	3.864	10/4/2027	108.23384	106.001658	103.827021	101.7080294	99.64286386	97.62977986	95.66710369	93.75322904	91.88661368
ADV1008505	8/6/2024	4.334	2/6/2026	102.075	101.5456481	101.0217991	100.5033635	99.99025739	99.48239887	98.97970759	98.48210484	97.98951353
ADV1008506	10/4/2024	3.867	10/4/2027	108.24045	106.0081929	103.8334834	101.7144208	99.64918565	97.63603344	95.67329042	93.75935024	91.89267062
ADV1008508	8/6/2024	4.559	8/6/2025	100.07211	100.0554229	100.0387489	100.0220917	100.0054514	99.98882781	99.97222096	99.95563082	99.93905736
ADV1008509	8/6/2024	4.127	8/6/2026	103.86705	102.8312633	101.8161873	100.8212018	99.84571393	98.88915385	97.95097383	97.03064709	96.12766684
ADV1008510	8/6/2024	3.806	8/6/2029	115.39892	111.1692465	107.1213761	103.2465049	99.53629997	95.98287527	92.57876524	89.31690003	86.1905823
ADV1008511	8/6/2024	3.955	8/6/2027	107.76898	105.705463	103.6924927	101.7285024	99.81198928	97.94150723	96.11566446	94.33312101	92.59258641
ADV1008512	8/6/2024	3.806	8/6/2029	115.39892	111.1692465	107.1213761	103.2465049	99.53629997	95.98287527	92.57876524	89.31690003	86.1905823
ADV1008517	8/6/2024	4.462	8/6/2025	100.07153	100.0548329	100.0381487	100.0214814	100.0048311	99.98819761	99.97158103	99.95498127	99.93839832

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1008522	8/6/2024	4.109	8/7/2026	103.85945	102.8209573	101.8032824	100.8058034	99.82792271	98.869066	97.92868132	97.00623785	96.10122498
ADV1008523	8/6/2024	3.939	8/6/2027	107.73634	105.6731712	103.6605339	101.6968702	99.78067738	97.91050946	96.08497484	94.30273373	92.56249583
ADV1008531	8/7/2024	4.353	2/9/2026	102.11715	101.5794012	101.0473306	100.5208456	99.99985837	99.48428301	98.97403533	98.46903287	97.9691949
ADV1008545	8/7/2024	4.577	8/7/2025	100.0836	100.0641303	100.0446781	100.0252461	100.0058342	99.98644237	99.96707063	99.94771891	99.92838718
ADV1008546	8/7/2024	4.17	8/7/2026	103.92224	102.8833893	101.865364	100.8675397	99.88931845	98.93012603	97.98941028	97.0666403	96.16130535
ADV1008547	8/7/2024	3.99	8/9/2027	107.87393	105.8011223	103.7792019	101.8065893	99.88176677	98.00327403	96.16970592	94.37970983	92.63198332
ADV1008557	8/7/2024	4.096	8/7/2026	103.84588	102.8074519	101.7898429	100.7924291	99.81461276	98.85581967	97.91549785	96.99311651	96.08816505
ADV1008570	8/8/2024	3.887	8/8/2029	115.74905	111.5067111	107.4468269	103.5605542	99.83952386	96.27581597	92.86193345	89.59077696	86.45562159
ADV1008577	8/8/2024	4.076	8/10/2026	103.93067	102.8824497	101.8554242	100.848956	99.86243157	98.8952614	97.94687919	97.01674054	96.10432191
ADV1008595	8/9/2024	3.986	8/9/2027	107.86513	105.7924044	103.7705596	101.7980209	99.87327044	97.99484808	96.1613487	94.37141974	92.62375879
ADV1008596	8/9/2024	4.59	8/11/2025	100.1287	100.0981014	100.0675401	100.0370138	100.0065225	99.97606619	99.94564472	99.91525804	99.88490609
ADV1008597	8/9/2024	4.591	8/11/2025	100.12873	100.0981326	100.0675713	100.037045	100.0065537	99.97609736	99.94567586	99.91528916	99.88493719
ADV1008598	8/9/2024	4.551	9/19/2025	100.56779	100.4287686	100.2901448	100.1519172	100.0140841	99.87664381	99.73959454	99.60293462	99.46666237
ADV1008612	8/12/2024	4.364	2/12/2026	102.15458	101.6084182	101.0681117	100.5335649	100.0046857	99.48138419	98.96357226	98.45116366	97.94407395
ADV1008616	8/12/2024	4.385	8/12/2026	102.18739	101.6438375	101.1079881	100.5796596	100.0586755	99.5448651	99.03806343	98.53811075	98.04485247
ADV1008617	8/12/2024	4.497	8/12/2025	100.139	100.1055985	100.0722398	100.0389205	100.0056405	99.97239981	99.93919832	99.90603596	99.87291264
ADV1008618	8/12/2024	4.287	2/12/2026	102.15049	101.6038822	101.0631363	100.5281607	99.99886312	99.4751534	98.95694312	98.44414579	97.9366767
ADV1008646	8/13/2024	3.838	8/13/2029	115.29543	111.0567007	107.0006403	103.1183704	99.40149758	95.84208029	92.43260161	89.16594422	86.03536698
ADV1008647	8/13/2024	3.885	8/13/2027	107.70183	105.619868	103.5891855	101.6081877	99.67533854	97.78916051	95.94823217	94.15118551	92.39670353
ADV1008648	8/15/2024	3.881	8/16/2027	107.72612	105.635704	103.5968989	101.6080931	99.66773564	97.77433536	95.92645767	94.1227222	92.36180024
ADV1008666	8/14/2024	4.249	2/17/2026	102.14403	101.5841263	101.0303706	100.4826647	99.94090973	99.40500892	98.87486753	98.35039289	97.83149433
ADV1008670	8/14/2024	4.054	8/14/2026	103.87688	102.8189775	101.7826753	100.7673175	99.77227296	98.79693555	97.84072312	96.90307626	95.98345724
ADV1008677	8/14/2024	4.411	8/14/2025	100.15788	100.1189204	100.0800088	100.0411455	100.0023302	99.9635628	99.92484329	99.88617154	99.84754745
ADV1008678	8/14/2024	4.496	8/14/2025	100.15861	100.1196716	100.0807849	100.0419461	100.003155	99.9644116	99.92571573	99.88706732	99.84846628
ADV1008686	8/14/2024	3.893	8/16/2027	107.75107	105.6603961	103.6213388	101.6322856	99.69168571	97.79804758	95.94993657	94.14597219	92.38482561
ADV1008713	8/15/2024	3.965	8/15/2029	115.28143	111.1698023	107.2354114	103.4695697	99.86406684	96.41114059	93.1034498	89.93404885	86.89636406
ADV1008716	8/15/2024	4.461	12/18/2025	101.57106	101.1812279	100.7944037	100.4105506	100.0296345	99.6516215	99.27647842	98.90417252	98.53467154
ADV1008717	8/15/2024	4.437	1/15/2026	101.88062	101.4125752	100.9488507	100.489382	100.0341106	99.58297891	99.13593056	98.69291006	98.25386294
ADV1008720	8/15/2024	4.228	8/17/2026	104.09336	103.0259735	101.9805409	100.9563915	99.95287935	98.96938405	98.00531005	97.06008522	96.13315972
ADV1008766	8/26/2024	4.144	8/26/2026	104.10186	103.0096041	101.9403229	100.8932996	99.86784335	98.86329208	97.87901042	96.91438854	95.96884089
ADV1008768	8/26/2024	3.971	8/26/2027	108.02237	105.9014558	103.8333151	101.816276	99.84873719	97.92915949	96.05606311	94.22802487	92.44367554
ADV1008771	8/19/2024	3.982	8/19/2027	107.96793	105.8667405	103.8175461	101.8187114	99.8686696	97.96591437	96.10899681	94.29652294	92.52715122
ADV1008800	8/20/2024	3.845	8/20/2029	115.39328	111.1330827	107.0571133	103.1563898	99.42241894	95.84716638	92.42302916	89.14281005	85.99969362

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1008819	8/20/2024	4.106	8/20/2026	103.99611	102.920989	101.8681588	100.8369277	99.82663506	98.83664695	97.86635478	96.9151741	95.9825434
ADV1008825	8/21/2024	4.509	8/21/2025	100.23612	100.1777235	100.1194144	100.0611883	100.0030451	99.9449845	99.88700639	99.82911059	99.77129691
ADV1008826	8/21/2024	4.509	8/21/2025	100.23612	100.1777235	100.1194144	100.0611883	100.0030451	99.9449845	99.88700639	99.82911059	99.77129691
ADV1008827	8/21/2024	4.231	2/23/2026	102.19538	101.6187591	101.04865	100.4849458	99.92753874	99.37632372	98.83119783	98.29206047	97.75881322
ADV1008829	8/21/2024	4.056	8/21/2026	103.95337	102.8757358	101.8205041	100.7869761	99.77448626	98.78239604	97.81009255	96.85698724	95.92251472
ADV1008832	8/21/2024	3.867	8/23/2027	107.77261	105.6625703	103.6049171	101.5979998	99.64023329	97.73009367	95.86611573	94.04689004	92.27106041
ADV1008837	8/21/2024	4.507	8/21/2025	100.236	100.1776062	100.1192972	100.0610712	100.0029281	99.94486762	99.88688961	99.82899391	99.77118032
ADV1008842	8/21/2024	4.074	8/21/2026	103.97263	102.8948872	101.8395468	100.8059117	99.79331629	98.801122	97.82871588	96.87550937	95.94093704
ADV1008843	8/21/2024	4.244	2/23/2026	102.20285	101.6262039	101.0560705	100.4923421	99.93491107	99.38367229	98.83852282	98.29936207	97.76609162
ADV1008845	11/21/2024	4.228	8/21/2025	100.25904	100.1990135	100.1390677	100.0792071	100.0194318	99.95974141	99.90013582	99.84061485	99.7811783
ADV1008846	8/21/2024	4.493	8/21/2025	100.23518	100.1767853	100.118477	100.0602517	100.0021093	99.94404946	99.88607215	99.82817714	99.77036426
ADV1008861	8/22/2024	4.111	8/24/2026	104.04486	102.9584479	101.8947794	100.8531465	99.83286863	98.8332932	97.85379382	96.89376922	95.95264196
ADV1008862	8/22/2024	3.953	8/23/2027	107.95185	105.8399042	103.7803774	101.7716237	99.8120567	97.90015166	96.03444233	94.21351834	92.43602259
ADV1008895	8/23/2024	4.498	8/25/2025	100.27931	100.2098056	100.140406	100.0711128	100.0019259	99.93284501	99.86386984	99.79500019	99.7262358
ADV1008903	8/23/2024	4.418	8/25/2025	100.27833	100.2087781	100.1393336	100.0699962	100.0007655	99.93164145	99.86262367	99.79371194	99.72490603
ADV1008905	8/23/2024	3.952	8/24/2026	103.94872	102.8617416	101.7975455	100.7554167	99.7346731	98.73466064	97.75475161	96.79434349	95.85285759
ADV1008938	8/26/2024	3.994	8/26/2026	103.9393	102.8479852	101.7796316	100.7335222	99.70896683	98.7053035	97.7218972	96.75813841	95.81344188
ADV1008945	8/26/2024	3.761	8/26/2027	107.73304	105.6123392	103.5444697	101.5277598	99.56060452	97.64146155	95.76884812	93.94133823	92.15755999
ADV1008946	8/26/2024	3.841	8/26/2027	107.75013	105.6321297	103.5668395	101.5525945	99.58779491	97.67090316	95.80044092	93.97498645	92.19317191
ADV1008967	8/26/2024	4.397	8/26/2025	100.28773	100.215404	100.1431869	100.0710831	99.99909235	99.92721439	99.85544896	99.78379579	99.71225461
ADV1008970	8/26/2024	4.476	8/26/2025	100.28868	100.2163968	100.1442265	100.072169	100.0002239	99.92839101	99.85667007	99.78506083	99.71356301
ADV1008974	8/26/2024	4.187	2/26/2026	102.2002	101.6152898	101.0370758	100.4654457	99.90028717	99.34149087	98.78894973	98.24255907	97.70221658
ADV1009003	8/26/2024	3.951	8/26/2026	103.96886	102.8762448	101.8066411	100.7593241	99.73360165	98.72881021	97.74431314	96.77949939	95.83378225
ADV1009012	8/26/2024	4.489	8/26/2025	100.28962	100.2173369	100.1451659	100.0731075	100.0011616	99.92932796	99.85760622	99.78599618	99.71449756
ADV1009013	8/26/2024	4.034	8/26/2026	103.98265	102.8910836	101.8224826	100.7761295	99.7513339	98.74743379	97.76379405	96.79980511	95.85488161
ADV1009014	8/26/2024	3.869	8/26/2027	107.80877	105.6901384	103.6242342	101.6093874	99.64399787	97.7265276	95.85549801	94.02948704	92.24712654
ADV1009023	8/26/2024	4.492	8/26/2025	100.28984	100.2175539	100.1453826	100.0733241	100.001378	99.92954418	99.85782226	99.78621203	99.71471323
ADV1009026	8/26/2024	4.206	2/26/2026	102.21127	101.626324	101.0480735	100.4764071	99.91121268	99.35238074	98.79980423	98.25337851	97.71300122
ADV1009074	8/27/2024	3.885	8/27/2027	107.85307	105.731242	103.6622521	101.6444337	99.67618134	97.75595222	95.88226308	94.05368747	92.26885308
ADV1009082	8/27/2024	4.187	8/26/2033	129.23947	120.4689742	112.3832029	104.9245683	98.04062262	91.68357645	85.80986243	80.37974138	75.35694724
ADV1009083	8/27/2024	4.027	8/27/2026	103.98561	102.8912738	101.8200167	100.7711163	99.74387749	98.7376334	97.75174448	96.78559691	95.83860133
ADV1009084	8/27/2024	3.811	8/27/2029	115.32242	111.0441954	106.9516611	103.0357294	99.28781074	95.69978136	92.26395542	88.97305884	85.8202049
ADV1009085	8/27/2024	3.854	8/25/2028	111.69719	108.5135851	105.4388832	102.4687259	99.59895974	96.82562219	94.14493112	91.55327568	89.04720734

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1009086	8/27/2024	3.817	8/1/2029	114.22746	110.2616117	106.464304	102.8273655	99.34307057	96.00411081	92.80357002	89.7349008	86.79190274
ADV1009087	10/1/2024	3.806	10/1/2027	108.07462	105.8524045	103.6873194	101.5774861	99.521104	97.51644628	95.56185589	93.65574224	91.79657793
ADV1009092	8/27/2024	4.029	8/27/2026	103.98779	102.8934341	101.8221646	100.773252	99.74600107	98.73974508	97.75384444	96.78768531	95.84067833
ADV1009097	8/27/2024	3.831	8/28/2028	111.65676	108.4655069	105.3836287	102.4067405	99.53066259	96.75140796	94.06517157	91.46832108	88.95738782
ADV1009134	8/28/2024	3.914	8/28/2026	103.94961	102.8515965	101.7768182	100.7245429	99.69406866	98.68472233	97.69585841	96.7268574	95.77712459
ADV1009139	8/28/2024	3.999	8/28/2026	103.96566	102.8686864	101.7949048	100.7435872	99.71403328	98.70557166	97.71755832	96.74937521	95.80042902
ADV1009152	8/29/2024	4.198	2/27/2026	102.21647	101.6287656	101.0478204	100.4735189	99.9057476	99.34439553	98.78935426	98.24051776	97.6977824
ADV1009154	8/29/2024	3.884	8/30/2027	107.88352	105.7531731	103.6760044	101.6503288	99.6745257	97.74703818	95.86636957	94.03108074	92.23978741
ADV1009155	8/29/2024	3.862	8/29/2028	111.7634	108.5677289	105.4816351	102.5007267	99.6208138	96.83789961	94.14817002	91.54798412	89.03386517
ADV1009156	8/29/2024	3.808	8/29/2029	115.32964	111.0457105	106.9479099	103.0271176	99.2747157	95.68255405	92.24292247	88.94852426	85.79245166
ADV1009168	8/29/2024	4.039	8/31/2026	104.04128	102.935604	101.8534759	100.7941451	99.75689642	98.74104388	97.7459299	96.77092354	95.81541925
ADV1009169	8/29/2024	3.827	8/29/2029	115.40805	111.1225199	107.0231668	103.1008711	99.34701285	95.75344015	92.31244099	89.01671697	85.85935872
ADV1009198	8/30/2024	4.425	8/29/2025	100.38138	100.2974151	100.2135921	100.1299076	100.0463613	99.96295281	99.87968177	99.79654788	99.7135508
ADV1009199	8/30/2024	4.049	8/31/2026	104.05225	102.9465143	101.8643229	100.8049298	99.76761959	98.75170649	97.75653281	96.78146759	95.82590527
ADV1009202	8/30/2024	3.898	8/30/2027	107.91299	105.7823277	103.704849	101.6788695	99.70276845	97.77498882	95.89403374	94.05846394	92.26689497
ADV1009206	8/30/2024	4.054	8/31/2026	104.05774	102.9519695	101.8697464	100.8103221	99.77298118	98.75703779	97.76183426	96.78673961	95.83114828
ADV1009228	9/3/2024	3.768	9/3/2027	107.83831	105.6943829	103.6042243	101.5661187	99.57841945	97.63954453	95.74797375	93.90224574	92.10095514
ADV1009240	9/3/2024	3.792	9/4/2029	115.32713	111.0263665	106.9130713	102.97803	99.21253573	95.60835604	92.15770448	88.85321364	85.68791022
ADV1009244	9/3/2024	3.868	9/3/2027	107.89792	105.7562796	103.668294	101.6322537	99.64651683	97.70950602	95.81970546	93.9756579	92.17596194
ADV1009248	9/3/2024	3.937	12/16/2026	105.10442	103.7096303	102.3401811	100.9954407	99.67479753	98.37765978	97.10345454	95.85162708	94.62164018
ADV1009249	9/3/2024	3.843	12/15/2027	108.9673	106.5275694	104.1553715	101.8484617	99.60468446	97.42196796	95.29832048	93.23182676	91.22064458
ADV1009261	9/4/2024	4.365	9/4/2025	100.38129	100.283991	100.1868885	100.0899803	99.99326588	99.89674463	99.80041596	99.70427926	99.60833396
ADV1009270	9/4/2024	4.291	9/4/2025	100.38047	100.2831099	100.185943	100.0889713	99.99219416	99.89561107	99.79922137	99.70302447	99.60701976
ADV1009271	9/4/2024	4.291	9/4/2025	100.38047	100.2831099	100.185943	100.0889713	99.99219416	99.89561107	99.79922137	99.70302447	99.60701976
ADV1009291	9/5/2024	3.683	12/5/2028	112.19088	108.7139312	105.3647288	102.1379109	99.02837003	96.03123911	93.14187821	90.35586301	87.66897361
ADV1009297	9/5/2024	3.631	9/5/2029	114.97746	110.6723898	106.5553776	102.6171698	98.84901701	95.24264749	91.79023833	88.48438835	85.31809295
ADV1009298	9/5/2024	3.617	9/5/2029	114.91932	110.6154386	106.4995838	102.5624967	98.79542919	95.19011113	91.73872088	88.43385853	85.26852071
ADV1009305	9/5/2024	3.995	3/5/2026	102.20163	101.5969375	100.9994061	100.4089128	99.82533371	99.24854762	98.67843628	98.11488413	97.5577783
ADV1009308	9/5/2024	3.871	9/8/2026	103.94324	102.8161233	101.7135005	100.6345765	99.57859247	98.54482147	97.53256713	96.54116194	95.56996575
ADV1009312	9/5/2024	3.873	9/8/2026	103.94548	102.818351	101.715715	100.6367781	99.58078124	98.54699766	97.53473093	96.54331352	95.57210529
ADV1009314	9/5/2024	3.781	1/5/2028	109.03745	106.5396061	104.1124127	101.7534681	99.46046965	97.23120653	95.06355525	92.9554757	90.90500734
ADV1009327	9/6/2024	4.029	3/6/2026	102.18965	101.5827644	100.9830964	100.3905181	99.80490412	99.22613203	98.65408226	98.088638	97.52968517
ADV1009332	9/6/2024	4.267	9/8/2025	100.41344	100.3050334	100.1968763	100.0889642	99.98129591	99.87387078	99.76668789	99.65974639	99.55304544

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ADV1009336	9/6/2024	3.698	9/8/2026	103.82788	102.7002737	101.5971921	100.5178421	99.46146303	98.42732659	97.41473489	96.42301903	95.45153755
ADV1009337	9/6/2024	3.786	9/4/2026	103.80739	102.6920866	101.6007818	100.5327084	99.48712964	98.46333965	97.46066188	96.47844751	95.5160741
ADV1009353	9/9/2024	3.541	9/10/2029	114.65069	110.3380584	106.2144209	102.270445	98.49731287	94.88668991	91.43069507	88.12187352	84.95317114
ADV1009354	9/9/2024	3.541	9/10/2029	114.65069	110.3380584	106.2144209	102.270445	98.49731287	94.88668991	91.43069507	88.12187352	84.95317114
ADV1009355	9/9/2024	3.541	9/10/2029	114.65069	110.3380584	106.2144209	102.270445	98.49731287	94.88668991	91.43069507	88.12187352	84.95317114
ADV1009390	9/10/2024	3.564	9/10/2029	114.43768	110.1381148	106.0268036	102.0944557	98.33229547	94.73202729	91.2858067	87.98621316	84.82622461
ADV1009392	9/10/2024	4.128	10/10/2025	100.72266	100.5252874	100.3286986	100.1328912	99.9378605	99.74360189	99.55011068	99.35738227	99.16541208
ADV1009393	9/10/2024	4.128	10/10/2025	100.72266	100.5252874	100.3286986	100.1328912	99.9378605	99.74360189	99.55011068	99.35738227	99.16541208
ADV1009394	9/10/2024	3.563	9/10/2029	114.43352	110.1340397	106.0228114	102.0905439	98.3284615	94.72826871	91.28212117	87.98259844	84.82267853
ADV1009395	9/10/2024	4.122	10/10/2025	100.72148	100.524102	100.3275149	100.1317092	99.93668022	99.7424233	99.54893377	99.35620703	99.1642385
ADV1009397	9/10/2024	4.2	9/10/2025	100.42599	100.3120155	100.1983173	100.0848901	99.97173302	99.85884492	99.74622485	99.6338718	99.52178479
ADV1009404	9/10/2024	3.947	3/10/2026	102.17747	101.5596116	100.9492364	100.3462112	99.75040344	99.16168398	98.57992657	98.005008	97.43680796
ADV1009405	9/10/2024	3.947	3/10/2026	102.17747	101.5596116	100.9492364	100.3462112	99.75040344	99.16168398	98.57992657	98.005008	97.43680796
ADV1009406	9/10/2024	3.947	3/10/2026	102.17747	101.5596116	100.9492364	100.3462112	99.75040344	99.16168398	98.57992657	98.005008	97.43680796
ADV1009407	9/10/2024	3.95	9/10/2026	104.05199	102.9186895	101.8101331	100.7255146	99.66406371	98.62504299	97.60774593	96.61149546	95.63564242
ADV1009409	9/10/2024	3.95	9/10/2026	104.05199	102.9186895	101.8101331	100.7255146	99.66406371	98.62504299	97.60774593	96.61149546	95.63564242
ADV1009418	9/11/2024	4.04	12/11/2025	101.33566	100.965718	100.5984867	100.2339383	99.87204319	99.51277247	99.1560975	98.8019901	98.45042247
ADV1009420	9/11/2024	3.627	3/11/2027	105.57448	103.9382177	102.3354493	100.7652107	99.22657637	97.71865584	96.24059191	94.7915591	93.3707622
ADV1009421	9/11/2024	3.91	3/11/2026	102.16412	101.5435473	100.930531	100.3249297	99.72660935	99.13543891	98.5512905	97.9740393	97.40356343
ADV1009423	9/11/2024	3.892	3/11/2026	102.19622	101.5749924	100.9613358	100.355109	99.75617709	99.16440887	98.57967605	98.00185343	97.43081876
ADV1009445	9/12/2024	4.26	9/12/2025	100.4537	100.3341595	100.2149146	100.0959676	99.97731732	99.85896254	99.74090215	99.62313501	99.50565998
ADV1009446	9/12/2024	3.779	9/14/2026	103.89971	102.7563182	101.6381353	100.5443356	99.47412693	98.42675105	97.40148202	96.3976244	95.41451165
ADV1009447	9/12/2024	3.644	9/13/2027	107.52806	105.3623102	103.2513494	101.1934089	99.18679369	97.22987647	95.32109421	93.45894515	91.64198583
ADV1009462	9/12/2024	3.629	9/13/2027	107.49589	105.3304941	103.2198775	101.1622744	99.15598982	97.19939674	95.29093229	93.42909488	91.61244123
ADV1009463	9/12/2024	3.626	9/12/2028	111.17007	107.944249	104.8301928	101.8233722	98.91947044	96.11437179	93.40415118	90.78506391	88.25353613
ADV1009481	9/13/2024	4.073	9/13/2034	130.89193	121.0050591	111.9768755	103.7274059	96.18454279	89.28323427	82.96475892	77.17607892	71.86926224
ADV1009482	9/13/2024	4.294	9/13/2039	142.79029	127.513564	114.1566158	102.4622847	92.20935653	83.20736275	75.29215393	68.3221307	62.17503161
ADV1009483	9/13/2024	4.073	9/15/2025	100.46959	100.3416395	100.2140335	100.0867678	99.95984094	99.83325151	99.70699814	99.58107943	99.455494
ADV1009485	9/13/2024	4.158	9/15/2025	100.47175	100.3438908	100.2163712	100.0891907	99.96234774	99.83584108	99.70966929	99.58383101	99.45832486
ADV1009486	9/13/2024	3.937	3/13/2026	102.1996	101.5733983	100.9548876	100.3439246	99.7403713	99.14409332	98.55495936	97.97284132	97.39761415
ADV1009487	9/13/2024	3.722	9/14/2026	103.83477	102.6917635	101.5739619	100.4805378	99.41069917	98.36368792	97.33877823	96.33527478	95.35251115
ADV1009492	9/13/2024	3.58	9/13/2029	114.53234	110.2222964	106.1012569	102.1598782	98.38933593	94.78128985	91.32785394	88.02156911	84.85537754
ADV1009493	9/13/2024	3.602	9/13/2028	111.10415	107.8765421	104.7608472	101.7525271	98.84725599	96.04090986	93.32955583	90.70944192	88.1769875

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ADV1009494	9/13/2024	3.577	9/13/2027	107.38424	105.2200582	103.1106303	101.054192	99.04904922	97.09357542	95.18620842	93.32544722	91.50984914
ADV1009495	9/13/2024	4.158	9/15/2025	100.47175	100.3438908	100.2163712	100.0891907	99.96234774	99.83584108	99.70966929	99.58383101	99.45832486
ADV1009496	9/13/2024	3.583	9/13/2027	107.39711	105.2327844	103.1232188	101.0666456	99.06137051	97.10576705	95.19827291	93.33738705	91.52166669
ADV1009502	9/13/2024	3.563	9/13/2027	107.35422	105.1903636	103.0812571	101.0251337	99.02029955	97.0651283	95.15805793	93.29758763	91.48227485
ADV1009506	9/13/2024	3.587	6/14/2027	106.48384	104.5783261	102.7165217	100.8971649	99.11903953	97.38097213	95.68183016	94.0205202	92.39598644
ADV1009507	9/13/2024	3.566	9/13/2027	107.36065	105.1967267	103.0875513	101.0313605	99.02646019	97.07122411	95.16409018	93.30355754	91.48818363
ADV1009508	9/13/2024	3.569	12/13/2027	108.28806	105.8619679	103.5029376	101.2087493	98.97726611	96.80643384	94.69427754	92.63889791	90.63846797
ADV1009545	9/16/2024	3.674	9/16/2026	103.79911	102.650821	101.5279717	100.4297268	99.355283	98.30387181	97.27475751	96.26723545	95.28063043
ADV1009546	9/16/2024	3.542	9/16/2027	107.33931	105.1672034	103.0502111	100.9865466	98.97449951	97.01242768	95.0987543	93.23196457	91.41060274
ADV1009547	9/16/2024	3.57	9/18/2028	111.05174	107.8108221	104.6826817	101.6627234	98.74657279	95.93006036	93.20921072	90.58023207	88.0395065
ADV1009550	9/16/2024	3.67	9/16/2026	103.79455	102.6462802	101.5234583	100.4252403	99.35082296	98.29943787	97.27034929	96.26285258	95.27627254
ADV1009552	9/16/2024	3.676	9/16/2026	103.8014	102.6530914	101.5302285	100.4319701	99.35751302	98.30608877	97.27696161	96.26942689	95.28280938
ADV1009561	9/17/2024	4.119	9/17/2025	100.48617	100.3527522	100.2197018	100.0870187	99.9547014	99.82274828	99.69115783	99.55992853	99.42905884
ADV1009579	9/17/2024	3.902	3/24/2026	102.28076	101.6240272	100.9757342	100.3357233	99.70383634	99.07991923	98.46382162	97.85539698	97.25450242
ADV1009583	9/17/2024	4.14	9/17/2025	100.48898	100.3555578	100.2225042	100.0898179	99.95749735	99.82554104	99.69394741	99.56271492	99.43184206
ADV1009588	9/17/2024	4.061	9/17/2025	100.48755	100.3540384	100.2208936	100.0881174	99.95570823	99.82366455	99.6919848	99.56066742	99.42971088
ADV1009589	9/17/2024	3.82	3/17/2026	102.20699	101.5691979	100.939383	100.3173946	99.70308702	99.0963184	98.49695025	97.90484749	97.3198783
ADV1009590	9/17/2024	3.63	9/17/2026	103.83896	102.6864594	101.5595763	100.4574612	99.37930319	98.32432654	97.29178859	96.28097821	95.29121402
ADV1009591	9/17/2024	3.571	9/17/2029	114.53185	110.2104563	106.0789803	102.1280154	98.34867593	94.73256484	91.27174351	87.95870414	84.78634375
ADV1009601	9/17/2024	4.143	9/17/2025	100.48938	100.3559586	100.2229045	100.0902178	99.95789677	99.82594001	99.69434592	99.56311298	99.43223966
ADV1009610	9/18/2024	4.149	9/18/2025	100.50037	100.3641625	100.2283366	100.0928924	99.95782825	99.82314255	99.68883368	99.55490001	99.42133993
ADV1009613	9/18/2024	3.635	9/20/2027	107.58159	105.3956017	103.2652703	101.1887858	99.16441372	97.19048926	95.26541418	93.38765345	91.55573216
ADV1009619	9/18/2024	4.172	9/18/2025	100.50351	100.367299	100.2314694	100.0960215	99.96095375	99.82626442	99.69195192	99.55801462	99.42445094
ADV1009620	9/18/2024	3.927	3/18/2026	102.24012	101.6000132	100.9679401	100.3437466	99.72728602	99.11841484	98.5169933	97.92288499	97.33595686
ADV1009621	9/18/2024	3.762	9/18/2026	103.91972	102.7651781	101.6363378	100.5323439	99.45238174	98.39567187	97.3614683	96.34905667	95.35775259
ADV1009625	9/18/2024	3.596	9/18/2029	114.64584	110.3192481	106.182875	102.2272993	98.44361702	94.82341394	91.35873562	88.04205949	84.86626881
ADV1009628	9/18/2024	3.804	3/18/2026	102.20617	101.5656224	100.9331216	100.3085138	99.69165164	99.08239141	98.4805929	97.88611936	97.29883736
ADV1009629	9/18/2024	3.639	9/18/2026	103.85918	102.7037941	101.5741521	100.4693957	99.38870839	98.33130901	97.29644987	96.28341503	95.29151859
ADV1009631	9/18/2024	3.804	3/18/2026	102.20617	101.5656224	100.9331216	100.3085138	99.69165164	99.08239141	98.4805929	97.88611936	97.29883736
ADV1009637	9/18/2024	4.054	9/18/2025	100.49674	100.3604352	100.2245187	100.0889852	99.95383308	99.81906072	99.68466645	99.55064863	99.41700565
ADV1009638	9/18/2024	3.651	9/18/2026	103.87295	102.7174878	101.5877629	100.4829249	99.40215726	98.34467873	97.30974163	96.29662996	95.30465782
ADV1009640	9/18/2024	4.045	9/18/2025	100.49551	100.3592078	100.2232927	100.0877606	99.95260996	99.81783903	99.68344618	99.54942978	99.41578821
ADV1009641	9/18/2024	3.641	9/18/2026	103.86147	102.7060764	101.5764205	100.4716506	99.39094987	98.3335373	97.29866517	96.28561752	95.29370846

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1009656	9/19/2024	4.077	9/19/2025	100.50038	100.3613999	100.2228205	100.0846374	99.94684871	99.80945279	99.67244792	99.5358324	99.39960452
ADV1009658	9/19/2024	3.859	3/19/2026	102.20587	101.5631428	100.9285098	100.301822	99.68293069	99.07169069	98.46796049	97.87160205	97.28248069
ADV1009662	9/19/2024	3.613	9/20/2027	107.53385	105.3483858	103.2185654	101.1425816	99.11870016	97.14525674	95.22065333	93.34335514	91.51188751
ADV1009663	9/19/2024	3.613	9/20/2027	107.53385	105.3483858	103.2185654	101.1425816	99.11870016	97.14525674	95.22065333	93.34335514	91.51188751
ADV1009675	9/19/2024	3.692	11/19/2026	104.4743	103.1530053	101.8582273	100.5891824	99.34511465	98.1252977	96.92903372	95.75565182	94.60450681
ADV1009678	9/19/2024	3.707	10/19/2026	104.16632	102.9248854	101.7130944	100.5298911	99.37427135	98.24527766	97.14199641	96.06355538	95.00912145
ADV1009680	9/19/2024	4.076	9/19/2025	100.50024	100.3612608	100.2226816	100.0844986	99.9467101	99.80931434	99.67230964	99.53569427	99.39946656
ADV1009688	9/19/2024	3.858	3/19/2026	102.20523	101.562504	100.9278733	100.3011878	99.68229871	99.07106094	98.46733296	97.87097672	97.28185753
ADV1009728	9/20/2024	3.503	9/20/2027	107.45096	105.2633836	103.1315603	101.0536817	99.02800835	97.05287119	95.1266677	93.2478588	91.4149658
ADV1009744	9/23/2024	3.597	10/23/2029	115.28982	110.843222	106.5959967	102.5380627	98.65990957	94.95256157	91.40754461	88.01685477	84.77292928
ADV1009746	9/23/2024	4.057	9/23/2025	100.53641	100.3863369	100.2367189	100.0875566	99.93884794	99.79059079	99.6427831	99.4954228	99.34850786
ADV1009752	9/23/2024	3.597	9/23/2027	107.52966	105.3358334	103.1980148	101.1143831	99.08318724	97.10274671	95.1714485	93.28774362	91.45014399
ADV1009763	9/23/2024	4.131	8/20/2025	100.25329	100.1957886	100.1383666	100.0810249	100.0237631	99.96658112	99.90947882	99.852456	99.79551249
ADV1009764	9/23/2024	4.064	9/19/2025	100.54543	100.401483	100.2579521	100.1148318	99.97212036	99.829816	99.68791695	99.54642143	99.40532768
ADV1009770	9/23/2024	3.596	9/23/2027	107.52749	105.3336857	103.1958906	101.112282	99.08110871	97.10069032	95.16941382	93.28573022	91.44815146
ADV1009789	9/24/2024	3.584	9/24/2027	107.51181	105.3153717	103.1750608	101.0890505	99.05558402	97.07297574	95.13960768	93.25392616	91.41443869
ADV1009792	9/24/2024	4.101	8/25/2025	100.30097	100.2290859	100.1573159	100.0856559	100.0141058	99.94266531	99.8713342	99.80011219	99.72899906
ADV1009793	9/24/2024	3.611	3/24/2027	105.67963	104.0073086	102.3696975	100.7657771	99.19457148	97.6551426	96.14658816	94.66804	93.21866246
ADV1009796	9/24/2024	3.931	9/24/2025	100.53758	100.3846188	100.2321337	100.0801212	99.92857903	99.77750494	99.62689678	99.47675236	99.32706951
ADV1009802	9/24/2024	4.015	9/24/2025	100.53992	100.3870686	100.2346883	100.082779	99.93133847	99.78036456	99.62985511	99.47980794	99.33022092
ADV1009804	9/24/2024	4.022	9/24/2025	100.54099	100.3881377	100.2357561	100.0838455	99.93240367	99.78142848	99.63091773	99.48086928	99.33128098
ADV1009805	9/24/2024	3.791	3/24/2026	102.20705	101.5505691	100.9025351	100.2627811	99.63114906	99.00748474	98.39163789	97.783462	97.1828142
ADV1009813	9/24/2024	3.936	9/24/2025	100.53834	100.3853825	100.2328965	100.0808831	99.92933995	99.77826494	99.62765586	99.47751052	99.32782676
ADV1009833	9/25/2024	4.031	9/25/2025	100.55223	100.3965859	100.2414323	100.0867652	99.9325823	99.77888125	99.6256598	99.47291572	99.32064676
ADV1009834	9/25/2024	3.664	9/25/2026	103.87471	102.7011887	101.5542195	100.432904	99.33638774	98.2638539	97.21452126	96.18764216	95.18250082
ADV1009835	9/25/2024	3.941	9/25/2025	100.54891	100.3931634	100.2379043	100.0831333	99.92884798	99.77504606	99.62172526	99.46888329	99.31651791
ADV1009836	9/25/2024	3.705	3/25/2026	102.20552	101.5457081	100.8944261	100.2515068	99.61678962	98.99011814	98.3713399	97.76030627	97.15687231
ADV1009839	9/25/2024	3.939	9/25/2025	100.5486	100.3928524	100.2375937	100.0828231	99.92853811	99.77473658	99.62141615	99.46857457	99.31620957
ADV1009840	9/25/2024	3.701	3/25/2026	102.20289	101.543087	100.8918147	100.248905	99.61419724	98.98753513	98.36876618	97.75774175	97.15431691
ADV1009841	9/25/2024	3.577	9/25/2026	103.8552	102.6805631	101.5325209	100.4101769	99.31267458	98.23919526	97.18895581	96.16120686	95.15523096
ADV1009842	9/25/2024	3.585	9/25/2026	103.86454	102.6898433	101.5417441	100.419344	99.32178642	98.24825268	97.19795964	96.1701579	95.16412999
ADV1009853	9/25/2024	3.941	9/25/2025	100.54891	100.3931634	100.2379043	100.0831333	99.92884798	99.77504606	99.62172526	99.46888329	99.31651791
ADV1009857	9/25/2024	3.597	9/25/2026	103.87855	102.7037637	101.555579	100.4330946	99.33545419	98.26183882	97.21146539	96.18358446	95.17747854

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1009867	9/26/2024	3.668	9/26/2029	115.02346	110.6662778	106.5014182	102.5193093	98.71091354	95.06769282	91.58157777	88.24493915	85.05056116
ADV1009868	9/26/2024	3.558	9/27/2027	107.64288	105.4334993	103.2807833	101.1828781	99.13800331	97.14445103	95.20058219	93.30482318	91.45566266
ADV1009872	9/26/2024	3.719	9/28/2026	103.96852	102.7861784	101.6307583	100.5013501	99.39708208	98.31712095	97.26066994	96.22696677	95.21528181
ADV1009875	9/26/2024	3.644	9/27/2027	107.67379	105.4671313	103.3170135	101.221585	99.17907088	97.1877685	95.24604368	93.3523275	91.50511304
ADV1009876	9/26/2024	3.64	9/28/2026	103.95834	102.7748009	101.6182391	100.4877355	99.38241607	98.30144548	97.24402508	96.20939079	95.19681131
ADV1009880	9/26/2024	3.727	9/28/2026	103.97792	102.7955201	101.6400422	100.5105772	99.40625328	98.3262371	97.26973187	96.23597529	95.22423773
ADV1009882	9/26/2024	3.658	9/1/2027	107.4755	105.3320638	103.2433195	101.2074766	99.22281679	97.28769194	95.40052048	93.55978412	91.7640248
ADV1009896	9/26/2024	3.656	9/27/2027	107.69998	105.4930332	103.3426303	101.2469225	99.20413469	97.21256402	95.27057621	93.37660219	91.52913488
ADV1009897	9/26/2024	3.687	9/26/2028	111.50329	108.2325608	105.0762153	102.0295663	99.08815325	96.24772644	93.50423506	90.85381667	88.29278708
ADV1009908	9/27/2024	3.634	9/27/2027	107.65182	105.4454075	103.2955263	101.2003298	99.1580431	97.1669637	95.22545756	93.33195588	91.48495187
ADV1009916	9/27/2024	3.624	9/27/2029	114.84789	110.4915276	106.3275951	102.3465143	98.5392365	94.89721369	91.4123673	88.0770597	84.88406747
ADV1009921	9/27/2024	3.546	9/27/2028	111.29621	108.0203601	104.8592996	101.8083216	98.86294185	96.01888836	93.27208953	90.61866344	88.05490765
ADV1009927	9/27/2024	4.059	9/26/2025	100.61318	100.4490873	100.2855177	100.1224686	99.95993736	99.79792159	99.63641883	99.47542665	99.31494261
ADV1009930	9/27/2024	3.605	9/27/2027	107.58853	105.3828121	103.23362	101.1390985	99.09747337	97.10704231	95.16617174	93.27329319	91.42690022
ADV1009933	9/27/2024	3.522	9/27/2027	107.56411	105.3555989	103.2037387	101.1066721	99.06261917	97.06987247	95.12679341	93.23180881	91.38340777
ADV1009935	9/27/2024	3.525	9/27/2027	107.57066	105.3620793	103.2101477	101.1130111	99.06888966	97.07607578	95.13293086	93.2378817	91.38941735
ADV1009937	9/27/2024	3.522	9/27/2027	107.56411	105.3555989	103.2037387	101.1066721	99.06261917	97.06987247	95.12679341	93.23180881	91.38340777
ADV1009938	9/27/2024	3.676	9/29/2028	111.49849	108.2193647	105.0551481	102.0011277	99.05281321	96.2059267	93.45639116	90.80031959	88.23400484
ADV1009939	9/27/2024	3.676	9/22/2028	111.42737	108.1691941	105.0246519	101.9891066	99.05813893	96.22753756	93.49328763	90.85156037	88.29870316
ADV1009941	9/27/2024	3.675	9/15/2028	111.35309	108.1159039	104.9910861	101.9740713	99.06051086	96.24625923	93.52736331	90.90005211	88.36072711
ADV1009942	9/27/2024	3.674	9/8/2028	111.27884	108.062628	104.9575188	101.9590266	99.0628724	96.26497597	93.56144532	90.9485667	88.42279525
ADV1009943	9/27/2024	4.023	9/29/2025	100.59004	100.4232888	100.2570897	100.0914402	99.92633762	99.7617792	99.59776232	99.43428431	99.27134254
ADV1009958	9/30/2024	4.053	9/30/2025	100.60466	100.4351205	100.2661527	100.0977507	99.92991173	99.76263292	99.59591153	99.42974478	99.26412996
ADV1009965	9/30/2024	4.056	9/30/2025	100.60517	100.4356281	100.2666596	100.098257	99.93041738	99.76313793	99.5964159	99.43024852	99.26463305
ADV1009970	9/30/2024	3.7	11/3/2028	111.92177	108.5394853	105.2786154	102.1340602	99.10097052	96.17473204	93.3509524	90.62544873	87.99423612
ADV1009971	9/30/2024	3.7	11/10/2028	111.99291	108.5896285	105.3091414	102.1462959	99.09619145	96.15416327	93.31576874	90.57677552	87.93315008
ADV1009973	9/30/2024	3.7	11/17/2028	112.06404	108.6397477	105.3396291	102.1584864	99.09136736	96.13355563	93.28055765	90.52809087	87.87207247
ADV1009975	9/30/2024	3.7	11/17/2028	112.06404	108.6397477	105.3396291	102.1584864	99.09136736	96.13355563	93.28055765	90.52809087	87.87207247
ADV1009984	9/30/2024	4.102	9/30/2025	100.61296	100.4434112	100.2744328	100.1060203	99.93817076	99.77088145	99.60414958	99.4379724	99.27234716
ADV1009987	9/30/2024	3.6	9/30/2027	107.76613	105.546935	103.3848133	101.2778853	99.22435236	97.22248968	95.27064212	93.36722091	91.51070038
ADV1009989	9/30/2024	3.6	9/30/2027	107.76613	105.546935	103.3848133	101.2778853	99.22435236	97.22248968	95.27064212	93.36722091	91.51070038
ADV1010009	10/1/2024	3.613	10/1/2026	103.9597	102.7679241	101.6034918	100.4654729	99.35297562	98.26514798	97.20117551	96.16027925	95.14171387
ADV1010014	10/1/2024	3.62	10/2/2028	111.35203	108.0670196	104.8973905	101.8383982	98.88552392	96.03446339	93.28111489	90.62156839	88.0520952

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1010017	10/1/2024	3.694	10/1/2026	103.97241	102.7818128	101.6185181	100.4815903	99.3701398	98.28331655	97.22030806	96.18033721	95.16266038
ADV1010020	10/1/2024	4.045	10/1/2025	100.61763	100.4453228	100.2736033	100.1024705	99.93192131	99.76195286	99.59256215	99.42374627	99.25550228
ADV1010021	10/1/2024	3.817	4/1/2026	102.30134	101.6225329	100.9527384	100.2917744	99.6394669	98.99564669	98.36014885	97.7328127	97.11348172
ADV1010023	10/1/2024	3.703	10/1/2026	103.98306	102.7924045	101.6290441	100.4920515	99.38053729	98.29365131	97.23058105	96.19054936	95.17281261
ADV1010032	10/30/2024	3.564	10/29/2027	107.81846	105.5229647	103.2881005	101.1118132	98.99213546	96.92718346	94.91515247	92.95431278	91.04300579
ADV1010033	10/30/2024	3.564	10/29/2027	107.81846	105.5229647	103.2881005	101.1118132	98.99213546	96.92718346	94.91515247	92.95431278	91.04300579
ADV1010040	10/2/2024	3.63	10/18/2027	107.86028	105.5942605	103.387467	101.2379183	99.14371388	97.10303279	95.11412949	93.17532999	91.28502824
ADV1010081	10/3/2024	4.114	10/10/2025	100.721	100.5236705	100.3271223	100.1313552	99.93636472	99.74214601	99.54869447	99.35600549	99.16407451
ADV1010084	10/3/2024	3.638	10/4/2027	107.89436	105.662869	103.4889798	101.370791	99.30647961	97.29429768	95.33256829	93.41968214	91.55409418
ADV1010086	10/3/2024	3.641	10/3/2029	115.29339	110.9020935	106.7055377	102.6939854	98.85824458	95.18963375	91.67995048	88.32144199	85.10677778
ADV1010107	10/3/2024	3.82	10/5/2026	104.16268	102.9598595	101.7848736	100.6367588	99.51460004	98.4175235	97.34469411	96.29531357	95.26861831
ADV1010108	10/3/2024	3.82	10/5/2026	104.16268	102.9598595	101.7848736	100.6367588	99.51460004	98.4175235	97.34469411	96.29531357	95.26861831
ADV1010118	10/4/2024	4.004	10/5/2026	104.3826	103.1783914	102.0020363	100.8525741	99.72908925	98.63070733	97.55659274	96.50594666	95.47800501
ADV1010124	10/4/2024	3.91	10/4/2027	108.33518	106.1018599	103.9261112	101.8060305	99.73979787	97.7256681	95.76196691	93.8470874	91.97948677
ADV1010127	10/4/2024	4.326	10/6/2025	100.71981	100.5335299	100.3479472	100.163058	99.97885836	99.79534436	99.61251215	99.43035789	99.24887777
ADV1010129	10/4/2024	3.951	10/5/2026	104.40344	103.1978148	102.0200967	100.8693224	99.74457399	98.64497487	97.56968739	96.51791076	95.48887906
ADV1010130	10/4/2024	3.864	10/4/2028	112.39214	109.0792183	105.8828059	102.7980971	99.82052123	96.94572497	94.16956053	91.48807432	88.89749656
ADV1010146	10/7/2024	3.988	10/7/2027	108.53995	106.2961383	104.1103238	101.9805826	99.90507591	97.88204032	95.90978456	93.98668566	92.11118565
ADV1010149	10/7/2024	4.086	10/8/2026	104.51346	103.3001371	102.1150631	100.9572614	99.82579692	98.7197773	97.63834993	96.58069999	95.54604834
ADV1010157	10/7/2024	4.119	7/10/2026	103.5638	102.604065	101.662161	100.7375935	99.82988635	98.93858079	98.06323447	97.20342088	96.35872859
ADV1010172	10/8/2024	4.484	10/8/2036	139.60151	127.2581092	116.1858864	106.2448047	97.31103134	89.27497899	82.03959612	75.51887084	69.63652034
ADV1010179	10/8/2024	3.997	10/8/2027	108.57085	106.323963	104.1352022	102.0026421	99.92443727	97.89881875	95.92408974	93.99862212	92.12085305
ADV1010188	10/8/2024	4.34	9/2/2025	100.40297	100.3079817	100.2131677	100.1185297	100.0240673	99.92977996	99.83566722	99.74172857	99.64796354
ADV1010199	10/9/2024	4.245	10/9/2025	100.74862	100.5538341	100.3598169	100.1665613	99.97406256	99.78231629	99.59131798	99.40106318	99.21154747
ADV1010211	10/9/2024	4.122	8/14/2026	103.94882	102.8905315	101.853848	100.838114	99.84269815	98.86699429	97.91042017	96.97241627	96.05244476
ADV1010214	10/9/2024	4.281	10/9/2025	100.75564	100.5608474	100.3668203	100.1735547	99.98104611	99.78929	99.59828187	99.40801728	99.21849182
ADV1010218	10/9/2024	4	10/9/2029	116.55565	112.1302012	107.9011106	103.8585441	99.99321965	96.29637222	92.75972147	89.37544197	86.13613545
ADV1010223	10/10/2024	4.254	10/10/2025	100.76116	100.5635835	100.3667977	100.1707958	99.97557294	99.78112443	99.58744558	99.39453176	99.20237836
ADV1010225	10/10/2024	4.003	10/10/2029	115.95547	111.6875374	107.6091172	103.7106699	99.98319473	96.4181937	93.00764072	89.74395244	86.61996113
ADV1010250	10/11/2024	3.987	10/13/2026	104.53367	103.3050904	102.105468	100.933783	99.78906645	98.67039378	97.57688222	96.50768857	95.46200696
ADV1010259	10/11/2024	3.99	4/11/2029	114.61093	110.7322839	107.0083547	103.4320646	99.99670547	96.69591611	93.52366175	90.4742151	87.54213868
ADV1010279	10/11/2024	4.218	10/14/2025	100.79678	100.5880889	100.3802753	100.1733359	99.96726536	99.76205795	99.5577082	99.35421067	99.15155993
ADV1010330	10/15/2024	3.881	10/15/2027	108.54992	106.280972	104.071175	101.9185534	99.82121402	97.77734274	95.78520026	93.84311838	91.94949642

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1010335	10/15/2024	4.22	10/15/2025	100.80724	100.5957471	100.3851543	100.175459	99.96665532	99.75873757	99.55169999	99.34553692	99.14024274
ADV1010339	10/16/2024	3.955	1/18/2028	109.60475	107.064372	104.5967925	102.1995073	99.87011161	97.6062978	95.40585087	93.26664408	91.18663488
ADV1010340	10/15/2024	4.219	10/15/2025	100.80703	100.5955358	100.3849434	100.1752483	99.96644501	99.75852757	99.55149031	99.34532756	99.14003369
ADV1010352	10/16/2024	4.269	10/16/2025	100.81325	100.5991444	100.3859605	100.1736948	99.96234111	99.75189363	99.5423464	99.3336936	99.12592942
ADV1010353	10/16/2024	4.117	4/16/2026	102.65543	101.9339625	101.2226537	100.5212935	99.8296737	99.14759214	98.4748521	97.81126229	97.15663659
ADV1010398	10/18/2024	4.245	11/24/2025	101.2256	100.9028958	100.5822574	100.2636632	99.94709356	99.63252922	99.31995111	99.0093404	98.70067853
ADV1010402	10/18/2024	4.299	10/20/2025	100.86256	100.6373117	100.4130793	100.189859	99.96764406	99.7464275	99.52620258	99.30696256	99.08870079
ADV1010403	10/18/2024	4.038	10/19/2026	104.57473	103.3306327	102.1162252	100.9304482	99.77229659	98.64081167	97.53507872	96.45422451	95.39741489
ADV1010404	10/18/2024	4.141	4/20/2026	102.71386	101.9811415	101.2589002	100.5469097	99.84495249	99.15281726	98.47029856	97.79719665	97.1333173
ADV1010445	10/21/2024	4.121	4/21/2026	102.76032	102.0239803	101.2982187	100.5828037	99.87751506	99.18213842	98.49646557	97.82029408	97.15342714
ADV1010446	10/21/2024	4.363	9/22/2025	100.61738	100.4648214	100.3127246	100.1610845	100.009899	99.85916601	99.70888353	99.5590495	99.40966189
ADV1010449	10/21/2024	3.958	10/21/2027	108.78862	106.5005349	104.2724289	102.1022843	99.98816992	97.92823585	95.92070895	93.96388917	92.05614574
ADV1010450	10/21/2024	4.021	10/21/2026	104.66253	103.4109911	102.189462	100.9968731	99.83220338	98.69447947	97.58277277	96.49619694	95.43390555
ADV1010451	10/21/2024	4.34	10/21/2025	100.88214	100.6540818	100.4270692	100.2010927	99.97614524	99.75221974	99.52930917	99.30740659	99.08650511
ADV1010455	10/21/2024	4.042	10/21/2027	108.81512	106.5299576	104.3046324	102.1371377	100.0255482	97.96801971	95.96278455	94.00814775	92.10248341
ADV1010470	10/22/2024	4.234	3/30/2026	102.5597	101.8854168	101.220007	100.5632954	99.91511216	99.27529188	98.64367339	98.02009964	97.40441755
ADV1010487	10/23/2024	4.191	7/23/2026	103.77408	102.7773879	101.7998913	100.8410376	99.90029661	98.97715773	98.07112962	97.18173904	96.30853006
ADV1010488	10/23/2024	4.143	10/23/2026	104.74819	103.4919319	102.2658987	101.0690097	99.90023324	98.75858581	97.6431294	96.55296882	95.48724929
ADV1010507	10/23/2024	4.276	10/23/2025	100.90424	100.6704624	100.4377756	100.2061759	99.97565559	99.74620709	99.51782288	99.29049549	99.06421756
ADV1010522	10/25/2024	4.07	10/15/2027	108.80934	106.5406559	104.3310388	102.17852	100.0812108	98.03730116	96.04505574	94.10281006	92.20896691
ADV1010530	10/25/2024	4.072	10/25/2027	108.92744	106.6300658	104.3930727	102.214425	100.0921724	98.02444673	96.00945809	94.04549045	92.13089802
ADV1010541	10/25/2024	4.141	10/25/2029	108.72381	106.4865332	104.3219105	102.226969	100.1988772	98.23493999	96.3325912	94.48938625	92.70299566
ADV1010543	10/25/2024	4.153	10/26/2026	104.79451	103.5296575	102.2954301	101.0907253	99.91449147	98.76572672	97.64347555	96.5468264	95.47490911
ADV1010586	10/29/2024	4.219	10/29/2026	104.91096	103.637054	102.3941816	101.1812188	99.99709403	98.84078634	97.71132262	96.60777465	95.52925661
ADV1010587	10/29/2024	4.204	10/29/2027	109.27208	106.959812	104.7085251	102.5161554	100.3807254	98.30034171	96.2731904	94.29753282	92.37170182
ADV1010594	10/29/2024	4.246	10/1/2029	115.81373	111.8175087	107.9939804	104.334569	100.8311759	97.4761535	94.26227726	91.18271927	88.23102403
ADV1010598	10/29/2024	4.188	10/29/2031	114.59718	110.8063512	107.1980108	103.7616448	100.4874279	97.36617078	94.3892743	91.54868789	88.83687083
ADV1010603	10/30/2024	4.18	10/30/2029	117.54027	113.0356315	108.7329211	104.6219173	100.6929749	96.93699265	93.34537882	89.91001966	86.62324957
ADV1010604	10/30/2024	4.127	10/30/2026	104.89542	103.6174641	102.3707356	101.1540947	99.96646067	98.80680391	97.67414318	96.56754265	95.4861093
ADV1010613	10/30/2024	4.207	10/30/2028	113.54846	110.1506805	106.8742706	103.7141424	100.6654544	97.72360039	94.88419603	92.14306657	89.49623522
ADV1010632	10/31/2024	4.195	10/31/2029	117.29649	112.9278443	108.75538	104.7691903	100.959921	97.31873608	93.83728702	90.507683	87.32246362
ADV1010643	10/31/2024	4.363	1/30/2026	102.01064	101.5008094	100.9960727	100.4963564	100.001586	99.51168827	99.0265915	98.54622536	98.07052089
ADV1010651	10/31/2024	4.321	10/31/2025	101.00186	100.7457687	100.490976	100.2374695	99.98523977	99.73427704	99.48457184	99.23611474	98.98889643

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ADV1010655	10/31/2024	4.239	10/30/2026	104.94771	103.6707947	102.4250551	101.209354	100.0226131	98.86380511	97.73195113	96.62611732	95.54541265
ADV1010656	11/1/2024	4.228	11/1/2029	117.77287	113.2577189	108.9451419	104.8248763	100.8872409	97.12310068	93.52383206	90.08129117	86.78778406
ADV1010689	11/1/2024	4.324	11/3/2025	101.04085	100.7764	100.5133409	100.2516589	99.99134294	99.73238249	99.47476689	99.21848567	98.96352843
ADV1010704	11/4/2024	4.171	12/15/2026	105.51757	104.1208937	102.7495739	101.402974	100.0804823	98.78150714	97.50547575	96.25183348	95.02004319
ADV1010711	11/8/2024	4.255	6/15/2027	107.76098	105.8402975	103.9636805	102.1298563	100.3375974	98.58571965	96.87308001	95.19857513	93.56113961
ADV1010761	11/7/2024	4.317	11/9/2026	105.17489	103.8724115	102.5990204	101.353739	100.1356347	98.94381616	97.77743107	96.63566391	95.51773409
ADV1010774	11/7/2024	4.321	11/9/2026	105.18006	103.8775442	102.6041185	101.3588031	100.1406654	98.94881402	97.78239661	96.64059766	95.52263655
ADV1010775	11/7/2024	4.274	11/8/2027	109.55619	107.2125364	104.9313098	102.7104096	100.5478271	98.44163648	96.38999103	94.39111885	92.44331929
ADV1010794	11/8/2024	4.27	11/8/2027	109.54683	107.203276	104.9221471	102.7013427	100.538854	98.43275544	96.38120021	94.38241651	92.43470375
ADV1010801	11/8/2024	4.385	4/9/2026	102.77293	102.0702763	101.3772563	100.6936695	100.0193239	99.35403274	98.69761415	98.04989122	97.41069165
ADV1010815	11/13/2024	4.286	10/1/2029	117.68057	113.2538344	109.0223659	104.976442	101.1068773	97.40499537	93.862597	90.47193097	87.22566692
ADV1010859	11/12/2024	4.402	11/12/2027	109.9	107.5409682	105.2450065	103.0100053	100.8339446	98.71488656	96.65097183	94.64041548	92.68150347
ADV1010912	11/14/2024	4.371	11/14/2025	101.1758	100.880607	100.587151	100.2954164	100.0053878	99.71705021	99.43038874	99.14538869	98.86203552
ADV1010939	11/15/2024	4.383	11/15/2027	109.89314	107.5256759	105.2217005	102.9790994	100.7958455	98.6699939	96.59967723	94.58310236	92.61854666
ADV1010947	11/15/2024	4.391	10/20/2026	105.02258	103.7728196	102.5529218	101.361825	100.1985161	99.06202931	97.95144297	96.86587736	95.80449221
ADV1010982	11/18/2024	4.362	11/18/2025	101.21772	100.9113685	100.6068873	100.3042569	100.0034604	99.70448091	99.40730198	99.11190726	98.8182806
ADV1011003	11/19/2024	4.354	11/19/2025	101.22639	100.917258	100.6100248	100.3046751	100.0011915	99.69955686	99.39975421	99.10176677	98.80557799
ADV1011011	11/19/2024	4.532	8/19/2025	100.25776	100.203326	100.1489622	100.0946727	100.0404574	99.98631627	99.93224903	99.87825555	99.8243357
ADV1011013	11/19/2024	4.412	5/19/2026	103.23887	102.4240182	101.6220674	100.8327112	100.0556537	99.29060884	98.53729894	97.79545504	97.0648163
ADV1011015	11/19/2024	4.448	11/19/2025	101.23412	100.9252044	100.6181886	100.3130521	100.0097778	99.7083483	99.40874691	99.11095689	98.81496176
ADV1011018	11/19/2024	4.357	11/19/2026	105.35155	104.0241606	102.7233964	101.4484665	100.1986119	98.97310364	97.77124131	96.59235152	95.43578668
ADV1011019	11/19/2024	4.313	11/19/2027	109.77944	107.4019776	105.0885356	102.8369956	100.6453224	98.51156162	96.43383604	94.41034199	92.43934589
ADV1011040	11/20/2024	4.303	11/20/2026	105.38634	104.0548711	102.7498366	101.4704614	100.2160021	98.98574451	97.77900167	96.595113	95.43344279
ADV1011071	11/21/2024	4.492	11/4/2025	101.11365	100.8371543	100.5621287	100.2885596	100.0164354	99.74574464	99.47647605	99.20861838	98.94216055
ADV1011077	11/21/2024	4.823	12/15/2042	145.41769	131.6674958	119.6629951	109.1542654	99.92978914	91.81025114	84.64337671	78.29963141	72.66863315
ADV1011092	11/22/2024	4.417	12/30/2025	101.71877	101.2950585	100.874881	100.4581898	100.0449417	99.6350941	99.22860515	98.82543367	98.42553916
ADV1011101	11/22/2024	4.419	11/24/2025	101.30328	100.9801595	100.6591081	100.3401064	100.0231345	99.70817324	99.39520332	99.08420587	98.7751622
ADV1011108	11/25/2024	4.464	10/26/2026	105.18405	103.9166167	102.6798544	101.472657	100.2939718	99.14279557	98.01817187	96.91918807	95.84497299
ADV1011109	11/25/2024	4.439	1/25/2027	106.29937	104.7873964	103.3048598	101.8509784	100.4249934	99.02617254	97.65380869	96.30721868	94.98574242
ADV1011110	11/25/2024	4.414	5/25/2027	107.79574	105.9332418	104.1123182	102.331777	100.5904664	98.88727536	97.2211325	95.59100393	93.99589185
ADV1011135	11/25/2024	4.533	10/24/2025	100.99874	100.7541625	100.5107395	100.2684653	100.0273317	99.78733077	99.54845441	99.31069471	99.0740438
ADV1011162	11/25/2024	4.483	11/25/2025	101.31258	100.9869206	100.6633595	100.3418771	100.0224534	99.70506862	99.38970321	99.07633792	98.76495375
ADV1011163	11/25/2024	4.303	11/24/2027	109.81663	107.4245605	105.0972331	102.8325138	100.6283551	98.48278966	96.39392632	94.35994688	92.37910265

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1011238	11/27/2024	4.257	11/29/2027	109.76933	107.3636716	105.0234493	102.7465238	100.5308358	98.37440512	96.27532693	94.23176874	92.24196702
ADV1011274	11/29/2024	4.275	11/30/2026	105.37892	104.0253186	102.6956303	101.3892759	100.1056929	98.84433661	97.60467909	96.38620882	95.18842993
ADV1011275	11/29/2024	4.209	11/29/2027	109.65586	107.2515543	104.9126571	102.6370289	100.4226113	98.26742484	96.16956555	94.12720164	92.13857026
ADV1011292	12/2/2024	4.237	12/4/2028	114.05709	110.5513694	107.1740569	103.9197775	100.7834059	97.76005758	94.8450757	92.03401962	89.32265356
ADV1011313	12/2/2024	4.377	12/2/2025	101.38378	101.0383673	100.6953077	100.3545796	100.0161592	99.68002323	99.3461485	99.01451224	98.68509196
ADV1011321	12/2/2024	4.457	9/3/2025	100.41519	100.3178588	100.2207129	100.1237545	100.0269832	99.93039833	99.83399939	99.73778581	99.64175707
ADV1011380	12/5/2024	4.386	11/5/2025	101.09302	100.8143526	100.5371867	100.2615053	99.98729635	99.71454816	99.443249	99.1733873	98.90495164
ADV1011392	12/18/2024	4.187	12/20/2027	109.84944	107.3852263	104.9895002	102.6599803	100.3944702	98.19085963	96.04712012	93.96130152	91.93152845
ADV1011393	12/18/2024	4.187	12/20/2027	109.84944	107.3852263	104.9895002	102.6599803	100.3944702	98.19085963	96.04712012	93.96130152	91.93152845
ADV1011411	12/6/2024	4.254	12/8/2025	101.40776	101.0456864	100.6862058	100.3292939	99.97492311	99.62306627	99.27369656	98.92678754	98.58231317
ADV1011423	12/9/2024	4.266	12/9/2025	101.42245	101.0575593	100.6953058	100.3356614	99.9785977	99.62408689	99.27210153	98.92261456	98.57559932
ADV1011430	12/9/2024	4.385	9/9/2025	100.47124	100.3568484	100.2427188	100.1288546	100.0152549	99.90191873	99.78884508	99.67603304	99.56348166
ADV1011439	12/9/2024	4.261	12/9/2025	101.42063	101.0557417	100.6934923	100.333852	99.97679228	99.62228548	99.2703041	98.9208211	98.5738098
ADV1011440	12/9/2024	4.258	12/9/2025	101.41954	101.0546512	100.6924042	100.3327663	99.97570903	99.62120463	99.26922565	98.91974502	98.57273609
ADV1011478	12/11/2024	4.231	12/11/2025	101.43182	101.061368	100.6936327	100.328587	99.96620147	99.60644681	99.24929433	98.89471571	98.54268305
ADV1011498	12/12/2024	4.326	12/12/2025	101.4524	101.0794252	100.7092042	100.3417079	99.97690602	99.614769	99.25526752	98.89837275	98.54405628
ADV1011504	12/12/2024	4.244	12/12/2025	101.44757	101.074309	100.7038104	100.3360421	99.97097381	99.60857574	99.24881849	98.89167311	98.53711109
ADV1011513	12/12/2024	4.263	12/14/2026	105.53369	104.1411221	102.7737678	101.4309974	100.1122042	98.81680122	97.54421991	96.2939099	95.06533805
ADV1011514	12/12/2024	4.239	12/13/2027	109.89392	107.4483353	105.0702382	102.757391	100.5076444	98.31893268	96.18926952	94.11674487	92.09952129
ADV1011537	12/13/2024	4.483	12/6/2030	123.17924	117.3947715	111.9258578	106.7535743	101.8602232	97.22925141	92.84517109	88.69348566	84.76062169
ADV1011538	12/13/2024	4.486	12/13/2030	123.26121	117.4549436	111.966424	106.7765311	101.8673919	97.22229333	92.82560107	88.66268482	84.71984876
ADV1011539	12/13/2024	4.486	12/13/2030	123.26121	117.4549436	111.966424	106.7765311	101.8673919	97.22229333	92.82560107	88.66268482	84.71984876
ADV1011540	12/13/2024	4.487	12/20/2030	123.33244	117.5047127	111.9969069	106.789714	101.8650861	97.20615004	92.79712526	88.62324776	84.67069949
ADV1011555	12/13/2024	4.369	1/13/2026	101.82672	101.3643583	100.9062095	100.4522164	100.0023223	99.55647176	99.11461027	98.67668425	98.24264113
ADV1011557	12/13/2024	4.372	2/13/2026	102.16958	101.6206118	101.0775578	100.5403216	100.00881	99.48293152	98.96259683	98.44771838	97.93821049
ADV1011571	12/16/2024	4.316	12/16/2026	105.63062	104.2319305	102.8586485	101.5101402	100.1857922	98.88501101	97.60722205	96.35186904	95.11841322
ADV1011572	12/16/2024	4.36	12/16/2025	101.50881	101.1246474	100.7434107	100.3650621	99.98956879	99.61689829	99.24701874	98.87989874	98.51550733
ADV1011583	12/16/2024	4.309	12/16/2025	101.51592	101.1314414	100.7498872	100.3712273	99.99542867	99.6224587	99.25228541	98.88487727	98.52020321
ADV1011591	12/16/2024	4.307	12/16/2025	101.51516	101.1306762	100.7491239	100.3704657	99.99466884	99.62170063	99.2515291	98.88412269	98.51945036
ADV1011635	12/17/2024	4.398	8/18/2025	100.23305	100.1816981	100.1304196	100.0792099	100.0280689	99.97699624	99.92599195	99.87505585	99.82418779
ADV1011712	12/19/2024	4.406	12/11/2025	101.50042	101.1178669	100.7381225	100.361159	99.98694575	99.61545273	99.24665022	98.88050895	98.51700011
ADV1011714	12/19/2024	4.391	12/10/2026	105.66078	104.2781305	102.9203348	101.586783	100.2768808	98.99005275	97.72574166	96.48340788	95.2625286
ADV1011739	12/20/2024	4.365	12/21/2026	105.76007	104.3468997	102.9596148	101.5975672	100.2601268	98.94668434	97.6566502	96.38945355	95.14454175

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1011749	12/20/2024	4.385	12/22/2025	101.58584	101.1849117	100.7871564	100.392539	100.0010224	99.61256989	99.22714557	98.844714	98.46524032
ADV1011862	12/27/2024	4.32	6/29/2026	103.69127	102.7602945	101.8460727	100.9481531	100.0661021	99.19950126	98.34794689	97.51104919	96.68843175
ADV1011868	12/27/2024	4.326	6/29/2026	103.69681	102.7658079	101.8515588	100.9536122	100.0715344	99.20490724	98.35332683	97.51640341	96.69376055
ADV1011882	12/30/2024	4.383	12/31/2029	119.44583	114.7142562	110.2021661	105.8982007	101.791646	97.87239537	94.13091173	90.55819235	87.14573634
ADV1011884	12/30/2024	4.361	5/13/2026	103.12825	102.3304833	101.5450955	100.7717971	100.0103101	99.2603648	98.52169985	97.79406159	97.07720398
ADV1011885	12/30/2024	4.356	5/13/2026	103.12428	102.3265354	101.5411645	100.767883	100.0064127	99.25648394	98.51783532	97.79021322	97.0733716
ADV1011886	12/30/2024	4.362	4/15/2026	102.81881	102.099493	101.3902669	100.6909198	100.001246	99.32104541	98.65012342	97.98829075	97.33536323
ADV1011887	12/30/2024	4.362	4/15/2026	102.81881	102.099493	101.3902669	100.6909198	100.001246	99.32104541	98.65012342	97.98829075	97.33536323
ADV1011888	12/30/2024	4.348	7/15/2026	103.83645	102.8615351	101.9049851	100.9662831	100.0449322	99.14045359	98.25238616	97.38028536	96.52372259
ADV1011889	12/30/2024	4.348	7/15/2026	103.83645	102.8615351	101.9049851	100.9662831	100.0449322	99.14045359	98.25238616	97.38028536	96.52372259
ADV1011890	12/30/2024	4.345	8/12/2026	104.15709	103.1031819	102.0706723	101.058913	100.0672819	99.09518185	98.14203879	97.20730119	96.29043869
ADV1011891	12/30/2024	4.345	8/12/2026	104.15709	103.1031819	102.0706723	101.058913	100.0672819	99.09518185	98.14203879	97.20730119	96.29043869
ADV1011892	12/30/2024	4.341	10/14/2026	104.88758	103.6553104	102.4521072	101.2769488	100.1288612	99.00691511	97.91022356	96.83793918	95.78925224
ADV1011893	12/30/2024	4.341	10/14/2026	104.88758	103.6553104	102.4521072	101.2769488	100.1288612	99.00691511	97.91022356	96.83793918	95.78925224
ADV1011902	12/30/2024	4.382	8/15/2025	100.19716	100.1544562	100.1118031	100.0692037	100.0266578	99.98416536	99.94172624	99.89934035	99.85700757
ADV1011903	12/30/2024	4.364	9/15/2025	100.529	100.3977399	100.2668282	100.1362648	100.0060482	99.87617706	99.74664992	99.6174654	99.48862207
ADV1011904	12/30/2024	4.357	10/15/2025	100.85161	100.6343027	100.4179189	100.2024567	99.9879102	99.77427339	99.56154046	99.34970561	99.13876307
ADV1011905	12/30/2024	4.357	11/14/2025	101.17996	100.8762056	100.5742437	100.2740537	99.97562022	99.67892764	99.38396069	99.09070427	98.79914344
ADV1011906	12/30/2024	4.43	12/29/2028	115.00178	111.4106077	107.9532498	104.6239975	101.4174204	98.32834746	95.35185366	92.48324647	89.71805383
ADV1011916	12/30/2024	4.291	12/30/2027	110.39544	107.8934279	105.4616938	103.0978676	100.7996725	98.56492161	96.39151406	94.27743092	92.22073153
ADV1011920	12/30/2024	4.273	6/30/2026	103.65896	102.7253911	101.808666	100.9083344	100.0239591	99.15511829	98.30140505	97.46242639	96.63780292
ADV1011926	12/30/2024	4.262	12/30/2026	105.8234	104.3837682	102.9709352	101.5842138	100.2229426	98.88648204	97.57421367	96.28553907	95.01987919
ADV1011927	12/30/2024	4.291	12/30/2027	110.39544	107.8934279	105.4616938	103.0978676	100.7996725	98.56492161	96.39151406	94.27743092	92.22073153
ADV1011953	12/31/2024	4.577	9/13/2030	122.82978	117.2942997	112.049485	107.0784283	102.3653018	97.89527921	93.65446667	89.62983905	85.80918086
ADV1011954	12/31/2024	4.577	9/13/2030	122.82978	117.2942997	112.049485	107.0784283	102.3653018	97.89527921	93.65446667	89.62983905	85.80918086
ADV1011955	12/31/2024	4.579	9/20/2030	122.91442	117.3564722	112.0912717	107.1017383	102.371885	97.88673954	93.63227464	89.59534269	85.76361601
ADV1011956	12/31/2024	4.579	9/20/2030	122.91442	117.3564722	112.0912717	107.1017383	102.371885	97.88673954	93.63227464	89.59534269	85.76361601
ADV1011964	12/31/2024	4.347	7/14/2027	108.28693	106.2807435	104.3223625	102.4103517	100.5433291	98.71996348	96.93897184	95.19911755	93.49920827
ADV1011966	12/31/2024	4.347	7/14/2027	108.28693	106.2807435	104.3223625	102.4103517	100.5433291	98.71996348	96.93897184	95.19911755	93.49920827
ADV1011968	12/31/2024	4.35	8/10/2027	108.61972	106.5363789	104.5041858	102.5215518	100.5869502	98.69891211	96.85602425	95.05692621	93.30030813
ADV1011969	12/31/2024	4.35	8/10/2027	108.61972	106.5363789	104.5041858	102.5215518	100.5869502	98.69891211	96.85602425	95.05692621	93.30030813
ADV1011970	12/31/2024	4.35	8/10/2027	108.61972	106.5363789	104.5041858	102.5215518	100.5869502	98.69891211	96.85602425	95.05692621	93.30030813
ADV1011974	12/31/2024	4.248	12/31/2026	105.81551	104.3732312	102.957844	101.5686585	100.2050101	98.86625606	97.55177495	96.26096546	94.99324574

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1011979	12/31/2024	4.341	12/31/2025	101.66734	101.2413365	100.8189026	100.3999906	99.98455641	99.57255705	99.16395004	98.75869363	98.35674678
ADV1009328	1/16/2025	3.548	2/5/2027	105.0759	103.5424165	102.0392645	100.5656227	99.12069513	97.70371422	96.31393917	94.9506549	93.61317095
ADV1009592	1/17/2025	3.644	1/20/2026	101.55577	101.0748376	100.5984736	100.1266095	99.65918169	99.19612767	98.73738608	98.28289672	97.83260051
ADV1009593	1/17/2025	3.43	1/19/2027	104.72453	103.2410065	101.7860911	100.3590299	98.95909283	97.58557516	96.23779592	94.91509711	93.61684266
ADV1011076	1/30/2025	4.562	1/30/2032	127.3963	120.2972192	113.6564333	107.4417095	101.6232508	96.17349816	91.06695132	86.2800045	81.79079644
ADV1011669	1/2/2025	4.337	1/2/2030	118.92663	114.2109433	109.7141382	105.4248807	101.3324817	97.42685761	93.69849364	90.1384083	86.73812094
ADV1011670	1/2/2025	4.337	1/2/2030	118.92663	114.2109433	109.7141382	105.4248807	101.3324817	97.42685761	93.69849364	90.1384083	86.73812094
ADV1011671	1/2/2025	4.337	1/2/2030	118.92663	114.2109433	109.7141382	105.4248807	101.3324817	97.42685761	93.69849364	90.1384083	86.73812094
ADV1012359	1/15/2025	4.358	12/15/2025	101.52254	101.1297766	100.7399866	100.3531366	99.96919314	99.58812358	99.20989558	98.83447735	98.46183753
ADV1012847	1/31/2025	4.294	1/29/2027	106.12874	104.6072916	103.1156749	101.6530887	100.2187596	98.81194089	97.43191188	96.07797643	94.74946204
ADV1012503	1/21/2025	4.35	12/22/2025	101.59674	101.1840086	100.774551	100.3683327	99.96531539	99.56546128	99.16873313	98.77509434	98.38450886
ADV1012768	1/29/2025	4.263	1/31/2028	110.7084	108.1146136	105.596151	103.1503833	100.7747882	98.4669466	96.22453823	94.04533658	91.92720464
ADV1012843	1/31/2025	4.315	1/30/2026	102.00955	101.484298	100.9643112	100.4495152	99.93983255	99.43518757	98.93550595	98.44071485	97.95074284
ADV1012642	1/24/2025	4.241	1/26/2026	101.94052	101.4415207	100.9474113	100.4581239	99.97358792	99.49373441	99.01849558	98.54780497	98.08159742
ADV1012498	1/21/2025	4.373	10/21/2025	100.91698	100.6829911	100.4500706	100.2182149	99.98741651	99.75766824	99.52896287	99.30129324	99.07465227
ADV1012254	1/13/2025	4.414	10/14/2025	100.85082	100.6366407	100.4233674	100.2109908	99.99950531	99.78890515	99.57918472	99.37033844	99.16236078
ADV1012264	1/13/2025	4.42	8/13/2025	100.17491	100.1379565	100.1010485	100.0641848	100.0273654	99.99059024	99.95385919	99.91717217	99.88052911
ADV1012278	1/13/2025	4.418	8/13/2025	100.17482	100.1378698	100.1009622	100.0640989	100.02728	99.9905052	99.95377457	99.91708797	99.88044533
ADV1012361	1/15/2025	4.327	1/15/2026	101.82928	101.3613791	100.8977951	100.4384662	99.98333352	99.53233973	99.08542832	98.64254386	98.20363189
ADV1012605	1/23/2025	4.327	1/23/2026	101.91584	101.425621	100.9401243	100.4592866	99.98304066	99.51132092	99.04406291	98.58120339	98.12268035
ADV1012174	1/8/2025	4.344	9/8/2025	100.45012	100.3390166	100.2281638	100.1175621	100.0072105	99.89710826	99.78725439	99.67764805	99.56828838
ADV1012604	1/23/2025	4.345	11/24/2025	101.283	100.95131	100.6217424	100.2942805	99.96890422	99.64559359	99.32432897	99.00509094	98.68786036
ADV1012395	1/16/2025	4.377	1/19/2027	106.13367	104.6392188	103.1735692	101.7359589	100.325653	98.94194177	97.58413959	96.25158396	94.94363448
ADV1012452	1/17/2025	4.371	10/17/2025	100.8736	100.6509832	100.4293423	100.2086689	99.98895672	99.77019943	99.5523907	99.33552431	99.11959409
ADV1012153	1/10/2025	4.442	1/10/2028	110.7239	108.191344	105.7306643	103.3394086	101.0152237	98.75585036	96.55911918	94.42294646	92.34533019
ADV1012650	1/24/2025	4.503	1/24/2030	119.91069	115.1117239	110.5380782	106.1779364	102.020167	98.05427777	94.27037585	90.65913012	87.21173646
ADV1012751	1/29/2025	4.291	1/29/2026	101.96316	101.4562228	100.9543304	100.4574058	99.96537535	99.47816711	98.99571038	98.51793586	98.04477561
ADV1012441	1/17/2025	4.351	1/20/2026	101.89547	101.4135809	100.9362646	100.4634547	99.9950876	99.53110064	99.07143243	98.61602268	98.16481225
ADV1012226	1/10/2025	4.459	1/11/2027	106.15692	104.6839437	103.2389533	101.8212209	100.4300418	99.06473521	97.7246429	96.40912868	95.11757726
ADV1012826	2/3/2025	4.332	2/3/2028	110.74113	108.1420061	105.6184558	103.1678358	100.7876109	98.47535019	96.22872214	94.04548975	91.92350615
ADV1012846	1/31/2025	4.301	7/31/2026	103.97361	102.9537852	101.9540155	100.9737094	100.0123022	99.0692505	98.14403188	97.23614346	96.34510113
ADV1012505	1/21/2025	4.31	1/21/2026	101.88623	101.4016017	100.9215936	100.4461424	99.97518345	99.50865304	99.04648878	98.58862941	98.13501483
ADV1012230	1/10/2025	4.377	11/10/2025	101.13978	100.8479094	100.5576869	100.2691032	99.98214433	99.69679646	99.413046	99.13087949	98.8502836

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1012401	1/16/2025	4.532	1/16/2030	119.95388	115.1762966	110.6219898	106.2793043	102.1372581	98.18549702	94.41425536	90.81431938	87.37699322
ADV1012221	1/10/2025	4.524	10/25/2027	109.95152	107.6424407	105.3939843	103.2041097	101.0708594	98.99235889	96.96681167	94.99249559	93.06775894
ADV1012440	1/17/2025	4.387	8/15/2025	100.19439	100.1517686	100.1092053	100.0666955	100.0242391	99.98183603	99.93948618	99.89718944	99.85494571
ADV1012152	1/10/2025	4.442	1/10/2028	110.7239	108.191344	105.7306643	103.3394086	101.0152237	98.75585036	96.55911918	94.42294646	92.34533019
ADV1012086	1/6/2025	4.349	9/8/2025	100.45102	100.3398839	100.2290014	100.1183701	100.007989	99.89785727	99.78797402	99.67833836	99.56894943
ADV1012373	1/15/2025	4.361	12/11/2025	101.47909	101.0979003	100.7195083	100.3438873	99.97100685	99.60083686	99.2333478	98.86851051	98.50629627
ADV1012398	1/16/2025	4.544	1/16/2030	120.00805	115.2292632	110.6737898	106.3299772	102.1868419	98.23402807	94.46176847	90.86084794	87.42256925
ADV1012534	1/21/2025	4.401	8/21/2025	100.25946	100.1997838	100.1401948	100.0806908	100.0212713	99.96193636	99.9026857	99.84351913	99.7844365
ADV1012298	1/14/2025	4.361	1/14/2026	101.83398	101.3688378	100.9079561	100.4512797	99.99875096	99.55031348	99.10591172	98.6654912	98.22899839
ADV1012610	1/23/2025	4.326	1/23/2026	101.91536	101.4251339	100.9396386	100.4588022	99.98255768	99.5108393	99.04358264	98.58072446	98.12220274
ADV1012501	1/21/2025	4.364	11/21/2025	101.25629	100.933122	100.6119774	100.292836	99.97567911	99.6604881	99.34724472	99.0359309	98.72652879
ADV1012394	1/16/2025	4.327	1/16/2026	101.83981	101.3691323	100.9028168	100.440806	99.98304044	99.52946151	99.08001179	98.6346349	98.19327546
ADV1012057	1/2/2025	4.35	11/28/2025	101.33192	100.9878304	100.6460128	100.3064466	99.96910936	99.6339794	99.30103508	98.97025511	98.64161845
ADV1012722	1/28/2025	4.291	1/28/2026	101.95239	101.4482506	100.9490959	100.4548572	99.96546195	99.4808392	99.00091933	98.52563406	98.05491644
ADV1012427	1/16/2025	4.327	7/16/2026	103.82942	102.8517401	101.8925265	100.9512612	100.0274429	99.120589	98.2302345	97.35593125	96.49724725
ADV1012550	1/22/2025	4.357	1/22/2027	106.13988	104.6372632	103.1637553	101.718584	100.3010027	98.9102907	97.54575195	96.20671389	94.89252654
ADV1012431	1/16/2025	4.348	10/16/2025	100.8578	100.6380617	100.4192774	100.2014367	99.98453342	99.76856136	99.5535145	99.33938682	99.12617238
ADV1012611	1/23/2025	4.289	7/23/2026	103.94071	102.9421338	101.9628008	101.0021558	100.0596668	99.13482184	98.22712806	97.33611083	96.4613129
ADV1012706	1/28/2025	4.292	1/28/2027	106.11384	104.5952108	103.1063063	101.6463306	100.2145143	98.81011431	97.43241364	96.08071957	94.75436289
ADV1012228	1/10/2025	4.541	1/10/2028	110.96885	108.4332254	105.9695483	103.5753607	101.2483072	98.98612691	96.78664847	94.64778645	92.56753714
ADV1012087	1/3/2025	4.464	1/3/2030	119.50614	114.7748476	110.2631306	105.9596161	101.8535786	97.93490082	94.19403625	90.62197366	87.21020457
ADV1012510	1/21/2025	4.391	9/22/2025	100.60486	100.4539107	100.3034157	100.1533726	100.0037793	99.85463369	99.70593388	99.55767779	99.40986342
ADV1012397	1/16/2025	4.504	1/16/2029	115.4743	111.8250831	108.3136069	104.9339165	101.6803498	98.54751915	95.53029687	92.62380085	89.82338155
ADV1012775	1/30/2025	4.239	1/31/2028	110.64759	108.0545767	105.5368754	103.0918522	100.7169851	98.40985578	96.16814423	93.98962447	91.87215992
ADV1012531	1/21/2025	4.36	12/9/2025	101.45544	101.080302	100.707877	100.3381375	99.9710545	99.60659925	99.24474355	98.88545959	98.52871992
ADV1012566	1/22/2025	4.364	7/23/2026	103.94579	102.9481776	101.9697697	101.0100172	100.0683893	99.14437538	98.23748372	97.34724083	96.47319057
ADV1012059	1/2/2025	4.345	12/29/2025	101.67552	101.2415539	100.8111849	100.3843724	99.96107237	99.54124179	99.12483813	98.7118196	98.3021451
ADV1012302	1/14/2025	4.461	11/16/2026	105.45064	104.1296779	102.8361005	101.569056	100.3277323	99.1113508	97.91916451	96.7504565	95.60453838
ADV1012494	1/21/2025	4.4	8/21/2025	100.25939	100.1997187	100.1401301	100.0806263	100.0212073	99.96187264	99.90262231	99.84345609	99.78437379
ADV1012581	1/22/2025	4.234	1/22/2026	101.89369	101.405873	100.9227398	100.4442234	99.97025752	99.50077738	99.03571931	98.57502088	98.11862082
ADV1012396	1/16/2025	4.443	1/18/2028	110.82285	108.2670958	105.7844831	103.3724947	101.0287156	98.75082884	96.53661004	94.3839236	92.29071842
ADV1012774	1/30/2025	4.391	1/30/2030	119.46677	114.6610522	110.0818686	105.717299	101.5561121	97.5877239	93.80215728	90.19000384	86.74238845
ADV1012825	2/3/2025	4.332	2/3/2028	110.74113	108.1420061	105.6184558	103.1678358	100.7876109	98.47535019	96.22872214	94.04548975	91.92350615

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7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1012117	1/6/2025	4.52	1/7/2030	119.80129	115.0522816	110.5241077	106.2052992	102.0850473	98.15315761	94.40001204	90.81653323	87.39415134
ADV1012374	1/15/2025	4.371	12/10/2026	105.63391	104.2514385	102.893827	101.5604567	100.2507331	98.96408109	97.69994338	96.45778043	95.23706949
ADV1012575	1/22/2025	4.316	1/22/2026	101.89996	101.4125314	100.929775	100.4516265	99.97802007	99.50889101	99.04417591	98.58381252	98.12773978
ADV1012672	1/27/2025	4.303	7/27/2026	103.93028	102.9217109	101.932772	100.9628896	100.0115161	99.07812469	98.16220831	97.26327893	96.38086652
ADV1012288	1/14/2025	4.352	1/14/2026	101.82981	101.3646735	100.9038032	100.4471381	99.99462059	99.54619426	99.10180359	98.66139408	98.22491221
ADV1008844	2/21/2025	4.012	8/21/2025	100.22937	100.1700303	100.1107751	100.0516043	99.99251765	99.93351499	99.87459615	99.81576095	99.7570092
ADV1009275	2/10/2025	3.681	6/12/2026	102.87565	101.9963941	101.1321845	100.2826389	99.44738577	98.6260662	97.8183332	97.02385122	96.2422957
ADV1011667	2/3/2025	4.647	2/1/2035	137.20638	126.6525522	117.0426183	108.2858949	100.3008913	93.01433675	86.36031089	80.27947084	74.71836276
ADV1011668	2/3/2025	4.647	2/1/2035	137.20638	126.6525522	117.0426183	108.2858949	100.3008913	93.01433675	86.36031089	80.27947084	74.71836276
ADV1012737	2/28/2025	4.332	3/1/2028	111.08142	108.3984564	105.7950799	103.2684407	100.8158081	98.43456697	96.12221224	93.87634348	91.69465966
ADV1012740	2/28/2025	4.418	3/1/2030	119.94957	115.0405026	110.366328	105.9144956	101.6731959	97.63131158	93.77837284	90.10451636	86.60044665
ADV1012739	2/28/2025	4.418	3/1/2030	119.94957	115.0405026	110.366328	105.9144956	101.6731959	97.63131158	93.77837284	90.10451636	86.60044665
ADV1013278	2/20/2025	4.355	2/25/2028	111.07962	108.4112329	105.8217027	103.3082162	100.8680788	98.49870953	96.19763553	93.96248654	91.79099004
ADV1013496	2/26/2025	4.15	2/28/2028	110.58225	107.9115598	105.3200146	102.8047864	100.3631632	97.99254792	95.69045251	93.45449252	91.28238214
ADV1013132	2/13/2025	4.418	11/10/2025	101.1465	100.8556968	100.5665453	100.2790265	99.99312643	99.70883148	99.42612804	99.14500271	98.86544221
ADV1013330	2/21/2025	4.335	2/23/2026	102.25514	101.6783174	101.1080135	100.5441161	99.98651739	99.43511225	98.88979776	98.35047327	97.81704038
ADV1012934	2/5/2025	4.277	3/5/2027	106.56208	104.9338191	103.3386523	101.7756374	100.2438676	98.74247003	97.27060415	95.82746023	94.41225789
ADV1013487	2/26/2025	4.205	2/28/2028	110.72577	108.053187	105.459795	102.9427617	100.4993739	98.12703326	95.82325044	93.5856399	91.41191473
ADV1012999	2/7/2025	4.289	2/9/2026	102.12002	101.5818129	101.0492893	100.522362	100.0009428	99.4849454	98.9742855	98.46888034	97.96864895
ADV1013086	2/12/2025	4.355	2/12/2026	102.18752	101.6407949	101.0999335	100.5648433	100.0354321	99.51160963	98.99328743	98.48037901	97.97279967
ADV1012996	2/10/2025	4.395	2/10/2028	110.99077	108.3677663	105.821417	103.3490204	100.94799	98.61584649	96.35021275	94.14880875	92.00944698
ADV1013100	2/12/2025	4.52	9/27/2028	114.17879	110.8625102	107.6619069	104.5722482	101.5890267	98.70794798	95.9249187	93.23603577	90.63757622
ADV1013229	2/18/2025	4.465	8/18/2025	100.22595	100.1749735	100.1240615	100.0732178	100.0224422	99.97173459	99.92109481	99.87052273	99.82001821
ADV1012993	2/10/2025	4.426	2/12/2029	115.53396	111.8051779	108.2197766	104.771441	101.4541689	98.26225553	95.19027703	92.23307472	89.38574067
ADV1012953	2/5/2025	4.289	2/7/2028	110.68237	108.0722206	105.5382018	103.0776397	100.6879716	98.36674067	96.111591	93.92026259	91.7905869
ADV1013087	2/12/2025	4.355	2/12/2026	102.18752	101.6407949	101.0999335	100.5648433	100.0354321	99.51160963	98.99328743	98.48037901	97.97279967
ADV1013175	2/14/2025	4.435	8/14/2025	100.18116	100.1415077	100.1019073	100.0623555	100.0228524	99.98339785	99.94399169	99.90463387	99.86532428
ADV1013131	2/13/2025	4.396	1/13/2026	101.85903	101.383538	100.912391	100.4455314	99.98290079	99.52444183	99.07009815	98.61981443	98.17353632
ADV1012991	2/10/2025	4.39	2/10/2027	106.43737	104.8779352	103.3494748	101.8511398	100.3821106	98.94159723	97.52883742	96.1430958	94.78366252
ADV1012917	2/4/2025	4.348	11/4/2025	101.06137	100.7876441	100.515373	100.2445438	99.975145	99.70716536	99.44059361	99.17541865	98.91162951
ADV1013002	2/7/2025	4.296	4/7/2027	107.1171	105.3915729	103.7024293	102.0485872	100.4290037	98.84267712	97.28864495	95.76598199	94.27379847
ADV1012954	2/5/2025	4.347	11/5/2025	101.07199	100.7954264	100.5203508	100.2467484	99.97460749	99.70391626	99.43466313	99.16683663	98.9004254
ADV1013130	2/13/2025	4.448	8/13/2025	100.17095	100.1341297	100.0973535	100.0606215	100.0239337	99.98728986	99.95069002	99.91413407	99.87762191

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1012964	2/6/2025	4.388	9/8/2025	100.45056	100.3398027	100.2292986	100.1190447	100.0090403	99.89928433	99.78977601	99.68051445	99.57149877
ADV1012997	2/11/2025	4.395	2/11/2028	111.00373	108.3776068	105.8282849	103.3530562	100.9493272	98.61461173	96.34652623	94.14278469	92.00119392
ADV1012992	2/10/2025	4.408	2/10/2028	111.02405	108.4006173	105.8538475	103.3810398	100.9796073	98.64707061	96.38105221	94.17927185	92.03954177
ADV1013280	2/20/2025	4.352	8/2/2027	108.52736	106.4669278	104.4567613	102.4953158	100.5811032	98.71269144	96.88870186	95.10780688	93.36872768
ADV1012874	2/3/2025	4.354	2/3/2026	102.0536	101.5326071	101.0169354	100.5065061	100.0012394	99.50105738	99.00588338	98.51564243	98.03026102
ADV1013135	2/14/2025	4.46	2/14/2029	115.68136	111.943762	108.3500428	104.8938525	101.5691615	98.37023955	95.29163855	92.32817741	89.47492717
ADV1012919	2/4/2025	4.333	12/4/2025	101.38779	101.0277648	100.6702448	100.3151996	99.96260364	99.61243153	99.26465836	98.9192595	98.57621069
ADV1013121	2/13/2025	4.42	2/16/2027	103.24592	102.4447541	101.6576668	100.8842725	100.1241986	99.37708666	98.64259119	97.92037951	97.21013098
ADV1013276	2/20/2025	4.458	8/20/2025	100.24721	100.1905727	100.1340121	100.0775303	100.0211274	99.9648031	99.90855726	99.85238971	99.79630029
ADV1013403	2/24/2025	4.301	1/21/2026	101.90079	101.4031358	100.9102482	100.4220557	99.9384913	99.45948945	98.98498568	98.51491681	98.04922079
ADV1012994	2/11/2025	4.38	2/11/2027	106.43541	104.8729703	103.3415972	101.8404354	100.3686618	98.92548281	97.51013291	96.12187349	94.75999171
ADV1013296	2/20/2025	4.278	2/22/2027	106.53436	104.9360635	103.369913	101.8350118	100.3304923	98.85551902	97.40928662	95.99101881	94.59996694
ADV1013453	2/25/2025	4.142	2/25/2026	102.20451	101.6218338	101.0458107	100.4763239	99.91326243	99.35651793	98.80598444	98.26155834	97.72313832
ADV1013489	2/26/2025	4.135	2/26/2027	106.35935	104.7504195	103.1739804	101.6291202	100.114957	98.63064129	97.17535472	95.74830853	94.34874228
ADV1012951	2/5/2025	4.288	2/5/2027	106.21397	104.6714037	103.1593316	101.676926	100.2233869	98.79794249	97.399848	96.02838455	94.68285796
ADV1013005	2/7/2025	4.416	12/17/2029	119.1032	114.4282975	109.9683818	105.7124159	101.6499904	97.77128055	94.06701042	90.52841951	87.14723142
ADV1012942	2/5/2025	4.223	2/5/2026	102.04249	101.5155617	100.9940815	100.4779671	99.96713584	99.46150678	98.96100062	98.46553966	97.97504776
ADV1013096	2/12/2025	4.498	2/12/2030	120.46515	115.5865224	110.93943	106.5116019	102.2914824	98.26818736	94.43146133	90.77163802	87.27960314
ADV1012871	2/3/2025	4.341	2/3/2026	102.04685	101.5258701	101.0102185	100.4998092	99.99456242	99.49440007	98.99924564	98.50902411	98.02366198
ADV1013557	2/28/2025	4.218	2/27/2026	102.22818	101.6404334	101.0594496	100.4851097	99.91730034	99.35591052	98.80083179	98.25195815	97.70918594
ADV1012952	2/5/2025	4.29	10/5/2026	104.72427	103.5178937	102.3394021	101.1878379	100.0622843	98.96186604	97.88574676	96.83312677	95.80324122
ADV1013000	2/7/2025	4.3	8/7/2026	104.12896	103.0879193	102.0677527	101.0678388	100.0875781	99.12639429	98.18373371	97.25906377	96.3518722
ADV1013457	2/25/2025	4.246	2/25/2026	102.22428	101.6420419	101.0664427	100.4973682	99.93470776	99.37835345	98.82819953	98.28414271	97.74608196
ADV1013395	2/24/2025	4.304	4/1/2026	102.62751	101.9474634	101.2764411	100.6142603	99.96074685	99.31573145	98.67904898	98.05053862	97.43004368
ADV1013093	2/12/2025	4.364	2/12/2026	102.19242	101.6456803	101.1048037	100.5696984	100.0402722	99.51643472	98.9980977	98.48517458	97.97758065
ADV1013254	2/19/2025	4.374	2/19/2026	102.23461	101.6688754	101.1094195	100.5561334	100.0089152	99.46766538	98.9322864	98.402683	97.87876189
ADV1012998	2/11/2025	4.426	2/12/2029	115.53396	111.8051779	108.2197766	104.771441	101.4541689	98.26225553	95.19027703	92.23307472	89.38574067
ADV1013347	2/21/2025	4.402	9/22/2025	100.60163	100.4512275	100.3012756	100.1517739	100.0027204	99.85411303	99.70594983	99.55822875	99.41094779
ADV1012995	2/11/2025	4.395	2/11/2028	111.00373	108.3776068	105.8282849	103.3530562	100.9493272	98.61461173	96.34652623	94.14278469	92.00119392
ADV1013452	2/25/2025	4.222	2/25/2026	102.21036	101.6281692	101.0526157	100.4835865	99.92097117	99.3646615	98.81455188	98.27053899	97.73252183
ADV1012944	2/5/2025	4.223	2/5/2026	102.04249	101.5155617	100.9940815	100.4779671	99.96713584	99.46150678	98.96100062	98.46553966	97.97504776
ADV1013253	2/19/2025	4.462	8/19/2025	100.23662	100.1828118	100.1290752	100.075412	100.0218223	99.96830574	99.91486228	99.86149175	99.80819398
ADV1013327	2/21/2025	4.249	2/22/2028	110.95539	108.293417	105.7100289	103.2024233	100.7679189	98.40394767	96.1080486	93.87786271	91.71112806

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1013136	2/14/2025	4.486	2/14/2030	120.08461	115.2187485	110.5838808	106.1677635	101.9588654	97.94632545	94.11991048	90.4699751	86.98742493
ADV1012976	2/6/2025	4.28	2/6/2030	119.39237	114.5567562	109.9502364	105.560693	101.3767174	97.38756224	93.58309921	89.95378017	86.49060077
ADV1013277	2/20/2025	4.352	3/25/2027	106.92644	105.2406812	103.5899156	101.9731177	100.3893027	98.83752375	97.31687038	95.8264665	94.36546885
ADV1013142	2/13/2025	4.436	9/15/2025	100.53144	100.4008143	100.2705406	100.1406135	100.0110316	99.88179345	99.75289763	99.62434274	99.4961274
ADV1012935	2/5/2025	4.306	1/5/2026	101.73081	101.2784306	100.829987	100.3854239	99.94469103	99.50773904	99.07451942	98.64498446	98.2190873
ADV1012888	2/3/2025	4.394	9/3/2025	100.39751	100.300942	100.2045637	100.1083715	100.0123648	99.91654312	99.8209059	99.72545258	99.63018262
ADV1012945	2/5/2025	4.302	2/5/2026	102.04764	101.5211421	101.0000793	100.4843722	99.97393851	99.46869749	98.96857011	98.47347892	97.98334801
ADV1012950	2/5/2025	4.283	4/5/2027	106.94837	105.2320734	103.5518498	101.9066286	100.2953793	98.71711202	97.17087561	95.65575544	94.17087182
ADV1013095	2/12/2025	4.444	10/21/2025	100.93019	100.6966859	100.4642563	100.2328892	100.0025772	99.77331313	99.54508974	99.31789992	99.09173659
ADV1012943	2/5/2025	4.223	2/5/2026	102.04249	101.5155617	100.9940815	100.4779671	99.96713584	99.46150678	98.96100062	98.46553966	97.97504776
ADV1013279	2/20/2025	4.357	2/20/2026	102.23563	101.6671385	101.1049816	100.5490535	99.99925068	99.45547228	98.91761946	98.38559559	97.85930612
ADV1013494	2/26/2025	4.199	2/26/2030	118.90166	114.0255269	109.3826608	104.9606113	100.7476594	96.73277176	92.9055574	89.25622627	85.77555135
ADV1013345	2/21/2025	4.428	8/21/2025	100.25611	100.1966484	100.1372718	100.0779796	100.0187718	99.95964818	99.90060854	99.84165272	99.78278051
ADV1013089	2/12/2025	4.416	1/14/2026	101.87973	101.4011898	100.9270549	100.4572604	99.99174675	99.53045554	99.07332941	98.62031202	98.17134807
ADV1012882	2/3/2025	4.268	2/3/2026	102.04483	101.5234204	101.0073473	100.4965264	99.99087772	99.49032287	98.99478509	98.50418914	98.01846129
ADV1012873	2/3/2025	4.351	2/3/2026	102.05204	101.5310524	101.0153853	100.5049606	99.99969858	99.49952108	99.00435159	98.51411513	98.02873817
ADV1013134	2/14/2025	4.46	2/14/2029	115.68136	111.943762	108.3500428	104.8938525	101.5691615	98.37023955	95.29163855	92.32817741	89.47492717
ADV1012962	2/6/2025	4.378	10/6/2025	100.7521	100.561467	100.371546	100.1823354	99.99383139	99.80602987	99.6189269	99.43251855	99.2468009
ADV1013173	2/14/2025	4.435	8/14/2025	100.18116	100.1415077	100.1019073	100.0623555	100.0228524	99.98339785	99.94399169	99.90463387	99.86532428
ADV1013055	2/11/2025	4.462	9/25/2029	118.35253	113.9290028	109.6998007	105.6552798	101.7863318	98.08435062	94.54120169	91.14919336	87.90105002
ADV1013328	2/21/2025	4.304	2/21/2030	119.67998	114.7911266	110.1356018	105.7009791	101.475558	97.44832133	93.6088919	89.94749151	86.45490323
ADV1013177	2/14/2025	4.386	11/14/2025	101.1817	100.8795132	100.5791059	100.2804615	99.98356452	99.68839948	99.3949512	99.10320464	98.81314493
ADV1009311	3/3/2025	3.668	4/3/2026	102.21789	101.533899	100.8590627	100.1931992	99.53613047	98.88768293	98.2476876	97.61597992	96.99239956
ADV1009444	3/3/2025	3.417	3/12/2027	105.2429	103.606785	102.0041989	100.4341805	98.89580189	97.3881702	95.9104261	94.46174213	93.0413212
ADV1013398	4/1/2025	4.341	4/1/2030	119.92631	114.9309466	110.17824	105.655029	101.3489417	97.24834326	93.34228755	89.62047246	86.07319819
ADV1013399	4/1/2025	4.267	3/31/2028	111.26963	108.5016179	105.8176245	103.2145558	100.6894582	98.2395069	95.86199996	93.55435158	91.31408629
ADV1013400	4/1/2025	4.267	3/31/2028	111.26963	108.5016179	105.8176245	103.2145558	100.6894582	98.2395069	95.86199996	93.55435158	91.31408629
ADV1013401	4/1/2025	4.253	3/31/2028	111.23184	108.4643451	105.7808532	103.1782744	100.6536555	98.20417199	95.82712232	93.51992099	91.28009285
ADV1013465	3/17/2025	4.172	3/17/2028	110.84919	108.1252978	105.4832387	102.9200359	100.4328439	98.01894	95.67571797	93.40068218	91.1914421
ADV1013466	3/17/2025	4.214	3/19/2029	115.18628	111.3617008	107.6874235	104.1566811	100.7630482	97.50042617	94.36302402	91.34534108	88.44215058
ADV1013468	3/17/2025	4.216	3/18/2030	119.18944	114.2502968	109.5496716	105.0747099	100.8133219	96.75413263	92.886436	89.20015154	85.68578424
ADV1013478	3/17/2025	4.219	3/18/2030	119.20349	114.2640215	109.5630831	105.0878193	100.8261396	96.76666859	92.89869988	89.21215253	85.69753115
ADV1013479	3/17/2025	4.216	3/19/2029	115.19364	111.3689188	107.6945109	104.1636417	100.7698857	97.50714397	94.36962552	91.35182954	88.44852913

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014920	4/25/2025	3.88	4/26/2027	106.49759	104.7263909	102.9933916	101.2974205	99.63735527	98.0121194	96.42067975	94.86204439	93.33526053
ADV1014337	4/3/2025	3.959	4/3/2026	102.4644	101.7788517	101.1024889	100.435124	99.7765782	99.12667739	98.48525196	97.85213677	97.22717092
ADV1014411	4/4/2025	3.676	4/4/2028	109.91242	107.1472375	104.4664884	101.8670477	99.34593188	96.90028838	94.52738927	92.22462466	89.98949662
ADV1014618	4/15/2025	3.954	4/15/2027	106.50275	104.7623157	103.0589185	101.3914451	99.75882284	98.16002185	96.59405322	95.0599668	93.55684925
ADV1014795	4/22/2025	3.888	10/22/2026	104.5083	103.255007	102.0318422	100.8377253	99.67162914	98.53257472	97.41962811	96.33189799	95.26853326
ADV1014210	3/28/2025	4.011	3/28/2028	110.54134	107.7913877	105.1247779	102.5384529	100.0294882	97.59508716	95.23257409	92.93938805	90.71307716
ADV1014361	4/3/2025	3.853	4/2/2027	106.18439	104.4831924	102.8176411	101.1866794	99.58929329	98.02450845	96.49138836	94.98903241	93.51657416
ADV1014746	4/21/2025	4.441	4/23/2035	125.85938	118.6511895	112.0109085	105.8874375	100.2346762	95.01100241	90.17880854	85.70408833	81.55606846
ADV1014374	4/3/2025	3.746	4/3/2028	110.09151	107.3267147	104.6462537	102.0470077	99.52599928	97.08038216	94.70743397	92.40455008	90.16923745
ADV1015013	4/29/2025	3.821	4/30/2029	114.17388	110.2492732	106.483195	102.8683016	99.39763661	96.06460852	92.86296891	89.78679221	86.83045674
ADV1013958	3/18/2025	4.13	3/18/2027	106.47474	104.8118643	103.1832607	101.587935	100.0249311	98.49332982	96.99224656	95.52082991	94.07826
ADV1014364	4/3/2025	4.11	3/28/2031	122.10896	116.0338603	110.3075316	104.9079881	99.81474634	95.0087173	90.47210359	86.18830519	82.14183244
ADV1014934	4/25/2025	3.933	10/26/2026	104.51895	103.2559243	102.0234901	100.8205485	99.64604883	98.49898991	97.37841705	96.28341943	95.21312759
ADV1014646	4/16/2025	3.89	11/16/2026	104.79399	103.4761037	102.1855778	100.9215603	99.68323894	98.46983524	97.28060228	96.11482322	94.97180974
ADV1014957	4/28/2025	4.3	10/28/2025	100.96015	100.7090372	100.459159	100.2105077	99.96307436	99.71685001	99.4718258	99.22799299	98.98534291
ADV1013608	3/3/2025	4.164	3/3/2026	102.24125	101.6424556	101.0506831	100.4658076	99.88770896	99.31626974	98.75137525	98.19291343	97.64077476
ADV1013830	3/12/2025	4.026	9/14/2026	104.26051	103.1137355	101.9922513	100.8952271	99.82186776	98.77141257	97.74313301	96.73633121	95.75033834
ADV1013641	3/4/2025	4.098	3/4/2027	106.26191	104.6388717	103.0487943	101.4907387	99.96380295	98.46711903	96.99985081	95.5611928	94.15036868
ADV1014042	3/21/2025	4.023	3/14/2028	110.41912	107.7092377	105.0806187	102.5303146	100.0555058	97.65349437	95.32169726	93.05764077	90.85895507
ADV1014200	3/28/2025	3.988	9/28/2026	104.36712	103.1810308	102.0219542	100.8889755	99.78121967	98.69785039	97.63806802	96.60110755	95.58623677
ADV1013624	3/4/2025	4.256	12/4/2025	101.35639	100.9977398	100.6415852	100.2878959	99.9366465	99.58781171	99.24136669	98.89728692	98.55554822
ADV1013927	3/17/2025	4.13	5/31/2029	115.68398	111.6447982	107.7716557	104.0568554	100.4931008	97.07346913	93.79139026	90.64062671	87.61525524
ADV1013596	3/14/2025	4.111	3/14/2029	114.75346	110.9506556	107.2969379	103.7856085	100.4103114	97.165012	94.04397953	91.04176951	88.1532077
ADV1014142	3/27/2025	4.266	3/22/2030	119.46379	114.5071177	109.7901948	105.3000734	101.0245815	96.95226867	93.07235891	89.37470717	85.84975871
ADV1014358	4/3/2025	3.849	4/3/2028	110.17359	107.4119853	104.7345164	102.1380806	99.61971	97.17656727	94.80593853	92.5052271	90.27194751
ADV1014377	4/3/2025	3.828	4/5/2027	106.17552	104.4660052	102.7924414	101.1537602	99.54893442	97.97697742	96.43694101	94.92791357	93.44901824
ADV1014321	4/2/2025	4.157	4/2/2026	102.54166	101.8591898	101.1858139	100.5213495	99.86562048	99.21845519	98.57968658	97.94915189	97.32669255
ADV1014860	4/24/2025	3.975	10/26/2026	104.57156	103.3081824	102.0754059	100.8721277	99.69729697	98.54991239	97.42901913	96.33370621	95.26310406
ADV1014650	4/16/2025	4.374	9/10/2025	100.45951	100.344019	100.2288055	100.1138667	99.99920164	99.88480935	99.77068879	99.65683896	99.54325885
ADV1014963	4/28/2025	3.956	4/28/2026	102.70824	101.952843	101.2085682	100.4751697	99.75241033	99.04005961	98.33789373	97.64569523	96.96325283
ADV1014391	4/4/2025	3.661	4/4/2028	109.67498	106.9173461	104.2438497	101.6513811	99.13696901	96.69777305	94.33107659	92.03428049	89.80489702
ADV1014470	4/8/2025	3.82	4/10/2028	110.16999	107.3886461	104.692542	102.0785106	99.54352675	97.08469912	94.69926331	92.38457519	90.1381047
ADV1015016	4/29/2025	4.101	4/29/2031	122.31384	116.1417683	110.3287897	104.8519588	99.6899245	94.82280958	90.23210092	85.90054813	81.81207038

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014413	4/4/2025	3.784	4/4/2030	117.679	112.7165445	107.9965034	103.5056762	99.23165594	95.16277742	91.28806857	87.59720507	84.0804684
ADV1014917	4/25/2025	4.902	4/25/2040	152.91212	136.3791237	121.9773395	109.4126584	98.43338825	88.82391613	80.39934828	73.00097179	66.49240817
ADV1014902	4/25/2025	4.116	4/27/2026	102.76609	102.0138994	101.2727344	100.5423524	99.82251912	99.11300705	98.41359517	97.72406873	97.04421905
ADV1015079	4/30/2025	3.7	7/30/2027	107.17282	105.1345601	103.1459505	101.2054684	99.31164848	97.46308023	95.65840555	93.89631647	92.17555286
ADV1015048	4/30/2025	3.727	4/30/2027	106.27172	104.4913884	102.7496413	101.0452916	99.37719987	97.74427312	96.14546292	94.57976288	93.04620654
ADV1014504	4/10/2025	4.073	4/10/2026	102.56426	101.8596617	101.1647635	100.4793646	99.80327083	99.13629338	98.47824843	97.82895708	97.18824522
ADV1014203	3/28/2025	3.94	3/29/2027	106.40257	104.708394	103.0495794	101.4250853	99.83391068	98.27509314	96.74770759	95.25086416	93.78370657
ADV1014369	4/3/2025	3.869	4/3/2030	117.71582	112.7661936	108.0579253	103.5778881	99.31374765	95.25390592	91.38745282	87.70412145	84.19424639
ADV1013722	3/7/2025	4.25	11/19/2025	101.19173	100.8762527	100.5627147	100.2511002	99.94139125	99.63357051	99.32762063	99.0235245	98.72126526
ADV1013727	3/7/2025	4.007	3/7/2028	110.30135	107.6122558	105.0033758	102.4718201	100.0148215	97.62973093	95.31401148	93.06523281	90.88106591
ADV1013630	3/18/2025	4.037	9/18/2029	116.49044	112.1256292	107.9522765	103.9609023	100.1425552	96.48877567	92.99156618	89.64336306	86.43701043
ADV1014073	3/24/2025	4.382	9/9/2025	100.45331	100.3403339	100.2276184	100.115165	100.0029728	99.89104085	99.7793682	99.66795392	99.55679707
ADV1013691	3/6/2025	4.226	1/6/2026	101.70196	101.2485033	100.7990163	100.3534444	99.91173673	99.47384303	99.03971405	98.60930137	98.18255736
ADV1013689	3/6/2025	4.101	4/15/2027	106.7579	105.0152458	103.3096752	101.6400677	100.0053495	98.40448976	96.83649862	95.30042492	93.7953544
ADV1014145	3/27/2025	4.031	3/27/2028	110.78017	108.0254607	105.3542393	102.7634408	100.2501361	97.81152364	95.4449233	93.1477698	90.91760703
ADV1013756	3/17/2025	4.041	9/17/2026	104.2291	103.0754316	101.9473708	100.8440693	99.76471729	98.70853994	97.6747956	96.662774	95.67179459
ADV1014838	4/23/2025	4.209	2/11/2026	102.06818	101.513774	100.9653048	100.4226751	99.88579193	99.35456436	98.82890334	98.30872166	97.79393397
ADV1014855	4/24/2025	3.917	1/18/2028	109.50886	106.9697141	104.5033386	102.1072301	99.77898455	97.51629523	95.31694795	93.17881673	91.09985975
ADV1014346	4/3/2025	3.906	4/3/2030	117.89074	112.9370442	108.2248432	103.741012	99.47321015	95.4098338	91.53996747	87.85333905	84.34027819
ADV1014293	4/1/2025	3.972	4/15/2027	106.53592	104.7952773	103.0916764	101.4240034	99.79118533	98.19219245	96.62603569	95.09176482	93.58846642
ADV1013600	3/3/2025	4.374	9/3/2025	100.39098	100.2947507	100.1987031	100.102841	100.0071637	99.91167077	99.81636168	99.72123586	99.62629278
ADV1014283	4/1/2025	4.09	4/1/2030	118.74099	113.773226	109.047137	104.549606	100.268302	96.19162912	92.30867814	88.60918201	85.08347426
ADV1013810	3/11/2025	4.32	9/25/2025	100.6182	100.4596512	100.3016055	100.1440556	99.9869994	99.8304344	99.67435834	99.51876892	99.36366385
ADV1014916	4/25/2025	4.82	4/25/2039	148.94591	133.6188615	120.159563	108.3245499	97.90355156	88.71479658	80.60100453	73.42595984	67.07158117
ADV1014852	4/24/2025	3.938	2/16/2027	105.80886	104.2364707	102.6955113	101.185108	99.70442129	98.25264216	96.82899058	95.43271421	94.06308715
ADV1014331	4/3/2025	3.804	10/5/2026	104.22766	103.0231508	101.8465279	100.6968314	99.57314375	98.47458878	97.40032929	96.34956491	95.32153013
ADV1013892	3/14/2025	4.371	8/14/2025	100.17368	100.1341703	100.0947141	100.0553063	100.015947	99.97663606	99.93737335	99.8981588	99.85899231
ADV1014992	4/29/2025	3.756	10/12/2027	108.07625	105.8240593	103.6303825	101.4932745	99.41086962	97.38137951	95.40308928	93.47435384	91.59359437
ADV1013867	3/13/2025	4.102	3/15/2027	103.32188	102.4375517	101.5691246	100.7161631	99.8782436	99.05495857	98.24591545	97.45073613	96.66905622
ADV1014076	3/24/2025	4.156	3/26/2029	115.04955	111.2080378	107.5181495	103.9730272	100.5661624	97.29137904	94.1428144	91.11490095	88.20234967
ADV1014245	3/31/2025	4.363	6/1/2032	127.09219	119.6535032	112.7169267	106.2457127	100.2059879	94.56651405	89.29847054	84.37525593	79.77230642
ADV1014831	4/23/2025	3.882	4/23/2027	106.59227	104.8264183	103.0985506	101.4075028	99.75216243	98.13146243	96.5443785	94.98992709	93.46716327
ADV1014140	3/27/2025	4.265	3/15/2030	119.38629	114.4509868	109.7536129	105.2813631	101.0221951	96.96477784	93.09844533	89.41315388	85.89944221

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1013723	3/7/2025	4.198	1/14/2026	101.77442	101.2980472	100.8260602	100.3583938	99.89498893	99.43578738	98.98073204	98.52976683	98.08283669
ADV1013774	3/17/2025	4.096	3/15/2030	118.59767	113.6805635	109.0007417	104.5454313	100.3026166	96.26099161	92.40991437	88.7393639	85.23990052
ADV1014723	4/21/2025	4.292	10/21/2025	100.88446	100.6530404	100.4226774	100.1933675	99.96510333	99.73787773	99.51168356	99.28651377	99.06236135
ADV1015012	4/29/2025	3.756	4/28/2028	110.18342	107.3510391	104.6067697	101.947284	99.369406	96.87010326	94.44647889	92.09576444	89.81531311
ADV1014926	4/25/2025	4.083	4/27/2026	102.74138	101.9892882	101.2482245	100.5179427	99.79820863	99.08879474	98.38948006	97.70004985	97.02029544
ADV1014252	3/31/2025	4.271	3/31/2031	123.05053	116.9405523	111.1813615	105.7508268	100.6283362	95.79468221	91.23195796	86.92346232	82.85361213
ADV1013629	3/18/2025	4.037	9/18/2029	116.49044	112.1256292	107.9522765	103.9609023	100.1425552	96.48877567	92.99156618	89.64336306	86.43701043
ADV1014775	4/22/2025	4.147	4/19/2030	119.19089	114.1608428	109.377623	104.8277137	100.4984144	96.37778925	92.4546163	88.71834058	85.15903047
ADV1013605	3/3/2025	4.368	9/3/2025	100.39038	100.2941541	100.1981094	100.1022501	100.0065757	99.91108565	99.81577941	99.72065645	99.62571621
ADV1013764	3/18/2025	4.011	9/20/2027	108.39513	106.2001766	104.0610638	101.975975	99.94317035	97.96098036	96.02780202	94.14209573	92.30238218
ADV1013897	3/14/2025	4.089	3/14/2028	110.59518	107.8829348	105.2520085	102.6994505	100.2224396	97.8182762	95.48437571	93.21826293	91.01756658
ADV1014260	3/31/2025	4.005	3/31/2028	110.55823	107.7998311	105.1252188	102.5313132	100.0151674	97.57396321	95.2050051	92.90571334	90.67361834
ADV1015045	4/30/2025	4.595	4/30/2037	141.93467	128.9203693	117.3013947	106.9177351	97.62863005	89.31015824	81.85313869	75.16130331	69.14970476
ADV1014748	4/21/2025	3.844	4/21/2027	106.37906	104.6229229	102.9044361	101.2224542	99.57587812	97.9636531	96.38476675	94.8382467	93.32315865
ADV1013875	3/13/2025	4.103	9/5/2029	116.62559	112.2952854	108.1535283	104.1910546	100.3991095	96.76941555	93.29414355	89.96588578	86.77763078
ADV1013724	3/7/2025	4.17	2/11/2026	102.05324	101.496085	100.9448979	100.3995793	99.86003572	99.32617575	98.79790989	98.27515054	97.7578119
ADV1013777	3/12/2025	4.022	8/31/2028	112.28633	109.0770105	105.9778076	102.9842994	100.0922718	97.29770461	94.59676187	91.98578201	89.46126881
ADV1014434	4/7/2025	4.163	11/25/2025	101.22331	100.8919891	100.5628109	100.2357522	99.91079272	99.58791225	99.26709086	98.94830889	98.63154691
ADV1014367	4/3/2025	3.84	2/5/2027	105.52619	103.9891159	102.4824417	101.00534	99.55701329	98.13669235	96.74363474	95.37712387	94.03646776
ADV1014405	4/4/2025	3.679	2/4/2028	109.27684	106.6896788	104.1780073	101.7391742	99.37064107	97.06997427	94.83483979	92.66299855	90.55230184
ADV1014396	4/4/2025	3.643	4/4/2030	117.01088	112.0640271	107.3590327	102.8827208	98.62270784	94.56735068	90.7056982	87.02744601	83.52289449
ADV1013799	3/11/2025	4.331	9/11/2025	100.47081	100.3520179	100.2335115	100.1152946	99.99736608	99.87972483	99.76236976	99.64529981	99.52851388
ADV1014259	3/31/2025	3.999	9/30/2027	108.4828	106.2587063	104.0917095	101.9799356	99.92158759	97.91494147	95.95834306	94.05020437	92.18900045
ADV1014793	4/22/2025	3.968	10/22/2026	104.52012	103.2681086	102.0461658	100.8532192	99.68824432	98.55026439	97.43834772	96.35160507	95.2891873
ADV1014908	4/25/2025	4.135	3/25/2026	102.44235	101.7822551	101.130676	100.4874524	99.85242393	99.22543461	98.60633226	97.99496854	97.39119881
ADV1014616	4/15/2025	3.87	4/15/2027	106.48109	104.7386821	103.0333953	101.3641066	99.72973999	98.12926299	96.56168392	95.02605004	93.52144558
ADV1014404	4/4/2025	3.977	4/6/2026	102.45854	101.7653812	101.0816152	100.4070499	99.74150029	99.0847862	98.43673236	97.79716804	97.16592702
ADV1014319	4/2/2025	4.078	4/2/2026	102.53541	101.8523498	101.1784031	100.5133839	99.85711537	99.20942556	98.5701469	97.9391162	97.31617446
ADV1014044	3/21/2025	4.047	10/10/2028	112.80697	109.4764945	106.2634475	103.1629732	100.1704506	97.28147904	94.49186658	91.79761838	89.19492603
ADV1013765	3/18/2025	4.018	3/20/2028	110.47291	107.7458352	105.1009148	102.5351508	100.0456791	97.62975952	95.28476951	93.00819819	90.7976407
ADV1013728	3/7/2025	4.081	3/7/2029	114.56853	110.7885135	107.1561056	103.664703	100.3080373	97.08015604	93.9754047	90.98841004	88.11406431
ADV1013631	3/14/2025	3.983	9/14/2027	108.26623	106.0895932	103.9680289	101.8997599	99.88308103	97.91635536	95.99801064	94.12653633	92.3004806
ADV1014089	3/24/2025	4.38	9/17/2025	100.53935	100.4037025	100.2684316	100.1335343	99.99900924	99.86485469	99.73106912	99.59765096	99.46459866

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014442	4/7/2025	4.018	4/7/2026	102.49638	101.8003063	101.1137013	100.4363722	99.76813149	99.10879704	98.45819136	97.81614168	97.1824798
ADV1013699	3/6/2025	4.07	3/6/2028	110.4561	107.7676976	105.1594163	102.6283688	100.1717936	97.78704722	95.47159772	93.2230196	91.03898834
ADV1013669	3/5/2025	4.078	9/8/2026	104.17518	103.0466847	101.9427003	100.8624352	99.80512991	98.77005716	97.75652005	96.76385058	95.79140818
ADV1014868	4/24/2025	3.835	4/26/2027	106.54414	104.7703073	103.0347609	101.3363308	99.67389118	98.04636211	96.45270737	94.89193205	93.36308053
ADV1014292	4/1/2025	3.976	4/1/2027	106.38125	104.6811398	103.0166081	101.3865988	99.79010136	98.22614471	96.69379544	95.19215587	93.7203623
ADV1014751	4/21/2025	4.192	12/22/2025	101.52005	101.112053	100.7072981	100.3057454	99.90735691	99.51209526	99.11992368	98.73080597	98.3447065
ADV1014263	3/31/2025	4.051	3/31/2026	102.49269	101.8152971	101.1468643	100.4872117	99.8361673	99.19356321	98.55923606	97.93302662	97.31477974
ADV1014375	4/3/2025	3.845	4/5/2027	106.2044	104.4946338	102.8208216	101.1818963	99.57683083	98.00463836	96.46437059	94.9551158	93.47599702
ADV1014492	4/9/2025	3.963	5/1/2028	110.79378	107.944505	105.1840269	102.5089866	99.91618059	97.40255021	94.96517348	92.60125798	90.30813399
ADV1014007	3/20/2025	4.041	4/11/2028	110.7821	107.9895074	105.2825127	102.65793	100.1127199	97.64397763	95.24892603	92.92490888	90.66938464
ADV1014857	4/24/2025	3.935	7/14/2028	111.50647	108.4412776	105.4777962	102.612093	99.84040589	97.15913898	94.56485455	92.05426498	89.62422535
ADV1014952	4/28/2025	4.305	10/28/2025	100.9614	100.710282	100.4603976	100.2117401	99.96430061	99.71807013	99.47303984	99.22920096	98.98654484
ADV1013811	3/11/2025	4.097	3/25/2026	102.41956	101.7595833	101.1081207	100.465012	99.83009692	99.20321948	98.58422753	97.97297276	97.36931059
ADV1014436	4/7/2025	4.02	3/25/2026	102.36951	101.7097228	101.0584522	100.4155338	99.78080731	99.15411677	98.53531006	97.9242389	97.32075871
ADV1015058	4/30/2025	3.648	4/30/2027	106.25832	104.4758748	102.7320963	101.0257946	99.35582678	97.72109695	96.12055368	94.5531878	93.01803021
ADV1014247	3/31/2025	4.102	3/29/2030	118.76333	113.8033718	109.0843431	104.5931864	100.3176261	96.24611685	92.36779619	88.67243996	85.15042116
ADV1014851	4/24/2025	3.948	1/13/2027	105.42778	103.9550145	102.5103378	101.0930183	99.70234656	98.33763695	96.99822701	95.68347633	94.39276565
ADV1014299	4/1/2025	3.996	10/30/2026	104.64495	103.3700937	102.1263753	100.9126613	99.72787442	98.57098842	97.4410251	96.33705155	95.25817754
ADV1014041	3/21/2025	4.022	1/18/2028	109.77153	107.2290585	104.7594296	102.3601395	100.028782	97.7630483	95.56072212	93.41967554	91.3378649
ADV1014574	4/14/2025	4.189	6/14/2030	119.95146	114.7450244	109.801221	105.1054014	100.6438056	96.40350677	92.37235644	88.53893393	84.89249902
ADV1014472	4/8/2025	3.997	4/8/2030	118.36941	113.3902081	108.6542245	104.1482059	99.85969757	95.77699006	91.8890704	88.18557642	84.65675451
ADV1014370	4/3/2025	3.82	4/5/2027	106.16193	104.4525329	102.779086	101.1405197	99.5358067	97.96396051	96.42403297	94.91511252	93.43632235
ADV1014614	4/15/2025	4.324	10/15/2025	100.82817	100.6135921	100.3999255	100.187169	99.97531663	99.76436256	99.55430102	99.34512628	99.13683265
ADV1013591	3/3/2025	4.194	3/3/2026	102.25917	101.6603163	101.0684837	100.4835486	99.90539086	99.33389301	98.76894038	98.2104209	97.65822502
ADV1014372	4/3/2025	3.873	4/3/2030	117.73473	112.7846639	108.0759705	103.5955231	99.33098684	95.27076299	91.40394089	87.72025308	84.21003361
ADV1013599	3/14/2025	4.101	3/14/2029	114.71683	110.9146979	107.2616281	103.7509282	100.3762424	97.13153711	94.01108205	91.00943337	88.12141739
ADV1014861	4/24/2025	3.924	4/26/2027	106.57487	104.8029679	103.0692819	101.3726368	99.71190964	98.08602366	96.49394538	94.93468259	93.40728218
ADV1013570	3/3/2025	4.214	3/3/2026	102.27112	101.6722234	101.0803508	100.495376	99.91717879	99.34564186	98.78065047	98.22209254	97.66985853
ADV1013771	3/18/2025	4.009	3/20/2028	110.4489	107.7221471	105.0775421	102.5120863	100.0229158	97.60729058	95.2625884	92.98629852	90.7760163
ADV1015021	4/29/2025	3.755	4/29/2027	106.31027	104.532382	102.7929776	101.0908755	99.42494033	97.79408353	96.19726051	94.63346858	93.10174475
ADV1013750	3/10/2025	4.126	3/10/2026	102.28783	101.6695804	101.0588238	100.4554204	99.85923774	99.27014653	98.68802052	98.11273645	97.54417396
ADV1014157	3/27/2025	4.125	3/27/2026	102.50192	101.8355031	101.1777666	100.5285382	99.88765342	99.25495195	98.63027763	98.01347822	97.40440533
ADV1015072	4/30/2025	3.71	4/28/2028	110.05574	107.2251474	104.4826191	101.8248334	99.24861588	96.75093514	94.32889555	91.97972982	89.70079226

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1013725	3/7/2025	4.102	4/8/2026	102.56488	101.865796	101.1762571	100.49607	99.82504501	99.16299765	98.50974836	97.86512231	97.22894931
ADV1015043	4/30/2025	3.791	12/16/2026	104.89722	103.5039234	102.1359374	100.7926345	99.47340385	98.17765438	96.90481385	95.65432819	94.42566082
ADV1013717	3/7/2025	4.132	3/19/2026	102.38281	101.7394919	101.1042761	100.4770102	99.85754536	99.24573636	98.64144166	98.04452314	97.45484608
ADV1014996	4/30/2025	3.837	10/30/2026	104.4398	103.1662779	101.9238691	100.7114427	99.52792201	98.37228138	97.24354317	96.14077502	95.06308722
ADV1015020	4/29/2025	3.81	12/29/2026	105.0636	103.6339847	102.2309232	100.8537342	99.50176423	98.17438116	96.87097362	95.59095002	94.33373783
ADV1013575	3/3/2025	4.376	9/3/2025	100.39118	100.2949496	100.198901	100.1030379	100.0073597	99.91186581	99.81655577	99.721429	99.62648496
ADV1013772	3/18/2025	4.095	3/15/2030	118.593	113.6759965	108.9962788	104.5410688	100.2983509	96.25681953	92.40583269	88.73536957	85.23599061
ADV1013753	3/10/2025	4.022	3/10/2027	106.20673	104.5678534	102.9624732	101.3896281	99.84839382	98.33788111	96.85723378	95.40562732	93.98226737
ADV1015060	4/30/2025	3.707	4/30/2029	114.02249	110.0932763	106.3229898	102.7042588	99.23010254	95.89390656	92.68940105	89.61064049	86.65198458
ADV1014402	4/4/2025	3.778	4/3/2030	117.28559	112.3459932	107.6473973	103.1766914	98.92155611	94.8704076	91.01234922	87.33712682	83.83508711
ADV1013956	3/18/2025	4.148	11/18/2026	105.06388	103.7408551	102.4446655	101.1745056	99.92959982	98.70920373	97.51260225	96.33910836	95.18806171
ADV1015092	4/30/2025	3.784	10/30/2026	104.37284	103.099762	101.8577923	100.6457977	99.46270156	98.3074785	97.17915107	96.0767871	94.99949705
ADV1014448	4/7/2025	3.876	4/7/2027	106.27916	104.5631222	102.8832581	101.2384896	99.62778024	98.05013481	96.50459683	94.99024687	93.50620068
ADV1014336	4/3/2025	4.08	3/19/2026	102.34992	101.7067319	101.071646	100.4445087	99.82517136	99.2134887	98.60931919	98.01252475	97.42297065
ADV1013755	3/14/2025	4.101	3/14/2030	118.61171	113.6970669	109.019475	104.566176	100.3251718	96.2851725	92.43555093	88.76629973	85.26799179
ADV1014796	4/22/2025	3.832	4/22/2027	106.4939	104.7317336	103.0074257	101.3198212	99.66781267	98.05033761	96.4663762	94.9149491	93.39511535
ADV1014617	4/15/2025	4.092	4/15/2026	102.62777	101.9091538	101.2006215	100.5019623	99.81297035	99.13344576	98.46319397	97.80202577	97.14975708
ADV1014967	4/28/2025	3.855	10/28/2026	104.44175	103.1737227	101.9365431	100.7290967	99.55032015	98.39920005	97.27477037	96.17610964	95.10233838
ADV1014373	4/3/2025	3.761	4/5/2027	106.18283	104.4711418	102.7954861	101.1547892	99.54802066	97.97419114	96.43234972	94.92158219	93.44100926
ADV1014745	4/21/2025	4.258	4/23/2035	119.32109	114.0283245	109.0786201	104.4455988	100.1051525	96.03522716	92.2156316	88.62786651	85.25496972
ADV1014362	4/3/2025	4.059	4/3/2026	102.48504	101.8000291	101.1241854	100.4573242	99.79926701	99.14984026	98.50887482	97.87620596	97.25167323
ADV1013768	3/17/2025	4.018	3/17/2028	110.43961	107.7212141	105.0845198	102.5265591	100.0444903	97.63559441	95.29726872	93.02702098	90.8224639
ADV1014490	4/9/2025	4.008	4/9/2026	102.55756	101.8551155	101.1623079	100.4789425	99.80482672	99.13977353	98.4836007	97.83613092	97.19719159
ADV1013671	3/5/2025	4.087	3/5/2027	106.2556	104.6298963	103.0372428	101.4766967	99.94735242	98.4483384	96.97881516	95.53797405	94.12503573
ADV1013972	3/18/2025	4.1	3/15/2028	110.63505	107.9195279	105.2854816	102.7299522	100.2501109	97.84325091	95.5067807	93.23821874	91.03518768
ADV1013598	3/14/2025	4.061	3/14/2028	110.52094	107.8096875	105.1797307	102.6281201	100.1520352	97.74877696	95.41576151	93.15051423	90.95066443
ADV1015010	4/29/2025	4.016	4/29/2026	102.71048	101.953024	101.2067446	100.4713986	99.74674689	99.03255734	98.32860445	97.63466915	96.9505386
ADV1015073	4/30/2025	3.79	4/30/2029	114.05633	110.133934	106.3700053	102.7571979	99.28855767	95.9574955	92.75776513	89.68344308	86.72890968
ADV1014828	4/23/2025	4.407	9/19/2025	100.56005	100.4192189	100.2787927	100.1387683	99.99914391	99.85991778	99.72108818	99.58265339	99.44461168
ADV1014643	4/16/2025	3.921	4/16/2027	106.45673	104.7139076	103.0082216	101.3385516	99.70382062	98.10299482	96.53508154	94.99912703	93.49421459
ADV1014913	4/25/2025	4.617	4/25/2036	140.09667	128.1698895	117.4268136	107.7415703	99.00237081	91.10986168	83.97567934	77.52117929	71.67631849
ADV1013633	3/4/2025	4.006	3/4/2027	106.11376	104.4919561	102.9030915	101.3462273	99.82046213	98.32492847	96.85879079	95.42124411	94.01151261
ADV1014836	4/23/2025	4.447	8/26/2025	100.30208	100.2289598	100.1559565	100.0830673	100.0102918	99.93762982	99.86508107	99.7926453	99.72032224

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014047	3/21/2025	3.942	3/21/2028	110.47512	107.7410458	105.0894803	102.5174117	100.0219587	97.60036462	95.24999153	92.96831394	90.75291326
ADV1013621	3/4/2025	4.006	9/17/2026	104.19117	103.0377954	101.910023	100.8070046	99.72793051	98.67202614	97.63854997	96.62679188	95.63607144
ADV1013895	3/14/2025	4.113	9/14/2026	104.2791	103.1333995	102.0129455	100.9169095	99.84449841	98.79495327	97.76754724	96.76158406	95.77639644
ADV1013766	3/18/2025	4.072	3/19/2029	114.66426	110.8492268	107.1842188	103.662478	100.2775892	97.02346293	93.89431741	90.88466057	87.98927392
ADV1014430	4/7/2025	3.734	10/7/2026	104.16419	102.9545497	101.7730474	100.6187095	99.49060608	98.38784939	97.3095912	96.25502081	95.223363
ADV1013896	3/14/2025	4.097	3/15/2027	106.3862	104.7322308	103.112245	101.525259	99.97032888	98.44654648	96.95303793	95.48896191	94.05350813
ADV1013715	3/7/2025	3.924	3/8/2027	106.14133	104.5064751	102.9049913	101.3359271	99.7983635	98.29141603	96.81423318	95.36599486	93.94591088
ADV1013775	3/18/2025	4.095	3/15/2030	118.593	113.6759965	108.9962788	104.5410688	100.2983509	96.25681953	92.40583269	88.73536957	85.23599061
ADV1014423	4/7/2025	3.683	4/7/2027	106.07169	104.3553609	102.6752504	101.0302787	99.41940723	97.84163873	96.29601486	94.78161443	93.29755152
ADV1015053	4/30/2025	3.77	4/30/2030	117.85364	112.8125312	108.0209201	103.4650338	99.13194348	95.00950495	91.08630585	87.35161718	83.79534822
ADV1015093	4/30/2025	3.784	10/30/2026	104.37284	103.099762	101.8577923	100.6457977	99.46270156	98.3074785	97.17915107	96.0767871	94.99949705
ADV1015009	4/29/2025	3.761	4/29/2027	106.32086	104.5428724	102.8033735	101.1011786	99.43515244	97.8042062	96.20729532	94.64341708	93.11160844
ADV1013634	3/4/2025	3.989	3/6/2028	110.24341	107.5578448	104.9523372	102.4240003	99.9700748	97.58791885	95.27500248	93.02890187	90.8472942
ADV1013754	3/14/2025	4.021	3/15/2027	106.26153	104.6086181	102.9896714	101.4037061	99.84977862	98.32698146	96.83444116	95.37131685	93.93679867
ADV1014409	4/4/2025	3.767	4/15/2027	106.18152	104.4440046	102.7434794	101.0788262	99.4489737	97.85289349	96.28959801	94.75813837	93.2576025
ADV1015011	4/29/2025	3.757	4/29/2027	106.3138	104.5358788	102.7964429	101.0943099	99.42834437	97.79745775	96.20060545	94.63678474	93.10503265
ADV1013752	3/10/2025	4.046	9/10/2026	104.16007	103.0261191	101.9169247	100.8316779	99.76960812	98.72997765	97.71207976	96.71523717	95.73880051
ADV1013672	3/5/2025	4.085	3/6/2028	110.4957	107.8067805	105.1979956	102.666456	100.2093998	97.82418312	95.50827372	93.25924581	91.07477455
ADV1013971	3/18/2025	4.103	9/9/2027	108.46417	106.2994884	104.1893096	102.1318868	100.1255413	98.16866144	96.25969871	94.39716497	92.57962956
ADV1014566	4/14/2025	4.11	4/1/2030	116.74879	112.3312908	108.1229243	104.1124261	100.2892049	96.64330193	93.16534905	89.84652986	86.67854388
ADV1013812	3/11/2025	4.062	6/25/2026	103.34804	102.4307337	101.5297402	100.644627	99.77497653	98.92038566	98.08046525	97.25483945	96.44314517
ADV1013807	3/11/2025	4.024	9/11/2026	104.14607	103.0094471	101.8976957	100.8100054	99.7456002	98.70373717	97.68370466	96.68482073	95.70643163
ADV1014912	4/25/2025	4.561	4/25/2035	137.03335	126.2526979	116.4568614	107.5492683	99.44334329	92.06142178	85.33378756	79.19781959	73.59723444
ADV1014829	4/23/2025	4.223	1/16/2026	101.80123	101.3215509	100.8463332	100.375517	99.90904121	99.44684593	98.98887231	98.53506261	98.08536013
ADV1014772	4/22/2025	4.144	4/5/2030	119.03359	114.0474541	109.3042883	104.790884	100.4948222	96.40442558	92.50871012	88.79733958	85.26058358
ADV1014435	4/7/2025	4.12	12/26/2025	101.53513	101.1152269	100.6987437	100.28564	99.87587496	99.46940812	99.0661998	98.6662109	98.26940299
ADV1013767	3/17/2025	4.011	9/17/2027	108.36043	106.1743136	104.0436535	101.9666588	99.94160685	97.96684425	96.04078328	94.16189872	92.32872489
ADV1015069	4/30/2025	3.633	4/30/2027	106.2318	104.4495915	102.7060501	100.9999813	99.33024223	97.69573697	96.0954143	94.52826514	92.9933205
ADV1014141	3/27/2025	4.05	9/28/2026	104.44015	103.2536098	102.0940861	100.9606673	99.85247805	98.76868195	97.70847918	96.67110458	95.65582575
ADV1013814	3/11/2025	4.034	3/11/2027	106.23766	104.5958093	102.9875483	101.4119145	99.86797963	98.35485071	96.87166804	95.41760377	93.99186038
ADV1014390	4/4/2025	3.661	4/4/2028	109.67498	106.9173461	104.2438497	101.6513811	99.13696901	96.69777305	94.33107659	92.03428049	89.80489702
ADV1014010	3/20/2025	4.058	7/11/2028	111.84263	108.7806084	105.8198922	102.9565677	100.1868983	97.50731237	94.91439454	92.40487832	89.97563852
ADV1014462	4/8/2025	4.035	4/8/2026	102.56672	101.8669869	101.1768215	100.4960249	99.82440699	99.16178276	98.50797213	97.86279982	97.22609516

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1013954	3/18/2025	4.214	5/18/2026	103.06777	102.256438	101.457908	100.6718808	99.89806381	99.13617369	98.38593573	97.6470836	96.91935909
ADV1015098	4/30/2025	3.629	4/30/2027	106.22472	104.4425826	102.6991045	100.9930978	99.32341968	97.68897432	96.08871047	94.5216191	92.98673124
ADV1014877	4/24/2025	4.048	4/19/2030	118.71809	113.6991645	108.9266738	104.3871119	100.0677953	95.95680404	92.04293138	88.31563673	84.76500214
ADV1013721	3/7/2025	4.125	3/10/2026	102.28785	101.6696203	101.058883	100.4554986	99.85933458	99.27026174	98.68815378	98.11288747	97.54434245
ADV1013770	3/18/2025	4.019	3/18/2027	106.29175	104.6304348	103.0033639	101.4095435	99.84801848	98.31787026	96.81821495	95.34820181	93.90701162
ADV1013776	3/18/2025	4.095	3/15/2030	118.593	113.6759965	108.9962788	104.5410688	100.2983509	96.25681953	92.40583269	88.73536957	85.23599061
ADV1014882	4/24/2025	4.424	8/25/2025	100.28926	100.2189772	100.1488004	100.0787313	100.0087695	99.93891501	99.86916741	99.79952651	99.72999205
ADV1013906	3/14/2025	4.05	9/14/2026	104.2875	103.1405465	102.0188897	100.9216957	99.84816947	98.79755006	97.76910892	96.7621481	95.7759987
ADV1014294	4/1/2025	4.009	9/17/2029	116.36526	112.0060353	107.8379446	103.851534	100.0378711	96.38851394	92.89548145	89.55122519	86.34860348
ADV1014862	4/24/2025	3.927	4/24/2028	110.61432	107.7872248	105.0477457	102.3925825	99.8185889	97.32275972	94.90222379	92.55423666	90.27617398
ADV1013579	3/3/2025	4.126	9/3/2026	104.17385	103.0591366	101.9683409	100.9006945	99.85546545	98.83195224	97.82948243	96.8474111	95.88511946
ADV1013757	3/17/2025	4.021	3/17/2028	110.44759	107.7290859	105.092287	102.5342242	100.0520556	97.64306219	95.30464111	93.03430009	90.82965179
ADV1014009	3/20/2025	4.041	4/11/2028	110.7821	107.9895074	105.2825127	102.65793	100.1127199	97.64397763	95.24892603	92.92490888	90.66938464
ADV1013965	3/18/2025	4.368	9/18/2025	100.54941	100.4108415	100.2726588	100.1348647	99.99745748	99.86043557	99.72379727	99.58754095	99.45166497
ADV1015081	4/30/2025	3.756	4/30/2027	106.32297	104.5421708	102.7999657	101.0951665	99.4266333	97.793273	96.19403693	94.6279185	93.09395103
ADV1014209	3/28/2025	4.023	3/29/2027	106.42202	104.7297466	103.0727631	101.45003	99.86054866	98.30335965	96.77754032	95.28220319	93.81649428
ADV1014822	4/23/2025	3.953	4/23/2027	106.59136	104.8277208	103.1019802	101.4129797	99.75960992	98.14080696	96.55554941	95.00285649	93.48178587
ADV1013726	3/7/2025	4.123	3/9/2026	102.27656	101.6611266	101.05311	100.4523807	99.858808	99.27226432	98.6926251	98.11976871	97.55357636
ADV1013760	3/17/2025	4.089	9/17/2029	116.69708	112.3308632	108.1560071	104.1630468	100.3430412	96.68754001	93.18855422	89.83852785	86.63031201
ADV1014249	3/31/2025	4.102	3/29/2030	118.76333	113.8033718	109.0843431	104.5931864	100.3176261	96.24611685	92.36779619	88.67243996	85.15042116
ADV1014535	4/11/2025	4.134	4/13/2026	102.63793	101.9247914	101.2215841	100.5281011	99.84414128	99.1695091	98.50401434	97.84747193	97.19970177
ADV1013644	3/4/2025	4.088	3/5/2029	114.57271	110.7981771	107.1708648	103.6841923	100.3319151	97.1081031	94.0071226	91.02361966	88.15250455
ADV1014964	4/28/2025	3.796	4/28/2028	110.29459	107.4606482	104.7148551	102.0538816	99.47455068	96.97382864	94.54881758	92.19674804	89.91497225
ADV1013593	3/3/2025	4.105	3/1/2030	118.50246	113.6266076	108.9844815	104.5635858	100.3521589	96.33912902	92.51406967	88.86715867	85.3891396
ADV1013576	3/3/2025	4.019	3/3/2027	106.23804	104.6159759	103.0268424	101.4697079	99.94367189	98.44786737	96.98145939	95.54364352	94.13364445
ADV1014129	3/26/2025	4.132	3/26/2026	102.49645	101.8328145	101.1777825	100.5311906	99.89287618	99.26268087	98.64045025	98.02603384	97.4192849
ADV1014365	4/3/2025	4.112	4/3/2031	122.169	116.0753092	110.3323108	104.91784	99.8112547	94.99332124	90.44611088	86.15290409	82.09810241
ADV1014378	4/3/2025	3.808	4/4/2028	110.07335	107.3102789	104.6314743	102.0338203	99.51434201	97.07019518	94.69865967	92.39713289	90.16312383
ADV1014363	4/3/2025	3.852	4/5/2027	106.2163	104.5064221	102.8325075	101.1934818	99.58831758	98.01602815	96.47566513	94.96631672	93.48710593
ADV1013769	3/17/2025	4.085	9/17/2029	116.68036	112.3144894	108.1399682	104.1473323	100.3276407	96.67244368	93.1737526	89.82401184	86.61607287
ADV1014437	4/7/2025	4.283	10/7/2025	100.73536	100.5433273	100.3520274	100.1614548	99.97160538	99.782475	99.59405952	99.40635483	99.21935688
ADV1015084	4/30/2025	3.699	4/30/2027	106.22224	104.4423571	102.7010521	100.9971366	99.32947103	97.69696289	96.09856388	94.53326781	93.0001084
ADV1014953	4/28/2025	3.812	4/28/2027	106.39991	104.6239944	102.8864783	101.1861776	99.52196108	97.89274404	96.29748563	94.73518665	93.20488739

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014147	3/27/2025	4.132	3/27/2026	102.50656	101.8401279	101.1823743	100.5331289	99.89222734	99.25950923	98.63481841	98.01800265	97.40891356
ADV1014388	4/4/2025	3.661	4/4/2028	109.67498	106.9173461	104.2438497	101.6513811	99.13696901	96.69777305	94.33107659	92.03428049	89.80489702
ADV1014240	3/31/2025	4.117	3/30/2029	114.94871	111.0979611	107.399585	103.8466684	100.4326556	97.15132646	93.99677743	90.96340298	88.04587872
ADV1014204	3/28/2025	3.947	3/29/2027	106.41433	104.7200495	103.0611346	101.4365422	99.84527084	98.28635831	96.75887942	95.26194426	93.79469652
ADV1014850	4/24/2025	4.21	1/13/2026	101.76273	101.2917645	100.8251043	100.3626908	99.90446598	99.4503731	99.0003563	98.5543608	98.11233276
ADV1013626	3/14/2025	4.024	9/14/2028	112.44801	109.1963103	106.0572577	103.0262794	100.0990214	97.27133346	94.53925726	91.89901684	89.34700872
ADV1014360	4/3/2025	3.842	4/3/2028	110.15464	107.3932931	104.7160765	102.1198871	99.60175725	97.15884981	94.78845106	92.48796446	90.25490472
ADV1014354	4/3/2025	3.769	4/3/2028	110.15383	107.3881904	104.7068989	102.1068416	99.58504065	97.13864898	94.76494374	92.46131974	90.22528346
ADV1013589	3/3/2025	4.374	9/3/2025	100.39098	100.2947507	100.1987031	100.102841	100.0071637	99.91167077	99.81636168	99.72123586	99.62629278
ADV1014119	3/26/2025	4.393	8/13/2025	100.16185	100.125222	100.0886358	100.0520935	100.0155951	99.9791405	99.94272967	99.9063625	99.87003889
ADV1013969	3/18/2025	4.227	3/18/2026	102.43163	101.7908417	101.1580852	100.5332146	99.91608272	99.30654621	98.70446515	98.10970305	97.52212677
ADV1014081	3/24/2025	4.114	3/24/2028	110.77339	108.03128	105.3719999	102.79252	100.2899437	97.86150014	95.504538	93.21651921	90.9950133
ADV1014615	4/15/2025	3.923	10/15/2026	104.47685	103.2430962	102.0385545	100.8621912	99.71302467	98.59011837	97.4925784	96.41955102	95.37022051
ADV1014395	4/4/2025	3.57	4/4/2028	109.62488	106.8636285	104.1867145	101.5910201	99.07356433	96.63149751	94.26209426	91.96274712	89.73096058
ADV1014400	4/4/2025	3.729	4/5/2027	106.00733	104.2992853	102.6271688	100.9899088	99.38647888	97.81589313	96.27720403	94.76950057	93.29190653
ADV1014368	4/3/2025	3.816	7/1/2027	107.10473	105.1456899	103.2325751	101.3640316	99.53875406	97.75548434	96.013009	94.31015759	92.6458008
ADV1014239	3/31/2025	4.064	3/31/2028	110.71741	107.9568466	105.2801209	102.6841506	100.1659874	97.72281162	95.35192632	93.0507504	90.81681296
ADV1014639	4/16/2025	3.954	4/14/2028	110.57846	107.7801683	105.0678834	102.4383968	99.88864616	97.41570527	95.01677689	92.68918599	90.43037341
ADV1015075	4/30/2025	3.706	4/30/2027	106.23461	104.4546149	102.7131994	101.0091753	99.34140324	97.70879045	96.11028864	94.54489158	93.01163294
ADV1014318	4/2/2025	4.165	4/2/2026	102.5471	101.8646129	101.1912166	100.526732	99.87098286	99.22379768	98.58500938	97.95445518	97.33197651
ADV1013928	3/17/2025	4.092	3/17/2028	110.63642	107.9153842	105.276112	102.7156323	100.2311018	97.81979944	95.47912096	93.20657247	90.99976511
ADV1014389	4/4/2025	3.661	4/4/2028	109.67498	106.9173461	104.2438497	101.6513811	99.13696901	96.69777305	94.33107659	92.03428049	89.80489702
ADV1014036	3/21/2025	4.005	3/21/2028	110.44883	107.7193286	105.0721161	102.5041912	100.0126824	97.59484297	95.24804391	92.96976839	90.75760594
ADV1014380	4/3/2025	3.876	4/4/2030	117.75838	112.8049101	108.09309	103.6097774	99.34261692	95.27999121	91.41097244	87.72527727	84.21322516
ADV1013786	3/10/2025	4.395	3/1/2035	126.73572	119.0447068	111.9717356	105.4608382	99.46152549	93.92821842	88.81974007	84.09886307	79.73190613
ADV1014043	3/21/2025	4.043	9/12/2028	112.48464	109.2380727	106.1038037	103.0772895	100.1541959	97.3303903	94.60193163	91.96505968	89.41618578
ADV1013759	3/17/2025	4.076	3/19/2029	114.67897	110.8636627	107.1983935	103.6763992	100.2912641	97.03689852	93.90752041	90.89763748	88.00203101
ADV1014401	4/4/2025	3.693	4/4/2028	109.7617	107.0028825	104.3282306	101.7346332	99.21911823	96.77884453	94.41109468	92.11326877	89.88287837
ADV1014218	3/31/2025	4.03	3/30/2029	114.62627	110.7814618	107.0888559	103.5415418	100.1329701	96.85692669	93.70751363	90.67913084	87.76645916
ADV1013773	3/17/2025	4.096	3/15/2030	118.59767	113.6805635	109.0007417	104.5454313	100.3026166	96.26099161	92.40991437	88.7393639	85.23990052
ADV1014300	4/1/2025	3.979	5/3/2027	106.75479	104.9619536	103.2081094	101.4920647	99.81267711	98.16885076	96.55953348	94.98371469	93.44042332
ADV1014011	3/20/2025	4.06	8/8/2028	112.15154	109.0079092	105.9706066	103.035428	100.1983636	97.4555851	94.80343638	92.23842447	89.75721137
ADV1013886	3/14/2025	4.169	3/16/2026	102.3749	101.7398298	101.1126563	100.4932338	99.88141897	99.27707188	98.68005613	98.09023861	97.50748941

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014832	4/23/2025	4.141	4/23/2026	102.74364	102.0025535	101.2721768	100.5522783	99.84263343	99.143024	98.4532379	97.77306901	97.10231695
ADV1014342	4/3/2025	3.856	4/3/2028	110.19254	107.4306775	104.7529564	102.1562741	99.63766275	97.19428473	94.823426	92.52248974	90.2889903
ADV1013595	3/14/2025	4.07	3/14/2028	110.5448	107.8332313	105.2029629	102.6510477	100.1746652	97.771116	95.43781607	93.1722906	90.97216869
ADV1013597	3/14/2025	4.091	3/15/2027	106.37636	104.7224719	103.1025682	101.5156628	99.96081176	98.43710713	96.94367503	95.47967414	94.04429422
ADV1013670	3/7/2025	4.134	3/7/2030	118.6967	113.7996447	109.1379653	104.6990382	100.4709883	96.44263894	92.60346685	88.94356053	85.45358108
ADV1014914	4/25/2025	4.677	4/27/2037	142.86452	129.8060251	118.1452452	107.7220837	98.39569002	90.04204667	82.55187312	75.82880038	69.78778039
ADV1014774	4/22/2025	4.147	4/19/2030	119.19089	114.1608428	109.377623	104.8277137	100.4984144	96.37778925	92.4546163	88.71834058	85.15903047
ADV1015076	4/30/2025	3.797	4/30/2029	114.08287	110.1599783	106.3955643	102.7822858	99.3131884	95.98168231	92.78152082	89.70677998	86.75183966
ADV1014431	4/7/2025	3.672	4/7/2027	106.05293	104.3367665	102.6568181	101.0120056	99.40129049	97.82367556	96.27820258	94.76395041	93.28003322
ADV1013779	3/14/2025	4.017	7/31/2028	111.93415	108.8159819	105.802768	102.8903885	100.0749056	97.35255851	94.71975426	92.17305936	89.70919165
ADV1013758	3/17/2025	4.047	9/18/2028	112.56485	109.2999209	106.148389	103.1056441	100.1672911	97.32914084	94.58719911	91.93765599	89.37687623
ADV1013622	3/4/2025	4.008	3/4/2030	118.08178	113.2072031	108.5667585	104.147907	99.93884729	95.92847156	92.10632058	88.46254223	84.98785289
ADV1014848	4/24/2025	4.062	4/24/2030	117.28652	112.6627657	108.2630201	104.0750792	100.0874703	96.28940481	92.67073436	89.22190903	85.93393894
ADV1013761	3/18/2025	4.115	3/18/2026	102.36013	101.719599	101.0870977	100.4624799	99.84559862	99.2363105	98.63447565	98.03995764	97.45262334
ADV1013714	3/7/2025	3.924	3/8/2027	106.14133	104.5064751	102.9049913	101.3359271	99.7983635	98.29141603	96.81423318	95.36599486	93.94591088
ADV1015096	4/30/2025	3.629	4/30/2027	106.22472	104.4425826	102.6991045	100.9930978	99.32341968	97.68897432	96.08871047	94.5216191	92.98673124
ADV1013594	3/14/2025	4.091	3/15/2027	106.37636	104.7224719	103.1025682	101.5156628	99.96081176	98.43710713	96.94367503	95.47967414	94.04429422
ADV1013908	3/14/2025	4.115	3/16/2026	102.38496	101.7492916	101.1215389	100.5015517	99.88918608	99.28430189	98.68676227	98.09643374	97.51318603
ADV1014649	4/16/2025	4.403	8/27/2025	100.31073	100.234739	100.1588704	100.0831225	100.0074949	99.93198726	99.85659941	99.78133103	99.70618185
ADV1013577	3/3/2025	4.099	3/3/2027	106.25193	104.63169	103.0443211	101.4888858	99.96448627	98.47025784	97.00536787	95.56901409	94.16042322
ADV1013673	3/5/2025	4.165	3/5/2030	118.82101	113.9266917	109.2673534	104.8304051	100.6040033	96.5770002	92.73889939	89.07981373	85.59042672
ADV1013970	3/18/2025	4.123	3/18/2027	106.4632	104.8004228	103.1719159	101.576685	100.0137745	98.4822648	96.9812716	95.50994346	94.06746055
ADV1014410	4/4/2025	3.73	4/4/2029	113.8437	109.9920254	106.2936312	102.7415249	99.32908088	96.05001455	92.89836253	89.86846413	86.95494402
ADV1015022	4/29/2025	3.747	10/29/2027	108.23411	105.9338132	103.6942532	101.5133673	99.38918539	97.31982089	95.30346644	93.33838976	91.42292981
ADV1013751	3/10/2025	4.046	3/10/2026	102.28158	101.6628205	101.0515592	100.4476645	99.85100349	99.26144641	98.67886669	98.10314072	97.53414781
ADV1014371	4/3/2025	3.805	4/3/2028	110.05448	107.2944914	104.6186082	102.0237213	99.50686414	97.0652004	94.69601726	92.39671909	90.16482137
ADV1013762	3/18/2025	4.021	3/18/2027	106.29505	104.6337038	103.0066053	101.4127577	99.8512061	98.32103169	96.82135065	95.35131223	93.91009718
ADV1014915	4/25/2025	4.745	4/26/2038	145.7012	131.5205215	118.964431	107.8338704	97.95532429	89.17741677	81.36797426	74.41149233	68.20694836
ADV1013718	3/7/2025	4.215	1/7/2026	101.7076	101.2513533	100.7991265	100.3508644	99.90651503	99.46602718	99.02935066	98.59643611	98.16723502
ADV1013632	3/18/2025	4.037	9/18/2029	116.49044	112.1256292	107.9522765	103.9609023	100.1425552	96.48877567	92.99156618	89.64336306	86.43701043
ADV1014143	3/27/2025	4.047	9/28/2026	104.43663	103.2501053	102.0906033	100.9572058	99.84903754	98.76526211	97.7050797	96.66772515	95.65246607
ADV1013933	3/17/2025	4.166	8/31/2029	116.8307	112.5105161	108.3778712	104.4235747	100.6389427	97.01576368	93.54626903	90.22310721	87.0393187
ADV1014008	3/20/2025	4.041	4/11/2028	110.7821	107.9895074	105.2825127	102.65793	100.1127199	97.64397763	95.24892603	92.92490888	90.66938464

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014752	4/21/2025	4.423	8/21/2025	100.24607	100.187027	100.1280728	100.0692025	100.010416	99.95171309	99.89309356	99.83455723	99.77610394
ADV1014491	4/9/2025	3.958	4/17/2028	110.62395	107.8165719	105.0956863	102.4580632	99.90061493	97.42039132	95.0145728	92.68046331	90.41548393
ADV1015017	4/29/2025	4.2	4/29/2032	125.72506	118.4231547	111.6091683	105.2476515	99.30592134	93.75383144	88.56356167	83.70942619	79.1676984
ADV1014921	4/25/2025	3.873	4/26/2028	110.48689	107.655916	104.9128343	102.2543306	99.67724272	97.17855112	94.7553709	92.40494485	90.12463662
ADV1014151	3/27/2025	4.117	4/5/2028	110.91875	108.1412915	105.4485213	102.8373099	100.3046661	97.84773033	95.46376772	93.15016174	90.90440812
ADV1014441	4/7/2025	4.254	10/7/2025	100.72977	100.5377637	100.3464913	100.1559462	99.96612422	99.77702113	99.58863283	99.40095523	99.21398425
ADV1014264	3/31/2025	3.924	3/31/2027	106.39816	104.6985942	103.0345771	101.4050602	99.80903447	98.24553013	96.71361505	95.21239269	93.74100048
ADV1014830	4/23/2025	3.962	4/23/2027	106.60709	104.8433108	103.1174311	101.4282939	99.77479002	98.15585529	96.5704683	95.01764819	93.4964526
ADV1014281	4/1/2025	4.073	4/2/2029	114.823	110.9661753	107.2622758	103.7043494	100.2858041	97.00038593	93.84216003	90.80549174	87.88502968
ADV1014163	3/31/2025	4.207	3/29/2030	119.2582	114.2867361	109.55661	105.0547463	100.7688523	96.6873664	92.79941086	89.09474691	85.56373372
ADV1014534	4/11/2025	4.136	4/13/2026	102.63935	101.9262071	101.2229943	100.5295058	99.84554048	99.17090291	98.5054028	97.84885509	97.20107968
ADV1014901	4/25/2025	3.911	4/26/2027	106.55203	104.7803429	103.0468598	101.3504138	99.68988221	98.06418831	96.47229872	94.91322131	93.38600305
ADV1014208	3/28/2025	4.046	9/28/2026	104.35245	103.1677076	102.0099272	100.8781961	99.7716414	98.68942898	97.63076113	96.59487468	95.58103919
ADV1014317	4/2/2025	4.027	4/3/2028	110.65548	107.8873015	105.203418	102.6007158	100.0762228	97.6270969	95.25062002	92.94419135	90.70532143
ADV1015015	4/29/2025	3.904	4/29/2030	118.12593	113.0923524	108.3073722	103.7572952	99.42926001	95.31118421	91.39171234	87.66016783	84.10650823
ADV1014471	4/8/2025	3.91	4/9/2029	114.29086	110.4238828	106.7110196	103.145231	99.71984197	96.42852229	93.26526597	90.22437274	87.30043033
ADV1014575	4/14/2025	4.214	7/30/2030	120.52064	115.1711732	110.097891	105.2850116	100.7177421	96.38220741	92.26538838	88.35506471	84.63976172
ADV1014776	4/22/2025	4.075	4/22/2026	102.68529	101.9471811	101.2197001	100.5026197	99.79571773	99.09877824	98.41159142	97.7339533	97.06566557
ADV1015059	4/30/2025	3.646	4/28/2028	110.07997	107.2445543	104.4974482	101.8353117	99.25495909	96.75334823	94.32757336	91.97485765	89.69254638
ADV1013625	3/4/2025	4.136	3/4/2026	102.2346	101.6330761	101.0386355	100.4511563	99.87051673	99.29659757	98.72928255	98.16845802	97.61401294
ADV1014833	4/23/2025	3.966	4/23/2027	106.61408	104.8502397	103.1242982	101.4351002	99.78153673	98.16254343	96.57709891	95.02422228	93.50297114
ADV1014379	4/3/2025	3.852	4/4/2029	114.02239	110.1746357	106.4797962	102.9309054	99.52136035	96.24489741	93.09557291	90.06774452	87.15605405
ADV1015044	4/30/2025	3.876	4/29/2030	117.99157	112.9611695	108.1792536	103.6321316	99.30694687	95.19162155	91.27480456	87.54582346	83.99463972
ADV1013930	3/17/2025	4.029	3/17/2027	106.41439	104.7527307	103.1253167	101.5311535	99.96928661	98.43879791	96.93880409	95.46845487	94.02693146
ADV1014366	4/3/2025	3.84	4/5/2027	106.19591	104.4862136	102.8124745	101.173621	99.568626	97.99650279	96.45630307	94.94711514	93.46806208
ADV1014296	4/1/2025	4.111	4/1/2026	102.50061	101.8210586	101.1505187	100.4888163	99.83577729	99.19123235	98.55501645	97.92696883	97.30693283
ADV1014647	4/16/2025	3.9	4/17/2028	110.46367	107.6584661	104.9397094	102.3041657	99.74874877	97.2705101	94.86663148	92.53441823	90.27129277
ADV1014154	3/27/2025	4.111	3/29/2027	106.5699	104.8763417	103.2181005	101.5941321	100.0034373	98.44505605	96.91806511	95.42157647	93.9547356
ADV1014924	4/25/2025	3.886	7/26/2028	111.48335	108.3856651	105.3918561	102.4978602	99.69979556	96.99395404	94.37679229	91.84492348	89.39510943
ADV1013627	3/14/2025	4.038	9/14/2029	116.45235	112.0998006	107.937754	103.9568045	100.1480633	96.50312912	93.01405829	89.67333701	86.47385568
ADV1014853	4/24/2025	3.914	10/15/2027	108.46105	106.1963151	103.9905693	101.8418424	99.74824802	97.70797836	95.71930024	93.78055122	91.89013608
ADV1014883	4/24/2025	4.095	4/24/2026	102.71986	101.9761181	101.2431591	100.5207534	99.80867372	99.10669969	98.41461701	97.73221741	97.05929844
ADV1014432	4/7/2025	3.684	4/7/2028	109.96556	107.1911582	104.501673	101.8939597	99.36500934	96.91194577	94.53201888	92.22259791	89.98116536

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1015089	4/30/2025	4.384	9/24/2025	100.60977	100.4549399	100.3005915	100.1467205	99.99332477	99.84040206	99.68795016	99.53596689	99.38445008
ADV1014773	4/22/2025	4.146	4/12/2030	119.1146	114.1064588	109.3432203	104.8115158	100.4987858	96.39322423	92.48372848	88.7598532	85.21176766
ADV1014045	3/21/2025	4.051	11/14/2028	113.20348	109.768729	106.4580838	103.2663492	100.1885778	97.22005823	94.35630279	91.59303491	88.92617806
240308A00010	5/22/2025	3.88	6/24/2026	103.16913	102.2554532	101.3579851	100.4762944	99.60996733	98.75860439	97.92181989	97.09924131	96.29050872
240503A00030	5/22/2025	4.46	7/17/2026	103.96851	102.9873831	102.0248388	101.0803504	100.1534123	99.24353773	98.35025781	97.47312069	96.61169083
240508A00008	5/8/2025	4.42	5/10/2027	107.62027	105.8003939	104.0204142	102.2791348	100.5754086	98.9081331	97.27624836	95.6787348	94.11461132
ADV1014350	5/19/2025	3.87	5/21/2029	114.57408	110.5838785	106.7569141	103.0856195	99.56282317	96.18172367	92.93586838	89.8191336	86.82570587
ADV1014357	5/19/2025	3.916	5/17/2030	118.34931	113.260437	108.4251155	103.8293239	99.45989472	95.3044554	91.35137522	87.58971709	84.00919235
ADV1014348	5/2/2025	3.91	5/2/2030	118.18615	113.1428384	108.3489691	103.7907869	99.45537606	95.33060299	91.40506434	87.66803853	84.10944095
ADV1014355	5/2/2025	3.88	5/2/2029	114.42161	110.4868847	106.7112453	103.0873273	99.60814993	96.26709798	93.0579	89.9746081	87.01157908
ADV1014352	5/19/2025	3.823	5/19/2028	110.58937	107.6935541	104.8893677	102.1733778	99.54230391	96.99300805	94.52248782	92.12786955	89.80640194
ADV1014571	6/2/2025	3.994	6/1/2028	111.2174	108.2768776	105.4303362	102.6742717	100.0053323	97.42030837	94.916126	92.48984026	90.13862918
ADV1014345	5/2/2025	3.831	5/2/2028	110.43762	107.5906085	104.8324321	102.1597353	99.56931411	97.05810874	94.62319615	92.26178257	89.97119684
ADV1013790	6/5/2025	4.53	6/5/2036	139.41207	127.4116523	116.6141745	106.8906036	98.12644581	90.22003539	83.08103546	76.62912127	70.79282227
ADV1014359	5/19/2025	3.916	5/17/2030	118.34931	113.260437	108.4251155	103.8293239	99.45989472	95.3044554	91.35137522	87.58971709	84.00919235
ADV1014573	6/2/2025	3.994	6/1/2028	111.2174	108.2768776	105.4303362	102.6742717	100.0053323	97.42030837	94.916126	92.48984026	90.13862918
ADV1013783	5/1/2025	3.979	5/1/2028	110.83984	107.9899429	105.2288602	102.5532314	99.9598526	97.4456645	95.00774464	92.64330012	90.34966075
ADV1014244	6/20/2025	4.285	6/20/2031	123.81258	117.451481	111.4680446	105.8377628	100.5378455	95.54708816	90.8457536	86.41546321	82.23909698
ADV1014356	5/19/2025	3.874	5/21/2029	114.58948	110.5989863	106.7717363	103.1001645	99.57709929	96.19573878	92.9496301	89.83264925	86.83898253
ADV1014347	5/2/2025	3.876	5/2/2029	114.40642	110.4719771	106.6966159	103.0729678	99.59405237	96.25325477	93.0443038	89.96125184	86.99845595
ADV1013780	5/1/2025	4.084	5/1/2030	119.01361	113.9534968	109.1432664	104.5691521	100.2182244	96.07833691	92.13807387	88.38670214	84.814126
ADV1014567	6/2/2025	4.172	5/31/2030	119.73022	114.5693737	109.6670149	105.0088266	100.5813567	96.3719618	92.36875422	88.56055329	84.93683982
ADV1014353	5/2/2025	3.914	5/2/2030	118.20538	113.1616142	108.3673057	103.8087	99.47288058	95.34771334	91.42179424	87.68440111	84.12544877
ADV1014568	6/2/2025	4.172	5/31/2030	119.73022	114.5693737	109.6670149	105.0088266	100.5813567	96.3719618	92.36875422	88.56055329	84.93683982
ADV1013781	5/1/2025	3.979	5/1/2028	110.83984	107.9899429	105.2288602	102.5532314	99.9598526	97.4456645	95.00774464	92.64330012	90.34966075
ADV1014349	5/2/2025	3.834	5/3/2027	106.49675	104.7062524	102.9547028	101.2409105	99.56373435	97.92207966	96.31489535	94.7411719	93.19993927
ADV1014569	6/2/2025	3.994	6/1/2028	111.2174	108.2768776	105.4303362	102.6742717	100.0053323	97.42030837	94.916126	92.48984026	90.13862918
ADV1014572	6/2/2025	3.994	6/1/2028	111.2174	108.2768776	105.4303362	102.6742717	100.0053323	97.42030837	94.916126	92.48984026	90.13862918
ADV1013784	5/1/2025	3.985	5/1/2028	110.85655	108.0064184	105.2451073	102.5692555	99.97565892	97.46125807	95.02313036	92.65848272	90.36464483
ADV1017447	7/21/2025	4.539	9/22/2025	100.59802	100.4502691	100.3029627	100.1560986	100.0096748	99.86368922	99.71813998	99.57302505	99.42834248
ADV1016245	7/1/2025	4.108	7/1/2030	119.71979	114.4704488	109.4883593	104.758477	100.2666824	95.99971858	91.945134	88.09122975	84.42701006
ADV1015450	5/13/2025	4.148	1/15/2027	105.74717	104.2665296	102.8142261	101.3895182	99.99168757	98.62004033	97.27390599	95.95263652	94.65560534
ADV1015630	5/19/2025	4.478	8/19/2025	100.22268	100.1694516	100.1162926	100.0632063	100.0101925	99.95725127	99.90438228	99.85158542	99.79886055

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016190	6/4/2025	4.48	6/6/2033	130.96821	122.3535061	114.3934555	107.03439	100.2273145	93.92747771	88.09398414	82.68944359	77.6796541
ADV1016844	6/27/2025	3.926	12/28/2026	105.21863	103.7905594	102.3889629	101.0131677	99.66252297	98.33639925	97.03418768	95.75529911	94.49916329
ADV1016660	6/23/2025	3.991	12/23/2026	105.25537	103.840519	102.4516829	101.0882012	99.74943917	98.43478299	97.14363861	95.87543109	94.62960383
ADV1015729	5/21/2025	4.411	11/21/2025	101.25325	100.9345379	100.6178244	100.3030866	99.99030574	99.67946373	99.37054248	99.06352415	98.75839116
ADV1015141	5/1/2025	3.883	11/2/2026	104.53537	103.2537697	102.0029244	100.7817337	99.58914786	98.424166	97.28583368	96.17324013	95.08551571
ADV1015742	5/21/2025	4.452	9/17/2025	100.53992	100.4051773	100.2708093	100.1368125	100.0031854	99.8699263	99.73703373	99.60450613	99.47234195
ADV1016020	5/29/2025	4.043	6/29/2027	107.51845	105.5607773	103.648857	101.781345	99.95694444	98.17440498	96.4325207	94.7301283	93.06610521
ADV1015401	5/12/2025	4.486	8/12/2025	100.14665	100.1130268	100.0794396	100.0458918	100.0123835	99.97891439	99.94548456	99.91209388	99.8787423
ADV1016268	6/6/2025	4.466	9/8/2025	100.43989	100.3306956	100.2217448	100.1130408	100.0045826	99.89636938	99.78840035	99.68067461	99.57319129
ADV1017491	7/22/2025	4.223	6/22/2026	103.45996	102.550326	101.6567285	100.7787423	99.91596051	99.06798997	98.23445113	97.41497732	96.60921418
ADV1017736	7/31/2025	4.526	8/29/2025	100.32508	100.2444759	100.1640084	100.0836731	100.0034699	99.92339846	99.84345839	99.76364941	99.68397121
ADV1016243	7/1/2025	3.987	6/30/2028	111.5177	108.490687	105.5628919	102.7305192	99.98994387	97.3376988	94.77046733	92.28507573	89.87848617
ADV1016006	5/29/2025	4.023	8/30/2027	108.17613	106.0426373	103.9623901	101.933697	99.95493592	98.02454808	96.14103525	94.30295674	92.50892676
ADV1016572	6/18/2025	4.479	9/18/2025	100.55013	100.4130337	100.2763214	100.1399936	100.0040486	99.86848482	99.73330055	99.5984942	99.46406413
ADV1015235	5/6/2025	4.477	8/6/2025	100.081	100.0641836	100.0473848	100.030603	100.0138381	99.99709004	99.98035887	99.96364454	99.94694701
ADV1015607	5/16/2025	4.227	5/18/2026	103.07827	102.2668863	101.4683103	100.6822376	99.90837569	99.14644109	98.39615911	97.65726345	96.92949586
ADV1017243	7/11/2025	4.189	7/13/2026	103.66328	102.6947494	101.7443624	100.8116149	99.89601842	98.99710225	98.11441281	97.24751288	96.39598082
ADV1016861	6/27/2025	3.858	12/28/2026	105.22258	103.7928525	102.3896548	101.0123111	99.66016885	98.33259676	97.02898433	95.74874079	94.49129439
ADV1017055	7/3/2025	4.508	8/4/2025	100.04942	100.0382916	100.0271735	100.016066	100.0049691	99.99388274	99.98280694	99.97174168	99.96068692
ADV1016523	6/27/2025	3.998	6/27/2028	111.51303	108.4945092	105.5746609	102.7497283	100.0161146	97.37037975	94.80923238	92.32952253	89.92823483
ADV1015592	5/16/2025	4.047	5/16/2028	111.1914	108.2952699	105.4904819	102.7736156	100.1413976	97.59069763	95.11852145	92.72200388	90.39840236
ADV1017699	7/30/2025	4.239	7/30/2026	103.89948	102.8828267	101.8861114	100.9087531	99.95019153	99.0098876	98.08732281	97.18199809	96.29343297
ADV1016363	6/11/2025	4.03	12/13/2027	109.39318	106.9536853	104.5815426	102.2745223	100.030479	97.84735051	95.72315423	93.6559834	91.64400386
ADV1015879	5/27/2025	4.472	8/27/2025	100.30938	100.2337546	100.1582472	100.0828599	100.0075923	99.93244416	99.85741522	99.78250518	99.70771376
ADV1017726	7/31/2025	4.521	9/18/2025	100.54887	100.4124889	100.276492	100.1408776	100.005644	99.87078955	99.73631268	99.60221174	99.46848513
ADV1016674	6/23/2025	4.239	4/23/2026	102.81595	102.0745645	101.3438953	100.6237074	99.91377599	99.21388291	98.52381598	97.84336904	97.17234166
ADV1017647	7/29/2025	4.059	1/26/2027	105.73849	104.2282314	102.7474366	101.2953208	99.87112356	98.47411095	97.10357412	95.75882841	94.43921229
ADV1016835	6/27/2025	4.467	9/26/2025	100.63551	100.4761033	100.317208	100.1588183	100.0009316	99.84354572	99.68665816	99.53026658	99.37436864
ADV1016859	6/27/2025	3.825	12/27/2027	109.04772	106.5742104	104.1700074	101.8327758	99.56027775	97.35036342	95.20096712	93.11010347	91.07586374
ADV1017158	7/9/2025	4.501	9/9/2025	100.44948	100.3379253	100.2266256	100.1155848	100.0048018	99.89427581	99.78400588	99.67399106	99.56423044
ADV1016573	6/18/2025	4.479	9/18/2025	100.55013	100.4130337	100.2763214	100.1399936	100.0040486	99.86848482	99.73330055	99.5984942	99.46406413
ADV1016695	6/24/2025	3.904	6/26/2028	111.22599	108.2145372	105.3014765	102.4830617	99.75570889	97.11598995	94.56062496	92.08647482	89.69053443
ADV1016187	6/4/2025	4.008	6/4/2029	115.25593	111.2136116	107.3379981	103.6213389	100.0562882	96.63587718	93.3534932	90.20285935	87.17801586

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016758	6/25/2025	4.257	3/25/2026	102.52257	101.8621759	101.2103033	100.5667889	99.93147228	99.30419743	98.6848121	98.07316792	97.46912022
ADV1016370	6/13/2025	4.12	6/13/2030	119.60193	114.4068379	109.4737904	104.7881694	100.3362497	96.10513691	92.08271297	88.25758524	84.61903973
ADV1016016	5/29/2025	4.043	5/28/2027	107.14778	105.2832472	103.460508	101.6783726	99.93569122	98.23135413	96.56429032	94.93346572	93.33788169
ADV1015680	5/20/2025	4.141	11/24/2026	105.12695	103.7893098	102.4770361	101.1894305	99.92582335	98.68556947	97.46804686	96.27265568	95.09881726
ADV1017086	7/7/2025	4.501	9/8/2025	100.43865	100.3298589	100.2213157	100.1130183	100.0049658	99.89715742	99.78959228	99.68226952	99.57518829
ADV1016303	6/10/2025	4.187	6/10/2030	119.90219	114.7084392	109.7761524	105.090769	100.6386167	96.40684967	92.38339376	88.55689671	84.91668126
ADV1016748	6/25/2025	4.336	1/26/2026	101.95588	101.4507512	100.9505909	100.4553232	99.96487659	99.47918098	98.99816759	98.52176896	98.04991894
ADV1017284	7/14/2025	4.505	10/14/2025	100.84145	100.6318483	100.4231315	100.2152924	100.0083252	99.80222449	99.59698471	99.39260041	99.18906617
ADV1015859	5/27/2025	4.005	5/27/2027	107.19883	105.3341442	103.5112427	101.7289324	99.98605987	98.28151257	96.61421681	94.98313626	93.38727035
ADV1017400	7/17/2025	4.522	8/7/2025	100.08077	100.0613276	100.0419007	100.0224939	100.0031072	99.98374058	99.96439399	99.94506739	99.92576076
ADV1015394	5/12/2025	4.488	8/12/2025	100.14673	100.1130993	100.0795119	100.045964	100.0124555	99.97898621	99.94555621	99.91216537	99.87881361
ADV1015499	5/14/2025	4.48	8/14/2025	100.16823	100.1289994	100.0898192	100.0506872	100.0116034	99.97256749	99.93357954	99.8946394	99.855747
ADV1015732	5/21/2025	4.45	9/22/2025	100.59469	100.4458521	100.2974664	100.1495263	100.0020297	99.85497466	99.70835907	99.56218098	99.41643842
ADV1017654	7/29/2025	4.596	8/5/2025	100.05736	100.0434975	100.0296437	100.0158035	100.0019769	99.98816388	99.97436435	99.96057832	99.94680578
ADV1016205	6/4/2025	4.058	12/4/2026	105.13579	103.7731278	102.4347144	101.1199557	99.82827769	98.5591245	97.31195763	96.08625539	94.88151215
ADV1016073	5/30/2025	4.033	11/16/2026	104.97983	103.6606987	102.3689518	101.1037397	99.86424958	98.64970188	97.4593488	96.29247269	95.14838442
ADV1016112	6/2/2025	3.955	6/2/2027	107.17848	105.2974981	103.4589896	101.6617468	99.90460534	98.18644085	96.5061676	94.86273683	93.25513524
ADV1017078	7/7/2025	4.503	9/8/2025	100.43887	100.3300768	100.2215332	100.1132354	100.0051826	99.89737385	99.78980834	99.6824852	99.5754036
ADV1017579	7/25/2025	4.426	12/26/2025	101.64583	101.2304749	100.818506	100.4098801	100.0045566	99.60249551	99.20365763	98.8080043	98.41549746
ADV1016864	6/27/2025	4.101	6/29/2026	103.42413	102.4954013	101.5833757	100.6876068	99.80766238	98.94312551	98.09359377	97.25867866	96.43800498
ADV1017615	7/28/2025	3.961	7/28/2028	111.73055	108.6236386	105.6210657	102.7187396	99.91275513	97.1993824	94.57505746	92.03637409	89.58007581
ADV1015404	5/12/2025	4.306	1/12/2026	101.79374	101.3263019	100.8631129	100.4041137	99.9492475	99.49845848	99.05169195	98.60889413	98.17001223
ADV1016437	6/13/2025	4.393	12/15/2025	101.51411	101.1280862	100.7449863	100.3647759	99.98742229	99.6128932	99.2411569	98.87218214	98.50593811
ADV1016242	7/1/2025	3.987	6/30/2028	111.5177	108.490687	105.5628919	102.7305192	99.98994387	97.3376988	94.77046733	92.28507573	89.87848617
ADV1017549	7/24/2025	4.54	8/25/2025	100.28241	100.2128879	100.143477	100.0741727	100.0049746	99.9358825	99.86689619	99.7980154	99.7292399
ADV1015293	5/7/2025	4.468	8/20/2025	100.23516	100.1790429	100.1230013	100.0670379	100.0111525	99.95534508	99.89961537	99.84396325	99.78838853
ADV1017262	7/14/2025	4.512	8/13/2025	100.14807	100.1119243	100.0758173	100.0397537	100.0037335	99.96775647	99.93182262	99.89593186	99.8600841
ADV1016693	6/24/2025	3.834	6/26/2028	111.23515	108.2186437	105.3008008	102.4778579	99.74621809	97.10244101	94.54323506	92.06545017	89.66607086
ADV1015886	5/27/2025	4.473	8/27/2025	100.30946	100.2338318	100.1583242	100.0829367	100.0076689	99.93252059	99.85749146	99.78258123	99.70778962
ADV1016886	6/30/2025	4.027	6/30/2026	103.43111	102.4986846	101.5830877	100.6838702	99.80059502	98.93284084	98.08020083	97.24228237	96.41870631
ADV1017326	7/15/2025	4.155	7/15/2026	103.71997	102.7446481	101.7877148	100.8486551	99.926971	99.02218261	98.13382768	97.26146069	96.40465212
ADV1017337	7/15/2025	4.237	7/14/2026	103.72008	102.7484794	101.795136	100.8595352	99.94118425	99.03960845	98.15435042	97.28496929	96.43103997
ADV1017500	7/22/2025	4.534	8/22/2025	100.24864	100.1874695	100.1263859	100.0653908	100.0044843	99.94366602	99.88293582	99.82229349	99.76173885

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1015205	5/5/2025	4.159	5/5/2026	102.88608	102.1113765	101.3483546	100.5967558	99.85632485	99.12681373	98.4079819	97.69959582	97.00142871
ADV1015990	5/29/2025	4.007	5/1/2028	110.8642	108.0226548	105.2710944	102.6061814	100.0247178	97.52364136	95.10001913	92.75104096	90.47401387
ADV1015577	5/16/2025	4.282	2/17/2026	102.1618	101.6018243	101.0480021	100.5002304	99.95841032	99.42244496	98.89223963	98.36770166	97.84874035
ADV1015333	5/8/2025	4.077	11/9/2026	104.86467	103.5642932	102.2929691	101.049719	99.83361136	98.64375583	97.479301	96.33943228	95.22336995
ADV1017529	7/23/2025	3.967	1/25/2027	105.69597	104.1869597	102.7073739	101.2564215	99.83334397	98.437409	97.0679095	95.72416244	94.40550783
ADV1017723	7/31/2025	4.521	9/18/2025	100.54887	100.4124889	100.276492	100.1408776	100.005644	99.87078955	99.73631268	99.60221174	99.46848513
ADV1015773	5/22/2025	4.095	9/22/2028	112.76178	109.4823295	106.3170726	103.2613503	100.3107248	97.46096715	94.70804574	92.04811566	89.47750879
ADV1015722	5/21/2025	4.092	5/21/2027	107.15907	105.3134596	103.5088761	101.7441235	100.0180541	98.32956235	96.67758253	95.06108736	93.47908611
ADV1015921	5/28/2025	4.051	1/26/2028	109.93181	107.3654752	104.8732748	102.4526343	100.1010852	97.81625941	95.59588482	93.43778066	91.33985325
ADV1017118	7/8/2025	3.939	7/8/2027	107.55969	105.5745043	103.63632	101.7437413	99.89541836	98.09005084	96.3263851	94.60321245	92.91936713
ADV1015448	5/13/2025	4.146	1/22/2027	105.82561	104.3254783	102.854411	101.4116378	99.99641325	98.60801788	97.24575661	95.90895793	94.59697285
ADV1017642	7/29/2025	4.132	7/29/2026	103.85149	102.8368227	101.8420217	100.8665078	99.90972344	98.97113248	98.05021905	97.14648666	96.25945724
ADV1016566	6/18/2025	4.019	6/18/2027	107.34677	105.4216485	103.5408823	101.7031886	99.90732694	98.15210088	96.43635574	94.75897706	93.11888885
ADV1016760	6/25/2025	3.877	9/25/2029	116.20622	111.8184077	107.6241021	103.6136746	99.77803472	96.10859422	92.59723637	89.23628711	86.0184882
ADV1017028	7/2/2025	3.976	1/4/2027	105.37174	103.9236595	102.5027575	101.1083339	99.73971277	98.3962406	97.07728556	95.78223652	94.51050222
ADV1016436	6/13/2025	4.056	12/14/2026	105.34442	103.9516565	102.5841334	101.2412208	99.92231099	98.62681571	97.35416563	96.10380941	94.87521309
ADV1015923	5/28/2025	4.048	3/29/2028	110.65204	107.8978455	105.227176	102.6369637	100.1242758	97.68630756	95.32037567	93.0239121	90.79445818
ADV1016757	6/25/2025	4.294	2/25/2026	102.25212	101.6697874	101.0940966	100.5249314	99.96218096	99.40573734	98.85549485	98.31135015	97.77320223
ADV1017657	7/29/2025	4.574	9/4/2025	100.39745	100.3001001	100.2029481	100.1059906	100.0092269	99.9126566	99.816279	99.72009352	99.62409957
ADV1016606	6/20/2025	4.481	9/22/2025	100.59448	100.4461751	100.2983195	100.150908	100.0039384	99.85740864	99.71131685	99.56566101	99.42043913
ADV1016076	5/30/2025	4.472	8/29/2025	100.33098	100.2497598	100.1686782	100.0877299	100.0069148	99.92623231	99.84568226	99.76526431	99.68497813
ADV1017342	7/15/2025	4.538	9/15/2025	100.52003	100.3917661	100.2638474	100.1362691	100.0090297	99.88212785	99.75556213	99.62933118	99.50343364
ADV1015622	5/19/2025	4.184	5/19/2026	103.11095	102.2959055	101.4937766	100.7042584	99.92705458	99.16187819	98.4084511	97.66650371	96.93577465
ADV1017543	7/24/2025	4.378	1/26/2026	101.97264	101.4691317	100.9705686	100.4768823	99.98800185	99.50385716	99.02437974	98.54950235	98.07915904
ADV1015257	7/1/2025	4.033	7/1/2030	119.34678	114.1065693	109.1332734	104.4118615	99.92822863	95.6691318	91.62213271	87.77554489	84.1183844
ADV1016690	6/24/2025	4.017	6/24/2030	119.19758	113.9808114	109.0288401	104.3268068	99.86076461	95.61761581	91.58505569	87.75152066	84.10613985
ADV1016250	6/5/2025	4.672	6/15/2035	138.49599	127.5070055	117.5329481	108.4732507	100.2378423	92.74600539	85.92536005	79.71096244	74.04450517
ADV1017079	7/7/2025	4.502	10/7/2025	100.76302	100.5729211	100.3835434	100.1948857	100.0069439	99.81971388	99.63319161	99.44737299	99.26225399
ADV1017532	7/23/2025	4.514	10/23/2025	100.94365	100.7089887	100.4754254	100.2429529	100.0115637	99.78125	99.5520044	99.32381941	99.09668764
ADV1017373	7/16/2025	4.533	8/18/2025	100.20469	100.1546262	100.1046252	100.0546912	100.004824	99.95502369	99.90528996	99.85562272	99.80602183
ADV1017122	7/8/2025	4.431	1/8/2026	101.79778	101.3445482	100.8953309	100.4500774	100.0087351	99.57125268	99.13757956	98.7076661	98.28146348
ADV1016560	6/18/2025	4.48	9/17/2025	100.53917	100.4048831	100.2709643	100.1374154	100.0042349	99.87142129	99.73897294	99.60688834	99.47516595
ADV1017434	7/18/2025	4.533	8/18/2025	100.20436	100.1543	100.1043115	100.05439	100.0045354	99.95474749	99.90502623	99.85537145	99.805783

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017589	7/25/2025	4.532	8/1/2025	100.01226	100.0094862	100.0067149	100.0039459	100.0011794	99.99841532	99.99565361	99.99289431	99.9901374
ADV1015716	5/21/2025	4.107	11/23/2026	105.1636	103.826582	102.5152321	101.2288306	99.96668835	98.72814155	97.51255081	96.31929995	95.14779498
ADV1015149	5/1/2025	4.498	8/1/2025	100.02669	100.0238884	100.0210877	100.0182894	100.0154936	100.0127002	100.0099092	100.0071206	100.0043345
ADV1016264	6/6/2025	4.316	3/6/2026	102.36346	101.755979	101.1557203	100.5625562	99.97636137	99.39701331	98.82439236	98.25838166	97.69886703
ADV1016856	6/27/2025	3.926	12/28/2026	105.21863	103.7905594	102.3889629	101.0131677	99.66252297	98.33639925	97.03418768	95.75529911	94.49916329
ADV1015259	5/6/2025	4.011	5/1/2030	118.66208	113.6102658	108.8080369	104.2416366	99.89814788	95.76543658	91.83209853	88.08741141	84.52128991
ADV1015513	5/14/2025	4.48	8/14/2025	100.16823	100.1289994	100.0898192	100.0506872	100.0116034	99.97256749	99.93357954	99.8946394	99.855747
ADV1016173	6/4/2025	3.966	6/4/2027	107.22216	105.3351298	103.4908252	101.6880264	99.92555913	98.20228955	96.51712289	94.86900177	93.25690468
ADV1016305	6/9/2025	4.397	11/10/2025	101.12285	100.8360878	100.5509457	100.2674136	99.98547793	99.70512506	99.42634164	99.14911443	98.87343036
ADV1017703	7/30/2025	4.569	8/6/2025	100.06814	100.0515018	100.0348782	100.0182715	100.0016815	99.9851082	99.96855159	99.95201165	99.93548833
ADV1017742	7/31/2025	4.518	8/14/2025	100.15659	100.1177411	100.0789363	100.0401794	100.00147	99.96280817	99.92419381	99.8856268	99.84710707
ADV1017759	7/31/2025	4.435	1/30/2026	102.04515	101.5305069	101.0210256	100.5166302	100.0172449	99.52279545	99.0332091	98.54841445	98.06834154
ADV1017203	7/10/2025	3.994	5/10/2027	106.85838	105.0455151	103.2724179	101.5378958	99.84080507	98.18004668	96.55456391	94.96334033	93.40539785
ADV1015602	5/16/2025	4.132	12/16/2026	105.37414	103.9773224	102.6058804	101.2591809	99.93661129	98.63757885	97.36150984	96.10784874	94.87605753
ADV1016023	5/29/2025	4.018	10/29/2027	108.84962	106.5422282	104.2957142	102.1080184	99.97716643	97.90126759	95.87851063	93.90715949	91.98554954
ADV1016602	6/20/2025	3.899	6/20/2028	111.3611	108.3597639	105.4560631	102.6462963	99.92692183	97.29455126	94.74594195	92.27798992	89.88772309
ADV1016688	6/24/2025	3.925	10/24/2028	112.55886	109.1938417	105.948669	102.818336	99.79807918	96.88336522	94.06987825	91.35350773	88.73033722
ADV1017598	7/28/2025	4.571	8/28/2025	100.31788	100.2400316	100.162312	100.0847181	100.0072496	99.92990618	99.85268755	99.77559343	99.69862351
ADV1017246	7/11/2025	4.511	8/6/2025	100.07042	100.0537355	100.0370726	100.0204266	100.0037973	99.98718476	99.97058896	99.95400985	99.93744741
ADV1017594	7/28/2025	4.57	8/26/2025	100.29515	100.2228743	100.1507165	100.0786714	100.0067387	99.93491816	99.86320959	99.79161268	99.72012718
ADV1015501	5/14/2025	4.215	11/16/2026	105.12812	103.8093838	102.5179939	101.2530998	100.0138906	98.79958869	97.60944796	96.44275245	95.29881463
ADV1015920	5/28/2025	4.122	2/24/2027	106.19891	104.5992646	103.0318392	101.4957262	99.99005415	98.51398405	97.06670724	95.64744422	94.25544336
ADV1015733	5/21/2025	4.45	9/22/2025	100.59469	100.4458521	100.2974664	100.1495263	100.0020297	99.85497466	99.70835907	99.56218098	99.41643842
ADV1016797	6/26/2025	3.929	12/28/2026	105.22306	103.794958	102.3933308	101.0175054	99.66683088	98.34067781	97.03843731	95.75952021	94.50335627
ADV1016812	6/26/2025	4.483	8/26/2025	100.29417	100.2216197	100.1491804	100.0768543	100.004641	99.9325404	99.86055213	99.78867596	99.71691164
ADV1017235	7/11/2025	3.927	7/12/2027	107.57996	105.5836904	103.6349383	101.7322833	99.87435376	98.05982829	96.28743341	94.55594151	92.86416885
ADV1017190	7/10/2025	4.504	10/10/2025	100.79676	100.5983015	100.4006335	100.2037522	100.0076528	99.81233068	99.61778105	99.42399932	99.23098087
ADV1017662	7/30/2025	3.999	7/29/2030	119.42292	114.1034565	109.0588652	104.2734435	99.73246557	95.42211888	91.32944309	87.44227298	83.74918554
ADV1015739	5/21/2025	4.182	11/23/2026	105.16923	103.8336522	102.5236923	101.238633	99.97778674	98.74049153	97.52610962	96.33402638	95.16364928
ADV1016754	6/25/2025	4.454	10/29/2025	101.00082	100.7484502	100.4973368	100.247468	99.99883474	99.7514278	99.50523815	99.26025684	99.01647501
ADV1015209	5/5/2025	4.156	5/5/2026	102.88377	102.1090709	101.3460587	100.5944696	99.85404814	99.12454644	98.40572395	97.69734709	96.99918912
ADV1017275	7/14/2025	4.065	1/15/2027	105.62442	104.1447131	102.6933323	101.2695314	99.87259222	98.50182145	97.15654899	95.83612717	94.53992979
ADV1015967	5/29/2025	4.478	8/28/2025	100.32058	100.2421582	100.1638671	100.0857025	100.0076643	99.92975203	99.85196551	99.77430442	99.69676844

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016890	6/30/2025	3.814	1/12/2028	109.18842	106.6696579	104.2226505	101.8449465	99.53419	97.28811963	95.10456415	92.98143824	90.91673859
ADV1016651	6/23/2025	3.956	6/25/2029	115.27319	111.1705847	107.2395268	103.4719329	99.86014479	96.3969032	93.07532481	89.88888077	86.83137661
ADV1016051	5/30/2025	4.151	10/30/2026	104.83652	103.5603532	102.3153428	101.1003585	99.91432247	98.75620788	97.62503595	96.51987323	95.43982897
ADV1016402	6/12/2025	4.293	3/12/2026	102.41165	101.7874577	101.1708932	100.5618169	99.96009279	99.36558794	98.77817271	98.19772056	97.62410792
ADV1015461	5/15/2025	4.208	5/15/2030	119.74594	114.6292847	109.7668615	105.1446281	100.7493985	96.56878278	92.59113366	88.80549841	85.20157342
ADV1015283	5/7/2025	3.886	5/8/2028	110.65374	107.7872178	105.0105678	102.3204051	99.71349735	97.18675602	94.73722891	92.36209299	90.05864776
ADV1015800	5/23/2025	3.993	5/24/2027	107.14279	105.2868159	103.4722825	101.6979971	99.96280746	98.26560307	96.6053129	94.98090384	93.39137901
ADV1016515	6/17/2025	4.38	6/13/2031	124.31739	117.9616667	111.9818921	106.3537575	101.0546461	96.06350945	91.36075087	86.92811845	82.7486062
ADV1016003	5/29/2025	4.704	7/13/2035	139.01597	127.9255592	117.8660246	108.7345311	100.4390519	92.89718234	86.0350869	79.78656646	74.09223155
ADV1016240	7/1/2025	3.987	6/30/2028	111.5177	108.490687	105.5628919	102.7305192	99.98994387	97.3376988	94.77046733	92.28507573	89.87848617
ADV1015254	5/6/2025	3.881	5/1/2028	110.56618	107.7201062	104.9627516	102.2907619	99.70093593	97.19021721	94.7556859	92.39455163	90.10414663
ADV1016938	6/30/2025	3.748	12/29/2028	112.90021	109.3388704	105.9107239	102.610077	99.43151314	96.36987492	93.42025056	90.57796066	87.838546
ADV1015986	5/29/2025	4.41	11/28/2025	101.3303	100.9919845	100.6559054	100.3220398	99.99036587	99.66086209	99.33350727	99.00828045	98.68516097
ADV1016702	6/24/2025	4.367	12/24/2025	101.60365	101.1925654	100.7847884	100.3802791	99.97899838	99.58090767	99.18596898	98.79414496	98.40539881
ADV1015561	5/15/2025	4.166	4/15/2030	119.24154	114.2217967	109.4478623	104.9062995	100.584485	96.47055395	92.55334953	88.82237657	85.26775835
ADV1015633	5/19/2025	4.236	5/19/2026	103.0963	102.2820873	101.4807632	100.6920266	99.91558204	99.15114328	98.39843295	97.65718216	96.92713019
ADV1015719	5/21/2025	4.449	9/22/2025	100.59454	100.4457029	100.2973178	100.1493782	100.0018821	99.85482749	99.7082124	99.56203481	99.41629274
ADV1017259	7/14/2025	4.513	8/12/2025	100.13694	100.1035784	100.0702512	100.0369631	100.0037141	99.97050403	99.93733295	99.90420072	99.87110728
ADV1017508	7/22/2025	4.522	8/5/2025	100.05753	100.0436507	100.029785	100.0159328	100.0020943	99.98826927	99.97445782	99.96065988	99.94687543
ADV1017599	7/28/2025	4.571	8/28/2025	100.31788	100.2400316	100.162312	100.0847181	100.0072496	99.92990618	99.85268755	99.77559343	99.69862351
ADV1017153	7/9/2025	4.236	5/12/2026	103.02107	102.2264861	101.4441876	100.6738923	99.91532488	99.16821859	98.43231461	97.70736187	96.99311681
ADV1017595	7/28/2025	4.57	8/26/2025	100.29515	100.2228743	100.1507165	100.0786714	100.0067387	99.93491816	99.86320959	99.79161268	99.72012718
ADV1015267	5/6/2025	4.295	5/1/2035	120.36231	114.7024262	109.4210552	104.4885071	99.87767814	95.56380742	91.52425702	87.73831447	84.18701486
ADV1016015	5/29/2025	4.251	5/29/2026	103.21657	102.3742734	101.5457449	100.7306506	99.92866537	99.13947445	98.36277322	97.59826662	96.84566881
ADV1017752	7/31/2025	4.525	8/29/2025	100.325	100.2443955	100.163928	100.0835928	100.0033897	99.92331826	99.84337825	99.76356934	99.6838912
ADV1017200	7/10/2025	4.177	7/10/2026	103.61852	102.6584796	101.7162779	100.7914168	99.88342008	98.99182879	98.11620055	97.25610873	96.41114185
ADV1015595	5/16/2025	4.191	8/17/2026	104.05369	102.9865207	101.9413037	100.9173671	99.91406467	98.93077629	97.96690644	97.02188303	96.09515629
ADV1016308	6/9/2025	4.469	9/9/2025	100.45081	100.3388404	100.2271354	100.1156903	100.004504	99.89357561	99.7829042	99.67248883	99.56232859
ADV1016330	6/10/2025	4.468	9/10/2025	100.4616	100.3468401	100.2323557	100.1181444	100.0042051	99.89053686	99.7771386	99.66400934	99.55114811
ADV1017261	7/14/2025	4.512	8/14/2025	100.15924	100.1203033	100.0814162	100.0425768	100.0037852	99.96504125	99.92634484	99.8876959	99.84909433
ADV1017580	7/25/2025	4.208	7/27/2026	103.83553	102.8274804	101.8390483	100.8696657	99.91878513	98.98587989	98.07044317	97.17198703	96.29004159
ADV1016039	5/30/2025	4.474	8/29/2025	100.33114	100.249925	100.168843	100.0878944	100.0070788	99.92639592	99.84584547	99.76542711	99.68514053
ADV1017719	7/31/2025	4.524	9/5/2025	100.40349	100.3033817	100.2034845	100.1037942	100.0043101	99.9050316	99.80595797	99.70708857	99.60842277

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017382	7/16/2025	4.473	11/5/2025	101.08175	100.810285	100.540282	100.2717251	100.0046027	99.73890321	99.47461534	99.21172779	98.95022941
ADV1017693	7/30/2025	3.977	7/30/2027	107.732	105.6879723	103.6937115	101.7476881	99.84843383	97.99453504	96.18463081	94.4174104	92.69161099
ADV1016768	6/25/2025	3.988	12/28/2026	105.30739	103.8786648	102.4764213	101.0999901	99.74871986	98.42198102	97.1191644	95.83968056	94.58295901
ADV1017178	7/10/2025	4.502	8/11/2025	100.12611	100.0955146	100.0649518	100.034424	100.0039312	99.97347341	99.94305044	99.91266227	99.88230884
ADV1017425	7/18/2025	4.535	8/29/2025	100.32798	100.2472474	100.166648	100.0861811	100.0058464	99.92564372	99.84557263	99.76563286	99.68582407
ADV1016046	5/30/2025	4.425	10/30/2025	101.00859	100.752623	100.4979374	100.2445258	99.99237888	99.74148716	99.49184131	99.24343211	98.99625041
ADV1015883	5/28/2025	4.118	2/19/2030	118.44779	113.6036323	108.9905139	104.5961378	100.4089321	96.41799979	92.61307576	88.98448658	85.52311322
ADV1016873	6/27/2025	3.824	12/27/2029	116.90494	112.240644	107.7929186	103.5505602	99.50300329	95.64028011	91.952984	88.43223475	85.06964652
ADV1015871	5/27/2025	4.07	5/27/2027	107.18649	105.3242945	103.5037954	101.723796	99.98314661	98.28073789	96.61549948	94.98639816	93.39243631
ADV1016054	5/30/2025	3.973	5/28/2027	107.15089	105.2839432	103.4588826	101.6745161	99.92969014	98.22329176	96.55424667	94.92151774	93.32410341
ADV1017463	7/21/2025	4.541	9/22/2025	100.59831	100.4505636	100.3032567	100.156392	100.0099677	99.86398163	99.71843188	99.57331645	99.42863338
ADV1015546	5/15/2025	4.256	4/15/2026	102.7452	102.0261181	101.3171228	100.6180052	99.92855938	99.24858533	98.57788844	97.91627944	97.26357415
ADV1016219	6/5/2025	3.94	3/5/2027	106.13353	104.5068904	102.9133517	101.3519705	99.82183911	98.32208379	96.85186325	95.41036704	93.99681413
ADV1016644	6/23/2025	4.815	6/23/2039	150.41276	134.7665157	121.0476899	109.0024088	98.41174724	89.08674352	80.86414791	73.60279347	67.18049579
ADV1017336	7/15/2025	4.038	7/15/2027	107.69	105.6870903	103.7320027	101.8232958	99.95958524	98.13953753	96.3618676	94.62533682	92.92875102
ADV1016552	6/17/2025	4.289	4/17/2026	102.78975	102.0649864	101.3504654	100.6459732	99.95129924	99.26623892	98.5905933	97.92416892	97.26677755
ADV1016525	6/17/2025	4.479	9/17/2025	100.5392	100.4048945	100.2709595	100.1373946	100.004198	99.87136838	99.73890407	99.60680355	99.47506528
ADV1017196	7/10/2025	4.341	2/10/2026	102.11843	101.5713444	101.0300875	100.4945639	99.9646827	99.44035516	98.92149422	98.40801472	97.89983322
ADV1016867	6/27/2025	4.467	9/29/2025	100.66868	100.5008473	100.333569	100.1668443	100.0006706	99.83504508	99.66996509	99.50542796	99.34143103
ADV1016004	5/29/2025	4.695	5/15/2035	138.48171	127.578192	117.6739558	108.6706768	100.4802375	93.02361505	86.22989829	80.03541482	74.38295664
ADV1017148	7/9/2025	4.504	8/6/2025	100.07063	100.0539502	100.0372833	100.0206331	100.0039998	99.98738319	99.97078333	99.95420018	99.93763369
ADV1016918	6/30/2025	4.524	8/1/2025	100.01654	100.0137528	100.0109728	100.0081952	100.00542	100.0026472	99.99987684	99.99710888	99.99434332
ADV1015932	5/28/2025	4.284	5/28/2026	103.2333	102.3936792	101.5677398	100.7551508	99.95558992	99.16874546	98.39431547	97.63200751	96.88153827
ADV1016252	6/5/2025	4.103	12/7/2026	105.2316	103.8601591	102.5132481	101.1902659	99.89062906	98.61377234	97.35914847	96.12622728	94.91449505
ADV1015604	5/16/2025	4.108	2/16/2027	106.07606	104.5014733	102.958354	101.4458288	99.96305734	98.50922951	97.0835643	95.68530841	94.31373504
ADV1015851	5/27/2025	4.476	8/27/2025	100.30969	100.2340633	100.1585552	100.0831671	100.0078988	99.93274987	99.85772017	99.78280937	99.7080172
ADV1017454	7/21/2025	4.515	8/1/2025	100.0129	100.0101202	100.0073475	100.0045772	100.0018093	99.99904385	99.99628078	99.9935201	99.99076182
ADV1015596	5/16/2025	4.16	5/16/2030	119.52277	114.4086505	109.5488334	104.9292698	100.5367656	96.3589228	92.38408666	88.60129732	85.00024446
ADV1016185	6/4/2025	4.008	6/4/2029	115.25593	111.2136116	107.3379981	103.6213389	100.0562882	96.63587718	93.3534932	90.20285935	87.17801586
ADV1016014	5/29/2025	4.387	12/31/2025	101.69454	101.2621262	100.833339	100.4081372	99.98647602	99.56831153	99.15360044	98.7423002	98.33436896
ADV1017144	7/9/2025	4.505	8/4/2025	100.04836	100.037239	100.0261293	100.0150301	100.0039415	99.99286346	99.98179597	99.97073901	99.95969255
ADV1017757	7/31/2025	4.435	1/30/2026	102.04515	101.5305069	101.0210256	100.5166302	100.0172449	99.52279545	99.0332091	98.54841445	98.06834154
ADV1015781	5/22/2025	4.479	8/22/2025	100.25543	100.1938012	100.1322586	100.0708054	100.0094412	99.94816604	99.88697958	99.82588167	99.7648721

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016732	6/24/2025	3.886	10/24/2028	112.43127	109.0683353	105.8251933	102.6968373	99.67850568	96.76566681	93.95400657	91.23941607	88.61798041
ADV1016663	6/23/2025	3.993	12/23/2026	105.25819	103.8433241	102.4544675	101.0909656	99.75218377	98.43750808	97.14634451	95.87811812	94.63227229
ADV1016192	6/4/2025	4.65	6/4/2035	138.19705	127.2527644	117.3168146	108.2895402	100.0816588	92.61313581	85.81218176	79.61436373	73.96181615
ADV1016980	7/1/2025	4.042	7/1/2026	103.46021	102.5249003	101.6065272	100.7046323	99.81877492	98.94852957	98.09348591	97.25324783	96.42743287
ADV1016615	6/20/2025	4.482	9/22/2025	100.59463	100.4463233	100.2984674	100.1510554	100.0040854	99.85755533	99.71146317	99.56580695	99.4205847
ADV1017187	7/10/2025	4.22	6/10/2026	103.32607	102.4501752	101.5891677	100.7426683	99.91031188	99.09174562	98.28662831	97.49462995	96.71543126
ADV1015266	5/6/2025	3.883	5/1/2028	110.57175	107.7255977	104.968167	102.2961029	99.70620432	97.19541468	94.76081408	92.3996121	90.10914092
ADV1016340	6/10/2025	4.186	6/10/2030	119.89727	114.703643	109.7714708	105.0861978	100.6341521	96.40248767	92.37913079	88.55272927	84.91260604
ADV1017652	7/29/2025	4.06	1/29/2027	105.77417	104.2555173	102.766647	101.3067597	99.87508309	98.47087185	97.09340638	95.74199174	94.41595655
ADV1016791	6/26/2025	3.847	6/28/2027	107.12889	105.1778762	103.2724193	101.4111793	99.59286654	97.81623749	96.08009274	94.38327518	92.7246682
ADV1015497	5/14/2025	4.171	5/14/2030	117.68034	113.1326918	108.8050125	104.6852865	100.7622239	97.02521015	93.46426184	90.06998575	86.83354098
ADV1017408	7/17/2025	4.068	1/19/2027	105.67388	104.1829911	102.7208441	101.2866758	99.87975323	98.49936808	97.14483632	95.81549691	94.51071086
ADV1015786	5/22/2025	4.18	5/22/2026	103.14014	102.3166931	101.5064206	100.7090113	99.92416031	99.15157216	98.3909606	97.64204828	96.90456633
ADV1016218	6/5/2025	3.866	12/6/2027	109.09809	106.6777854	104.3239119	102.0342819	99.80679211	97.63942001	95.53022067	93.47732315	91.47892728
ADV1016439	6/13/2025	4.475	9/15/2025	100.51715	100.388394	100.2599843	100.1319161	100.0041882	99.87679913	99.74974749	99.62303191	99.49665101
ADV1017672	7/29/2025	4.519	10/29/2025	101.01178	100.7604193	100.5103049	100.2614303	100.0137862	99.76736351	99.52215331	99.27814665	99.03533469
ADV1017710	7/30/2025	4.522	10/30/2025	101.0237	100.7695533	100.51668	100.2650718	100.0147192	99.76561286	99.51774354	99.27110207	99.02567936
ADV1017384	7/16/2025	3.971	1/19/2027	105.63498	104.142674	102.6791563	101.2436696	99.83547875	98.45387376	97.09816877	95.76770108	94.46183012
ADV1017733	7/31/2025	4.526	8/29/2025	100.32508	100.2444759	100.1640084	100.0836731	100.0034699	99.92339846	99.84345839	99.76364941	99.68397121
ADV1015402	5/12/2025	4.486	8/12/2025	100.14665	100.1130268	100.0794396	100.0458918	100.0123835	99.97891439	99.94548456	99.91209388	99.8787423
ADV1016078	5/30/2025	4.146	8/31/2026	104.1587	103.0523442	101.9695387	100.9095407	99.87163437	98.85513376	97.85938097	96.88374485	95.92761964
ADV1017197	7/10/2025	4.305	3/10/2026	102.39818	101.7795493	101.1684112	100.5646296	99.96807204	99.37860909	98.79611448	98.2204649	97.65153996
ADV1015874	5/27/2025	4.125	5/28/2030	119.46789	114.3216132	109.4327907	104.7871708	100.3713616	96.1727766	92.17958255	88.3806501	84.76550867
ADV1016862	6/27/2025	4.031	6/29/2026	103.42437	102.4947314	101.5818279	100.68521	99.80444451	98.93911337	98.08881316	97.25315443	96.43176105
ADV1016709	6/24/2025	4.472	9/22/2025	100.59249	100.4442688	100.2964893	100.1491536	100.0022595	99.8558052	99.70978856	99.56420764	99.41906046
ADV1016845	6/27/2025	3.853	6/28/2027	107.14033	105.1891989	103.2836288	101.4222779	99.60385637	97.82712069	96.09087138	94.39395125	92.73524366
ADV1017696	7/30/2025	4.556	8/13/2025	100.14695	100.1108747	100.0748392	100.038847	100.0028981	99.96699238	99.93112972	99.89531005	99.85953329
ADV1016228	6/5/2025	4.493	8/5/2025	100.06511	100.0511524	100.0372056	100.0232725	100.0093531	99.99544733	99.98155515	99.96767657	99.95381157
ADV1015720	5/21/2025	4.41	11/21/2025	101.25293	100.9342236	100.6175117	100.3027754	99.98999618	99.67915572	99.37023601	99.06321922	98.75808775
ADV1016909	6/30/2025	4.514	8/29/2025	100.32928	100.24837	100.1675915	100.0869459	100.0064329	99.92605205	99.84580315	99.76568585	99.68569983
ADV1015715	5/21/2025	4.48	8/21/2025	100.2446	100.1857637	100.1270152	100.0683503	100.0097688	99.95127062	99.89285554	99.83452338	99.77627396
ADV1015606	5/16/2025	4.099	3/16/2027	106.40045	104.7436431	103.1209131	101.531273	99.97377495	98.44750714	96.95159222	95.48518558	94.04747379
ADV1016520	6/17/2025	4.498	8/1/2025	100.01866	100.0158683	100.0130839	100.0103018	100.0075222	100.004745	100.0019702	99.99919786	99.99642789

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016833	6/27/2025	4.41	12/3/2025	101.38247	101.0311504	100.6822463	100.3357367	99.991597	99.64980305	99.31033087	98.97315686	98.63825774
ADV1016222	6/5/2025	4.055	6/5/2030	119.20624	114.0436779	109.1405499	104.4824425	100.0558169	95.84795046	91.84688325	88.04136867	84.4208273
ADV1015581	5/16/2025	4.138	5/18/2026	103.06298	102.2509078	101.4516618	100.6649406	99.89045096	99.12790871	98.37703845	97.6375732	96.90925408
ADV1016659	6/23/2025	4.132	6/23/2026	103.38806	102.4760378	101.5801423	100.6999457	99.83503735	98.98502103	98.14951398	97.32814651	96.52056138
ADV1016049	5/30/2025	4.473	8/29/2025	100.33106	100.2498424	100.1687606	100.0878122	100.0069968	99.92631411	99.84576387	99.76534571	99.68505933
ADV1015258	7/1/2025	4.033	7/1/2030	119.34678	114.1065693	109.1332734	104.4118615	99.92822863	95.6691318	91.62213271	87.77554489	84.1183844
ADV1017763	7/31/2025	4.499	10/31/2025	101.029	100.7720842	100.516469	100.2621443	100.0091004	99.75732765	99.50681651	99.25755757	99.00954151
ADV1015992	5/29/2025	4.109	5/1/2030	118.29512	113.4466516	108.8368108	104.4524963	100.281392	96.31191842	92.533185	88.93494552	85.50755682
ADV1017015	7/2/2025	4.377	1/2/2026	101.70764	101.2712914	100.8386632	100.4097035	99.98436584	99.56260447	99.1443745	98.72963175	98.31833279
ADV1016522	6/27/2025	4.104	6/27/2030	119.65744	114.4208549	109.4503338	104.7309293	100.2486114	95.99020548	91.94333568	88.09637252	84.43838416
ADV1017669	7/29/2025	4.592	8/5/2025	100.05731	100.0434416	100.0295879	100.0157477	100.0019211	99.98810808	99.97430856	99.96052255	99.94675001
ADV1016182	6/4/2025	4.395	12/4/2025	101.39199	101.0368744	100.6842277	100.3340222	99.98623245	99.64083356	99.29780089	98.95711018	98.61873749
ADV1017053	7/3/2025	4.494	10/3/2025	100.71714	100.5381835	100.3598658	100.1821814	100.005127	99.82869907	99.65289443	99.47770972	99.30314166
ADV1016118	6/3/2025	4.124	4/25/2030	119.1449	114.0988172	109.3011231	104.7381723	100.3971468	96.26600309	92.33342024	88.58875242	85.02198453
ADV1016480	6/16/2025	4.481	9/16/2025	100.52853	100.3970191	100.265861	100.1350587	100.0046105	99.87451514	99.74477103	99.61537673	99.48633079
ADV1017754	7/31/2025	4.035	7/24/2030	119.55951	114.2504763	109.2150227	104.4375639	99.90347976	95.59905491	91.51141769	87.62848399	83.93890503
ADV1015609	5/16/2025	4.477	8/14/2025	100.16777	100.1285479	100.0893777	100.0502556	100.0111817	99.97215569	99.93317762	99.89424736	99.85536481
ADV1017216	7/10/2025	4.504	10/10/2025	100.79676	100.5983015	100.4006335	100.2037522	100.0076528	99.81233068	99.61778105	99.42399932	99.23098087
ADV1016019	5/29/2025	4.167	8/31/2026	104.18175	103.0752558	101.9923174	100.9321884	99.89415303	98.87752523	97.88164707	96.90588735	95.94964027
ADV1017429	7/18/2025	4.518	8/1/2025	100.01342	100.0106439	100.0078701	100.0050988	100.0023299	99.99956335	99.99679923	99.99403751	99.99127819
ADV1017721	7/31/2025	4.241	7/31/2026	103.91259	102.8931195	101.893694	100.9137275	99.95265552	99.00993482	98.08504301	97.17747732	96.28675371
ADV1017232	7/11/2025	4.505	8/11/2025	100.12604	100.0954428	100.0648837	100.0343597	100.0038706	99.97341651	99.94299725	99.91261279	99.88226306
ADV1016759	6/25/2025	4.224	4/22/2026	102.79436	102.0558218	101.3279194	100.6104215	99.90310601	99.20575688	98.51816423	97.84012405	97.17143797
ADV1017089	7/7/2025	4.2	7/7/2026	103.6077	102.6559936	101.7218162	100.8046838	99.9041323	99.01971437	98.15099865	97.29756906	96.4590241
ADV1015462	5/15/2025	4.1	10/25/2027	108.99229	106.6942017	104.4565143	102.277186	100.1542661	98.08588617	96.07025589	94.10565886	92.19044898
ADV1015263	7/1/2025	4.035	7/1/2030	119.35672	114.1162728	109.1427424	104.4211046	99.93725406	95.67794745	91.63074608	87.78396315	84.12661441
ADV1016341	6/10/2025	4.35	1/12/2026	101.80984	101.3438584	100.8821116	100.4245414	99.97109142	99.52170593	99.0763304	98.63491123	98.19739577
ADV1015383	5/9/2025	4.029	5/9/2030	119.18872	114.0908589	109.2460184	104.6402269	100.2603601	96.09408731	92.12981952	88.35665993	84.7643589
ADV1015504	5/14/2025	4.454	9/15/2025	100.51928	100.3900643	100.2611904	100.1326593	100.0044697	99.8766202	99.74910932	99.62193571	99.495098
ADV1017609	7/28/2025	4.51	10/28/2025	100.9984	100.7498234	100.5024719	100.256335	100.0114036	99.76766901	99.52512244	99.2837552	99.04355873
ADV1017035	7/2/2025	3.94	4/2/2027	106.33147	104.6289934	102.9621824	101.3299836	99.73138238	98.16540383	96.63111083	95.12760224	93.65401108
ADV1016100	6/2/2025	4.108	12/2/2026	105.18068	103.8231074	102.4896065	101.1795907	99.89249192	98.62776014	97.38486241	96.16328232	94.96251933
ADV1017486	7/22/2025	4.155	7/22/2026	103.72791	102.7342096	101.7595949	100.8035203	99.86545945	98.94490613	98.04137275	97.15438976	96.28350474

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1015864	5/27/2025	4.346	2/27/2026	102.30342	101.7154123	101.1341633	100.5595606	99.99149071	99.42984261	98.87450784	98.32538035	97.78235644
ADV1015785	5/22/2025	4.032	3/29/2027	106.55802	104.862502	103.2023733	101.5765883	99.98414524	98.42408122	96.89547052	95.3974227	93.92908092
ADV1016774	6/25/2025	4.048	6/25/2026	103.39717	102.478687	101.5765556	100.6903369	99.81961203	98.9639769	98.12304124	97.29642817	96.48377364
ADV1017741	7/31/2025	4.498	10/31/2025	101.02874	100.7718296	100.5162151	100.261891	100.0088478	99.75707562	99.50656511	99.2573068	99.00929136
ADV1017344	7/15/2025	4.322	4/15/2026	102.79246	102.0731891	101.3640075	100.6647054	99.97507692	99.29492199	98.62404598	97.96225957	97.30937858
ADV1016796	6/26/2025	4.091	6/26/2026	103.38289	102.4626213	101.5587653	100.6708854	99.79856014	98.94138311	98.09896175	97.270917	96.45688272
ADV1017460	7/21/2025	3.89	7/21/2028	111.44458	108.3611446	105.3806672	102.4991363	99.71272047	97.01775923	94.4107539	91.88835963	89.4473777
ADV1015917	5/28/2025	4.088	5/28/2027	107.23096	105.3656231	103.5421016	101.7591987	100.015764	98.31068736	96.64289746	95.01135987	93.4150756
ADV1016995	7/1/2025	4.465	10/1/2025	100.68993	100.5165633	100.3437882	100.1716038	100.0000073	99.82899548	99.65856552	99.48871443	99.31943927
ADV1017571	7/25/2025	4.54	8/29/2025	100.32721	100.2465483	100.1660192	100.0856225	100.0053579	99.92522518	99.84522395	99.7653539	99.68561474
ADV1017578	7/25/2025	4.502	10/27/2025	100.98562	100.7397737	100.4951242	100.2516644	100.0093858	99.76827964	99.52833751	99.28955096	99.05191166
ADV1015956	5/29/2025	4.484	8/18/2025	100.21026	100.1598973	100.1096008	100.0593717	100.0092099	99.9591153	99.90908768	99.85912695	99.80923296
ADV1015774	5/22/2025	4.149	5/22/2029	115.65884	111.6451001	107.79544	104.1022577	100.5583487	97.15687966	93.89136758	90.75565945	87.74391373
ADV1016518	6/27/2025	4.037	6/28/2027	107.49557	105.5409274	103.6319096	101.7671765	99.94543635	98.16544389	96.42599795	94.72593972	93.06415096
ADV1017497	7/22/2025	3.955	7/22/2027	107.6013	105.5802959	103.607995	101.682917	99.80363911	97.96879137	96.17705408	94.42715574	92.71787086
ADV1015137	5/1/2025	4.039	5/1/2026	102.75254	101.9894241	101.2376552	100.4969786	99.76714996	99.0479322	98.33909499	97.64041464	96.95167384
ADV1015243	5/6/2025	4.04	8/26/2026	103.99224	102.9006593	101.8320503	100.7856884	99.76088349	98.75697352	97.77332342	96.80932363	95.86438882
ADV1017766	7/31/2025	4.144	11/19/2026	105.06867	103.7433009	102.44453	101.1715666	99.92365213	98.70005827	97.50008499	96.32305941	95.16833437
ADV1015649	5/19/2025	4.422	10/21/2025	100.91016	100.6793672	100.4496306	100.2209442	99.99330071	99.76669297	99.54111387	99.31655636	99.09301345
ADV1015420	5/12/2025	4.387	11/12/2025	101.14656	100.8531641	100.5614587	100.2714332	99.98307284	99.69636336	99.41129049	99.12784015	98.84599843
ADV1016974	7/1/2025	4.509	8/1/2025	100.0163	100.0135224	100.0107428	100.0079656	100.0051908	100.0024184	99.99964839	99.99688081	99.99411563
ADV1016438	6/13/2025	4.308	3/13/2026	102.43137	101.8043562	101.1850345	100.5732674	99.96891702	99.37184881	98.7819314	98.19903658	97.62303921
ADV1016639	6/23/2025	4.586	6/23/2036	140.99122	128.8120206	117.8588364	107.9995787	99.11710321	91.10745036	83.87829744	77.34759977	71.44239658
ADV1015670	5/20/2025	4.447	9/22/2025	100.5944	100.4455468	100.2971447	100.1491881	100.001675	99.85460355	99.70797162	99.56177724	99.41601843
ADV1017325	7/15/2025	4.125	7/15/2030	119.93183	114.6384594	109.616472	104.8504819	100.3260535	96.02963987	91.94852356	88.07076125	84.38513287
ADV1017697	7/30/2025	4.546	9/30/2025	100.68784	100.5178657	100.3484577	100.1796175	100.0113422	99.84362911	99.67647535	99.50987818	99.34383484
ADV1016241	7/1/2025	3.987	6/30/2028	111.5177	108.490687	105.5628919	102.7305192	99.98994387	97.3376988	94.77046733	92.28507573	89.87848617
ADV1017614	7/28/2025	4.068	1/28/2027	105.77504	104.2590718	102.7727874	101.3153865	99.88610071	98.48418834	97.1089334	95.75964431	94.43565294
ADV1017734	7/31/2025	4.526	8/29/2025	100.32508	100.2444759	100.1640084	100.0836731	100.0034699	99.92339846	99.84345839	99.76364941	99.68397121
ADV1016574	6/18/2025	4.394	12/16/2025	101.52506	101.1364176	100.7507403	100.3679928	99.98814144	99.6111535	99.23699654	98.86563864	98.49704839
ADV1016858	6/27/2025	3.855	6/25/2027	107.11092	105.168497	103.2712498	101.4178595	99.60705169	97.83759752	96.10831148	94.41804973	92.76570833
ADV1016926	7/2/2025	3.908	7/2/2030	118.73331	113.5053565	108.544033	103.8343171	99.36210653	95.11416108	91.07804584	87.24207808	83.59527794
ADV1017210	7/10/2025	4.104	7/10/2026	103.61589	102.6549218	101.7118187	100.786087	99.87724915	98.98484512	98.10843141	97.24758038	96.40187951

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1015190	5/2/2025	4.507	8/4/2025	100.06	100.0487841	100.03758	100.0263867	100.015204	100.0040319	99.99287049	99.98171968	99.97057948
ADV1017604	7/28/2025	4.568	8/4/2025	100.04582	100.0347283	100.0236447	100.0125717	100.0015093	99.99045735	99.97941595	99.96838506	99.95736465
ADV1017583	7/25/2025	4.534	9/25/2025	100.63038	100.4743051	100.3187219	100.163627	100.0090178	99.85489232	99.70124812	99.54808297	99.39539463
ADV1017071	7/7/2025	3.976	1/8/2029	113.54177	109.948318	106.4900086	103.1610342	99.95586576	96.86924061	93.89614836	91.0318173	88.27170173
ADV1015634	5/19/2025	4.191	5/20/2030	119.71227	114.5824558	109.7081724	105.0752968	100.6705615	96.48149856	92.49638717	88.70420458	85.09458099
ADV1016485	6/16/2025	4.483	9/16/2025	100.5288	100.3972826	100.2661239	100.1353209	100.0048721	99.87477605	99.74503128	99.61563633	99.48658974
ADV1016470	6/16/2025	4.385	12/16/2025	101.5219	101.1331789	100.7474267	100.3646049	99.98467984	99.60761874	99.23338916	98.8619592	98.49329741
ADV1015598	5/16/2025	4.174	9/16/2026	104.37018	103.2184205	102.0921548	100.9905456	99.91278854	98.85811374	97.82578426	96.81509425	95.82536734
ADV1017091	7/7/2025	3.955	7/7/2028	111.49565	108.4497774	105.50436	102.6555352	99.89960971	97.23305266	94.6524872	92.15468301	89.73654906
ADV1017239	7/11/2025	3.966	7/11/2028	111.56973	108.511786	105.5550465	102.6956018	99.92971859	97.25382799	94.66451767	92.15852387	89.73272408
ADV1016565	6/18/2025	4.051	6/18/2030	119.30945	114.1071287	109.1680015	104.4773488	100.0213491	95.78701975	91.76216173	87.93530843	84.29567805
ADV1017724	7/31/2025	4.521	9/18/2025	100.54887	100.4124889	100.276492	100.1408776	100.005644	99.87078955	99.73631268	99.60221174	99.46848513
ADV1017201	7/10/2025	4.091	10/13/2026	104.57446	103.3469409	102.148324	100.9775981	99.8337964	98.71599648	97.62331759	96.55491842	95.50999491
ADV1017244	7/11/2025	3.997	1/11/2029	113.6459	110.0423743	106.5746578	103.2369015	100.0235369	96.92926482	93.9490405	91.07806015	88.31174804
ADV1015576	5/16/2025	4.282	1/16/2026	101.82584	101.3472297	100.8730701	100.4033022	99.93786503	99.47669883	99.01974489	98.5669456	98.11824439
ADV1015262	5/6/2025	4.311	4/30/2032	126.4912	119.1611604	112.3206295	105.934049	99.96863444	94.3941458	89.18267664	84.30846146	79.7477001
ADV1015586	5/16/2025	4.221	5/18/2026	103.07342	102.262064	101.4635093	100.6774575	99.90361636	99.14170229	98.39144063	97.65256506	96.92481735
ADV1015962	5/29/2025	4.415	11/28/2025	101.33197	100.993651	100.6575636	100.3236897	99.99200748	99.66249551	99.33513255	99.00989765	98.68677014
ADV1016691	6/24/2025	3.834	6/26/2028	111.23515	108.2186437	105.3008008	102.4778579	99.74621809	97.10244101	94.54323506	92.06545017	89.66607086
ADV1017522	7/23/2025	4.538	8/25/2025	100.28243	100.2129083	100.1434889	100.074176	100.0049693	99.93586865	99.86687379	99.79798448	99.72920047
ADV1015922	5/28/2025	4.049	2/23/2028	110.25838	107.6066524	105.0332458	102.5353688	100.1103485	97.7556245	95.46874354	93.2473539	91.08920063
ADV1015268	5/6/2025	4.346	11/6/2025	101.06923	100.7927375	100.5177481	100.2442478	99.97222446	99.7016662	99.43256111	99.16489745	98.89866363
ADV1016769	6/25/2025	3.838	6/25/2027	107.21646	105.2704396	103.3697257	101.5129866	99.69894361	97.92636331	96.19405616	94.50087439	92.84571027
ADV1017341	7/15/2025	4.524	8/5/2025	100.05876	100.044866	100.0309881	100.0171237	100.003273	99.98943589	99.97561229	99.96180223	99.94800566
ADV1017658	7/29/2025	4.184	7/29/2026	103.83306	102.8195067	101.8257855	100.8513156	99.89554099	98.95792683	98.03795857	97.13514093	96.24899703
ADV1017426	7/18/2025	4.118	7/20/2026	103.73919	102.7499698	101.7796587	100.8277209	99.89363729	98.97690826	98.07705266	97.19360702	96.32612472
ADV1016670	6/23/2025	4.27	3/23/2026	102.51022	101.8553861	101.2089362	100.5707089	99.94054784	99.31830058	98.70381844	98.09695649	97.49757337
ADV1015540	5/15/2025	4.446	9/23/2025	100.60604	100.4542814	100.3029827	100.1521452	100.0017668	99.8518453	99.7023787	99.55336488	99.40480176
ADV1016248	6/5/2025	4.4	8/13/2032	127.93912	120.2684126	113.1286678	106.4800247	100.2858228	94.5123281	89.12848507	84.10569061	79.41758831
ADV1016882	6/30/2025	3.862	12/31/2026	105.26131	103.8231877	102.4118868	101.0267178	99.6670178	98.33214607	97.02148284	95.73442852	94.47040292
ADV1017149	7/9/2025	4.504	8/1/2025	100.01492	100.0121359	100.0093591	100.0065846	100.0038126	100.001043	99.99827576	99.99551095	99.99274854
ADV1016892	6/30/2025	3.845	1/10/2029	113.10256	109.5112314	106.0552444	102.728769	99.52625847	96.44243414	93.47227071	90.61098271	87.85401171
ADV1015246	5/6/2025	4.119	5/6/2026	102.86566	102.0882846	101.3226752	100.5685698	99.82570992	99.09384521	98.3727325	97.6621358	96.96182597

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017142	7/9/2025	4.183	7/9/2026	103.61315	102.6559057	101.716389	100.7941141	99.88860863	98.99941765	98.12610244	97.26823991	96.42542191
ADV1016238	7/1/2025	3.987	6/30/2028	111.5177	108.490687	105.5628919	102.7305192	99.98994387	97.3376988	94.77046733	92.28507573	89.87848617
ADV1016703	6/24/2025	4.123	6/24/2026	103.39071	102.4759129	101.5773403	100.6945591	99.8271552	98.97472891	98.13689421	97.31327831	96.503521
ADV1015724	5/22/2025	4.091	5/24/2027	107.19151	105.3374453	103.5247358	101.752194	100.018671	98.32305934	96.66429109	95.04133592	93.45319961
ADV1016860	6/27/2025	3.816	6/27/2028	110.97761	107.9669957	105.0548596	102.2374502	99.5111771	96.87260597	94.31845112	91.84556808	89.4509467
ADV1016807	6/26/2025	3.906	12/28/2026	105.19024	103.762386	102.3609993	100.9854103	99.63496824	98.30904371	97.00702798	95.72833196	94.47238551
ADV1016559	6/18/2025	4.494	8/20/2025	100.22965	100.1738159	100.1180601	100.0623821	100.0067818	99.95125901	99.89581357	99.84044531	99.78515406
ADV1016888	6/30/2025	3.82	11/17/2027	108.60746	106.2495271	103.9550391	101.7218892	99.54805531	97.4315961	95.37064757	93.36341919	91.40819045
ADV1017023	7/2/2025	4.504	8/4/2025	100.04954	100.0384123	100.0272928	100.016184	100.0050857	99.99399804	99.98292089	99.97185429	99.9607982
ADV1017322	7/15/2025	4.53	8/15/2025	100.17099	100.1292775	100.0876144	100.0460036	100.0044451	99.96293881	99.92148461	99.8800824	99.83873207
ADV1017769	7/31/2025	4.543	8/7/2025	100.07879	100.0593777	100.0399848	100.020612	100.0012592	99.98192646	99.96261372	99.94332095	99.9240481
ADV1016338	6/10/2025	4.412	11/5/2025	101.07079	100.7982026	100.5270752	100.2574	99.98916522	99.72235933	99.45697089	99.1929886	98.93040127
ADV1015256	5/6/2025	3.881	5/1/2028	110.56618	107.7201062	104.9627516	102.2907619	99.70093593	97.19021721	94.7556859	92.39455163	90.10414663
ADV1017191	7/10/2025	4.482	11/10/2025	101.14227	100.8564881	100.5723244	100.2897653	100.008797	99.7294061	99.45157928	99.17530333	98.90056523
ADV1017094	7/7/2025	4.274	7/7/2031	123.88733	117.4762921	111.4486477	105.7793427	100.4450845	95.42421312	90.69657818	86.24342663	82.04729885
ADV1015593	5/16/2025	4.227	5/18/2026	103.07827	102.2668863	101.4683103	100.6822376	99.90837569	99.14644109	98.39615911	97.65726345	96.92949586
ADV1015766	5/22/2025	4.232	5/22/2030	119.93087	114.7902258	109.9058355	105.2635349	100.850015	96.6527685	92.66003713	88.86076267	85.24454175
ADV1015717	5/21/2025	4.028	5/21/2027	107.17312	105.3250287	103.5180574	101.751007	100.0227263	98.33210628	96.67807809	95.05961136	93.47571246
ADV1017459	7/21/2025	4.397	1/21/2026	101.92651	101.4370324	100.9522392	100.4720639	99.99644081	99.52530528	99.05859397	98.59624472	98.13819651
ADV1017646	7/29/2025	3.943	1/25/2028	109.6489	107.0889061	104.6028065	102.1880412	99.84215171	97.56277952	95.3476616	93.1946258	91.1015866
ADV1017727	7/31/2025	4.528	8/29/2025	100.32524	100.2446369	100.1641691	100.0838338	100.0036305	99.92355886	99.84361866	99.76380956	99.68413123
ADV1017521	7/23/2025	4.538	8/25/2025	100.28243	100.2129083	100.1434889	100.074176	100.0049693	99.93586865	99.86687379	99.79798448	99.72920047
ADV1016188	6/4/2025	4.06	6/4/2030	119.22127	114.0612198	109.1603296	104.5042144	100.0793563	95.87305172	91.87335825	88.06904535	84.44954839
ADV1017401	7/17/2025	4.531	9/17/2025	100.54129	100.4074622	100.2740096	100.1409257	100.0082089	99.87585765	99.74387044	99.61224571	99.48098192
ADV1016636	6/23/2025	4.049	12/23/2026	105.33732	103.9218682	102.5324368	101.1683698	99.82903244	98.51381049	97.22210968	95.95335484	94.7069891
ADV1015418	5/12/2025	4.456	9/12/2025	100.48699	100.3661925	100.2456979	100.1255044	100.0056109	99.88601612	99.76671901	99.64771838	99.52901309
ADV1017593	7/28/2025	4.567	8/18/2025	100.20436	100.1543711	100.1044442	100.0545844	100.0047913	99.95506492	99.90540504	99.85581156	99.80628433
ADV1017070	7/7/2025	3.946	7/7/2028	111.46892	108.4234426	105.4784136	102.6299676	99.87441165	97.20821517	94.62800161	92.13054091	89.71274232
ADV1015654	5/19/2025	4.05	7/21/2028	111.92626	108.8355702	105.8480176	102.9595873	100.1664421	97.46491591	94.85150481	92.32285879	89.87577422
ADV1016300	6/9/2025	4.241	6/9/2026	103.33323	102.4600618	101.6016878	100.7577315	99.9278316	99.11163835	98.3088137	97.51903064	96.74197276
ADV1017661	7/30/2025	3.999	7/25/2030	119.38729	114.0797502	109.0459229	104.2701965	99.73793563	95.43541118	91.34973905	87.46882394	83.78130699
ADV1015559	5/15/2025	4.453	9/15/2025	100.51899	100.3897882	100.2609304	100.1324155	100.0042419	99.87640838	99.74891347	99.62175578	99.49493396
ADV1017285	7/14/2025	4.512	8/14/2025	100.15924	100.1203033	100.0814162	100.0425768	100.0037852	99.96504125	99.92634484	99.8876959	99.84909433

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016642	6/23/2025	4.731	6/23/2038	146.89751	132.4302678	119.6399164	108.3186979	98.28578699	89.38366745	81.47501221	74.43999522	68.17397355
ADV1017430	7/18/2025	4.533	8/18/2025	100.20436	100.1543	100.1043115	100.05439	100.0045354	99.95474749	99.90502623	99.85537145	99.805783
ADV1015763	5/22/2025	4.481	8/22/2025	100.25556	100.1939282	100.1323854	100.0709318	100.0095674	99.94829188	99.88710512	99.8260069	99.76499702
ADV1017173	7/10/2025	4.502	8/11/2025	100.12611	100.0955146	100.0649518	100.034424	100.0039312	99.97347341	99.94305044	99.91266227	99.88230884
ADV1017684	7/30/2025	4.564	8/6/2025	100.06806	100.0514183	100.0347948	100.018188	100.001598	99.98502476	99.96846818	99.95192824	99.93540494
ADV1015253	5/6/2025	3.88	5/1/2028	110.56339	107.7173605	104.960044	102.2880914	99.69830173	97.18761847	94.75312181	92.39202139	90.10164948
ADV1016988	7/1/2025	4.509	8/1/2025	100.0163	100.0135224	100.0107428	100.0079656	100.0051908	100.0024184	99.99964839	99.99688081	99.99411563
ADV1016828	6/27/2025	4.465	9/29/2025	100.66835	100.5005127	100.3332352	100.1665114	100.0003385	99.83471388	99.66963475	99.50509847	99.34110238
ADV1016540	6/17/2025	4.243	6/17/2026	103.42297	102.5273101	101.647201	100.7822421	99.93204422	99.09623105	98.2744392	97.46631737	96.67152597
ADV1017108	7/7/2025	4.205	7/7/2026	103.61243	102.6607	101.7264987	100.8093428	99.90876802	99.02432715	98.15558877	97.30213679	96.46356973
ADV1015286	5/7/2025	3.896	4/10/2028	110.37735	107.5931666	104.8942914	102.2775533	99.7399251	97.27851355	94.89055237	92.57339566	90.32451161
ADV1015725	5/21/2025	4.181	11/21/2029	117.78467	113.2116643	108.8461973	104.6777294	100.6963097	96.89254293	93.25755596	89.78296554	86.46084874
ADV1017536	7/23/2025	4.49	11/12/2025	101.16544	100.8744669	100.5851734	100.2975458	100.0115697	99.72723073	99.44451489	99.16340816	98.88389676
ADV1017274	7/14/2025	4.191	7/15/2026	103.68695	102.7127683	101.7569429	100.8189569	99.89831355	98.99453427	98.10715799	97.23574033	96.37985287
ADV1015805	5/23/2025	4.469	9/23/2025	100.60827	100.4566403	100.305477	100.1547745	100.0045307	99.85474335	99.70541051	99.55653004	99.40809988
ADV1016254	6/5/2025	4.022	6/7/2027	107.22742	105.3343503	103.4842767	101.6759662	99.9082333	98.17993379	96.48996292	94.83725378	93.22077579
ADV1015744	5/21/2025	4.106	11/23/2026	105.16227	103.8252606	102.5139197	101.2275273	99.96539387	98.72685577	97.51127359	96.31803116	95.14653448
ADV1016516	6/17/2025	4.384	6/20/2031	124.40142	118.0231897	112.0233584	106.3773813	101.0624323	96.05727255	91.34213289	86.89860447	82.70953883
ADV1016000	5/29/2025	4.707	5/29/2035	138.70419	127.752091	117.8069215	108.7693354	100.5503154	93.07005027	86.25693867	80.04670493	74.38161448
ADV1015997	5/29/2025	4.411	5/14/2032	127.27904	119.8839525	112.9847171	106.5452102	100.5321294	94.91475888	89.66475514	84.75595181	80.16418139
ADV1015255	7/1/2025	4.033	7/1/2030	119.34678	114.1065693	109.1332734	104.4118615	99.92822863	95.6691318	91.62213271	87.77554489	84.1183844
ADV1016846	6/27/2025	3.807	6/27/2028	110.95114	107.9409098	105.0291551	102.2121178	99.48620766	96.84799078	94.29418172	91.82163626	89.42734454
ADV1015672	5/20/2025	4.407	11/18/2025	101.21848	100.9082784	100.5999667	100.2935303	99.98895197	99.68621478	99.385302	99.08619708	98.7888837
ADV1017587	7/25/2025	4.541	8/8/2025	100.09103	100.0688241	100.0466424	100.0244843	100.0023498	99.98023885	99.95815135	99.93608728	99.91404662
ADV1015505	5/14/2025	4.428	10/14/2025	100.83491	100.6237986	100.4135742	100.2042338	99.99577174	99.78818235	99.58146012	99.37559954	99.17059516
ADV1016982	7/1/2025	4.375	1/2/2026	101.70692	101.2705273	100.837852	100.4088456	99.9834616	99.56165431	99.14337881	98.72859091	98.31724717
ADV1017268	7/14/2025	4.253	5/6/2026	102.96816	102.1903511	101.4243162	100.6697892	99.92651179	99.19423344	98.47271095	97.76170826	97.06099618
ADV1016002	5/29/2025	4.698	5/29/2035	138.61631	127.6683889	117.7271137	108.6931633	100.4775406	93.00045293	86.19031564	79.98286852	74.32039109
ADV1017095	7/7/2025	4.356	7/7/2032	127.33622	119.7880689	112.756093	106.202021	100.0906121	94.38940335	89.06847746	84.10025041	79.45927846
ADV1016012	5/29/2025	4.475	8/29/2025	100.33139	100.250163	100.1690708	100.0881121	100.0072863	99.92659336	99.84603281	99.76560436	99.68530771
ADV1015783	5/22/2025	4.464	9/22/2025	100.59662	100.4477976	100.2994231	100.151494	100.0040085	99.85696434	99.7103597	99.56419252	99.41846084
ADV1016183	6/4/2025	3.966	10/4/2028	112.484	109.1752894	105.9827959	102.9017361	99.92755484	97.05591357	94.28267821	91.60390816	89.01584577
ADV1015594	5/16/2025	4.118	5/16/2029	115.47506	111.4815084	107.6506387	103.9749145	100.4471953	97.06071057	93.80903776	90.68608278	87.68606103

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7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017751	7/31/2025	4.519	9/17/2025	100.53739	100.4037996	100.2705825	100.1377334	100.0052508	99.87313303	99.74137868	99.60998617	99.47895397
ADV1017381	7/16/2025	4.53	8/15/2025	100.17082	100.129113	100.087455	100.0458495	100.0042962	99.96279509	99.92134609	99.87994906	99.83860391
ADV1017718	7/31/2025	4.527	8/29/2025	100.32516	100.2445564	100.1640888	100.0837535	100.0035502	99.92347866	99.84353853	99.76372949	99.68405122
ADV1015503	5/14/2025	4.48	8/14/2025	100.16823	100.1289994	100.0898192	100.0506872	100.0116034	99.97256749	99.93357954	99.8946394	99.855747
ADV1016342	6/10/2025	4.469	9/10/2025	100.46171	100.3469555	100.2324708	100.1182592	100.0043197	99.8906511	99.77725255	99.66412302	99.5512615
ADV1017581	7/25/2025	3.997	7/26/2027	107.72893	105.6957797	103.7118682	101.775698	99.88582301	98.04085137	96.23944251	94.48030505	92.76219462
ADV1017685	7/30/2025	4.553	8/14/2025	100.15813	100.1192673	100.0804572	100.0416948	100.00298	99.96431276	99.925693	99.8871206	99.84859548
ADV1017266	7/14/2025	4.513	8/13/2025	100.14811	100.111961	100.075854	100.0397904	100.0037701	99.96779306	99.93185919	99.8959684	99.86012061
ADV1017567	7/25/2025	4.381	1/26/2026	101.97399	101.4705311	100.9720197	100.4783848	99.98955503	99.50546062	99.02603299	98.55120491	98.08091045
ADV1017185	7/10/2025	4.272	4/10/2026	102.70403	101.9988841	101.3034447	100.6175098	99.94088531	99.27338217	98.61481653	97.96500942	97.32378665
ADV1016777	6/25/2025	3.853	6/26/2028	111.07609	108.0668508	105.1559474	102.339637	99.61433742	96.97662235	94.42321339	91.95097295	89.55689739
ADV1016767	6/25/2025	4.467	9/25/2025	100.62477	100.4681365	100.3119964	100.1563463	100.0011839	99.8465067	99.69231258	99.53859923	99.3853644
ADV1017030	7/2/2025	3.871	7/3/2028	111.20563	108.1750276	105.2440565	102.4089007	99.66590966	97.01159236	94.44260967	91.95576679	89.54800613
ADV1016464	6/16/2025	4.502	8/6/2025	100.07452	100.057784	100.0410693	100.0243715	100.0076905	99.9910263	99.97437889	99.95774823	99.94113429
ADV1017746	7/31/2025	4.523	9/3/2025	100.38092	100.2863923	100.1920436	100.0978772	100.0038923	99.91008855	99.81646536	99.72302221	99.62975856
ADV1017650	7/29/2025	4.302	3/30/2026	102.60421	101.9297578	101.2641772	100.6072968	99.95894658	99.31896117	98.68717935	98.06344404	97.44760213
ADV1016045	5/30/2025	4.347	1/30/2026	102.00923	101.4910454	100.9780568	100.4701892	99.96736612	99.46951291	98.97655626	98.4884243	98.00504659
ADV1017199	7/10/2025	4.241	5/11/2026	103.01408	102.2222742	101.4426711	100.6749885	99.91895424	99.17430404	98.44078175	97.71813883	97.00613412
ADV1015250	5/6/2025	4.4	10/6/2025	100.7424	100.5537512	100.3658097	100.1785714	99.99203214	99.80618811	99.62103534	99.43656995	99.25278806
ADV1015872	5/27/2025	4.016	5/30/2028	111.25504	108.3195064	105.4776233	102.7259055	100.0610145	97.47975375	94.97906184	92.55600601	90.20777603
ADV1016392	6/12/2025	3.89	6/12/2028	111.24811	108.2711442	105.3903592	102.6021287	99.90298694	97.28961731	94.75884471	92.30762883	89.9330577
ADV1016317	6/9/2025	4.246	6/9/2026	103.33757	102.4643836	101.6059892	100.762013	99.93209324	99.11588041	98.31303641	97.52323423	96.74615743
ADV1016399	6/12/2025	4.168	7/13/2026	103.64291	102.6744753	101.7241863	100.7915358	99.87603501	98.97721344	98.09461751	97.22780999	96.37636927
ADV1016655	6/23/2025	3.885	6/25/2029	115.28699	111.1761261	107.2373517	103.4625487	99.84402758	96.37449973	93.04705434	89.85513687	86.79252879
ADV1017531	7/23/2025	4.383	1/23/2026	101.94179	101.4467594	100.9565201	100.4710014	99.99013529	99.51385503	99.04209525	98.57479179	98.11188167
ADV1016645	6/23/2025	4.495	8/4/2025	100.05097	100.0398233	100.0286915	100.0175703	100.0064597	99.9953597	99.98427026	99.97319136	99.96212298
ADV1016534	6/17/2025	4.498	8/18/2025	100.2078	100.157553	100.1073731	100.0572605	100.007215	99.95723655	99.90732495	99.85748008	99.8077018
ADV1016251	6/5/2025	4.209	6/5/2026	103.2622	102.4004074	101.553024	100.7196942	99.9000703	99.09381566	98.30060473	97.52012244	96.75206378
ADV1015848	5/27/2025	4.477	8/27/2025	100.30977	100.2341405	100.1586322	100.0832439	100.0079754	99.9328263	99.85779641	99.78288542	99.70809306
ADV1015211	5/5/2025	4.238	2/10/2026	102.07192	101.5210201	100.9759886	100.4367304	99.90315397	99.3751699	98.85269058	98.33563021	97.82390478
ADV1015148	5/1/2025	4.498	8/1/2025	100.02669	100.0238884	100.0210877	100.0182894	100.0154936	100.0127002	100.0099092	100.0071206	100.0043345
ADV1017121	7/8/2025	4.5	10/8/2025	100.77375	100.5808659	100.3887258	100.1973277	100.0066674	99.81674061	99.62754296	99.43907023	99.25131822
ADV1015984	5/29/2025	4.189	5/29/2026	103.22336	102.3802351	101.5509028	100.735029	99.93228757	99.14236315	98.36495023	97.59975299	96.8464849

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7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016733	6/24/2025	3.903	1/24/2029	113.44923	109.8134231	106.3160115	102.9509737	99.71258082	96.5953838	93.59419819	90.70408965	87.92036053
ADV1015603	5/16/2025	4.118	1/19/2027	105.74828	104.2568144	102.7941006	101.3593754	99.95190529	98.57098194	97.21592099	95.88606115	94.58076322
ADV1017756	7/31/2025	4.544	8/7/2025	100.07881	100.0593972	100.0400042	100.0206314	100.0012786	99.98194589	99.96263314	99.94334036	99.92406751
ADV1017758	7/31/2025	4.435	1/30/2026	102.04515	101.5305069	101.0210256	100.5166302	100.0172449	99.52279545	99.0332091	98.54841445	98.06834154
ADV1017024	7/2/2025	4.504	8/4/2025	100.04954	100.0384123	100.0272928	100.016184	100.0050857	99.99399804	99.98292089	99.97185429	99.9607982
ADV1017389	7/16/2025	4.536	9/16/2025	100.53086	100.3998198	100.2691337	100.138802	100.0088232	99.87919597	99.7499187	99.62099	99.4924084
ADV1016022	5/29/2025	4.03	8/30/2027	108.19086	106.0572147	103.9768124	101.9479674	99.9690573	98.0385234	96.15486733	94.31664833	92.52248054
ADV1017204	7/10/2025	4.427	12/10/2025	101.46626	101.0956103	100.7276687	100.3624009	99.99977786	99.63977081	99.2823514	98.92749172	98.57516425
ADV1015745	5/21/2025	4.106	11/23/2026	105.16227	103.8252606	102.5139197	101.2275273	99.96539387	98.72685577	97.51127359	96.31803116	95.14653448
ADV1016811	6/26/2025	4.23	3/24/2026	102.49432	101.8367951	101.1877204	100.5469351	99.91428102	99.28960379	98.67275301	98.06358204	97.46194788
ADV1015599	5/16/2025	4.011	5/17/2027	107.09669	105.2602266	103.4644296	101.7080992	99.99008546	98.30928188	96.66462288	95.0550821	93.47967055
ADV1015658	5/19/2025	4.045	11/26/2027	109.23609	106.8452925	104.5193708	102.2561931	100.0537114	97.90995707	95.82303754	93.7911325	91.81249091
ADV1017403	7/17/2025	4.515	10/16/2025	100.86568	100.6505281	100.4363101	100.223016	100.0106398	99.7991753	99.58861673	99.37895817	99.17019377
ADV1017092	7/7/2025	4.009	7/9/2029	115.63157	111.4829201	107.5092681	103.702291	100.0541096	96.55725869	93.20466368	89.98961754	86.90576
ADV1017022	7/2/2025	4.504	8/4/2025	100.04954	100.0384123	100.0272928	100.016184	100.0050857	99.99399804	99.98292089	99.97185429	99.9607982
ADV1017157	7/9/2025	4.502	8/11/2025	100.12628	100.0956802	100.0651136	100.034582	100.0040855	99.97362383	99.94319708	99.91280512	99.88244791
ADV1017072	7/7/2025	4.499	10/7/2025	100.76245	100.5723539	100.3829775	100.1943212	100.0063809	99.81915232	99.63263146	99.44681424	99.26169665
ADV1016366	6/11/2025	3.987	6/11/2027	107.34193	105.4340471	103.5697594	101.7478157	99.96700679	98.22616548	96.52416533	94.85991868	93.23237518
ADV1016755	6/25/2025	4.419	11/26/2025	101.30676	100.9751975	100.6457973	100.3185345	99.99338824	99.67033805	99.34936369	99.03044523	98.71356293
ADV1015269	5/6/2025	4.453	5/1/2035	127.45401	119.624005	112.4316317	105.8184085	99.73164441	94.1238319	88.95210542	84.17775954	79.76581961
ADV1017386	7/16/2025	4.532	8/18/2025	100.20464	100.1545757	100.1045747	100.0546408	100.0047737	99.95497337	99.90523969	99.8555725	99.80597165
ADV1017186	7/10/2025	4.248	5/11/2026	103.0196	102.2277676	101.4481408	100.6804349	99.92437743	99.17970433	98.44615939	97.72349406	97.01146717
ADV1015927	5/28/2025	4.476	8/28/2025	100.32058	100.2421544	100.163854	100.0856802	100.0076328	99.92971137	99.85191568	99.77424542	99.6967003
ADV1016772	6/25/2025	3.854	5/25/2027	106.89875	105.0423445	103.2274542	101.4528809	99.71747355	98.02012202	96.3597556	94.73534125	93.14588196
ADV1017265	7/14/2025	4.513	8/13/2025	100.14811	100.111961	100.075854	100.0397904	100.0037701	99.96779306	99.93185919	99.8959684	99.86012061
ADV1016941	6/30/2025	4.387	12/31/2025	101.68989	101.259113	100.831955	100.4083687	99.98830967	99.571734	99.15859863	98.74886115	98.34247986
ADV1015564	5/15/2025	4.453	9/15/2025	100.51899	100.3897882	100.2609304	100.1324155	100.0042419	99.87640838	99.74891347	99.62175578	99.49493396
ADV1017764	7/31/2025	4.545	8/7/2025	100.07883	100.0594166	100.0400237	100.0206508	100.0012981	99.98196531	99.96265256	99.94335978	99.92408692
ADV1016863	6/27/2025	4.451	10/22/2025	100.92187	100.6893231	100.4578503	100.2274471	99.99810616	99.76982004	99.54258144	99.31638311	99.09121787
ADV1015131	5/1/2025	3.81	5/3/2027	106.45455	104.6644554	102.9133037	101.199902	99.52310969	97.88183201	96.27501808	94.70165859	93.16078362
ADV1015119	5/1/2025	4.022	5/1/2026	102.7396	101.9765433	101.2248279	100.4842043	99.75442813	99.0352623	98.32647647	97.62784698	96.93915654
ADV1016871	6/27/2025	3.766	12/27/2028	112.94237	109.385817	105.9620739	102.6654764	99.49063071	96.43240085	93.48589504	90.6464526	87.90963182
ADV1016714	6/24/2025	3.953	9/24/2026	104.28332	103.1087892	101.9607747	100.8383823	99.74076036	98.66709444	97.61660556	96.58854823	95.58220862

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016842	6/27/2025	4.466	9/26/2025	100.63535	100.4759443	100.3170494	100.15866	100.0007738	99.84338826	99.6865011	99.53010991	99.37421236
ADV1017495	7/22/2025	3.914	7/24/2028	111.54771	108.4545196	105.4648705	102.5747165	99.78019498	97.07761606	94.46345339	91.93433612	89.48704107
ADV1016708	6/24/2025	4.471	9/24/2025	100.61449	100.4606433	100.3072768	100.1543847	100.0019648	99.85001494	99.69853287	99.54751645	99.39696352
ADV1016327	6/10/2025	4.173	12/10/2026	105.36181	103.9813018	102.6256146	101.2941363	99.98627354	98.70145173	97.43911459	96.19872329	94.97975585
ADV1016249	6/5/2025	4.672	6/15/2035	138.49599	127.5070055	117.5329481	108.4732507	100.2378423	92.74600539	85.92536005	79.71096244	74.04450517
ADV1017573	7/25/2025	4.543	8/25/2025	100.28245	100.2129369	100.1435346	100.0742388	100.0050492	99.93596559	99.86698776	99.79811545	99.72934841
ADV1017212	7/10/2025	4.424	12/22/2025	101.60166	101.1969378	100.7954304	100.3970994	100.0019073	99.60981701	99.22079195	98.83479626	98.45179459
ADV1017323	7/15/2025	4.531	8/15/2025	100.17104	100.1293198	100.0876566	100.0460457	100.0044872	99.96298089	99.92152666	99.88012441	99.83877404
ADV1016808	6/26/2025	3.859	6/26/2029	114.90049	110.8023442	106.8757486	103.1126164	99.50528276	96.0464824	92.7293266	89.54728166	86.49414878
ADV1016359	6/11/2025	4.472	9/11/2025	100.47298	100.3554251	100.2381602	100.1211817	100.0044886	99.88807973	99.77195406	99.65611052	99.54054803
ADV1015991	5/29/2025	4.007	5/1/2028	110.8642	108.0226548	105.2710944	102.6061814	100.0247178	97.52364136	95.10001913	92.75104096	90.47401387
ADV1016832	6/27/2025	3.751	6/27/2028	111.00125	107.9853658	105.0682353	102.2460912	99.51532971	96.8725042	94.31431712	91.83761282	89.43937061
ADV1016094	6/2/2025	4.49	8/12/2025	100.14325	100.1097138	100.0762132	100.042752	100.0093301	99.97594731	99.94260371	99.90929916	99.8760336
ADV1017192	7/10/2025	4.431	12/10/2025	101.46772	101.0970713	100.7291235	100.3638497	100.0012206	99.64120751	99.28378214	98.92891654	98.5765832
ADV1017198	7/10/2025	4.266	4/10/2026	102.69981	101.9946864	101.2992633	100.6133446	99.93673613	99.26924884	98.6106989	97.96090734	97.31969997
ADV1015206	5/5/2025	4.044	11/5/2026	104.77517	103.4848586	102.2245784	100.9932847	99.78997761	98.61370329	97.46355089	96.33865036	95.23817012
ADV1016658	6/23/2025	4.493	8/25/2025	100.2843	100.2145165	100.1448411	100.0752726	100.0058107	99.93645526	99.86720598	99.79806264	99.72902498
ADV1017168	7/10/2025	4.502	8/11/2025	100.12611	100.0955146	100.0649518	100.034424	100.0039312	99.97347341	99.94305044	99.91266227	99.88230884
ADV1015260	7/1/2025	4.033	7/1/2030	119.34678	114.1065693	109.1332734	104.4118615	99.92822863	95.6691318	91.62213271	87.77554489	84.1183844
ADV1015624	5/19/2025	4.184	5/19/2026	103.11095	102.2959055	101.4937766	100.7042584	99.92705458	99.16187819	98.4084511	97.66650371	96.93577465
ADV1017722	7/31/2025	4.526	8/29/2025	100.32508	100.2444759	100.1640084	100.0836731	100.0034699	99.92339846	99.84345839	99.76364941	99.68397121
ADV1016697	6/24/2025	4.321	1/26/2026	101.94856	101.4434156	100.9432405	100.4479581	99.95749693	99.47178691	98.99075924	98.51434647	98.04248245
ADV1016176	6/4/2025	4.396	12/4/2025	101.39234	101.037224	100.6845756	100.3343683	99.98657685	99.64117624	99.29814187	98.95744947	98.61907509
ADV1016756	6/25/2025	4.373	12/24/2025	101.60594	101.1948929	100.7871521	100.3826788	99.9814338	99.58337852	99.18847498	98.79668582	98.40797427
ADV1017467	7/21/2025	4.535	8/21/2025	100.23764	100.1792481	100.1209377	100.0627103	100.0045658	99.94650393	99.88852453	99.83062743	99.77281246
ADV1015613	5/16/2025	4.068	1/7/2028	109.76396	107.2516165	104.8104182	102.4379498	100.131888	97.8900025	95.71015113	93.59027614	91.52840017
ADV1017248	7/11/2025	4.513	9/11/2025	100.47289	100.3557666	100.2389255	100.1223699	100.0060986	99.89011049	99.77440459	99.65897979	99.54383503
ADV1017343	7/15/2025	4.267	6/15/2026	103.42241	102.5322603	101.6574751	100.7976578	99.95242578	99.12140972	98.30425251	97.50060894	96.71014524
ADV1017666	7/29/2025	4.591	8/5/2025	100.0573	100.0434277	100.0295739	100.0157338	100.0019072	99.98809413	99.97429461	99.9605086	99.94673607
ADV1015335	5/8/2025	4.101	11/9/2026	104.89567	103.5950881	102.3235566	101.0801027	99.86379456	98.67374186	97.50909308	96.36903354	95.25278343
ADV1017209	7/10/2025	4.5	9/10/2025	100.46037	100.3460287	100.2319595	100.1181625	100.0046364	99.89138039	99.7783934	99.66567445	99.55322254
ADV1015600	5/16/2025	4.143	11/16/2026	105.03309	103.7150087	102.4242596	101.1599956	99.92140593	98.70771337	97.51817214	96.3520665	95.20870917
ADV1016236	7/1/2025	3.99	6/30/2028	111.52655	108.4994094	105.5714865	102.7389892	99.99829224	97.34592847	94.77858115	92.29307645	89.88637645

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016021	5/29/2025	4.036	7/29/2027	107.84012	105.7976814	103.8048997	101.8602528	99.96227723	98.10956428	96.30075757	94.53455064	92.8096848
ADV1017577	7/25/2025	4	1/25/2027	105.74564	104.2362407	102.7562723	101.304944	99.88149698	98.4851988	97.11534218	95.77124394	94.45224396
ADV1015240	5/6/2025	4.443	9/8/2025	100.4424	100.332792	100.2234357	100.1143269	100.005465	99.89684903	99.78847808	99.68035133	99.57246792
ADV1017280	7/14/2025	4.512	8/22/2025	100.24863	100.1874017	100.1262582	100.0652034	100.0042372	99.94335933	99.88256961	99.82186786	99.76125389
ADV1016940	6/30/2025	4.486	9/30/2025	100.6825	100.5119067	100.3418877	100.1724385	100.0035563	99.83523828	99.66748164	99.50028359	99.33364137
ADV1015846	5/27/2025	4.48	8/20/2025	100.23253	100.1765416	100.1206357	100.0648078	100.0090578	99.95338557	99.89779086	99.84227354	99.78683344
ADV1016246	7/1/2025	4.108	7/1/2030	119.71979	114.4704488	109.4883593	104.758477	100.2666824	95.99971858	91.945134	88.09122975	84.42701006
ADV1016689	6/24/2025	3.969	6/25/2029	115.3245	111.2208939	107.2888617	103.5203232	99.90761903	96.44348888	93.12104835	89.9337676	86.87545121
ADV1017451	7/21/2025	3.939	1/21/2027	105.6094	104.1118809	102.6433545	101.2030534	99.79023491	98.40418168	97.044201	95.70962358	94.39980254
ADV1017328	7/15/2025	4.517	10/15/2025	100.85511	100.6427172	100.4312327	100.2206489	100.01096	99.80216032	99.59424402	99.38720546	99.18103901
ADV1016831	6/27/2025	4.487	8/27/2025	100.30539	100.2300501	100.1548283	100.0797261	100.0047432	99.92987929	99.85513413	99.78050741	99.70599888
ADV1017193	7/10/2025	4.499	8/14/2025	100.1594	100.1204459	100.0815398	100.0426815	100.003871	99.9651082	99.92639296	99.88772521	99.84910484
ADV1017737	7/31/2025	4.526	8/29/2025	100.32508	100.2444759	100.1640084	100.0836731	100.0034699	99.92339846	99.84345839	99.76364941	99.68397121
ADV1016868	6/27/2025	3.855	6/28/2027	107.14419	105.193022	103.2874144	101.4260268	99.6075692	97.83079812	96.09451406	94.39755982	92.73881874
ADV1016894	6/30/2025	3.852	2/14/2029	113.49949	109.8008682	106.2450079	102.8256029	99.53666295	96.37249508	93.32768716	90.39709234	87.57581449
ADV1017147	7/9/2025	3.978	7/9/2027	107.50592	105.5211628	103.5834243	101.6912998	99.84343868	98.03853969	96.27534836	94.55265522	92.86929379
ADV1015931	5/28/2025	4.406	11/28/2025	101.32911	100.9907605	100.6546479	100.3207489	99.98904185	99.65950519	99.33211769	99.00685841	98.68370668
ADV1017215	7/10/2025	4.502	8/11/2025	100.12611	100.0955146	100.0649518	100.034424	100.0039312	99.97347341	99.94305044	99.91266227	99.88230884
ADV1017504	7/22/2025	4.52	8/5/2025	100.0575	100.0436222	100.0297565	100.0159044	100.0020659	99.98824087	99.97442943	99.9606315	99.94684706
ADV1017731	7/31/2025	4.52	9/18/2025	100.54873	100.412353	100.2763563	100.1407421	100.0055087	99.87065444	99.73617776	99.602077	99.46835057
ADV1016524	6/27/2025	4.055	6/27/2029	115.68542	111.5690257	107.6248927	103.8448943	100.221333	96.74691272	93.41471559	90.2181805	87.1510827
ADV1015500	5/14/2025	4.306	2/17/2026	102.17585	101.6158422	101.0619853	100.5141791	99.97232462	99.43632505	98.90608568	98.38151381	97.86251876
ADV1017644	7/29/2025	4.577	8/29/2025	100.32952	100.2488972	100.168406	100.0880471	100.0078203	99.92772528	99.84776168	99.76792922	99.68822757
ADV1016696	6/24/2025	4.476	9/24/2025	100.61526	100.4614114	100.3080429	100.1551489	100.0027271	99.85077526	99.69929128	99.54827296	99.39771813
ADV1017290	7/14/2025	4.224	6/15/2026	103.38452	102.4945592	101.6199599	100.760326	99.91527522	99.08443811	98.26745765	97.46398869	96.67369749
ADV1015207	5/5/2025	3.969	5/5/2027	106.7587	104.960363	103.2012347	101.4801228	99.79588483	98.14742417	96.53368749	94.95366271	93.40637691
ADV1017725	7/31/2025	4.521	9/18/2025	100.54887	100.4124889	100.276492	100.1408776	100.005644	99.87078955	99.73631268	99.60221174	99.46848513
ADV1016564	6/18/2025	4.48	10/8/2025	100.77309	100.5797363	100.3871331	100.1952737	100.0041539	99.81376938	99.62411575	99.43518879	99.24698428
ADV1015587	5/16/2025	4.038	5/16/2028	111.16597	108.2701986	105.4657633	102.7492413	100.1173595	97.56698775	95.0951322	92.69892788	90.37563246
ADV1016040	5/30/2025	4.483	8/7/2025	100.08813	100.0685644	100.0490221	100.0295	100.0099982	99.99051653	99.97105504	99.95161367	99.93219237
ADV1016269	6/6/2025	4.082	6/6/2029	115.85625	111.7887908	107.8893559	104.1501254	100.5636812	97.12298711	93.82136686	90.65248408	87.61032313
ADV1017283	7/14/2025	4.515	9/15/2025	100.51724	100.3889688	100.2610392	100.13345	100.0061998	99.87928712	99.75271062	99.62646893	99.50056067
ADV1016186	6/4/2025	3.95	6/5/2028	111.13481	108.1841514	105.3281461	102.5632511	99.88607884	97.29338624	94.78206771	92.3491485	89.99177853

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017296	7/15/2025	3.965	7/17/2028	111.62913	108.5538791	105.5809276	102.7063091	99.92622998	97.23706504	94.63534881	92.1177676	89.68115192
ADV1016770	6/25/2025	4.459	10/15/2025	100.84599	100.6331088	100.4211373	100.2100687	99.99989708	99.79061662	99.5822216	99.37470635	99.16806522
ADV1017340	7/15/2025	4.518	10/15/2025	100.85532	100.6429281	100.4314431	100.2208588	100.0111694	99.80236913	99.5944523	99.38741321	99.18124624
ADV1016191	6/4/2025	4.582	6/5/2034	134.74277	124.9607715	116.0018606	107.7915747	100.2625712	93.35391522	87.010439	81.18216874	75.8238109
ADV1016786	6/26/2025	3.848	6/18/2027	107.02013	105.0982251	103.2206154	101.3860178	99.59319379	97.84094835	96.12812847	94.4536212	92.81635205
ADV1015699	5/20/2025	4.337	12/30/2025	101.66338	101.2334948	100.8071977	100.3844444	99.96519079	99.54939375	99.13701069	98.72799977	98.32231981
ADV1017206	7/10/2025	4.5	9/10/2025	100.46037	100.3460287	100.2319595	100.1181625	100.0046364	99.89138039	99.7783934	99.66567445	99.55322254
ADV1016072	5/30/2025	4.059	9/30/2026	104.47257	103.280303	102.1153079	100.9766553	99.86345834	98.77486959	97.71007883	96.6683111	95.64882478
ADV1015533	5/15/2025	4.477	8/15/2025	100.17899	100.1369613	100.0949852	100.0530619	100.0111913	99.96937323	99.92760766	99.88589447	99.84423355
ADV1015181	5/2/2025	4.006	11/2/2026	104.69147	103.4088134	102.1569285	100.9347149	99.74112207	98.57514894	97.43584062	96.32228594	95.2336149
ADV1016981	7/1/2025	3.882	1/4/2027	105.33854	103.8890797	102.4668473	101.0711425	99.70128752	98.35662716	97.03652798	95.74037733	94.4675825
ADV1017682	7/30/2025	4.193	7/30/2026	103.85307	102.8366698	101.8402025	100.8630888	99.90476848	98.96470261	98.04237273	97.13727983	96.24894351
ADV1015241	5/6/2025	4.479	8/6/2025	100.08104	100.0642234	100.0474245	100.0306426	100.0138776	99.99712945	99.9803982	99.96368378	99.94698617
ADV1015723	5/21/2025	4.077	5/22/2028	111.34213	108.4273418	105.6049246	102.8714291	100.2235529	97.65813656	95.17215602	92.7627163	90.42704498
ADV1017424	7/18/2025	4.534	8/22/2025	100.24932	100.1881139	100.1269996	100.0659739	100.0050368	99.94418804	99.88342735	99.8227546	99.76216957
ADV1016891	6/30/2025	3.811	2/16/2028	109.56111	106.9390332	104.3940577	101.9234486	99.52458951	97.19497312	94.9321961	92.73395404	90.59803665
ADV1015647	5/19/2025	4.455	9/9/2025	100.45264	100.340395	100.228407	100.1166794	100.0052114	99.8940019	99.78305005	99.67235489	99.5619155
ADV1017171	7/10/2025	4.106	7/10/2026	103.6178	102.6568212	101.7137084	100.787967	99.87911974	98.98670637	98.11028344	97.24942329	96.40371342
ADV1017141	7/9/2025	4.501	8/11/2025	100.12625	100.0956488	100.0650823	100.0345507	100.0040542	99.97359259	99.94316586	99.91277394	99.88241675
ADV1017519	7/23/2025	4.537	8/25/2025	100.28236	100.2128387	100.1434193	100.0741064	100.0048998	99.93579925	99.86680446	99.7979152	99.72913125
ADV1016728	6/24/2025	4.472	9/24/2025	100.61464	100.4607969	100.30743	100.1545376	100.0021173	99.850167	99.69868455	99.54766775	99.39711444
ADV1016640	6/23/2025	4.655	6/23/2037	143.87184	130.551088	118.6741371	108.0736637	98.60266438	90.1318923	82.54762594	75.74972804	69.64995613
ADV1016312	6/9/2025	4.4	11/10/2025	101.12371	100.8369385	100.5517928	100.2682571	99.98631788	99.70596148	99.42717454	99.14994385	98.8742563
ADV1017493	7/22/2025	4.513	10/22/2025	100.93227	100.7003951	100.4695913	100.2398542	100.0111762	99.78354999	99.55696827	99.33142382	99.10690946
ADV1017272	7/14/2025	4.517	8/4/2025	100.04765	100.0365332	100.0254303	100.014338	100.0032562	99.99218504	99.98112437	99.97007423	99.95903459
ADV1017700	7/30/2025	4.021	7/30/2027	107.82084	105.7758994	103.7807395	101.8338347	99.93371585	98.07896903	96.26823283	94.50019603	92.77359541
ADV1017762	7/31/2025	4.433	1/30/2026	102.04414	101.5294974	101.0200212	100.5156308	100.0162505	99.52180594	99.03222446	98.54743463	98.0673665
ADV1017612	7/28/2025	4.201	7/28/2026	103.83918	102.8283539	101.8372487	100.8652943	99.91193896	98.97665188	98.05892238	97.15825886	96.27418793
ADV1015135	5/1/2025	4.3	11/5/2025	101.04641	100.7726598	100.5003828	100.229564	99.96019178	99.69225451	99.42574072	99.16063903	98.89693822
ADV1016537	6/17/2025	4.497	8/19/2025	100.21887	100.165825	100.1128538	100.0599551	100.0071287	99.95437451	99.90169234	99.84908205	99.79654349
ADV1015208	5/5/2025	4.2	3/10/2026	102.33442	101.7160483	101.1051645	100.5016349	99.90532677	99.31611089	98.73386098	98.1584538	97.58976897
ADV1016098	6/2/2025	4.234	6/2/2026	103.25045	102.3969938	101.5576665	100.7321232	99.9200261	99.12104828	98.33487342	97.56119529	96.79971735
ADV1016712	6/24/2025	3.988	12/24/2026	105.26238	103.8447781	102.4532809	101.087229	99.74598466	98.42893073	97.13547021	95.86502529	94.6170366

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016365	6/11/2025	4.006	6/11/2029	115.61387	111.5367422	107.6286528	103.8817037	100.2884078	96.84166477	93.53473901	90.36123884	87.31509724
ADV1017321	7/15/2025	4.53	8/15/2025	100.17099	100.1292775	100.0876144	100.0460036	100.0044451	99.96293881	99.92148461	99.8800824	99.83873207
ADV1016442	6/13/2025	4.477	9/12/2025	100.48434	100.3640047	100.2439739	100.1242431	100.004811	99.88567661	99.7668387	99.64829613	99.53004776
ADV1017205	7/10/2025	4.502	9/10/2025	100.4606	100.3462575	100.232188	100.1183905	100.004864	99.89160763	99.77862025	99.66590092	99.55344862
ADV1017240	7/11/2025	3.994	7/12/2027	107.57043	105.576889	103.6307559	101.7306142	99.87509679	98.06288627	96.29271314	94.56335352	92.87362725
ADV1017551	7/24/2025	4.531	8/7/2025	100.07976	100.0603259	100.0409159	100.0215261	100.0021563	99.9828066	99.9634769	99.94416719	99.92487742
ADV1015730	5/21/2025	4.257	5/21/2026	103.13497	102.3150715	101.5082399	100.7141647	99.93254471	99.16308796	98.4055117	97.65954186	96.92491273
ADV1017093	7/7/2025	4.065	7/8/2030	119.56869	114.3036639	109.3077155	104.5656414	100.0631747	95.78692369	91.72431345	87.86353191	84.1934797
ADV1017649	7/29/2025	4.393	1/29/2026	102.01294	101.5011352	100.9944375	100.4927727	99.99606616	99.50424477	99.0172368	98.53497193	98.05738121
ADV1015574	5/16/2025	4.475	8/18/2025	100.21196	100.1615209	100.1111449	100.0608364	100.0105954	99.96042162	99.91031498	99.86027532	99.8103025
ADV1017596	7/28/2025	4.57	8/26/2025	100.29515	100.2228743	100.1507165	100.0786714	100.0067387	99.93491816	99.86320959	99.79161268	99.72012718
ADV1016189	6/4/2025	4.281	6/4/2031	123.65795	117.3471475	111.4084846	105.8179774	100.5533097	95.59370718	90.91982351	86.51363502	82.35834409
ADV1016291	6/9/2025	4.471	9/8/2025	100.43995	100.3307951	100.221883	100.1132176	100.0047979	99.89662322	99.78869256	99.68100509	99.57355998
ADV1017660	7/29/2025	4.463	12/22/2025	101.61443	101.2105715	100.8099207	100.4124397	100.0180907	99.62683685	99.23864177	98.85346958	98.47128504
ADV1016775	6/25/2025	3.956	12/28/2026	105.26173	103.833346	102.4314372	101.0553348	99.70438799	98.37796713	97.07546321	95.79628696	94.539868
ADV1015558	5/15/2025	4.478	8/15/2025	100.17903	100.1370058	100.0950296	100.0531061	100.0112354	99.96941724	99.92765157	99.88593828	99.84427725
ADV1017600	7/28/2025	4.514	10/28/2025	100.99939	100.7508091	100.5034551	100.2573156	100.0123818	99.76864474	99.52609571	99.28472604	99.04452714
ADV1015463	5/15/2025	4.098	5/15/2028	111.32486	108.4295782	105.6255276	102.9092853	100.277581	97.72728761	95.25541428	92.85909925	90.53560345
ADV1017152	7/9/2025	4.501	8/13/2025	100.14852	100.1123433	100.0762141	100.0401284	100.004086	99.96808692	99.93213103	99.89621824	99.86034848
ADV1016746	6/25/2025	4.475	9/25/2025	100.62602	100.4693872	100.313244	100.1575907	100.0024251	99.84774483	99.6935476	99.53983114	99.38659321
ADV1016301	6/9/2025	4.175	12/9/2026	105.3528	103.9750571	102.6220483	101.293159	99.98779888	98.70539647	97.44539839	96.2072686	94.99048778
ADV1015182	5/2/2025	4.348	11/3/2025	101.03722	100.7691166	100.5024249	100.2371293	99.97321897	99.71068299	99.44951064	99.18969132	98.93121453
ADV1017286	7/14/2025	4.51	9/25/2025	100.62843	100.4721463	100.3163568	100.1610561	100.0062419	99.85191194	99.69806395	99.54469565	99.3918048
ADV1017458	7/21/2025	4.524	8/11/2025	100.12493	100.0943727	100.0638514	100.0333651	100.0029137	99.97249721	99.94211554	99.91176862	99.88145638
ADV1016081	5/30/2025	4.402	11/28/2025	101.32747	100.989209	100.6531835	100.3193711	99.98775002	99.65829875	99.3309961	99.00582112	98.68275314
ADV1015966	5/29/2025	4.253	5/29/2026	103.21825	102.3759404	101.5474044	100.7323026	99.9303099	99.14111166	98.36440319	97.59988943	96.84728454
ADV1016071	5/30/2025	4.014	5/28/2027	107.09428	105.2302568	103.4080151	101.626368	99.88416592	98.1802994	96.51369766	94.88332685	93.28818857
ADV1017602	7/28/2025	4.571	8/27/2025	100.30655	100.2314895	100.156551	100.0817316	100.007031	99.93244895	99.85798521	99.78363948	99.70941148
ADV1015955	5/29/2025	4.485	8/14/2025	100.16591	100.1267561	100.0876478	100.0485877	100.0095755	99.97061127	99.93169486	99.89282618	99.85400514
ADV1016345	6/10/2025	4.403	11/10/2025	101.12441	100.8376718	100.5525568	100.2690516	99.98714263	99.70681636	99.42805938	99.15085847	98.87520055
ADV1017492	7/22/2025	4.223	6/22/2026	103.45996	102.550326	101.6567285	100.7787423	99.91596051	99.06798997	98.23445113	97.41497732	96.60921418
ADV1016519	6/27/2025	3.998	6/27/2028	111.51303	108.4945092	105.5746609	102.7497283	100.0161146	97.37037975	94.80923238	92.32952253	89.92823483
ADV1016397	6/12/2025	4.473	9/12/2025	100.48402	100.3636696	100.2436253	100.1238809	100.0044354	99.88528755	99.76643623	99.64788028	99.52961857

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017570	7/25/2025	4.54	8/22/2025	100.2485	100.1873539	100.1262929	100.0653206	100.0044367	99.94364099	99.88293336	99.82231357	99.76178145
ADV1016934	6/30/2025	4.083	6/30/2026	103.4179	102.48645	101.5717987	100.6734968	99.79110845	98.92421335	98.07240573	97.23529393	96.41249974
ADV1015252	6/2/2025	4.019	5/31/2030	118.98237	113.8395324	108.9545198	104.3130491	99.90169647	95.70784514	91.71963277	87.92590269	84.31615849
ADV1017516	7/23/2025	4.089	7/23/2026	103.7427	102.7451769	101.7668852	100.8072675	99.86579214	98.94194753	98.03524107	97.1451984	96.27136256
ADV1017569	7/25/2025	4.541	8/25/2025	100.28231	100.2127977	100.1433955	100.0740998	100.0049104	99.9358269	99.86684919	99.79797699	99.72921007
ADV1016884	6/30/2025	3.862	12/31/2026	105.26131	103.8231877	102.4118868	101.0267178	99.6670178	98.33214607	97.02148284	95.73442852	94.47040292
ADV1015775	5/22/2025	4.253	5/22/2026	103.14253	102.3198381	101.5103051	100.7136126	99.92945636	99.15754178	98.39758334	97.64930437	96.91243668
ADV1017705	7/30/2025	4.569	8/6/2025	100.06814	100.0515018	100.0348782	100.0182715	100.0016815	99.9851082	99.96855159	99.95201165	99.93548833
ADV1016839	6/27/2025	4.103	6/29/2026	103.42598	102.4972385	101.5852038	100.6894259	99.80947256	98.94492691	98.0953865	97.26046283	96.43978069
ADV1016427	6/13/2025	4.486	8/22/2025	100.25221	100.1907395	100.1293626	100.0680749	100.006876	99.94576581	99.88474411	99.82381072	99.76296543
ADV1016390	6/12/2025	4.29	3/12/2026	102.40978	101.7855983	101.1690403	100.5599704	99.95825269	99.36375418	98.77634523	98.19589931	97.62229284
ADV1017490	7/22/2025	4.297	4/23/2026	102.85922	102.117656	101.3868017	100.6664305	99.95631793	99.25624553	98.56600118	97.88537868	97.21417754
ADV1016234	7/1/2025	3.99	6/30/2028	111.52655	108.4994094	105.5714865	102.7389892	99.99829224	97.34592847	94.77858115	92.29307645	89.88637645
ADV1016001	5/29/2025	4.187	5/29/2026	103.22169	102.3785676	101.5492429	100.7333765	99.93064255	99.14072545	98.36331977	97.5981297	96.8448687
ADV1017435	7/18/2025	4.533	8/18/2025	100.20436	100.1543	100.1043115	100.05439	100.0045354	99.95474749	99.90502623	99.85537145	99.805783
ADV1016244	7/1/2025	3.988	6/30/2028	111.52065	108.4935944	105.5657568	102.7333426	99.99272666	97.34044202	94.77317194	92.28774264	89.88111626
ADV1017075	7/7/2025	3.989	7/7/2027	107.50604	105.526719	103.5941561	101.7069647	99.86380517	98.06338648	96.30446402	94.58583763	92.9063497
ADV1017701	7/30/2025	3.977	7/31/2028	111.81028	108.6939684	105.6825664	102.7719544	99.9581962	97.23753225	94.606371	92.06128023	89.59897901
ADV1016857	6/27/2025	3.846	12/27/2028	112.96439	109.4138174	105.995681	102.7043383	99.534416	96.48079705	93.53860753	90.70320356	87.97015923
ADV1017123	7/8/2025	4.298	4/8/2026	102.70132	102.0016982	101.3116272	100.6309132	99.9593665	99.29680245	98.64304142	97.99790852	97.36123349
ADV1016847	6/27/2025	3.868	6/27/2029	114.94626	110.844365	106.9142854	103.1479113	99.53756165	96.07595628	92.75619249	89.57172358	86.51633859
ADV1015747	5/21/2025	4.106	11/23/2026	105.16227	103.8252606	102.5139197	101.2275273	99.96539387	98.72685577	97.51127359	96.31803116	95.14653448
ADV1015575	5/16/2025	4.388	11/17/2025	101.20208	100.894597	100.5889786	100.2852029	99.98325319	99.68311303	99.38476606	99.08819617	98.79338744
ADV1017289	7/14/2025	4.274	4/16/2026	102.76892	102.0469981	101.3352426	100.6334401	99.94138245	99.25886729	98.58569788	97.92168285	97.26663602
ADV1015508	5/14/2025	4.179	5/14/2026	103.05286	102.251864	101.4633547	100.6870371	99.92262956	99.16985899	98.42846063	97.6981777	96.97876112
ADV1016848	6/27/2025	4.465	9/29/2025	100.66835	100.5005127	100.3332352	100.1665114	100.0003385	99.83471388	99.66963475	99.50509847	99.34110238
ADV1017074	7/7/2025	4.059	1/7/2027	105.52554	104.0681926	102.6383449	101.2352851	99.85832581	98.50680237	97.18007235	95.87751449	94.59852781
ADV1015771	5/22/2025	4.478	8/22/2025	100.25537	100.1937376	100.1321952	100.0707421	100.0093782	99.94810312	99.88691682	99.82581906	99.76480964
ADV1017603	7/28/2025	4.572	8/28/2025	100.31796	100.2401094	100.1623897	100.0847958	100.0073272	99.92998371	99.85276501	99.77567082	99.69870084
ADV1017688	7/30/2025	4.555	8/29/2025	100.32758	100.2469674	100.1664878	100.0861406	100.0059254	99.925842	99.84589	99.7660691	99.686379
ADV1017202	7/10/2025	4.021	3/10/2027	106.2051	104.5662404	102.9608736	101.3880417	99.84682048	98.33632053	96.85568574	95.40409159	93.98074376
ADV1015261	5/6/2025	4.011	4/30/2030	118.65271	113.6039058	108.8044089	104.2404862	99.89923744	95.768544	91.83701676	88.09394763	84.52926477
ADV1017245	7/11/2025	4.51	8/11/2025	100.12619	100.0955992	100.06504	100.0345158	100.0040266	99.97357237	99.94315298	99.91276839	99.88241853

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017189	7/10/2025	4.502	9/10/2025	100.4606	100.3462575	100.232188	100.1183905	100.004864	99.89160763	99.77862025	99.66590092	99.55344862
ADV1017659	7/29/2025	3.959	7/29/2027	107.68485	105.6440155	103.6528031	101.709695	99.8132286	97.96199607	96.15464179	94.38986008	92.66639299
ADV1016424	6/13/2025	4.212	6/15/2026	103.37406	102.4841574	101.6096135	100.7500342	99.90503731	99.07425335	98.25732533	97.45390812	96.66366798
ADV1017090	7/7/2025	3.989	7/7/2027	107.50604	105.526719	103.5941561	101.7069647	99.86380517	98.06338648	96.30446402	94.58583763	92.9063497
ADV1017523	7/23/2025	4.533	8/20/2025	100.22596	100.1703674	100.1148517	100.0594134	100.0040524	99.94876868	99.89356193	99.83843203	99.78337881
ADV1017639	7/29/2025	4.579	8/29/2025	100.32968	100.2490583	100.1685669	100.0882079	100.007981	99.92788578	99.84792205	99.76808945	99.68838767
ADV1016638	6/23/2025	4.525	6/25/2035	137.91659	126.8873649	116.8819294	107.7984057	99.54559493	92.04180568	85.213817	78.99595952	73.32930031
ADV1017568	7/25/2025	4.541	8/25/2025	100.28231	100.2127977	100.1433955	100.0740998	100.0049104	99.9358269	99.86684919	99.79797699	99.72921007
ADV1017621	7/28/2025	4.57	8/28/2025	100.3178	100.2399538	100.1622343	100.0846405	100.007172	99.92982865	99.85261009	99.77551604	99.69854619
ADV1016471	6/16/2025	4.148	6/16/2026	103.3898	102.4962021	101.6180849	100.7550513	99.90671452	99.07270084	98.25264916	97.44621041	96.6530471
ADV1015468	5/13/2025	4.234	5/13/2026	103.03009	102.2327034	101.447688	100.6747588	99.91363788	99.16405555	98.4257504	97.69846888	96.98196495
ADV1017127	7/8/2025	4.506	8/1/2025	100.01509	100.0123141	100.0095369	100.0067621	100.0039897	100.0012197	99.99845218	99.99568703	99.99292427
ADV1017378	7/16/2025	4.532	8/18/2025	100.20464	100.1545757	100.1045747	100.0546408	100.0047737	99.95497337	99.90523969	99.8555725	99.80597165
ADV1017267	7/14/2025	4.344	2/12/2026	102.14089	101.5883471	101.0417441	100.5009902	99.96599197	99.43665782	98.91289811	98.39462509	97.88175285
ADV1017236	7/11/2025	4.509	9/3/2025	100.38292	100.2881523	100.1935695	100.0991694	100.0049514	99.91091486	99.81705937	99.72338437	99.62988931
ADV1017584	7/25/2025	4.501	10/27/2025	100.98538	100.7395299	100.4948811	100.2514219	100.0091439	99.76803841	99.5280969	99.28931097	99.05167228
ADV1015963	5/29/2025	4.481	8/22/2025	100.25439	100.1928138	100.1313239	100.0699233	100.0086118	99.94738904	99.88625498	99.82520939	99.76425207
ADV1016074	5/30/2025	4.01	12/30/2026	105.46228	104.0253607	102.6151859	101.2310771	99.8723744	98.53843931	97.22865451	95.94242272	94.67916593
ADV1017651	7/29/2025	4.202	7/29/2026	103.85117	102.8375194	101.8437016	100.8691365	99.91326785	98.97556096	98.05550118	97.15259323	96.2663602
ADV1015336	5/8/2025	4.448	9/18/2025	100.55247	100.4146975	100.2773112	100.1403113	100.0036961	99.86746395	99.73161321	99.59614224	99.46104941
ADV1015117	5/1/2025	4.477	8/1/2025	100.02656	100.0237576	100.020957	100.0181589	100.0153632	100.0125699	100.0097791	100.0069907	100.0042047
ADV1017481	7/22/2025	4.533	8/22/2025	100.24858	100.1874081	100.1263245	100.0653296	100.0044231	99.94360485	99.8828747	99.82223243	99.76167784
ADV1015403	5/12/2025	4.486	8/12/2025	100.14665	100.1130268	100.0794396	100.0458918	100.0123835	99.97891439	99.94548456	99.91209388	99.8787423
ADV1015873	5/27/2025	4.086	5/29/2029	115.49047	111.4605316	107.5960856	103.8894629	100.3333918	96.920973	93.64565953	90.50123619	87.48180125
ADV1017695	7/30/2025	4.539	9/29/2025	100.6754	100.5082203	100.3415989	100.1755289	100.0100078	99.84503265	99.68060092	99.51670992	99.35335699
ADV1016217	6/5/2025	4.471	9/5/2025	100.40738	100.3065851	100.2060015	100.1056263	100.0054587	99.90549799	99.80574364	99.70619493	99.60685121
ADV1017530	7/23/2025	3.897	7/23/2027	107.6395	105.6127117	103.6348734	101.7044955	99.82014519	97.98044251	96.18405855	94.42971298	92.71617191
ADV1017087	7/7/2025	4.51	8/7/2025	100.08224	100.062768	100.0433169	100.023886	100.0044752	99.98508454	99.96571391	99.9463633	99.92703268
ADV1017545	7/24/2025	4.528	8/7/2025	100.0797	100.0602668	100.0408568	100.021467	100.0020973	99.98274759	99.96341792	99.94410823	99.92481848
ADV1016654	6/23/2025	4.413	11/19/2025	101.22643	100.914646	100.6047826	100.2968201	99.99074092	99.68652777	99.38416355	99.08363137	98.78491453
ADV1015740	5/21/2025	4.181	5/22/2026	103.14112	102.3176705	101.507397	100.7099867	99.92513464	99.15254534	98.39193258	97.64301898	96.9055357
ADV1016716	6/24/2025	3.913	12/21/2026	105.22267	103.8118795	102.4269566	101.067255	99.73214477	98.42101673	97.13328128	95.86836775	94.62572364
ADV1015721	5/22/2025	4.171	11/23/2026	105.15444	103.8189625	102.5091009	101.224138	99.96338642	98.7261841	97.51189338	96.31989969	95.14961056

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017177	7/10/2025	3.925	7/10/2029	115.6037	111.4446967	107.4614446	103.6455785	99.98917222	96.48471692	93.12509704	89.90356754	86.81373261
ADV1017278	7/14/2025	4.512	8/15/2025	100.1704	100.1286815	100.0870137	100.0453984	100.0038354	99.96232454	99.9208658	99.87945906	99.8381042
ADV1016052	5/30/2025	4.064	4/30/2027	106.86727	105.0815149	103.3344463	101.6248722	99.95165047	98.3136855	96.70992639	95.13936432	93.6010305
ADV1017432	7/18/2025	4.511	10/20/2025	100.90985	100.6834853	100.4581458	100.233825	100.010516	99.78821175	99.56690554	99.34659057	99.12726012
ADV1016978	7/1/2025	4.463	10/1/2025	100.68959	100.5162179	100.3434436	100.1712601	99.99966444	99.82865353	99.65822443	99.4883742	99.31909989
ADV1015809	5/23/2025	4.473	8/25/2025	100.28803	100.2179813	100.148042	100.07821	100.0084851	99.93886699	99.86935547	99.79995027	99.73065117
ADV1015691	5/20/2025	4.451	9/18/2025	100.55095	100.4133799	100.2761927	100.1393912	100.002974	99.86693918	99.73128526	99.59601056	99.46111345
ADV1016582	6/18/2025	4.335	2/18/2026	102.20208	101.6392153	101.0825616	100.5320182	99.98748452	99.44886249	98.91605599	98.38897104	97.86751564
ADV1017120	7/8/2025	3.989	6/16/2028	111.36801	108.38283	105.494318	102.6988238	99.99285577	97.37307279	94.83627668	92.37940544	89.99952659
ADV1016050	5/30/2025	4.429	10/30/2025	101.00961	100.7536373	100.4989474	100.2455316	99.99338046	99.74248455	99.49283454	99.2444212	98.99723537
ADV1015985	5/29/2025	4.428	10/29/2025	100.99845	100.7452835	100.4933714	100.242708	99.99328393	99.74509013	99.49811749	99.25235704	99.00779989
ADV1016593	6/20/2025	4.149	6/22/2026	103.45687	102.5463816	101.6519529	100.773163	99.90960367	99.06088099	98.2266144	97.40643631	96.59999152
ADV1017428	7/18/2025	4.533	8/18/2025	100.20436	100.1543	100.1043115	100.05439	100.0045354	99.95474749	99.90502623	99.85537145	99.805783
ADV1017119	7/8/2025	4.334	3/9/2026	102.40593	101.7900314	101.1815625	100.5803849	99.98636771	99.39938342	98.81930737	98.24601786	97.67939606
ADV1016734	6/24/2025	3.927	6/25/2029	115.15872	111.0583563	107.129472	103.3639854	99.75424072	96.29298132	92.97332616	89.78874862	86.73305635
ADV1017220	7/10/2025	4.212	6/10/2026	103.3191	102.4432384	101.5822636	100.7357965	99.90347193	99.08493718	98.27985102	97.48788345	96.7087152
ADV1016810	6/26/2025	4.075	6/26/2026	103.36825	102.4480549	101.5442706	100.6564615	99.78420623	98.92709829	98.08474517	97.25676785	96.4428002
ADV1016181	6/4/2025	4.203	6/4/2026	103.24619	102.3872251	101.5425824	100.7119028	99.89484178	99.09106601	98.30025303	97.52209073	96.75627695
ADV1017301	7/14/2025	4.192	7/14/2026	103.6768	102.7054276	101.7523034	100.8169191	99.89878189	98.99741719	98.11236768	97.24319252	96.38946668
ADV1017450	7/21/2025	4.517	10/21/2025	100.92204	100.6929436	100.4648969	100.2378926	100.0119236	99.78698269	99.56306288	99.34015714	99.11825853
ADV1016239	7/1/2025	3.987	6/30/2028	111.5177	108.490687	105.5628919	102.7305192	99.98994387	97.3376988	94.77046733	92.28507573	89.87848617
ADV1017088	7/7/2025	4.196	7/7/2026	103.60391	102.6522285	101.7180702	100.8009566	99.90042371	99.01602414	98.14732656	97.29391487	96.45538759
ADV1017295	7/14/2025	4.057	1/14/2027	105.60122	104.1243878	102.6757749	101.254641	99.8602721	98.49197841	97.14909335	95.83097262	94.53699325
ADV1017029	7/2/2025	3.899	7/2/2027	107.27652	105.3130586	103.3956843	101.5230336	99.6937952	97.90670485	96.16054347	94.45413518	92.7863455
ADV1017740	7/31/2025	4.52	8/14/2025	100.15667	100.1178188	100.0790141	100.040257	100.0015476	99.96288578	99.92427139	99.88570436	99.84718459
ADV1016487	6/16/2025	4.501	8/18/2025	100.20812	100.1578696	100.1076832	100.0575641	100.0075122	99.95752729	99.90760925	99.85775793	99.80797322
ADV1017683	7/30/2025	4.5	10/28/2025	100.99561	100.7471072	100.4998231	100.2537532	100.0088886	99.76522035	99.52273985	99.28143837	99.04130733
ADV1015928	5/28/2025	4.403	11/28/2025	101.3281	100.9897605	100.6536529	100.319759	99.9880569	99.65852517	99.33114258	99.00588818	98.68274129
ADV1016795	6/26/2025	3.856	12/28/2026	105.21987	103.7901662	102.38699	101.0096676	99.65754605	98.32999432	97.02640185	95.74617787	94.48875066
ADV1016077	5/30/2025	4.309	2/27/2026	102.28144	101.6935223	101.1123623	100.5378479	99.96986531	99.4083037	98.85305458	98.30401191	97.76107201
ADV1016763	6/25/2025	4.513	8/1/2025	100.01735	100.0145654	100.0117836	100.0090043	100.0062274	100.0034529	100.0006809	99.99791121	99.99514395
ADV1017626	7/28/2025	4.564	8/4/2025	100.04578	100.0346834	100.0235998	100.0125268	100.0014644	99.99041249	99.97937111	99.96834022	99.95731982
ADV1016773	6/25/2025	4.124	6/25/2026	103.40243	102.484815	101.5835208	100.6981113	99.82816876	98.97329008	98.13308595	97.30718044	96.49521035

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1015918	5/28/2025	4.33	3/25/2026	102.57009	101.9095355	101.2575086	100.613841	99.97837246	99.3509468	98.73141182	98.11961915	97.51542409
ADV1016992	7/1/2025	4.51	8/1/2025	100.01631	100.0135264	100.0107467	100.0079695	100.0051947	100.0024223	99.9996523	99.99688471	99.99411953
ADV1015929	5/28/2025	4.346	2/27/2026	102.30326	101.7152601	101.1340198	100.5594257	99.99136428	99.4297245	98.8743979	98.32527844	97.78226244
ADV1017690	7/30/2025	4.552	8/13/2025	100.14681	100.1107302	100.0746947	100.0387026	100.0027538	99.96684809	99.93098548	99.89516587	99.85938917
ADV1017462	7/21/2025	4.534	8/21/2025	100.23758	100.1791895	100.1208791	100.0626518	100.0045073	99.94644549	99.88846614	99.83056909	99.77275417
ADV1016053	5/30/2025	4.004	5/30/2028	111.22036	108.285324	105.4439257	102.6926813	100.0282527	97.44744386	94.94719357	92.52456943	90.1767615
ADV1017374	7/16/2025	4.519	8/1/2025	100.01377	100.01099	100.0082156	100.0054436	100.0026739	99.99990671	99.9971419	99.99437949	99.99161947
ADV1015965	5/29/2025	4.13	5/29/2030	119.50165	114.351777	109.4596539	104.8110122	100.3924418	96.19133935	92.19585502	88.3948441	84.77782138
ADV1016577	6/18/2025	4.499	8/4/2025	100.05187	100.0407191	100.0295803	100.0184522	100.0073346	99.99622765	99.98513126	99.97404542	99.96297012
ADV1017207	7/10/2025	4.5	9/10/2025	100.46037	100.3460287	100.2319595	100.1181625	100.0046364	99.89138039	99.7783934	99.66567445	99.55322254
ADV1016853	6/27/2025	3.86	6/28/2027	107.15384	105.2025799	103.2968786	101.435399	99.61685126	97.83999168	96.10362076	94.40658125	92.74775643
ADV1017535	7/23/2025	4.514	10/23/2025	100.94365	100.7089887	100.4754254	100.2429529	100.0115637	99.78125	99.5520044	99.32381941	99.09668764
ADV1017720	7/31/2025	4.522	9/11/2025	100.47065	100.3538136	100.237262	100.1209951	100.0050118	99.88931113	99.77389188	99.65875304	99.54389355
ADV1016942	6/30/2025	4.078	6/30/2026	103.41327	102.4818437	101.5672153	100.668936	99.78657004	98.919697	98.06791117	97.2308209	96.40804798
ADV1017641	7/29/2025	4.58	8/12/2025	100.13664	100.1033329	100.0700672	100.0368406	100.0036531	99.97050439	99.9373946	99.90432358	99.87129128
ADV1016383	6/12/2025	4.328	1/15/2026	101.83268	101.3582893	100.8882881	100.4226148	99.96120976	99.50401439	99.05097115	98.60202356	98.15711617
ADV1016265	6/6/2025	4.178	6/6/2030	119.81893	114.6387035	109.7187316	105.0445566	100.602595	96.38008267	92.36502068	88.54612601	84.91278519
ADV1017069	7/7/2025	4.509	8/7/2025	100.08222	100.0627477	100.0432966	100.0238657	100.004455	99.98506428	99.96569366	99.94634307	99.92701246
ADV1015804	5/23/2025	4.242	5/26/2026	103.17684	102.3429797	101.5226282	100.7154551	99.92114431	99.1393898	98.36989519	97.61237335	96.86654607
ADV1016851	6/27/2025	3.909	6/27/2030	118.68995	113.4770076	108.5292531	103.8317799	99.37059577	95.132562	91.10533667	87.2773225	83.6376182
ADV1017502	7/22/2025	4.162	7/22/2026	103.73482	102.7410822	101.7664313	100.8103209	99.87222476	98.95163661	98.04806887	97.16105196	96.29013345
ADV1017269	7/14/2025	4.118	9/17/2026	104.31788	103.1636881	102.0351061	100.931291	99.85143308	98.79475721	97.7605216	96.74801579	95.75655904
ADV1016521	6/27/2025	4.055	6/27/2029	115.68542	111.5690257	107.6248927	103.8448943	100.221333	96.74691272	93.41471559	90.2181805	87.1510827
ADV1016184	6/4/2025	4.001	6/4/2027	107.15375	105.2698044	103.4284703	101.6285383	99.86883802	98.14823944	96.46565137	94.82001989	93.21032676
ADV1016723	6/25/2025	3.875	9/27/2027	108.17815	105.9658924	103.8102873	101.7094824	99.66169987	97.66523375	95.71844697	93.81976773	91.96768636
ADV1016017	5/29/2025	4.251	5/29/2026	103.21657	102.3742734	101.5457449	100.7306506	99.92866537	99.13947445	98.36277322	97.59826662	96.84566881
ADV1015681	5/20/2025	4.07	5/21/2027	107.11906	105.2738293	103.4696187	101.7052319	99.97952168	98.29138238	96.63974861	95.02359324	93.44192571
ADV1016313	6/9/2025	4.387	12/9/2025	101.44488	101.0757645	100.7093246	100.345527	99.98434316	99.62574488	99.26970438	98.91619428	98.5651876
ADV1015385	5/9/2025	3.931	5/10/2027	106.87381	105.0585106	103.28307	101.5462915	99.84702796	98.18417698	96.5566787	94.96351372	93.40370114
ADV1017582	7/25/2025	4.542	8/25/2025	100.28238	100.2128673	100.1434651	100.0741693	100.0049798	99.93589625	99.86691848	99.79804622	99.72927924
ADV1016193	6/4/2025	4.77	6/4/2037	144.15223	130.9216041	119.1159932	108.5711605	99.1427152	90.70361698	83.14200664	76.35931762	70.26863106
ADV1015393	5/12/2025	4.106	5/12/2027	107.08236	105.2619813	103.481621	101.7400913	100.036247	98.36898725	96.73725306	95.14002542	93.57632337
ADV1017101	7/7/2025	4.483	10/29/2025	101.00622	100.7542019	100.5034329	100.2539068	100.0056145	99.75854688	99.51269487	99.26804954	99.02460205

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7/31/2025				Price									
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1015317	5/8/2025	4.08	5/8/2026	102.91076	102.1269475	101.3550968	100.5949364	99.84620172	99.10863624	98.38199096	97.66602429	96.96050172
ADV1017249	7/11/2025	4.514	10/10/2025	100.79858	100.600139	100.4024905	100.2056286	100.0095486	99.81424567	99.61971525	99.42595264	99.23295324
ADV1017184	7/10/2025	4.311	3/10/2026	102.40188	101.7832354	101.1720845	100.5682903	99.97172011	99.3822447	98.79973774	98.22407591	97.65513882
ADV1015850	5/27/2025	4.476	8/29/2025	100.3318	100.2505565	100.1694442	100.0884653	100.0076195	99.92690652	99.84632595	99.76587753	99.68556094
ADV1017728	7/31/2025	4.526	8/29/2025	100.32508	100.2444759	100.1640084	100.0836731	100.0034699	99.92339846	99.84345839	99.76364941	99.68397121
ADV1016762	6/25/2025	4.47	9/25/2025	100.62524	100.4686055	100.3124643	100.156813	100.0016493	99.846971	99.69277571	99.5390612	99.3858252
130416A00025	4/16/2013	2.27	4/18/2028	100.14826	100.0677374	99.74429912	98.78592664	97.53003367	96.22749561	94.94844329	93.69842959	92.47663808
151223A00007	12/23/2015	3.76	12/23/2030	100.2624	100.1818462	100.0929529	99.50002361	97.36531497	94.01280916	90.17608311	86.39422187	82.80239021
161012A00020	10/11/2016	2.96	10/14/2031	100.20381	100.1201491	99.57976082	97.37247131	93.67541372	89.39671555	85.14158227	81.11382451	77.32198701
170515A00052	5/15/2017	3.78	5/15/2042	100.00207	99.99935788	99.61500095	96.95063181	92.19085582	86.52768952	80.89756007	75.69831167	70.98746824
170519A00006	5/19/2017	3	5/19/2032	100.20703	100.1264623	99.93052339	98.70539132	96.33531521	93.47568562	90.58996643	87.82371026	85.18474828
170705A00037	7/5/2017	2.85	7/6/2032	104.47442	102.6886724	100.7357514	98.42190293	95.66486188	92.69148937	89.7596914	86.96256073	84.30088582
170802A00074	8/2/2017	2.92	8/2/2027	100.19434	100.1128577	99.99592427	99.28684202	97.94659835	96.36900786	94.78162289	93.23005429	91.71463136
170809A00042	8/9/2017	2.35	8/9/2027	100.1547	100.0741786	99.84188124	99.09228091	98.11449469	97.10711306	96.11583123	95.14349656	94.18961221
171004A00022	10/4/2017	2.74	10/4/2027	100.18609	100.1055432	99.94965468	99.10615349	97.60367684	95.86806591	94.13067654	92.43485112	90.78058959
171005A00047	10/5/2017	3.29	10/5/2032	100.23038	100.1497922	99.89366494	98.26612717	95.06260299	91.08744692	87.03425541	83.18312755	79.56439984
180105A00005	1/5/2018	3.07	1/5/2028	100.21268	100.1321043	100.0430396	99.63852477	98.68322697	97.5220385	96.34048197	95.18216084	94.04835505
180105A00006	1/5/2018	3.07	1/5/2028	100.21268	100.1321043	100.0430396	99.63852477	98.68322697	97.5220385	96.34048197	95.18216084	94.04835505
180130A00087	1/30/2018	2.92	1/31/2028	100.2006	100.1200353	100.0203164	99.50482289	98.47049618	97.26271878	96.04695391	94.85644111	93.69168028
180302A00003	3/2/2018	3.89	3/2/2033	100.2787	100.1980653	100.0870606	99.18153586	96.39181206	92.26289967	87.65688742	83.17371097	78.97691014
180315A00030	3/15/2018	3.76	3/15/2033	100.00193	99.99919698	99.94116304	98.72522195	95.48876628	91.07677653	86.34944704	81.81201472	77.57226606
180504A00024	5/4/2018	3.62	5/4/2028	100.0016	99.99887928	99.99616474	99.79439597	98.5229992	96.44571852	94.07069216	91.71814101	89.43676933
180627A00005	6/27/2018	3.63	6/30/2033	100.25776	100.1771493	100.0864734	99.48239899	97.4609584	94.4856653	91.22234085	88.05199853	85.04366003
180703A00033	7/3/2018	3.4	7/3/2028	100.23344	100.1529034	100.0725039	99.77581941	98.82181449	97.50458268	96.10868489	94.73744273	93.39900114
190111A00040	1/11/2019	3.74	1/11/2034	100.00182	99.99907296	99.93552384	98.67657108	95.46725201	91.18969249	86.6635636	82.33917988	78.30606909
190116A00015	1/16/2019	3.61	1/17/2034	100.25033	100.1697831	100.0612931	99.2303569	96.89938736	93.6597485	90.2018634	86.87151345	83.7224527
190204A00054	2/4/2019	3.98	2/6/2034	100.28012	100.199546	100.0663683	98.92686194	95.7762844	91.28087826	86.35230644	81.5899575	77.15896593
190222A00023	2/22/2019	3.66	2/22/2034	102.1404	101.357549	100.1657203	97.80300506	93.7590574	88.66447543	83.39524738	78.40873684	73.7920032
190301A00015	3/1/2019	3.86	3/1/2034	102.22071	101.5366926	100.5124485	98.46166728	94.75764359	89.86555728	84.64261426	79.64720905	75.01661297
190409A00016	4/9/2019	2.91	4/9/2029	100.19978	100.1192199	99.95327488	98.9142312	96.85214911	94.32087623	91.73934665	89.24105183	86.83389114
190409A00017	4/9/2019	3.01	4/9/2029	100.20783	100.1272639	99.9794774	98.98118144	96.83708792	94.10901224	91.28889477	88.5576955	85.92969599
190430A00020	4/30/2019	3.41	4/28/2034	102.21962	101.2563693	99.71639389	96.76201855	92.16578149	86.77367383	81.38297291	76.33736907	71.67784588
190520A00018	5/20/2019	3.7	5/20/2044	99.995968	99.98028912	99.03612342	95.48997094	90.02846677	83.9074261	77.97895418	72.5614975	67.68995811

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
190530A00044	5/30/2019	2.85	5/30/2034	100.19495	100.1101001	99.5595293	97.4656257	94.19613255	90.56040813	87.00999424	83.65485651	80.49250258
190807A00041	8/7/2019	2.27	8/7/2034	100.14825	99.92918125	98.43987842	95.44811678	91.76811048	88.06450998	84.54613774	81.23398782	78.11529538
190807A00044	8/7/2019	2.27	8/7/2034	100.14825	99.92918125	98.43987842	95.44811678	91.76811048	88.06450998	84.54613774	81.23398782	78.11529538
190827A00044	8/27/2019	1.9	8/27/2029	100.11846	100.0004506	99.20811349	97.65204169	95.79878103	93.93428794	92.12194215	90.3649358	88.66120221
190930A00079	9/30/2019	2.04	10/1/2029	100.12973	100.0248417	99.35114292	97.82798172	95.93245239	93.99876282	92.11715373	90.29467161	88.52915192
190930A00083	9/30/2019	2.04	10/1/2029	100.12973	100.0248417	99.35114292	97.82798172	95.93245239	93.99876282	92.11715373	90.29467161	88.52915192
191007A00012	10/7/2019	2	10/5/2029	100.1207	100.0043172	99.21823932	97.62951975	95.71644347	93.78608077	91.91046059	90.09381742	88.33391525
191007A00013	10/7/2019	2	10/5/2029	100.1207	100.0043172	99.21823932	97.62951975	95.71644347	93.78608077	91.91046059	90.09381743	88.33391525
191028A00015	10/28/2019	2.49	10/27/2034	100.16596	100.028159	98.87913006	96.11223617	92.47351488	88.70760369	85.10859505	81.72175313	78.53574484
191031A00036	10/31/2019	2.9	10/31/2039	100.19316	99.91198637	97.98864935	93.98609337	88.88836583	83.68861522	78.81745366	74.3523759	70.26507652
191031A00037	10/31/2019	2.59	10/30/2034	100.1682	100.0345144	98.92439862	96.18054268	92.53601361	88.74927986	85.12739123	81.71989593	78.51566636
191220A00029	12/20/2019	2.57	12/19/2031	100.16659	100.0797062	99.55455422	97.79845327	95.23240033	92.46120734	89.75771263	87.17067953	84.69668321
200108A00009	1/8/2020	2.4	1/8/2035	99.998158	99.90341012	98.37941696	95.2123349	91.28232448	87.31422087	83.55297204	80.02775917	76.72363422
200108A00040	1/8/2020	2.52	1/8/2030	100.16256	100.0692072	99.43195191	97.40499654	94.42132127	91.16471003	87.97383159	84.91973455	82.00000065
200110A00012	1/10/2020	2.57	1/10/2035	100.16659	100.0247763	98.83321335	95.9993825	92.28519286	88.44550931	84.77986088	81.33475283	78.09821876
200115A00023	1/15/2020	2.16	1/15/2030	100.13358	100.0312824	99.37319288	97.81022504	95.82861121	93.79478595	91.81604661	89.90227857	88.05109291
200306A00021	3/6/2020	1.16	3/6/2030	100.03176	99.34987426	97.68212286	95.58785239	93.45894105	91.39418107	89.39985312	87.47324372	85.6114837
200309A00013	3/9/2020	1.1	3/8/2030	100.02101	99.27323326	97.56032529	95.45297298	93.32520871	91.26322878	89.27167113	87.34774381	85.48858068
200316A00030	3/16/2020	1.35	3/15/2030	100.07074	99.63027251	98.18159878	96.15752576	94.02551237	91.94604148	89.93692823	87.99611572	86.12071276
200316A00032	3/16/2020	1.35	3/15/2030	100.07074	99.63027251	98.18159878	96.15752576	94.02551237	91.94604148	89.93692823	87.99611572	86.12071276
200318A00015	3/18/2020	1.69	3/18/2030	99.99624	99.86856207	98.73795594	96.83544227	94.69194176	92.57170114	90.52278965	88.54577734	86.63756235
200326A00035	3/26/2020	1.68	3/26/2030	100.09493	99.84070341	98.64524046	96.73394683	94.61533447	92.52667307	90.50685506	88.55563292	86.67012625
200423A00008	4/23/2020	1.59	4/23/2030	99.995976	99.49437424	97.32230726	93.97944773	90.2880689	86.67591897	83.2284704	79.94482909	76.81636218
200423A00009	4/23/2020	1.59	4/23/2030	99.995976	99.49437424	97.32230726	93.97944773	90.2880689	86.67591897	83.2284704	79.94482909	76.81636218
200423A00010	4/23/2020	1.59	4/23/2030	99.995976	99.49437424	97.32230726	93.97944773	90.28806891	86.67591897	83.2284704	79.94482909	76.81636218
200430A00021	4/30/2020	1.2	4/30/2030	100.03694	99.3723957	97.68329356	95.53168653	93.33440118	91.20369166	89.14765003	87.16340561	85.24784055
200505A00010	5/5/2020	0.89	5/6/2030	99.977379	99.04113871	97.16681403	94.96545568	92.77151319	90.65068928	88.60455335	86.62995104	84.72377295
200512A00023	5/12/2020	1.78	5/11/2035	99.886931	98.26308626	94.48157176	89.50835354	84.35548248	79.48405576	74.98055156	70.82750386	66.99442063
200609A00003	6/9/2020	1.66	6/8/2035	99.689669	97.32824079	92.81914208	87.2373002	81.58946971	76.30352551	71.44917881	66.99992504	62.91859525
200612A00001	6/12/2020	0.75	6/12/2030	99.920119	98.80158996	96.80459429	94.55087883	92.32866359	90.18363565	88.11529332	86.12029424	84.19541086
201022A00008	10/22/2020	1.02	10/22/2035	99.568042	97.15525483	93.31448331	89.05919008	84.9468703	81.09463991	77.49701117	74.13479291	70.9896587
201029A00008	10/29/2020	0.92	10/29/2030	99.990873	98.88017093	96.82955912	94.45234913	92.09508369	89.82251378	87.63557626	85.53040661	83.50322951
201030A00025	10/30/2020	2.02	10/28/2050	98.882942	94.8910084	88.42819824	80.86861791	73.44137777	66.72223027	60.85167012	55.75694293	51.32298545

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
201116A00019	11/16/2020	1.32	11/15/2030	100.19047	98.81635795	95.98990627	92.31207345	88.52797526	84.89830537	81.45310431	78.18391511	75.08063289
201118A00015	11/18/2020	1.66	11/18/2036	100.76921	96.22821759	90.45082183	84.00023214	77.65610355	71.80657751	66.50698786	61.71339944	57.37300127
201118A00017	11/18/2020	1.66	11/18/2036	100.76921	96.22821759	90.45082183	84.00023214	77.65610355	71.80657751	66.50698786	61.71339944	57.37300127
201118A00018	11/18/2020	1.85	11/18/2036	101.27808	96.89636455	91.28122358	84.90670654	78.55602751	72.67004363	67.33069854	62.49961779	58.12416301
201202A00016	12/2/2020	1.32	12/3/2035	99.925566	97.81368098	94.1834638	89.93023921	85.74135347	81.80645635	78.1336533	74.70409486	71.49863036
201202A00017	12/2/2020	1.32	12/3/2035	99.925566	97.81368097	94.1834638	89.93023921	85.74135347	81.80645635	78.1336533	74.70409486	71.49863036
201229A00003	12/29/2020	1.28	12/30/2030	100.14301	98.66569212	95.7094309	91.94421346	88.10135131	84.42462231	80.93880413	77.63450256	74.501087
201230A00018	12/30/2020	1.52	12/28/2035	100.7522	96.25831895	90.61461646	84.37347313	78.25746687	72.60453324	67.45561249	62.77113593	58.50536538
210108A00007	1/8/2021	1.65	1/8/2036	99.745276	96.91929293	92.1161727	86.30335462	80.47730188	75.05324341	70.09366948	65.56671379	61.43077061
210225A00010	2/25/2021	2.02	2/25/2041	100.27409	97.81643868	93.45844585	87.91714928	82.26722884	77.00055928	72.20649443	67.8530188	63.89335974
210405A00013	4/5/2021	1.82	4/7/2036	100.79163	99.05050903	95.97625337	91.85913281	87.53651407	83.41615263	79.56936379	75.98381644	72.63873612
210622A00004	6/22/2021	2.42	6/20/2036	101.3589	99.18254932	95.45237232	90.15455985	84.25102948	78.52706483	73.25116467	68.44255419	64.06019211
210623A00024	6/23/2021	1.56	6/23/2026	99.990118	99.91086924	99.25567217	98.4014581	97.54778583	96.70869654	95.88398398	95.07328276	94.27623754
210910A00009	9/10/2021	1.77	9/10/2036	101.27781	99.10406409	95.7695842	91.49968066	87.04081959	82.799452	78.84904077	75.17588178	71.75724119
210924A00016	9/24/2021	1.91	9/24/2036	101.52049	99.47231042	96.32681173	92.15916111	87.70600285	83.43752967	79.45670639	75.7549992	72.30980682
211019A00005	10/19/2021	2.49	10/20/2036	102.11712	99.67871187	95.85557767	90.55517498	84.57264195	78.72252329	73.324399	68.41350049	63.94813549
211110A00017	11/10/2021	2.01	11/10/2036	101.93873	99.78787091	96.6257851	92.46816931	87.97325453	83.6421821	79.60194015	75.84816623	72.35768153
211116A00012	11/16/2021	2.22	12/18/2034	102.35691	100.5903717	98.12575713	94.76236439	90.93094553	87.13809831	83.55131835	80.18161889	77.01448439
211124A00008	11/24/2021	2.62	11/22/2041	102.53769	100.0836989	96.3535613	91.22297119	85.43016569	79.77970006	74.58885986	69.88750719	65.63086701
211215A00020	12/15/2021	1.85	12/15/2031	102.04971	100.4719562	98.46259228	95.91336606	93.11278426	90.35315617	87.70898863	85.18138353	82.76421872
211227A00012	12/27/2021	2.39	12/29/2036	105.2071	100.5199989	95.00217612	88.7802966	82.31494774	76.13462909	70.47748026	65.35858983	60.72758365
220217A00024	2/17/2022	2.43	2/17/2027	99.992386	99.98971977	99.766627	98.78952569	97.46728766	96.08949484	94.73308967	93.40270695	92.09766551
220831A00108	8/31/2022	4.07	8/31/2027	100.87691	100.6261025	100.3757777	100.0820783	99.40395214	98.10148735	96.48557473	94.85125408	93.25546612
221212A00004	12/12/2022	4.36	12/10/2032	109.26718	107.0222135	104.7837135	102.4834953	100.0053018	97.26239745	94.25016066	91.18216849	88.23828618
221214A00057	12/14/2022	4.65	12/14/2027	102.14272	101.6192311	101.0997406	100.5673593	99.88551522	98.68565575	96.83823529	94.77554726	92.74883395
221222A00137	12/22/2022	5.4	12/22/2037	111.8804	109.387357	106.8346749	104.112649	101.010407	97.35836384	93.09300555	88.51226816	84.09165982
240403A00012	4/3/2024	4.82	4/3/2029	108.15285	106.3426128	104.5615201	102.7840385	100.9339851	98.88582608	96.48160129	93.81970867	91.18587395
ADV1007645	7/5/2024	4.781	7/5/2029	108.15181	106.3432927	104.5632703	102.7843713	100.9306516	98.88955642	96.51847821	93.89810287	91.29995291
ADV1007841	7/12/2024	0	7/12/2029	98.60418	95.66580811	92.12411218	88.61511734	85.24904175	82.02601446	78.93936222	75.98266304	73.149818
ADV1007842	7/12/2024	0	7/12/2029	98.60418	95.66580811	92.12411218	88.61511734	85.24904175	82.02601446	78.93936222	75.98266304	73.149818
ADV1007970	7/17/2024	0	7/17/2029	98.603688	95.65072672	92.09614335	88.57641961	85.20074592	81.96900052	78.87443908	75.91058019	73.07126974
ADV1008036	7/19/2024	0	7/19/2029	98.603476	95.64468395	92.08495584	88.56094639	85.18143659	81.94620729	78.84848586	75.88176711	73.03987488
ADV1008090	7/23/2024	0	7/23/2029	98.603027	95.63257996	92.06258299	88.53001006	85.14283336	81.90064198	78.7966069	75.82417528	72.97712703

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	Parallel-Shift Sensitivity Analysis												
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1008152	7/24/2024	0	7/24/2029	98.602909	95.62954996	92.05699018	88.52227807	85.13318576	81.88925506	78.78364288	75.80978447	72.96144878
ADV1008200	7/25/2024	0	7/25/2029	98.60279	95.62651829	92.05139752	88.51454693	85.12353945	81.87786989	78.77068114	75.79539653	72.94577403
ADV1008212	7/26/2024	0	7/26/2029	98.602668	95.62348492	92.045805	88.50681661	85.11389442	81.86648649	78.7577217	75.78101144	72.93010275
ADV1008308	7/31/2024	0	7/31/2029	98.601266	95.60809891	92.01782364	88.46817693	85.06568855	81.80959587	78.69295877	75.70912887	72.85179862
ADV1008367	8/1/2024	0	8/1/2029	98.560732	95.59263309	92.01086893	88.46042697	85.05598094	81.79804516	78.67971413	75.69432927	72.83557302
ADV1008427	8/2/2024	0	8/2/2029	98.560747	95.58976117	92.00538474	88.45272633	85.04627492	81.78649626	78.66647188	75.67953271	72.81935117
ADV1008515	8/6/2024	0	8/6/2029	98.560786	95.57826147	91.98344889	88.42193195	85.00746389	81.74031887	78.6135269	75.62037684	72.75450124
ADV1008530	8/7/2024	0	8/7/2029	98.560791	95.57538341	91.97796516	88.41423543	84.9977644	81.72877907	78.60029665	75.60559546	72.73829812
ADV1008591	8/9/2024	0	8/9/2029	98.560795	95.56962352	91.96699796	88.39884489	84.97836934	81.70570494	78.57384334	75.57604182	72.70590311
ADV1008654	8/13/2024	0	8/13/2029	98.560783	95.55808861	91.94506498	88.36807397	84.93959486	81.65957848	78.52096549	75.51697093	72.641158
ADV1008769	8/19/2024	0	8/20/2029	98.560703	95.53785346	91.90669051	88.31425741	84.87178973	81.57892713	78.42852145	75.41371356	72.52799793
ADV1008780	8/19/2024	0	8/20/2029	98.560703	95.53785346	91.90669051	88.31425741	84.87178973	81.57892713	78.42852145	75.41371356	72.52799793
ADV1008881	8/22/2024	0	8/22/2029	98.560667	95.53206079	91.89572823	88.29888884	84.85242856	81.55590022	78.4021304	75.38423871	72.49570008
ADV1008893	8/23/2024	0	8/23/2029	98.560646	95.52916331	91.89024736	88.29120582	84.84274993	81.54438949	78.38893846	75.36950582	72.47955676
ADV1008894	8/23/2024	0	8/23/2029	98.560646	95.52916331	91.89024736	88.29120582	84.84274993	81.54438949	78.38893846	75.36950582	72.47955676
ADV1008939	8/26/2024	0	8/27/2029	98.56055	95.51756609	91.8683257	88.26048215	84.80404843	81.4983647	78.3361946	75.3106045	72.41502073
ADV1008940	8/26/2024	0	8/27/2029	98.56055	95.51756609	91.8683257	88.26048215	84.80404843	81.4983647	78.3361946	75.3106045	72.41502073
ADV1009099	8/27/2024	0	8/27/2029	98.56055	95.51756609	91.8683257	88.26048215	84.80404843	81.4983647	78.3361946	75.3106045	72.41502073
ADV1009133	8/28/2024	0	8/28/2029	98.560522	95.51466491	91.86284589	88.25280333	84.79437631	81.48686304	78.32301461	75.29588673	72.39889604
ADV1009166	8/29/2024	0	8/29/2029	98.560393	95.51174471	91.85736531	88.24512527	84.78470549	81.47536319	78.309837	75.28117198	72.38277508
ADV1009167	8/29/2024	0	8/29/2029	98.560393	95.51174471	91.85736531	88.24512527	84.78470549	81.47536319	78.309837	75.28117198	72.38277508
ADV1009212	8/30/2024	0	8/30/2029	98.56024	95.5088106	91.85188359	88.23744804	84.77503598	81.46386515	78.29666179	75.26646025	72.36665784
ADV1009568	9/17/2024	0	9/17/2029	98.519262	95.4446385	91.75193196	88.09857469	84.59971666	81.25516944	78.05746226	74.9994212	72.07424882
ADV1009810	9/24/2024	0	9/24/2029	98.519414	95.42465884	91.71367912	88.04464611	84.53161877	81.17412464	77.96459659	74.89577874	71.96079832
ADV1009878	9/26/2024	0	9/26/2029	98.519444	95.41894538	91.70275275	88.02924571	84.51217413	81.15098556	77.93808537	74.86619423	71.92841792
ADV1010064	10/2/2024	0	10/2/2029	98.47819	95.38852286	91.66794338	87.9826905	84.45373064	81.08164342	77.85880686	74.77787121	71.83187702
ADV1010067	10/2/2024	0	10/2/2029	98.47819	95.38852286	91.66794338	87.9826905	84.45373064	81.08164342	77.85880686	74.77787121	71.83187702
ADV1010068	10/2/2024	0	10/2/2029	98.47819	95.38852286	91.66794338	87.9826905	84.45373064	81.08164342	77.85880686	74.77787121	71.83187702
ADV1010126	10/4/2024	4.138	10/4/2029	107.99897	105.9791765	103.9785654	101.9450268	99.76826341	97.34358456	94.64990345	91.88353591	89.20828182
ADV1010140	10/7/2024	0	10/9/2029	98.477372	95.36686083	91.62812463	87.92774797	84.38527917	81.00090026	77.76688422	74.67579784	71.72060332
ADV1010151	10/7/2024	0	10/9/2029	98.477372	95.36686083	91.62812463	87.92774797	84.38527917	81.00090026	77.76688422	74.67579784	71.72060332
ADV1010158	10/7/2024	0	10/9/2029	98.477372	95.36686083	91.62812463	87.92774797	84.38527917	81.00090026	77.76688422	74.67579784	71.72060332
ADV1010203	10/9/2024	0	10/9/2029	98.477386	95.36686083	91.62812463	87.92774797	84.38527917	81.00090026	77.76688422	74.67579784	71.72060332

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1010205	10/9/2024	0	10/9/2029	98.477386	95.36686083	91.62812463	87.92774797	84.38527917	81.00090026	77.76688422	74.67579784	71.72060332
ADV1010208	10/9/2024	0	10/9/2029	98.477386	95.36686083	91.62812463	87.92774797	84.38527917	81.00090026	77.76688422	74.67579784	71.72060332
ADV1010209	10/9/2024	0	10/9/2029	98.477386	95.36686083	91.62812463	87.92774797	84.38527917	81.00090026	77.76688422	74.67579784	71.72060332
ADV1010210	10/9/2024	0	10/9/2029	98.477386	95.36686083	91.62812463	87.92774797	84.38527917	81.00090026	77.76688422	74.67579784	71.72060332
ADV1010261	10/11/2024	0	10/11/2029	98.477155	95.36065644	91.61674529	87.91205768	84.36573371	80.97784737	77.74064215	74.64666096	71.68884373
ADV1010356	10/16/2024	0	10/16/2029	98.476468	95.34512751	91.5882931	87.87284739	84.3168936	80.92024736	77.67507882	74.5738711	71.60950864
ADV1010407	10/18/2024	0	10/18/2029	98.476199	95.33890847	91.57691317	87.85716945	84.29736697	80.89722024	77.64887021	74.54477607	71.57780015
ADV1010414	10/18/2024	0	10/18/2029	98.476199	95.33890847	91.57691317	87.85716945	84.29736697	80.89722024	77.64887021	74.54477607	71.57780015
ADV1010416	10/18/2024	0	10/18/2029	98.476199	95.33890847	91.57691317	87.85716945	84.29736697	80.89722024	77.64887021	74.54477607	71.57780015
ADV1010510	10/24/2024	0	10/24/2029	98.475282	95.32022577	91.54277949	87.81015671	84.23881929	80.82818299	77.57030172	74.45756264	71.48276212
ADV1010633	10/31/2024	5.44	10/29/2049	120.77089	116.0934431	111.2365463	106.0808743	100.4823812	94.34839005	87.80365378	81.19901207	75.03001249
ADV1012378	1/15/2025	0	1/15/2030	98.33124	95.01265139	91.05506638	87.14955918	83.42083476	79.86832555	76.48301069	73.25623625	70.17982311
ADV1012454	1/17/2025	0	1/17/2030	98.330721	95.00571878	91.04301481	87.13335952	83.40097984	79.84519403	76.45694748	73.22755833	70.14882175
ADV1012574	1/22/2025	0	1/22/2030	98.328616	94.98836859	91.01289019	87.09287724	83.35136737	79.78739841	76.39183165	73.15591538	70.0713807
ADV1012601	1/23/2025	0	1/23/2030	98.328231	94.98489604	91.00686595	87.08478368	83.34144914	79.77584497	76.37881571	73.14159567	70.05590317
ADV1012603	1/23/2025	0	1/23/2030	98.328231	94.98489604	91.00686595	87.08478368	83.34144913	79.77584497	76.37881571	73.14159567	70.05590317
ADV1012608	1/23/2025	0	1/23/2030	98.328231	94.98489604	91.00686595	87.08478368	83.34144913	79.77584497	76.37881571	73.14159567	70.05590317
ADV1012631	1/24/2025	0	1/24/2030	98.327992	94.9814227	91.00084192	87.07669107	83.33153232	79.76429343	76.36580218	73.12727893	70.0404292
ADV1012660	1/27/2025	0	1/28/2030	98.326194	94.96752137	90.97674874	87.04433041	83.29187924	79.71810618	76.31377216	73.0700415	69.97856887
ADV1012688	1/27/2025	4.945	1/15/2030	106.90701	105.4064588	103.9186051	102.4019269	100.7129378	98.59938242	95.74203457	92.29660172	88.82355897
ADV1013119	2/13/2025	0	2/13/2030	98.284085	94.90710371	90.88522345	86.91733667	83.13162423	79.52764733	76.09597055	72.82753576	69.71379109
ADV1013181	2/14/2025	0	2/14/2030	98.284502	94.90428357	90.87970094	86.90944553	83.12159367	79.51567401	76.08223517	72.81220508	69.69701899
ADV1013281	2/20/2025	4.459	3/15/2028	110.43321	107.9654565	105.56273	103.2170048	100.9105779	98.61989641	96.32144256	94.04010155	91.81803228
ADV1013282	2/20/2025	5	1/7/2030	106.84442	105.371885	103.912328	102.4272666	100.7820133	98.73336204	95.94831341	92.53964081	89.07695635
ADV1013283	2/20/2025	0	2/20/2030	98.284768	94.88735395	90.84657596	86.86211872	83.06144083	79.44387672	75.9998792	72.7202924	69.59647453
ADV1013471	2/25/2025	4.715	3/2/2032	120.87923	115.8689097	110.9630394	106.12477	101.2804918	96.41765763	91.52551744	86.71239722	82.14480544
ADV1013551	2/28/2025	0	2/28/2030	98.288544	94.86580621	90.80256594	86.79907471	82.98131837	79.34826063	75.89022126	72.59793233	69.46264997
ADV1015005	4/29/2025	0	4/29/2030	98.181609	94.62907699	90.43329698	86.30551217	82.37510666	78.6405477	75.09126296	71.71715364	68.50871036
ADV1013643	3/4/2025	0	3/4/2030	98.245322	94.83811763	90.77634594	86.76614105	82.94099601	79.30119961	75.83708325	72.53932684	69.39913657
ADV1014406	4/4/2025	0	4/4/2030	98.191317	94.71605056	90.58574998	86.51170149	82.62877076	78.93684364	75.42578862	72.08586908	68.90790757
ADV1014512	4/10/2025	0	4/10/2030	98.188841	94.69526205	90.54915113	86.46215834	82.56780499	78.86561669	75.34535427	71.9971945	68.81187929
ADV1014034	3/21/2025	0	3/21/2030	98.239012	94.77888331	90.6728405	86.62671235	82.76989404	79.10154509	75.61169996	72.29081267	69.12988039
ADV1014513	4/10/2025	0	4/10/2030	98.188841	94.69526205	90.54915113	86.46215835	82.56780499	78.86561669	75.34535427	71.9971945	68.81187929

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1013661	3/5/2025	0	3/5/2030	98.244976	94.83466825	90.7702663	86.75793252	82.93091935	79.28943933	75.8238051	72.52468331	69.3832677
ADV1013623	3/4/2025	0	3/4/2030	98.245322	94.83811763	90.77634594	86.76614105	82.94099601	79.30119961	75.83708325	72.53932684	69.39913657
ADV1017194	7/10/2025	0	7/10/2030	98.018109	94.31366758	89.96637959	85.69452878	81.63446609	77.78465198	74.1334245	70.66962597	67.38275889
ADV1015175	5/2/2025	5.176	5/2/2045	120.96	115.9251399	110.7518647	105.3918764	99.75436729	93.83992912	87.78880312	81.85960686	76.3590824
ADV1015172	5/2/2025	5.176	5/2/2045	120.96	115.9251399	110.7518647	105.3918764	99.75436729	93.83992912	87.78880312	81.85960686	76.3590824
ADV1015129	5/1/2025	0	5/1/2030	98.140257	94.6083631	90.41909228	86.28876244	82.35473669	78.61688299	75.06466571	71.68795895	68.47722741
ADV1016790	6/26/2025	0	6/26/2030	98.067738	94.383191	90.06037841	85.81531451	81.77982364	77.9518235	74.31986021	70.87299919	67.60094942
ADV1015176	5/2/2025	5.173	5/2/2045	120.9446	115.9095372	110.7357049	105.3747132	99.73598926	93.82020127	87.76850059	81.83971383	76.34024076
ADV1015173	5/2/2025	5.176	5/2/2045	120.96	115.9251399	110.7518647	105.3918764	99.75436729	93.83992912	87.78880312	81.85960686	76.3590824
ADV1017548	7/24/2025	0	7/24/2030	98.006706	94.25605648	89.87294184	85.57313951	81.48890817	77.61773912	73.94769422	70.4673909	67.16612616
211124A00005	11/26/2021	4.69	11/26/2025	100.07125	100.0676572	100.0633879	100.0584494	100.0528539	100.0466133	100.0397394	100.0322437	100.0241374
211124A00006	11/26/2021	4.74	11/25/2026	100.06303	100.0312232	100.0381855	100.0386737	100.0329933	100.0214345	100.0042733	99.98177244	99.95418178
220608A00012	6/8/2022	5.07	6/8/2029	100.80331	100.8450237	100.8575098	100.8432295	100.8044577	100.7432959	100.6616857	100.5614211	100.4441597
220929A00039	9/29/2022	5.11	9/28/2029	100.99947	101.0418338	101.0526237	101.0345642	100.9901703	100.9217626	100.8314827	100.7213065	100.5930578
221115A00039	11/15/2022	4.89	11/16/2026	100.21955	100.2230821	100.2277038	100.228738	100.226318	100.2205715	100.211621	100.1995846	100.1845752
221216A00018	12/16/2022	4.89	12/16/2026	100.22777	100.2324274	100.2397068	100.23883	100.2302127	100.2142493	100.1913138	100.1617617	100.1259301
230215A00013	2/15/2023	4.77	8/21/2025	100.02636	100.0232676	100.02017	100.0170716	100.0139723	100.0108723	100.0077715	100.0046699	100.0015675
230307A00025	3/7/2023	4.89	3/7/2028	100.3058	100.2135898	100.2301994	100.2296923	100.2131326	100.1815239	100.1358127	100.0768916	100.0056031
230313A00111	3/13/2023	5.04	2/13/2026	100.28377	100.2793575	100.2739073	100.2674485	100.2600071	100.2516088	100.2422782	100.2320395	100.2209161
230313A00120	3/13/2023	5.04	4/13/2026	100.31579	100.3114201	100.3056138	100.2984219	100.2898899	100.2800614	100.2689786	100.2566822	100.2432115
230313A00124	3/13/2023	5.04	5/13/2026	100.33596	100.3316174	100.3256513	100.3181178	100.3090738	100.2985741	100.2866714	100.273416	100.2588567
230410A00022	4/10/2023	5	4/10/2028	100.47798	100.5048091	100.5182238	100.5134722	100.4917124	100.4540354	100.4014691	100.3349821	100.2554874
230511A00058	5/11/2023	4.96	5/11/2028	100.40421	100.4015023	100.4163159	100.4119555	100.3897014	100.3507558	100.2962479	100.2272385	100.1447242
230816A00019	8/16/2023	4.94	8/16/2028	100.35484	100.3366566	100.3551471	100.3518093	100.3282585	100.2860008	100.2264409	100.1508886	100.0605662
230914A00009	9/14/2023	4.86	9/14/2028	100.22356	100.0826013	100.1064515	100.1080747	100.0890841	100.0509868	99.99519069	99.92301151	99.83567875
230922A00036	9/22/2023	4.83	9/22/2028	100.18562	99.98667349	100.0121991	100.0153844	99.99784766	99.96110071	99.90655632	99.83553482	99.74927028
231025A00027	10/25/2023	4.86	10/25/2028	100.2088	100.0716973	100.107153	100.1244601	100.1249148	100.1097305	100.0800437	100.0369184	99.98135114
231106A00009	11/6/2023	4.83	10/15/2026	100.14894	100.1438446	100.1462101	100.1495699	100.1538063	100.1588107	100.1644828	100.17073	100.1774665
231115A00005	11/15/2023	4.82	11/16/2026	100.14072	100.1322016	100.1375465	100.1392728	100.137515	100.1324026	100.1240598	100.1126055	100.0981543
231215A00007	12/15/2023	4.81	12/1/2026	100.13669	100.1262047	100.1330596	100.1319591	100.1233122	100.1075067	100.0849103	100.0558719	100.0207226
240112A00017	1/12/2024	4.88	1/12/2029	100.20931	100.1114268	100.1418796	100.148915	100.1343245	100.0997738	100.0468118	99.97687928	99.8913166
240116A00030	1/16/2024	4.76	1/15/2027	100.08876	100.0390552	100.0509355	100.0543024	100.0495992	100.0372456	100.01764	99.99115994	99.95816379
240215A00011	2/15/2024	4.74	2/16/2027	100.0889	100.0053514	100.015396	100.0162727	100.0084288	99.9922899	99.96826041	99.93672514	99.89805022

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240314A00006	3/14/2024	4.84	3/14/2029	100.15709	99.97835452	100.0071906	100.0113228	99.99264152	99.95290767	99.89376137	99.81673052	99.72323855
240315A00011	3/15/2024	4.72	3/15/2027	100.08518	99.96821979	99.97658096	99.97501413	99.96398535	99.94393896	99.91529869	99.87846881	99.83383506
240327A00032	3/27/2024	4.7	3/26/2027	100.0662	99.9287942	99.93815146	99.93716508	99.92632173	99.90608546	99.8768989	99.83918435	99.79334484
240328A00053	3/28/2024	4.83	3/28/2029	100.13772	99.93914285	99.96945824	99.97456393	99.95640396	99.91678816	99.85740155	99.77981304	99.68548354
240415A00006	4/15/2024	4.69	4/15/2027	100.06268	99.90263565	99.91219853	99.91070454	99.89868062	99.8766292	99.84502947	99.80433858	99.75499275
240417A00013	4/17/2024	5.02	4/17/2031	100.20199	100.2807139	100.3158132	100.3113493	100.2714819	100.1999841	100.1002774	99.97546479	99.82835944
240515A00015	5/15/2024	4.68	5/17/2027	100.05872	99.86669404	99.87712524	99.8755017	99.86246856	99.83863758	99.80458902	99.76087343	99.70801329
ADV1006428	5/28/2024	4.692	5/28/2027	100.07089	99.88059696	99.89133575	99.88970627	99.87640534	99.85209217	99.81739063	99.77289125	99.71915312
ADV1006699	6/3/2024	4.711	6/3/2027	100.09092	99.91233755	99.92277701	99.9206915	99.9068047	99.88180052	99.84632544	99.8009908	99.74637475
ADV1006870	6/10/2024	4.727	6/10/2027	100.10898	99.93950455	99.94942102	99.94662745	99.93186852	99.90584752	99.86922887	99.82264041	99.76667559
ADV1007038	6/14/2024	4.734	6/14/2027	100.11714	99.95131366	99.96098449	99.95784304	99.94264622	99.91610862	99.87890506	99.83167297	99.77501458
ADV1007043	6/14/2024	4.794	6/14/2029	100.06765	99.79049736	99.8238397	99.82963011	99.81019414	99.76767983	99.70407145	99.62120211	99.52076556
ADV1007203	6/20/2024	4.733	6/21/2027	100.11804	99.94735189	99.95685712	99.95334681	99.93759947	99.91034962	99.87229049	99.8240765	99.76632557
ADV1007514	7/1/2024	4.745	7/1/2027	100.1325	99.96721292	99.97632136	99.97210861	99.95538395	99.92691039	99.88740744	99.83755382	99.77798991
ADV1007965	7/17/2024	4.742	7/19/2027	100.12687	99.95293876	99.96343365	99.9599936	99.94348725	99.91473234	99.87449887	99.82351215	99.7624555
ADV1008702	8/15/2024	4.773	8/16/2027	100.15726	100.0002247	100.0124305	100.01011	99.99414725	99.96537518	99.92457899	99.87249908	99.80983368
ADV1008824	8/21/2024	4.773	8/23/2027	100.15759	99.99634886	100.0091932	100.0074355	99.99194847	99.96355535	99.92303294	99.87111443	99.80849197
ADV1009264	9/4/2024	4.79	9/7/2027	100.17733	100.025188	100.0384571	100.0369977	100.021667	99.99327516	99.95258802	99.90032961	99.83718463
ADV1010016	10/1/2024	4.768	10/1/2026	100.08866	100.0778114	100.0790369	100.0806153	100.0824823	100.0845787	100.08685	100.0892459	100.0917203
ADV1010293	10/15/2024	4.807	10/15/2027	100.20165	100.051184	100.072274	100.0814367	100.0793548	100.0666748	100.0440095	100.0119392	99.97101431
ADV1010616	10/30/2024	4.778	10/30/2026	100.08974	100.0735507	100.0817096	100.0931572	100.1076393	100.1249194	100.1447771	100.167007	100.1914175
ADV1010836	11/12/2024	4.818	11/12/2027	100.2157	100.0649609	100.0876875	100.0983625	100.0977066	100.0864004	100.0650866	100.0343726	99.99483251
ADV1010941	11/15/2024	4.823	11/15/2027	100.22188	100.0756464	100.0982804	100.1088688	100.1081436	100.0967956	100.0754761	100.0448002	100.0053484
ADV1011265	11/29/2024	4.522	12/1/2025	100.05707	100.0542027	100.05107	100.0476713	100.044011	100.040093	100.0359216	100.0315008	100.0268344
ADV1011500	12/12/2024	4.796	12/13/2027	100.19466	100.0019075	100.0268922	100.0397289	100.0412098	100.0320781	100.0130321	99.98472724	99.94777958
ADV1012110	1/6/2025	4.791	1/6/2028	100.18554	99.9761867	100.0039242	100.0193203	100.0231707	100.0162228	99.99917907	99.97269988	99.93740609
ADV1013208	2/18/2025	4.74	2/18/2028	100.13953	99.83290085	99.86283327	99.87975851	99.88450099	99.87783674	99.86049639	99.83316805	99.79649983
ADV1014071	3/24/2025	4.567	11/24/2025	100.02826	100.0197846	100.0103513	99.99997142	99.98866052	99.97643378	99.96330616	99.94929238	99.9344069
ADV1013888	3/14/2025	4.747	3/14/2028	100.15071	99.83888417	99.86111564	99.86587651	99.85425467	99.82727582	99.78590719	99.73106099	99.66359772
ADV1014315	4/2/2025	4.609	6/2/2026	99.987006	99.9864358	99.98513818	99.98313997	99.98046708	99.97714432	99.97319542	99.96864312	99.9635092
ADV1014403	4/4/2025	4.668	8/4/2026	100.01888	100.0177171	100.0173871	100.0163919	100.0147575	100.0125083	100.0096677	100.0062581	100.0023008
ADV1014613	4/15/2025	4.837	4/17/2028	100.24309	100.0702727	100.0972487	100.1096002	100.1082529	100.09408	100.0679055	100.0305069	99.98261775
ADV1014146	3/27/2025	4.776	3/27/2028	100.17786	99.90829881	99.93032435	99.93445305	99.92181003	99.8934557	99.85038957	99.79355394	99.7238373

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017575	7/25/2025	4.517	10/27/2025	100.01316	100.0100778	100.0064188	100.0021943	99.99741123	99.99207656	99.98619706	99.97977944	99.97283033
ADV1017146	7/9/2025	4.518	10/9/2025	100.01267	100.0093516	100.0056761	100.0016438	99.99725804	99.99252249	99.98744064	99.98201597	99.97625193
ADV1015395	5/12/2025	4.793	5/12/2028	100.19199	99.93886781	99.96057211	99.9629088	99.94716908	99.91456539	99.86623636	99.8032515	99.72661549
ADV1017175	7/10/2025	4.517	10/10/2025	100.01251	100.0092069	100.0055329	100.0014916	99.9970867	99.99232193	99.98720096	99.98172741	99.97590488
ADV1016297	6/9/2025	4.587	4/10/2026	99.996456	99.99360465	99.9893285	99.9836734	99.97668361	99.96840188	99.95886948	99.94812629	99.93621084
ADV1017574	7/25/2025	4.514	10/23/2025	100.01236	100.0093124	100.0057457	100.0016635	99.99707193	99.99197707	99.98638488	99.98030125	99.97373201
ADV1016466	6/16/2025	4.601	6/16/2026	99.974066	99.97181039	99.96752976	99.96131023	99.95323382	99.94337876	99.93181971	99.91862792	99.90387141
ADV1009630	9/18/2024	4.935	9/18/2029	100.09602	100.0094119	100.0066276	100.0038458	100.0010664	99.99828939	99.99551477	99.96722902	99.8630692
ADV1010025	10/1/2024	4.946	10/1/2029	100.11938	100.00945	100.0066707	100.0038938	100.0011193	99.99834721	99.9955775	99.98290299	99.89002994
ADV1010137	10/7/2024	4.939	10/9/2029	100.13592	100.0094341	100.0066572	100.0038826	100.0011104	99.99834061	99.99557321	99.97261079	99.86922024
ADV1010509	10/24/2024	4.956	10/24/2029	100.15683	100.0094891	100.0067186	100.0039504	100.0011847	99.99842136	99.9956604	99.99290183	99.92228108
ADV1010723	11/5/2024	5.016	11/5/2029	100.10661	100.0096081	100.0068068	100.0040078	100.0012113	99.99841722	99.99562553	99.99283625	99.99004938
ADV1010727	11/5/2024	4.825	8/5/2026	100.01189	100.0090863	100.0062861	100.0034884	100.0006931	99.99790025	99.99510978	99.99232172	99.98953608
ADV1010729	11/5/2024	4.815	5/5/2026	100.01186	100.0090586	100.0062585	100.0034609	100.0006657	99.99787285	99.99508244	99.99229446	99.98950887
ADV1010935	11/15/2024	4.969	5/15/2029	100.08613	100.0094906	100.0066933	100.0038984	100.001106	99.9983159	99.99552824	99.992743	99.98795412
ADV1010936	11/15/2024	4.895	2/15/2028	100.01209	100.0092858	100.0064889	100.0036944	100.0009024	99.9981128	99.99532559	99.99254079	99.95148254
ADV1010937	11/15/2024	4.875	11/15/2027	100.01203	100.0092304	100.0064336	100.0036393	100.0008474	99.99805791	99.99527082	99.98933048	99.93369353
ADV1010971	11/18/2024	4.841	2/16/2027	100.01194	100.009138	100.0063425	100.0035495	100.0007589	99.99797075	99.99518497	99.9924016	99.97957876
ADV1011039	11/20/2024	4.976	11/20/2029	100.16194	100.009504	100.0067087	100.0039157	100.0011252	99.9983371	99.99555139	99.99276809	99.97062688
ADV1011270	11/29/2024	4.956	11/20/2029	100.16646	100.0094487	100.0066534	100.0038606	100.0010702	99.99828217	99.99549657	99.99271338	99.91288391
ADV1011569	12/16/2024	4.961	12/14/2029	100.16803	100.0094755	100.0066901	100.0039072	100.0011266	99.99834841	99.99557264	99.99279927	99.918282
ADV1011573	12/16/2024	4.949	9/14/2029	100.08835	100.0094489	100.0066635	100.0038805	100.0010999	99.99832171	99.99554592	100.0023771	99.90715369
ADV1011770	12/23/2024	4.931	6/21/2029	100.01219	100.0094075	100.0066248	100.0038444	100.0010665	99.99829095	99.9955178	99.97673772	99.8735847
ADV1012634	1/24/2025	4.934	1/24/2030	100.16962	100.0094214	100.0066509	100.0038829	100.0011172	99.99835397	99.99559308	99.93126584	99.82422525
ADV1012369	1/15/2025	4.917	7/16/2029	100.08382	100.0093822	100.0066082	100.0038367	100.0010675	99.99830073	99.99553634	99.9281256	99.82440936
ADV1012496	1/21/2025	4.921	10/22/2029	100.13921	100.0093896	100.0066176	100.003848	100.0010808	99.99831594	99.9955535	99.91778068	99.81102501
ADV1012665	1/27/2025	4.867	1/29/2029	100.07343	100.0408762	100.0064809	100.0037139	100.0009493	99.99818704	99.9497553	99.85894887	99.7728382
ADV1012173	1/8/2025	4.952	11/21/2029	100.16863	100.0804593	100.0301689	100.0268795	100.0235767	100.0202607	100.0169318	99.99949747	99.90012096
ADV1012341	1/15/2025	4.86	4/17/2028	100.012	100.009224	100.0064501	100.0036786	100.0009095	99.99814281	99.99264862	99.92062396	99.84383712
ADV1012552	1/22/2025	4.897	1/22/2029	100.0708	100.0093296	100.0065575	100.0037879	100.0010206	99.99825576	99.99549328	99.93552451	99.8512095
ADV1012499	1/21/2025	4.921	10/22/2029	100.13921	100.0093896	100.0066176	100.003848	100.0010808	99.99831594	99.9955535	99.91778068	99.81102501
ADV1012365	1/15/2025	4.938	1/15/2030	100.16053	100.0094272	100.0066534	100.0038819	100.0011128	99.99834617	99.99558189	99.94239353	99.83897468
ADV1012639	1/24/2025	4.913	4/24/2029	100.08379	100.0093763	100.0066057	100.0038376	100.0010718	99.99830842	99.99554743	99.94207693	99.84445223

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1012350	1/15/2025	4.893	1/16/2029	100.01209	100.0093156	100.0065416	100.0037701	100.001001	99.99823423	99.99546988	99.92488382	99.84070451
ADV1012360	1/15/2025	4.768	1/15/2027	100.01174	100.0055295	100.0061948	100.0034235	100.0006545	99.99788792	99.98421943	99.9497935	99.91644975
ADV1012593	1/23/2025	4.932	1/23/2030	100.16763	100.0094152	100.0066444	100.003876	100.00111	99.99834633	99.99558508	99.92450489	99.81704514
ADV1012408	1/16/2025	4.729	10/16/2026	100.01164	99.9849458	99.98632153	99.99071821	99.99573945	99.9977819	99.99501812	99.97668984	99.96289078
ADV1012349	1/15/2025	4.812	7/15/2027	100.01187	100.0090907	100.0063169	100.0035455	100.0007765	99.99800982	99.96209696	99.90341579	99.84186935
ADV1012351	1/15/2025	4.847	1/18/2028	100.01196	100.0091879	100.006414	100.0036425	100.0008735	99.99810679	99.9975531	99.93604047	99.87048127
ADV1012446	1/17/2025	4.684	4/17/2026	100.01151	100.0087366	100.0059636	100.0031931	100.000425	99.99765921	99.99397137	99.97711587	99.96258329
ADV1012486	1/21/2025	4.827	10/20/2027	100.01191	100.0091352	100.0063632	100.0035937	100.0008265	99.99806167	99.98599769	99.91281786	99.85028768
ADV1012355	1/15/2025	4.723	7/15/2026	100.01162	100.0088437	100.00607	100.0032987	100.0005298	99.99776324	99.99499911	99.97543752	99.95856924
ADV1012562	1/22/2025	4.769	1/22/2027	100.01175	100.0053242	100.0062041	100.0034353	100.0006689	99.99790489	99.9844392	99.95075794	99.91859532
ADV1012668	1/27/2025	4.778	7/26/2027	100.01177	99.99239738	99.99068682	99.98801132	99.9702953	99.94096988	99.89942044	99.84576117	99.78384931
ADV1012345	1/15/2025	4.938	1/15/2030	100.16053	100.0094272	100.0066534	100.0038819	100.0011128	99.99834617	99.99558189	99.94239353	99.83897468
ADV1012406	1/16/2025	4.863	7/17/2028	100.01201	100.0092329	100.0064594	100.0036882	100.0009195	99.99815321	99.97618987	99.88511033	99.80130373
ADV1012477	1/21/2025	4.919	10/22/2029	100.1401	100.009384	100.006612	100.0038424	100.0010752	99.99831039	99.99554796	99.91198621	99.80468427
ADV1012485	1/21/2025	4.843	1/20/2028	100.01195	100.0091797	100.0064077	100.0036381	100.0008709	99.99810603	99.99118003	99.92942141	99.86360342
ADV1012596	1/23/2025	4.862	4/24/2028	100.01201	100.0092341	100.0064632	100.0036947	100.0009286	99.99816488	99.99367543	99.92225034	99.84550258
ADV1012358	1/15/2025	4.768	1/15/2027	100.01174	100.0055295	100.0061948	100.0034235	100.0006545	99.99788792	99.98421943	99.9497935	99.91644975
ADV1012344	1/15/2025	4.938	1/15/2030	100.16053	100.0094272	100.0066534	100.0038819	100.0011128	99.99834617	99.99558189	99.94239353	99.83897468
ADV1012368	1/15/2025	4.938	1/15/2030	100.16053	100.0094272	100.0066534	100.0038819	100.0011128	99.99834617	99.99558189	99.94239353	99.83897468
ADV1012475	1/21/2025	4.79	4/20/2027	100.01181	100.0090325	100.0062606	100.003491	100.0007239	99.993806	99.95978715	99.91142931	99.85951295
ADV1012474	1/21/2025	4.767	1/20/2027	100.01174	100.0035901	100.0061967	100.0034272	100.0006601	99.99789531	99.98255194	99.94824513	99.91605155
ADV1012364	1/15/2025	4.83	10/15/2027	100.01192	100.0091407	100.0063668	100.0035954	100.0008263	99.99805969	99.99460251	99.91751217	99.85542259
ADV1012480	1/21/2025	4.921	10/22/2029	100.13921	100.0093896	100.0066176	100.003848	100.0010808	99.99831594	99.9955535	99.91778068	99.81102501
ADV1012348	1/15/2025	4.938	1/15/2030	100.16053	100.0094272	100.0066534	100.0038819	100.0011128	99.99834617	99.99558189	99.94239353	99.83897468
ADV1012554	1/22/2025	4.896	1/22/2029	100.07068	100.0093268	100.0065548	100.0037851	100.0010179	99.99825298	99.99549051	99.93271657	99.84928097
ADV1012353	1/15/2025	4.695	4/15/2026	100.01154	100.008766	100.0059923	100.003221	100.0004522	99.99768567	99.99492157	99.98379186	99.96993108
ADV1012363	1/15/2025	4.899	4/16/2029	100.07908	100.0093322	100.0065583	100.0037867	100.0010176	99.99825086	99.99548649	99.90645814	99.80941652
ADV1012502	1/21/2025	4.921	10/22/2029	100.13921	100.0093896	100.0066176	100.003848	100.0010808	99.99831594	99.9955535	99.91778068	99.81102501
ADV1012367	1/15/2025	4.792	4/15/2027	100.01181	100.0090352	100.0062614	100.00349	100.000721	99.99795441	99.9654203	99.91754263	99.86659797
ADV1012560	1/22/2025	4.934	1/22/2030	100.16881	100.0094202	100.006649	100.0038802	100.0011138	99.9983498	99.99558816	99.93058037	99.82390863
ADV1012218	1/10/2025	4.941	7/10/2029	100.07658	100.0094459	100.00667	100.0038965	100.0011254	99.99835672	99.99559041	99.99229462	99.89513386
ADV1012346	1/15/2025	4.938	1/15/2030	100.16053	100.0094272	100.0066534	100.0038819	100.0011128	99.99834617	99.99558189	99.94239353	99.83897468
ADV1012447	1/17/2025	4.765	1/19/2027	100.01174	100.0014981	100.0061884	100.0034178	100.0006495	99.99788369	99.98052656	99.94563616	99.91316154

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7/31/2025				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1012482	1/21/2025	4.921	10/22/2029	100.13921	100.0093896	100.0066176	100.003848	100.0010808	99.99831594	99.9955535	99.91778068	99.81102501
ADV1012559	1/22/2025	4.829	10/22/2027	100.01192	100.0091419	100.0063707	100.0036018	100.0008354	99.9980713	99.9924511	99.9166908	99.85410713
ADV1012594	1/23/2025	4.815	7/23/2027	100.01188	100.0091036	100.0063327	100.0035643	100.0007982	99.9980345	99.97045742	99.90950865	99.84859921
ADV1012473	1/21/2025	4.921	10/22/2029	100.13921	100.0093896	100.0066176	100.003848	100.0010808	99.99831594	99.9955535	99.91778068	99.81102501
ADV1012476	1/21/2025	4.921	10/22/2029	100.13921	100.0093896	100.0066176	100.003848	100.0010808	99.99831594	99.9955535	99.91778068	99.81102501
ADV1012357	1/15/2025	4.742	10/15/2026	100.01167	99.99699239	100.0015074	100.0033514	100.0005824	99.99781588	99.99505172	99.98574174	99.97147826
ADV1012640	1/24/2025	4.934	1/24/2030	100.16962	100.0094214	100.0066509	100.0038829	100.0011172	99.99835397	99.99559308	99.93126584	99.82422525
ADV1012557	1/22/2025	4.884	10/20/2028	100.01207	100.0092935	100.0065214	100.0037518	100.0009846	99.99821971	99.99545725	99.91580752	99.83279301
ADV1012352	1/15/2025	4.847	1/18/2028	100.01196	100.0091879	100.006414	100.0036425	100.0008735	99.99810679	99.9975531	99.93604047	99.87048127
ADV1012370	1/15/2025	4.86	4/17/2028	100.012	100.009224	100.0064501	100.0036786	100.0009095	99.99814281	99.99264862	99.92062396	99.84383712
ADV1012362	1/15/2025	4.883	10/16/2028	100.01206	100.0092878	100.0065139	100.0037424	100.0009733	99.99820653	99.99794838	99.91393789	99.82912032
ADV1012366	1/15/2025	4.938	1/15/2030	100.16053	100.0094272	100.0066534	100.0038819	100.0011128	99.99834617	99.99558189	99.94239353	99.83897468
ADV1012492	1/21/2025	4.734	10/20/2026	100.01165	99.98725682	99.98937023	99.99439673	99.99998805	99.99780381	99.99504148	99.98092812	99.96716913
ADV1012491	1/21/2025	4.713	7/20/2026	100.01159	100.0088187	100.0060468	100.0032774	100.0005103	99.99774559	99.98869753	99.96877518	99.95092583
ADV1012558	1/22/2025	4.884	10/20/2028	100.01207	100.0092935	100.0065214	100.0037518	100.0009846	99.99821971	99.99545725	99.91580752	99.83279301
ADV1012479	1/21/2025	4.827	10/20/2027	100.01191	100.0091352	100.0063632	100.0035937	100.0008265	99.99806167	99.98599769	99.91281786	99.85028768
ADV1012478	1/21/2025	4.921	10/22/2029	100.13921	100.0093896	100.0066176	100.003848	100.0010808	99.99831594	99.9955535	99.91778068	99.81102501
ADV1012342	1/15/2025	4.872	7/17/2028	100.01203	100.0092573	100.0064834	100.0037119	100.0009428	99.99817605	99.99541173	99.90774396	99.82362333
ADV1012553	1/22/2025	4.884	10/20/2028	100.01207	100.0092935	100.0065214	100.0037518	100.0009846	99.99821971	99.99545725	99.91580752	99.83279301
ADV1012671	1/27/2025	4.778	7/26/2027	100.01177	99.99239738	99.99068682	99.98801132	99.9702953	99.94096988	99.89942044	99.84576117	99.78384931
ADV1012563	1/22/2025	4.934	1/22/2030	100.16881	100.0094202	100.006649	100.0038802	100.0011138	99.9983498	99.99558816	99.93058037	99.82390863
ADV1012147	1/7/2025	4.933	10/29/2029	100.15826	100.009427	100.0066576	100.0038906	100.0011261	99.99836388	99.99560407	99.95595858	99.85101498
ADV1012663	1/27/2025	4.82	4/25/2028	100.01189	100.0048665	100.0055417	100.0050373	99.98585163	99.9521955	99.90509897	99.82428312	99.74718847
ADV1012489	1/21/2025	4.827	10/20/2027	100.01191	100.0091352	100.0063632	100.0035937	100.0008265	99.99806167	99.98599769	99.91281786	99.85028768
ADV1012472	1/21/2025	4.882	10/20/2028	100.01206	100.0092879	100.0065159	100.0037463	100.000979	99.99821417	99.99782664	99.91068074	99.82767079
ADV1012445	1/17/2025	4.914	1/17/2030	100.15658	100.0896903	100.0065887	100.003818	100.0010498	99.99828389	99.98763726	99.86366266	99.757452
ADV1012471	1/21/2025	4.921	10/22/2029	100.13921	100.0093896	100.0066176	100.003848	100.0010808	99.99831594	99.9955535	99.91778068	99.81102501
ADV1012556	1/22/2025	4.896	1/22/2029	100.07068	100.0093268	100.0065548	100.0037851	100.0010179	99.99825298	99.99549051	99.93271657	99.84928097
ADV1013290	2/20/2025	4.857	1/15/2030	100.15773	99.93187998	99.90728094	99.91785901	99.918865	99.87357157	99.78944683	99.67539871	99.56927563
ADV1013288	2/20/2025	4.857	1/22/2030	100.15956	99.93002296	99.90392897	99.91543502	99.91593443	99.87073197	99.78751225	99.67428188	99.56703781
ADV1013289	2/20/2025	4.847	7/16/2029	100.14025	99.97728512	99.96110006	99.96771925	99.96120776	99.91114831	99.82616915	99.71508803	99.61082169
ADV1013162	2/14/2025	4.873	2/14/2030	100.14543	99.9719492	99.94978449	99.96061542	99.96251389	99.91438839	99.8262274	99.70889737	99.60075631
ADV1013251	2/19/2025	4.878	2/19/2030	100.14874	99.9863757	99.9674636	99.97817822	99.97834771	99.92954911	99.84387393	99.71925204	99.61136432

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014605	4/15/2025	4.971	1/15/2030	100.20871	100.1386496	100.0977056	100.0931677	100.0881356	100.0822831	100.07466	100.0256868	99.94017083
ADV1014597	4/15/2025	4.98	4/15/2030	100.20997	100.1544311	100.0990869	100.0945494	100.0895175	100.0846368	100.0710984	100.0043057	99.90606953
ADV1014821	4/23/2025	4.991	4/22/2030	100.22925	100.1440138	100.1076054	100.1029784	100.0977889	100.092049	100.0843461	100.0317135	99.9393239
ADV1014712	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014611	4/15/2025	4.98	4/15/2030	100.20997	100.1544311	100.0990869	100.0945494	100.0895175	100.0846368	100.0710984	100.0043057	99.90606953
ADV1014736	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014466	4/8/2025	4.911	8/15/2028	100.17852	100.1226411	100.1180484	100.1128885	100.1068533	100.0949159	100.0699743	99.99308653	99.9120085
ADV1014608	4/15/2025	4.961	10/15/2029	100.20029	100.1091595	100.0961145	100.0915769	100.086545	100.0807857	100.0732221	100.0179209	99.93388941
ADV1014733	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1013687	3/6/2025	4.789	2/15/2028	100.11054	99.95215257	99.9453638	99.94940629	99.93007627	99.90458772	99.91523874	99.7997091	99.73412093
ADV1014720	4/21/2025	4.976	7/20/2029	100.18159	100.1099365	100.1058693	100.1012344	100.0960372	100.090579	100.0836124	100.0574877	99.99213061
ADV1014728	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014710	4/21/2025	4.909	4/20/2028	100.10753	100.0949198	100.0908907	100.0862938	100.0811344	100.074799	100.0643449	100.0118053	99.94654902
ADV1014730	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014739	4/21/2025	4.977	4/20/2029	100.18123	100.1101606	100.1060928	100.1014574	100.0962596	100.0905073	100.0832995	100.0644091	100.0080586
ADV1014740	4/21/2025	4.977	4/20/2029	100.18123	100.1101606	100.1060928	100.1014574	100.0962596	100.0905073	100.0832995	100.0644091	100.0080586
ADV1014484	4/9/2025	5.029	4/17/2028	100.13056	100.1177212	100.1136338	100.1090211	100.103888	100.0982415	100.0920862	100.0857259	100.0769459
ADV1014820	4/23/2025	4.886	4/24/2028	100.1047	100.0929157	100.0888988	100.0839676	100.0787259	100.0696865	100.0414786	99.97240911	99.89701915
ADV1014819	4/23/2025	4.858	10/25/2027	100.09649	100.075986	100.0821442	100.0775419	100.0722168	100.0606145	100.0460662	99.97060496	99.90608136
ADV1014738	4/21/2025	5.016	1/22/2030	100.23106	100.1269898	100.1137334	100.1090868	100.1038779	100.0985092	100.09177	100.0812673	100.0424551
ADV1014612	4/15/2025	4.98	4/15/2030	100.20997	100.1544311	100.0990869	100.0945494	100.0895175	100.0846368	100.0710984	100.0043057	99.90606953
ADV1014869	4/24/2025	4.821	5/7/2027	100.10304	100.060988	100.0734721	100.0736431	100.0633638	100.0396846	100.0024534	99.94859496	99.8925508
ADV1014607	4/15/2025	4.961	10/15/2029	100.20029	100.1091595	100.0961145	100.0915769	100.086545	100.0807857	100.0732221	100.0179209	99.93388941
ADV1014735	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014609	4/15/2025	4.904	7/17/2028	100.10156	100.0886786	100.0846648	100.0801523	100.0751455	100.0697166	100.0479984	99.97905002	99.89830558
ADV1014771	4/22/2025	5.02	4/22/2030	100.23836	100.168795	100.1166968	100.1120181	100.1067479	100.1014378	100.0929118	100.0756539	100.01464
ADV1014734	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014721	4/21/2025	4.976	7/20/2029	100.18159	100.1099365	100.1058693	100.1012344	100.0960372	100.090579	100.0836124	100.0574877	99.99213061
ADV1013887	3/14/2025	4.863	10/15/2029	100.14821	99.99312079	99.97830856	99.98605335	99.98516269	99.93732616	99.85264471	99.73442166	99.62991213
ADV1014729	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014709	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014598	4/15/2025	4.98	4/15/2030	100.20997	100.1544311	100.0990869	100.0945494	100.0895175	100.0846368	100.0710984	100.0043057	99.90606953
ADV1014707	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854

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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1013957	3/18/2025	4.828	10/17/2028	100.12726	99.97308858	99.95618704	99.96222654	99.94960088	99.91907963	99.8626382	99.76924451	99.68456945
ADV1014724	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014726	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014610	4/15/2025	4.98	4/15/2030	100.20997	100.1544311	100.0990869	100.0945494	100.0895175	100.0846368	100.0710984	100.0043057	99.90606953
ADV1014708	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014737	4/21/2025	5.002	1/22/2030	100.22574	100.1240968	100.1118672	100.1072111	100.1019782	100.0966565	100.0884038	100.0717805	100.0192512
ADV1014601	4/15/2025	4.98	4/15/2030	100.20997	100.1544311	100.0990869	100.0945494	100.0895175	100.0846368	100.0710984	100.0043057	99.90606953
ADV1014711	4/21/2025	4.895	1/20/2028	100.10371	100.091782	100.0877608	100.0831718	100.0780203	100.0717535	100.0620512	100.0175987	99.96375255
ADV1014599	4/15/2025	4.98	4/15/2030	100.20997	100.1544311	100.0990869	100.0945494	100.0895175	100.0846368	100.0710984	100.0043057	99.90606953
ADV1014714	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014602	4/15/2025	4.98	4/15/2030	100.20997	100.1544311	100.0990869	100.0945494	100.0895175	100.0846368	100.0710984	100.0043057	99.90606953
ADV1014727	4/21/2025	5.002	1/22/2030	100.22563	100.125176	100.1106036	100.1059649	100.1007639	100.0954725	100.0873238	100.0716394	100.0185854
ADV1014604	4/15/2025	4.874	1/18/2028	100.09397	100.0781996	100.0784443	100.0738755	100.0688846	100.0618172	100.0409601	99.98518625	99.92287619
ADV1014032	3/21/2025	4.859	4/20/2029	100.14807	100.0213245	100.0136253	100.0211664	100.0143683	99.97101827	99.89290954	99.78932842	99.69114057
ADV1014716	4/21/2025	4.961	4/20/2029	100.17699	100.1065745	100.1025158	100.0978895	100.0927007	100.0871158	100.0804269	100.0451874	99.97813078
ADV1016975	7/1/2025	4.867	7/3/2028	100.16395	100.0871734	100.0975747	100.1009547	100.0870819	100.0492767	99.98509066	99.89905268	99.81296827
ADV1017601	7/28/2025	4.86	7/28/2028	100.21985	100.0731821	100.0733052	100.0790478	100.0649728	100.0273342	99.98741407	99.88014821	99.79521067
ADV1015945	5/28/2025	4.97	5/24/2030	100.26856	100.2110877	100.1554228	100.1427858	100.1373986	100.1212059	100.0821627	99.96549868	99.84730092
ADV1016174	6/4/2025	4.851	7/3/2028	100.18229	100.0544637	100.0578684	100.0617878	100.0461662	100.0074256	99.94318176	99.85895814	99.7738203
ADV1016465	6/16/2025	4.842	7/3/2028	100.17935	100.0358655	100.0343756	100.0385331	100.021437	99.98298169	99.91937904	99.83676947	99.75174817
ADV1015924	5/28/2025	4.97	5/28/2030	100.25536	100.1969815	100.1345234	100.1282501	100.1228044	100.1079709	100.0735807	99.96360234	99.84823437
ADV1016977	7/1/2025	4.867	7/3/2028	100.16395	100.0871734	100.0975747	100.1009547	100.0870819	100.0492767	99.98509066	99.89905268	99.81296827
ADV1017448	7/21/2025	4.914	8/1/2028	100.22186	100.0982178	100.1071819	100.1129743	100.1009092	100.0641928	100.0011536	99.91475489	99.82906308
ADV1016172	6/4/2025	4.851	7/3/2028	100.18229	100.0544637	100.0578684	100.0617878	100.0461662	100.0074256	99.94318176	99.85895814	99.7738203
ADV1015174	5/2/2025	4.893	6/1/2028	100.14128	100.1317339	100.1287846	100.1226812	100.1155603	100.0952522	100.0546937	99.97252627	99.89198955
ADV1016976	7/1/2025	4.867	7/3/2028	100.16395	100.0871734	100.0975747	100.1009547	100.0870819	100.0492767	99.98509066	99.89905268	99.81296827
ADV1017518	7/23/2025	4.897	8/1/2028	100.21127	100.0618595	100.0631816	100.0693423	100.0563385	100.0202425	99.98691611	99.87147468	99.78677459
ADV1017170	7/10/2025	4.916	8/1/2028	100.22305	100.1026959	100.1120311	100.1177958	100.1057953	100.0687759	100.006405	99.91978637	99.8341196
ADV1016175	6/4/2025	4.851	7/3/2028	100.18229	100.0544637	100.0578684	100.0617878	100.0461662	100.0074256	99.94318176	99.85895814	99.7738203
ADV1015757	5/22/2025	4.872	6/1/2028	100.13442	100.0952381	100.1019468	100.1055043	100.0957757	100.0647267	100.0094644	99.92613235	99.84575661

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