

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.

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
060808A00022	8/8/2006	5.57	6/15/2026	100.73502	100.6068151	100.4789556	100.3514364	100.2242558	100.0974125	99.9709052	99.84473246	99.71889292
070518A00023	5/18/2007	5.46	5/18/2027	103.16695	102.5829426	102.0102361	101.4484867	100.8973618	100.3565421	99.8257211	99.30460432	98.79290896
110505A00022	5/5/2011	4.59	5/15/2026	100.20125	100.1595072	100.117814	100.0761732	100.0345848	99.99304858	99.95156452	99.91013248	99.86875237
110701A00011	7/1/2011	3.87	7/1/2026	100.56678	100.426524	100.2866919	100.1472845	100.0082999	99.86973604	99.7315909	99.59386252	99.45654894
110719A00017	7/19/2011	3.68	7/20/2026	100.6046	100.4475921	100.2911436	100.1352545	99.97992172	99.82514196	99.67091203	99.51722875	99.36408897
110805A00014	8/5/2011	4.06	8/17/2026	101.28381	100.9796179	100.6772677	100.3767415	100.0780229	99.78109547	99.48594297	99.19254942	98.90089905
110824A00006	8/24/2011	2.69	8/24/2026	100.97079	100.6405673	100.3124692	99.9864759	99.66256728	99.34072327	99.02092414	98.70315037	98.38738271
110909A00006	9/9/2011	2.26	9/9/2026	100.58615	100.3455531	100.1063296	99.86846715	99.63195298	99.3967746	99.16291966	98.93037597	98.69913152
111007A00007	10/7/2011	3.92	10/7/2031	117.13687	112.1890396	107.5037417	103.0652243	98.85876979	94.8706242	91.08792909	87.49865821	84.09155912
111216A00001	12/16/2011	3.95	12/30/2031	121.11946	115.063428	109.3561522	103.9755836	98.90118939	94.11383789	89.59569546	85.33013126	81.30162972
120113A00012	1/13/2012	3.62	1/15/2027	102.69054	101.9622959	101.2443974	100.5366215	99.83875481	99.15059	98.47192542	97.80256502	97.1423181
120113A00013	1/13/2012	3.87	1/15/2032	120.78318	114.6927198	108.9554839	103.5489883	98.45230468	93.6459431	89.11174547	84.83278697	80.79328554
120127A00018	1/27/2012	3.64	2/1/2027	102.87416	102.0978979	101.3333533	100.5802589	99.83835894	99.10740504	98.3871562	97.67737844	96.97784455
120127A00019	1/27/2012	3.87	1/30/2032	120.89732	114.7624715	108.9855806	103.543724	98.41557253	93.58127275	89.02233649	84.72153929	80.66282693
120410A00005	4/10/2012	2.35	4/12/2027	102.38323	101.4089894	100.4531072	99.51506825	98.59437722	97.69055689	96.80314743	95.93170555	95.07580383
120411A00013	4/11/2012	3.59	4/15/2027	103.56176	102.5793422	101.6155792	100.6699466	99.74193577	98.83105694	97.93683833	97.05882536	96.19657987
120621A00009	6/21/2012	3.18	6/21/2032	113.06148	108.4246367	104.0489831	99.91770015	96.01516381	92.32685216	88.83926096	85.53982613	82.4168525
120709A00016	7/9/2012	3.2	7/15/2027	103.97509	102.7378089	101.5299742	100.3505425	99.19851979	98.07295815	96.97295281	95.8976399	94.84619412
120806A00015	8/6/2012	2.38	8/6/2027	101.76437	101.0460546	100.3405258	99.64740289	98.96632557	98.29694804	97.63893841	96.9919779	96.35576026
120807A00026	8/7/2012	2.42	8/9/2027	101.79351	101.0748564	100.3689734	99.67548529	98.99403269	98.3242707	97.66586827	97.01850742	96.38188262
120808A00006	8/8/2012	2.06	8/9/2027	101.57753	100.8597552	100.1547292	99.46207427	98.78143216	98.11245908	97.45482495	96.80821277	96.17231789
120827A00048	8/27/2012	2.01	8/27/2027	101.77713	100.9420523	100.1205061	99.31215063	98.51665818	97.73371233	96.96300733	96.20424768	95.45714766
120827A00052	8/27/2012	2.01	8/27/2027	101.77713	100.9420523	100.1205061	99.31215062	98.51665818	97.73371233	96.96300733	96.20424768	95.45714766
121116A00022	11/16/2012	2.78	11/16/2029	109.83772	106.1899534	102.6841215	99.31391676	96.07335149	92.95673688	89.95866605	87.07399847	84.29784518
121120A00010	11/20/2012	1.93	11/22/2027	102.18638	101.0937946	100.0206976	98.96657823	97.93094678	96.91333047	95.91327288	94.93033318	93.96408543
121120A00011	11/20/2012	2.22	11/22/2027	103.39534	101.8803015	100.395923	98.94132088	97.51564688	96.11808492	94.74784977	93.40418547	92.086364
121217A00009	12/17/2012	2.02	12/17/2027	102.4398	101.2650554	100.1121464	98.98048097	97.8694873	96.77861435	95.70733098	94.65512502	93.62150238
130107A00002	1/7/2013	3.22	1/18/2028	105.52337	103.7787181	102.0715325	100.4006704	98.76503713	97.16358222	95.59529737	94.05921411	92.55440188
130206A00004	2/6/2013	2.14	2/7/2028	102.4024	101.3178137	100.2531797	99.20795693	98.18162714	97.17369058	96.18366541	95.21108678	94.25550612
130206A00009	2/6/2013	2.83	2/7/2028	104.61664	102.9615816	101.3433157	99.76079341	98.21299911	96.69895311	95.21770991	93.76835679	92.35001247
130211A00017	2/11/2013	3.27	2/15/2028	105.86077	104.0345205	102.2488308	100.5024995	98.79437275	97.12334039	95.48833374	93.8883238	92.32231937
130405A00007	4/5/2013	2.91	4/17/2028	105.8077	103.8081951	101.8568531	99.9522151	98.09287619	96.2774834	94.50473339	92.77337031	91.08218369
130424A00005	4/24/2013	3.07	4/24/2030	112.16348	108.0281921	104.0703527	100.2813999	96.65322938	93.17816923	89.84895459	86.65870375	83.60089583

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4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
130531A00021	5/31/2013	3.22	5/30/2028	106.80049	104.6728398	102.5985974	100.5760608	98.60359466	96.67962791	94.80265072	92.9712116	91.18391463
130913A00018	9/13/2013	3.72	9/13/2028	105.2887	103.8238445	102.3922729	100.992973	99.6249725	98.28733544	96.97916031	95.69957864	94.44775358
130926A00009	9/26/2013	4	10/2/2028	109.81886	107.3096133	104.8712903	102.50148	100.1978712	97.95824457	95.78046845	93.66249505	91.60235642
131217A00024	12/17/2013	4.34	1/2/2029	111.5749	108.7904603	106.0908836	103.4730339	100.9339135	98.47065667	96.08052258	93.76088912	91.5092466
140219A00005	2/19/2014	3.13	2/20/2029	104.73506	103.2260147	101.7536564	100.31679	98.91426737	97.54498709	96.20789199	94.90196702	93.62623723
140423A00036	4/23/2014	4.03	4/23/2029	111.93313	108.8282498	105.8274298	102.9266017	100.1218777	97.40954375	94.78605094	92.24800709	89.79216892
140521A00019	5/21/2014	3.43	5/22/2028	107.17091	105.0610692	103.0038242	100.9975093	99.04052743	97.13134395	95.26848315	93.4505258	91.67610645
140626A00036	6/26/2014	3.55	6/26/2029	111.27541	107.9973401	104.8343135	101.7815996	98.83469689	95.98931723	93.24137402	90.58697143	88.02239405
140717A00027	7/17/2014	3.14	7/17/2026	100.9929	100.6929035	100.3947115	100.0983097	99.80368197	99.51081229	99.2196848	98.93028384	98.64259396
140815A00032	8/15/2014	3.59	10/15/2029	112.22999	108.6341469	105.1747046	101.8457542	98.64167243	95.5571097	92.58697469	89.72642058	86.97083196
140911A00033	9/11/2014	3.02	9/13/2027	103.65649	102.4357571	101.2370065	100.0596772	98.90322946	97.76714142	96.65090859	95.55404293	94.47607225
140917A00030	9/17/2014	3.23	9/17/2029	109.80536	106.6766678	103.6622304	100.7571763	97.95687375	95.25691422	92.65310049	90.14143514	87.7181099
140924A00057	9/24/2014	3.25	9/25/2028	107.7486	105.3321546	102.9848307	100.7042295	98.48805545	96.33410673	94.24027063	92.20451951	90.22490667
141117A00011	11/17/2014	3.81	11/17/2034	127.9392	118.7332004	110.2855014	102.5290507	95.40306969	88.85243765	82.82713724	77.28175738	72.17504681
150203A00027	2/3/2015	2.26	2/4/2030	104.5421	102.5286659	100.5763899	98.68291	96.8459712	95.06342222	93.33320987	91.65337387	90.02204195
150319A00012	3/19/2015	3.13	3/19/2029	108.92963	105.9669403	103.1008767	100.3277704	97.64411261	95.04654665	92.53186019	90.09697833	87.73895693
150319A00013	3/19/2015	3.25	3/19/2030	112.34253	108.3105657	104.4473502	100.7449364	97.19579762	93.79279846	90.52917239	87.39850082	84.39469333
150427A00014	4/27/2015	2.98	4/27/2035	112.64495	107.7206105	103.1029158	98.76937649	94.69934152	90.87383546	87.27541063	83.88801307	80.69686119
150601A00261	6/1/2015	3.19	2/11/2033	110.79668	107.0992913	103.5833914	100.2383115	97.0540902	94.02142456	91.13162231	88.37655746	85.74862945
150601A00270	6/1/2015	3.12	3/21/2031	107.7922	105.1824374	102.6697051	100.2495547	97.91777623	95.67038239	93.50359527	91.41383382	89.39770231
150601A00396	6/1/2015	3.61	1/3/2029	104.9372	103.5268337	102.1498626	100.8052167	99.49186863	98.20883215	96.95516027	95.72994329	94.53230701
150601A00405	6/1/2015	4.63	1/17/2034	131.61119	123.1053628	115.2357222	107.9507813	101.2034977	94.95086651	89.15355275	83.77555923	78.78392633
150601A00411	6/1/2015	3.38	1/24/2029	104.6255	103.2164479	101.8408234	100.4975557	99.18561415	97.90400944	96.65179173	95.42804868	94.23190367
150601A00426	6/1/2015	3.37	2/21/2029	104.74649	103.2944524	101.8775649	100.4946796	99.14469916	97.8265704	96.53928254	95.28186502	94.05338554
150601A00440	6/1/2015	3.27	3/16/2029	104.73332	103.2401342	101.7838057	100.3631174	98.97690501	97.62405166	96.30348555	95.0141777	93.75513996
150601A00450	6/1/2015	3.28	4/27/2029	104.88141	103.3439646	101.8452653	100.3840151	98.95897173	97.56894407	96.21278938	94.88941118	93.59775689
150601A00460	6/1/2015	3.05	5/16/2029	104.65385	103.0779007	101.5424302	100.0460678	98.58749784	97.16545964	95.77874417	94.42619181	93.10668985
150601A00475	6/1/2015	3.04	6/1/2029	104.6416	103.064621	101.5281879	100.0309254	98.57151422	97.1486901	95.76124078	94.40800356	93.08786286
150601A00477	6/1/2015	3.21	6/1/2029	105.08504	103.4747474	101.9061174	100.3777271	98.88821676	97.43628339	96.02067771	94.64020162	93.29370571
150601A00506	6/1/2015	3.14	7/6/2029	105.04033	103.3771985	101.7583921	100.1823634	98.64763126	97.15277726	95.69644286	94.27732628	92.89417968
150601A00512	6/1/2015	3.79	7/16/2029	111.86003	108.5223401	105.303253	102.1978217	99.20134393	96.30934417	93.51756067	90.82193386	88.21859519
150601A00523	6/1/2015	4.55	7/25/2031	122.64423	116.9912564	111.641251	106.5762244	101.7793616	97.23493531	92.92822891	88.84546587	84.97374412
150601A00528	6/1/2015	3.08	7/27/2029	104.94664	103.2831222	101.664003	100.0877278	98.55281057	97.05782845	95.60141876	94.18227585	92.7991483

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
150601A00559	6/1/2015	3.06	8/31/2029	105.03578	103.3291851	101.6689964	100.0535681	98.48132634	96.95076506	95.4604422	94.00897665	92.59504513
150601A00664	6/1/2015	3.78	1/16/2032	119.96101	113.8910274	108.1735986	102.7862622	97.70811043	92.91967385	88.40281429	84.14062653	80.11734772
150601A00665	6/1/2015	3.82	1/14/2033	122.79488	115.6298564	108.9430868	102.6999097	96.86836379	91.41895987	86.32447699	81.55977582	77.10162872
150601A00666	6/1/2015	3.88	1/16/2035	128.4785	119.0876882	110.4826527	102.5928188	95.35432446	88.7093464	82.6054985	76.99529363	71.83566111
150601A00667	6/1/2015	3.88	1/16/2036	130.92051	120.4301693	110.9038106	102.2466722	94.3738102	87.20903293	80.68395554	74.7371618	69.31345972
150601A00668	6/1/2015	3.89	1/16/2037	133.11925	121.5433007	111.1245825	101.73964	93.27884827	85.64479753	78.75087205	72.52000118	66.88356066
150601A00736	6/1/2015	2.87	5/1/2030	105.61768	103.5695703	101.585439	99.66275107	97.79909246	95.99216193	94.23976513	92.5398088	90.8902954
150601A00851	6/1/2015	7.12	4/30/2027	103.73509	103.2045162	102.6813326	102.1653643	101.6564454	101.1544157	100.6591197	100.1704073	99.68813271
150601A00864	6/1/2015	7.37	3/31/2028	107.36139	106.3259776	105.3105649	104.3145785	103.3374711	102.3787162	101.4378067	100.5142544	99.60758881
150601A00868	6/1/2015	7.08	6/5/2028	107.96982	106.7988995	105.6520281	104.5284991	103.4276351	102.3487844	101.2913198	100.2546376	99.23815644
150601A00871	6/1/2015	6.74	7/31/2028	107.89008	106.6734417	105.4823955	104.3161761	103.1740499	102.0553113	100.9592819	99.88530904	98.8327646
150601A00872	6/1/2015	7.42	7/31/2028	108.70268	107.4763149	106.2757488	105.1002082	103.9489531	102.8212726	101.7164829	100.633926	99.57296875
150601A00875	6/1/2015	7.14	9/29/2028	108.99044	107.6720059	106.3825094	105.1210703	103.8868422	102.6790114	101.4967955	100.3394418	99.20622597
150601A00883	6/1/2015	6.21	11/30/2028	108.33659	106.9382751	105.5720006	104.2367632	102.9316004	101.6555876	100.4078362	99.18749202	97.99373361
150601A00888	6/1/2015	5.92	3/1/2029	108.71179	107.1757298	105.6770969	104.214671	102.7872795	101.3937979	100.0331464	98.70428843	97.40622839
150601A00889	6/1/2015	6.55	3/2/2029	109.93634	108.3398777	106.7830146	105.2644444	103.7829137	102.3372203	100.9262105	99.54877661	98.2038551
150601A00893	6/1/2015	6.49	4/6/2029	110.12975	108.485256	106.8823966	105.3197781	103.7960641	102.3099727	100.8602744	99.44578951	98.06538541
150601A00897	6/1/2015	6.15	5/28/2029	109.8627	108.1761081	106.5331405	104.9323092	103.3721911	101.8514219	100.368694	98.92275306	97.51239584
150601A00899	6/1/2015	7.07	6/14/2029	111.15592	109.4666218	107.8212433	106.2182757	104.6562762	103.1338626	101.6497101	100.2025484	98.79115944
150601A00905	6/1/2015	6.14	10/29/2029	111.19302	109.259757	107.3813954	105.5559302	103.7814413	102.0560929	100.3781292	98.74587011	97.15770779
150601A00906	6/1/2015	6.2	11/1/2029	111.30738	109.3718484	107.4912952	105.6637091	103.8871668	102.1598298	100.4799395	98.84581344	97.25584123
150601A00912	6/1/2015	5.96	11/30/2029	111.11607	109.1391006	107.2192969	105.3545373	103.5427948	101.7821319	100.070697	98.40671902	96.788504
150601A00916	6/1/2015	7.27	4/5/2030	128.07754	123.6882791	119.4812348	115.4478194	111.579893	107.8697416	104.3100524	100.893891	97.61467937
150601A00927	6/1/2015	6.08	8/7/2030	113.16515	110.8366162	108.5848868	106.4067671	104.2992213	102.2593619	100.2844414	98.3718442	96.51907984
150601A00928	6/1/2015	5.94	8/21/2030	112.86518	110.5403003	108.2921705	106.1175968	104.0135441	101.9771255	100.0055939	98.09633442	96.24685696
150601A00929	6/1/2015	5.91	8/30/2030	113.36008	110.9300776	108.5816159	106.3112694	104.115785	101.9920691	99.93717919	97.94831474	96.02280981
150601A00935	6/1/2015	6.46	11/21/2030	115.52477	112.9080771	110.3832441	107.9462667	105.5933432	103.3208644	101.1254029	99.0037024	96.95266796
150601A00939	6/1/2015	5.79	1/17/2031	114.34706	111.6661431	109.0821096	106.5906222	104.187574	101.8690709	99.63141922	97.47111372	95.38482697
150601A00943	6/1/2015	6.44	5/9/2031	117.18982	114.2529659	111.4283346	108.7106546	106.094945	103.5764938	101.1508417	98.81376657	96.56126941
150601A01041	6/1/2015	5.99	10/2/2036	132.3038	125.6228046	119.4188493	113.6521333	108.2865285	103.2892169	98.63036268	94.28281904	90.22186553
150603A00012	6/3/2015	2.77	6/3/2030	106.05098	103.8371754	101.6952107	99.62215665	97.61522476	95.67176002	93.78923361	91.96523603	90.19747063
150604A00039	6/4/2015	2.82	6/4/2030	106.1629	103.9466992	101.8024197	99.72712796	97.71803224	95.77247439	93.88792268	92.0619648	90.29230144
150610A00008	6/10/2015	3.58	6/10/2030	114.65851	110.3421329	106.2151823	102.2682905	98.49260549	94.87976114	91.42184757	88.11138343	84.94129023

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
150714A00003	7/14/2015	3.76	7/12/2030	108.44138	106.133295	103.9013291	101.7423375	99.65332519	97.6314424	95.67397663	93.77834495	91.94208695
150721A00027	7/21/2015	3.74	7/22/2030	115.45605	111.0132446	106.7695829	102.7149947	98.83997727	95.135563	91.59328551	88.20514851	84.96359671
150803A00033	8/3/2015	3.41	8/2/2030	112.4859	108.5152798	104.7196275	101.0901898	97.61869678	94.29733493	91.1187194	88.07586826	85.16217841
150803A00036	8/3/2015	3.41	8/2/2030	112.4859	108.5152798	104.7196275	101.0901898	97.61869678	94.29733493	91.1187194	88.07586826	85.16217841
150803A00037	8/3/2015	3.41	8/2/2030	112.4859	108.5152798	104.7196275	101.0901898	97.61869678	94.29733493	91.1187194	88.07586826	85.16217841
150803A00038	8/3/2015	3.41	8/2/2030	112.4859	108.5152798	104.7196275	101.0901898	97.61869678	94.29733493	91.1187194	88.07586826	85.16217841
150803A00039	8/3/2015	3.01	8/2/2030	106.58304	104.2764978	102.0470656	99.89152015	97.80679371	95.78996895	93.83827037	91.94905645	90.11981219
150803A00041	8/3/2015	3.01	8/2/2030	106.58304	104.2764978	102.0470656	99.89152015	97.80679372	95.78996895	93.83827037	91.94905645	90.11981219
150803A00042	8/3/2015	3.01	8/2/2030	106.58304	104.2764978	102.0470656	99.89152015	97.80679372	95.78996895	93.83827037	91.94905645	90.11981219
150817A00099	8/17/2015	3.19	8/17/2027	104.22807	102.9076716	101.6146739	100.3482276	99.10752094	97.89177545	96.70024425	95.53221049	94.3869858
150819A00013	8/19/2015	3.51	8/19/2030	114.71031	110.2063864	105.9076556	101.8036634	97.8845424	94.14097904	90.56417894	87.14583527	83.87809895
150826A00038	8/26/2015	2.94	8/26/2026	101.04203	100.7130585	100.3862367	100.0615412	99.7389509	99.41844554	99.10000484	98.78360885	98.46923788
150826A00039	8/26/2015	3.22	8/27/2029	110.73633	107.2970588	103.9839075	100.791579	97.71503036	94.74945689	91.89027916	89.13313126	86.47384968
151030A00026	10/30/2015	3.29	10/30/2030	112.77383	108.5986176	104.6161781	100.8163984	97.18975282	93.72726838	90.42048911	87.26144345	84.24261363
151120A00019	11/20/2015	2.72	11/20/2030	106.50588	104.0673636	101.714355	99.4431308	97.25015583	95.13207379	93.08569708	91.10799711	89.19609525
151223A00074	12/23/2015	3.01	12/23/2027	105.05531	103.3832542	101.746078	100.1427565	98.57230459	97.03377544	95.5262586	94.04887812	92.600791
151223A00077	12/23/2015	3.57	12/24/2035	128.97012	118.5995643	109.1804037	100.6193994	92.83293991	85.74599681	79.29120136	73.40802553	68.04205425
151229A00080	12/29/2015	3.49	12/30/2030	115.74046	110.8438915	106.186536	101.7553806	97.53818992	93.52345954	89.70036753	86.05873023	82.58896082
151229A00081	12/29/2015	3.76	12/31/2035	130.19907	119.7848115	110.3246428	101.7250959	93.90234791	86.78118152	80.2940596	74.38030327	68.98536216
160119A00019	1/19/2016	2.95	1/19/2027	102.23844	101.5009192	100.7740375	100.0575659	99.35128177	98.65496868	97.96841632	97.29142028	96.62378182
160119A00025	1/19/2016	3.05	1/19/2028	105.23465	103.489892	101.7826565	100.1117961	98.47621272	96.87485318	95.30670634	93.77080118	92.26620471
160119A00026	1/19/2016	3.14	1/19/2029	108.45423	105.6663474	102.9649346	100.3467419	97.80866458	95.34773748	92.96112718	90.64612523	88.40014153
160119A00027	1/19/2016	3.25	1/18/2030	111.82754	107.9768404	104.2812228	100.733535	97.32699969	94.055193	90.91202347	87.89171268	84.98877699
160119A00028	1/19/2016	3.34	1/21/2031	115.19841	110.2545473	105.5550398	101.0864401	96.83611526	92.79219596	88.94352604	85.27961521	81.79059535
160119A00029	1/19/2016	3.39	1/20/2032	118.04379	112.0173049	106.3422981	100.9963095	95.9584376	91.20922274	86.73053916	82.50549638	78.51834815
160119A00030	1/19/2016	3.44	1/18/2033	120.62311	113.5189475	106.8909777	100.7045935	94.92788562	89.53141912	84.48802836	79.7726301	75.36205311
160119A00072	1/19/2016	2.77	1/21/2031	107.55835	104.652264	101.8579748	99.17016175	96.58379659	94.09412866	91.69666733	89.38716589	87.16160639
160129A00066	1/29/2016	3.04	1/29/2031	114.12006	109.1705291	104.4672151	99.99648998	95.7455572	91.70239842	87.85572131	84.19491134	80.70998695
160210A00051	2/10/2016	2.28	2/10/2031	105.70003	103.153164	100.699539	98.3349357	96.05535892	93.85702265	91.73633757	89.68989946	87.71447835
160212A00037	2/12/2016	3.03	2/12/2031	113.87376	108.898139	104.1717207	99.68067772	95.41202401	91.3535603	87.49382217	83.8220316	80.32805213
160222A00005	2/22/2016	2.79	2/22/2028	105.04145	103.2026983	101.4051617	99.64764553	97.92899921	96.24811393	94.6039206	92.9953881	91.4215217
160222A00019	2/22/2016	3.09	2/21/2031	114.23516	109.2239019	104.4647391	99.94366503	95.64752138	91.56394474	87.68131456	83.9887046	80.4758379
160303A00020	3/3/2016	2.97	3/3/2031	114.03168	108.9864617	104.196747	99.6482836	95.3276834	91.22236741	87.32051303	83.61100477	80.08338856

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
160307A00028	3/7/2016	2.91	3/7/2028	105.37317	103.4922246	101.6541808	99.85780916	98.10192345	96.38537868	94.70706946	93.06592838	91.46092442
160307A00029	3/7/2016	3.21	3/7/2031	114.9258	109.8579021	105.0466099	100.4775986	96.13741545	92.01342177	88.09373929	84.36720086	80.82330439
160330A00054	3/30/2016	2.9	3/31/2031	113.86425	108.7472526	103.8931927	99.28718803	94.9152754	90.76434797	86.82209839	83.07696604	79.51808797
160404A00019	4/4/2016	2.48	4/4/2031	106.25426	103.6119319	101.068988	98.62082538	96.26309195	93.99166749	91.80264989	89.69234206	87.65723977
160412A00029	4/12/2016	2.48	4/14/2031	106.25493	103.6122218	101.0689334	98.62046217	96.26245279	93.99078229	91.80154597	89.69104435	87.65577104
160413A00014	4/13/2016	2.55	4/14/2031	106.30776	103.666055	101.1236593	98.67598284	96.31867743	94.04762676	91.85893231	89.74890037	87.71402982
160413A00016	4/13/2016	2.55	4/14/2031	106.30776	103.666055	101.1236593	98.67598284	96.31867743	94.04762676	91.85893232	89.74890037	87.71402982
160504A00004	5/4/2016	2.3	5/4/2026	100.0305	100.0193789	100.0082702	99.9971721	99.98608468	99.97500789	99.96394171	99.95288612	99.94184111
160511A00015	5/11/2016	2.42	5/11/2026	100.29665	100.1803952	100.0644233	99.94873403	99.83332632	99.7181991	99.60335131	99.4887819	99.37448983
160511A00016	5/11/2016	2.48	5/12/2031	106.21412	103.532426	100.9529397	98.47087701	96.08171137	93.78116001	91.56516921	89.42990045	87.37171757
160523A00086	5/23/2016	2.2	5/26/2026	100.38458	100.2267167	100.0693594	99.91250325	99.75614588	99.60028489	99.44491792	99.29004259	99.13565658
160524A00015	11/25/2016	2.71	11/25/2026	101.62907	101.0465473	100.4706973	99.90140399	99.33855572	98.7820435	98.23176074	97.68760323	97.14946908
160524A00027	5/24/2016	3.06	5/27/2031	114.72154	109.4366365	104.4303081	99.68637256	95.18967038	90.92599815	86.88204295	83.04532176	79.40412532
160603A00014	6/3/2016	1.74	6/3/2026	100.17325	100.0857347	99.99837639	99.91117593	99.82413286	99.73724674	99.65051715	99.56394364	99.4775258
160603A00029	6/3/2016	2.18	6/3/2031	105.78377	103.0656828	100.4527484	97.93997263	95.5226405	93.19629393	90.95671611	88.79991678	86.72211847
160606A00004	6/6/2016	2.43	6/8/2026	100.28277	100.1744352	100.066345	99.95849962	99.85089829	99.7435401	99.63642419	99.52954972	99.42291584
160606A00005	6/6/2016	2.92	6/6/2031	114.06421	108.7683931	103.7532254	99.00232362	94.50034623	90.23292412	86.18659348	82.34873388	78.70751094
160606A00018	6/6/2016	1.74	6/5/2026	100.1815	100.0898085	99.9982972	99.90696238	99.81580353	99.72482012	99.63401161	99.54337748	99.45291721
160608A00019	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00020	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00023	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00024	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00025	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00026	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00027	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00028	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00029	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00030	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00031	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00032	6/8/2016	2.36	6/8/2026	100.4756	100.2845491	100.0942344	99.90465289	99.71580025	99.52767223	99.34026461	99.15357321	98.96759388
160608A00033	6/8/2016	2.44	6/9/2031	106.19654	103.4730515	100.8547682	98.33670305	95.91414417	93.58263633	91.33796505	89.17614198	87.09339122
160608A00034	6/8/2016	2.44	6/9/2031	106.19654	103.4730515	100.8547682	98.33670305	95.91414417	93.58263633	91.33796505	89.17614198	87.09339122
160609A00075	6/9/2016	1.94	6/9/2026	100.19863	100.1028612	100.007292	99.9119174	99.81673666	99.72174919	99.62695438	99.53235161	99.43794027

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
160615A00031	6/15/2016	2.51	6/17/2030	110.24018	105.995481	101.9388675	98.06097225	94.35294934	90.80644135	87.4135493	84.16680478	81.05914396
160616A00027	6/16/2016	2.27	6/16/2026	100.31994	100.1893821	100.0591747	99.92932057	99.79981828	99.67066636	99.54186335	99.41340779	99.28529824
160616A00029	6/16/2016	1.58	6/16/2026	100.19207	100.0864958	99.98116123	99.87607033	99.77122216	99.66661582	99.56225041	99.45812504	99.35423881
160628A00039	6/28/2016	2.01	6/29/2026	100.37484	100.2080367	100.0417862	99.87608758	99.71093797	99.54633468	99.382275	99.21875627	99.05577582
160629A00066	6/29/2016	2.61	6/30/2036	117.07195	108.5822354	100.8594352	93.82747403	87.41831833	81.57108095	76.23123036	71.34989118	66.88322551
160701A00020	7/1/2016	2.13	7/1/2026	100.39777	100.2255015	100.0538201	99.88272615	99.71221662	99.54228854	99.37293895	99.20416492	99.03596353
160701A00039	7/1/2016	1.92	7/1/2026	100.37181	100.1994621	100.0277078	99.85654231	99.68596274	99.51596606	99.34654927	99.17770942	99.00944357
160705A00104	7/5/2016	2.1	7/6/2026	100.42421	100.238047	100.0525834	99.86781404	99.68373511	99.50034265	99.31763279	99.13560167	98.95424547
160706A00026	7/6/2016	2.19	7/6/2027	102.68669	101.4824919	100.3064345	99.1575396	98.03487453	96.93754889	95.86471218	94.8155516	93.78928995
160706A00027	7/6/2016	2.29	7/6/2028	104.93317	102.7261281	100.5764994	98.48237409	96.44192327	94.45339363	92.51510374	90.62544039	88.78285518
160706A00028	7/6/2016	2.39	7/6/2029	107.42264	104.183821	101.0599104	98.04614462	95.1379884	92.33112354	89.62143677	87.00500854	84.4781025
160706A00029	7/6/2016	2.49	7/8/2030	110.02293	105.7326441	101.6345471	97.71895646	93.97673892	90.39927163	86.9784107	83.70646155	80.57615135
160706A00030	7/6/2016	2.59	7/7/2031	112.52114	107.1795336	102.1256303	97.3423755	92.81381998	88.52504128	84.46207186	80.61183251	76.962071
160711A00004	7/11/2016	1.51	7/13/2026	100.26075	100.1115868	99.96292656	99.81476363	99.66709532	99.51991897	99.37323194	99.22703162	99.08131539
160712A00019	7/12/2017	2.32	7/12/2027	102.81759	101.5970086	100.4053202	99.24150762	98.10460121	96.99367589	95.90784855	94.84627572	93.80815137
160713A00015	7/13/2016	1.57	7/13/2026	100.27305	100.122017	99.97150308	99.82150161	99.6720098	99.52302487	99.37454403	99.22656453	99.07908362
160714A00018	9/6/2016	2.28	9/4/2026	100.86765	100.5142925	100.1634128	99.81498273	99.46897659	99.12536917	98.78413554	98.44525115	98.10869176
160714A00020	9/6/2016	2.28	9/4/2026	100.86765	100.5142925	100.1634128	99.81498273	99.46897659	99.12536917	98.78413554	98.44525115	98.10869176
160714A00023	8/10/2016	2.49	8/10/2028	105.6015	103.2928249	101.0462202	98.85959496	96.73094442	94.65834683	92.6399591	90.67401291	88.75881102
160714A00024	9/20/2016	2.5	9/20/2028	105.89509	103.4709132	101.1146298	98.82396293	96.59672502	94.4308145	92.32421172	90.27497526	88.28123847
160714A00029	8/10/2016	2.27	8/10/2026	100.69387	100.4102194	100.1281759	99.84772693	99.56885884	99.29155821	99.01581178	98.74160641	98.46892911
160719A00026	7/19/2016	1.87	7/20/2026	100.31313	100.1566644	100.0007553	99.84540286	99.69060389	99.53635517	99.38265351	99.22949577	99.07687883
160726A00005	7/26/2016	2.28	7/27/2026	100.60098	100.3563093	100.1128287	99.870533	99.62941363	99.38946201	99.15066966	98.91302818	98.67652926
160729A00017	7/31/2017	2.47	7/31/2029	107.66411	104.3584743	101.1720744	98.09987266	95.13708265	92.27915184	89.52174833	86.86074846	84.29222522
160801A00002	8/1/2016	1.58	8/3/2026	100.34356	100.1544585	99.96617808	99.77870821	99.59204333	99.4061779	99.22110642	99.03682346	98.85332362
160802A00003	8/2/2016	2.53	8/1/2031	112.65452	107.2317276	102.1046096	97.25542339	92.66759508	88.32563097	84.21504106	80.32226818	76.63462257
160810A00025	8/10/2016	2.17	8/10/2026	100.84273	100.4759553	100.1118615	99.75042372	99.39161271	99.03539981	98.68175673	98.33065562	97.98206901
160810A00027	8/10/2016	2.13	8/10/2026	100.82424	100.4591895	100.0968111	99.73707099	99.37994033	99.02539061	98.67339378	98.32392219	97.97694857
160810A00028	8/10/2016	2.19	8/10/2026	100.85205	100.4843998	100.1194401	99.75714521	99.39748589	99.04043334	98.68595918	98.33403542	97.98463451
160810A00029	8/10/2016	2.17	8/10/2026	100.84273	100.4759553	100.1118615	99.75042372	99.39161271	99.03539981	98.68175673	98.33065562	97.98206901
160810A00030	8/10/2016	2.24	8/11/2031	105.80801	103.0100824	100.3231338	97.74177826	95.26093273	92.87579698	90.58183583	88.37476268	86.25052415
160811A00011	8/11/2016	2.25	8/11/2026	100.68088	100.3946407	100.1100338	99.82705014	99.5456759	99.26589722	98.98770049	98.71107224	98.43599913
160812A00006	8/12/2016	2.16	8/12/2026	100.88764	100.5165953	100.148311	99.78275396	99.4198937	99.05970027	98.70214414	98.34719622	97.99482785

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
160815A00005	8/15/2016	2.23	8/17/2026	100.72947	100.4263322	100.1250336	99.82555436	99.52787799	99.23198813	98.93786863	98.64550354	98.35487709
160815A00006	8/15/2016	2.23	8/17/2026	100.72947	100.4263322	100.1250336	99.82555436	99.52787799	99.23198813	98.93786863	98.64550354	98.35487709
160815A00007	8/15/2016	2.23	8/17/2026	100.72947	100.4263322	100.1250336	99.82555436	99.52787799	99.23198813	98.93786863	98.64550354	98.35487709
160819A00015	10/12/2016	2.3	10/13/2026	101.14007	100.6778889	100.2199364	99.76615505	99.31648795	98.87087917	98.42927381	97.99161793	97.5578586
160824A00019	8/24/2016	1.98	8/25/2031	105.38371	102.5907926	99.90886897	97.33254614	94.85673175	92.47661713	90.18765956	87.98556567	85.86627606
160830A00038	8/30/2016	2.24	8/28/2026	100.80656	100.4727432	100.1411338	99.81171228	99.48445716	99.15934708	98.83636101	98.51547818	98.19667808
160906A00027	9/6/2016	2.03	9/8/2031	105.60055	102.7604589	100.0346599	97.41753797	94.90379574	92.48843374	90.16673144	87.93422976	85.78671488
160908A00022	9/8/2016	2.21	9/8/2026	101.03377	100.5904313	100.151003	99.71543719	99.28368299	98.8556903	98.43140993	98.01079357	97.59379373
160908A00023	9/8/2016	2.21	9/8/2026	101.03377	100.5904313	100.151003	99.71543719	99.28368299	98.8556903	98.43140993	98.01079357	97.59379373
160908A00024	9/8/2016	2.21	9/8/2026	101.03377	100.5904313	100.151003	99.71543719	99.28368299	98.8556903	98.43140993	98.01079357	97.59379373
160908A00025	9/8/2016	2.21	9/8/2026	101.03377	100.5904313	100.151003	99.71543719	99.28368299	98.8556903	98.43140993	98.01079357	97.59379373
160908A00026	9/8/2016	2.21	9/8/2026	101.03377	100.5904313	100.151003	99.71543719	99.28368299	98.8556903	98.43140993	98.01079357	97.59379373
160908A00027	9/8/2016	2.21	9/8/2026	101.03377	100.5904313	100.151003	99.71543719	99.28368299	98.8556903	98.43140993	98.01079357	97.59379373
160908A00028	9/8/2016	2.21	9/8/2026	101.03377	100.5904313	100.151003	99.71543719	99.28368299	98.8556903	98.43140993	98.01079357	97.59379373
160908A00030	9/8/2016	2.21	9/8/2026	101.03377	100.5904313	100.151003	99.71543719	99.28368299	98.8556903	98.43140993	98.01079357	97.59379373
160908A00031	9/8/2016	2.21	9/8/2026	101.03377	100.5904313	100.151003	99.71543719	99.28368299	98.8556903	98.43140993	98.01079357	97.59379373
160908A00032	9/8/2016	2.17	9/8/2026	101.01022	100.5694804	100.1326218	99.69959429	99.27034743	98.8448316	98.42299808	98.00479899	97.59018729
160908A00033	9/8/2016	2.17	9/8/2026	101.01022	100.5694804	100.1326218	99.69959429	99.27034743	98.8448316	98.42299808	98.00479899	97.59018729
160908A00034	9/8/2016	2.17	9/8/2026	101.01022	100.5694804	100.1326218	99.69959429	99.27034743	98.8448316	98.42299808	98.00479899	97.59018729
160908A00035	9/8/2016	2.3	9/8/2031	106.0614	103.214626	100.4822348	97.85861485	95.33847184	92.9168085	90.58890603	88.35030665	86.19679741
160908A00036	9/8/2016	2.3	9/8/2031	106.0614	103.214626	100.4822348	97.85861485	95.33847184	92.9168085	90.58890603	88.35030665	86.19679741
160922A00014	9/22/2016	2.06	9/22/2026	100.92533	100.5216419	100.1211883	99.72392942	99.32982705	98.93884361	98.55094206	98.166086	97.78423957
160923A00009	9/23/2016	2.24	9/23/2031	106.03402	103.1847134	100.4500228	97.82431576	95.30228132	92.87890692	90.54945964	88.30946875	86.15470931
160928A00029	9/28/2016	2.52	9/29/2036	111.09924	105.5227491	100.346948	95.5379517	91.0650526	86.90039858	83.01870591	79.39700293	76.01440099
160928A00030	9/28/2016	2.52	9/29/2036	111.09924	105.5227491	100.346948	95.5379517	91.0650526	86.90039858	83.01870591	79.39700293	76.01440099
160928A00032	9/28/2016	2.52	9/29/2036	111.09924	105.5227491	100.346948	95.5379517	91.0650526	86.90039858	83.01870591	79.39700293	76.01440099
160928A00033	9/28/2016	2.46	9/29/2036	111.06047	105.4748139	100.2910606	95.475187	90.99636327	86.82662882	82.94060382	79.31523137	75.9295472
160930A00032	9/30/2016	2.15	9/30/2031	105.74339	102.9138046	100.1985022	97.59183443	95.08847629	92.68340405	90.37187588	88.14941419	86.01178901
160930A00033	9/30/2016	1.8	9/30/2026	100.55416	100.2739104	99.99554052	99.7190302	99.44435909	99.17150723	98.90045491	98.63118276	98.36367168
161005A00016	10/5/2016	2.32	10/6/2031	106.34985	103.4504255	100.6690866	97.99996821	95.43754226	92.97659414	90.61220294	88.33972285	86.15476594
161014A00019	10/14/2016	2.39	10/15/2031	106.55627	103.650858	100.8637974	98.18921282	95.62156181	93.15561649	90.78644346	88.50938526	86.320043
161014A00026	10/14/2016	2.16	10/14/2031	106.05738	103.1623373	100.3853332	97.72049747	95.16229834	92.70551829	90.34523392	88.07679745	85.89581934
161014A00029	10/14/2016	2.51	10/15/2031	107.0885	104.1652861	101.3612593	98.67049228	96.08739957	93.60671283	91.22346077	88.93295036	86.73074936

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
161109A00018	11/9/2016	2.63	11/9/2026	101.46833	100.9306599	100.3986839	99.8723146	99.35146371	98.83604463	98.32597259	97.8211646	97.32153935
161116A00006	11/16/2016	2.39	11/16/2026	100.84889	100.516527	100.1868695	99.85988419	99.53553536	99.21378774	98.89460678	98.57795854	98.26380975
161118A00026	12/20/2016	3.03	12/21/2026	102.05826	101.4018227	100.7538318	100.1141243	99.48254214	98.85893091	98.24314026	97.63502354	97.03443779
161207A00014	12/7/2016	2.75	12/8/2031	108.01218	104.9779163	102.0704957	99.28347259	96.61077547	94.04668447	91.58580882	89.22306555	86.95365987
161214A00023	12/14/2016	3.3	12/15/2031	117.66694	111.7360243	106.1464926	100.8768219	95.90696227	91.2182271	86.79319246	82.61560528	78.67029849
161214A00034	12/14/2016	2.65	12/14/2026	101.05125	100.6758002	100.3038258	99.93527032	99.57008159	99.20820866	98.84960165	98.49421171	98.14199102
161222A00013	12/22/2016	2.93	12/22/2026	102.2329	101.5058361	100.7892765	100.0829956	99.38677218	98.70039121	98.02364388	97.35632723	96.698244
161222A00030	12/22/2016	3.09	12/22/2026	102.14494	101.4849103	100.8334091	100.1902757	99.55534963	98.92847418	98.30949677	97.69826862	97.0946447
161222A00036	12/22/2016	2.69	12/22/2026	101.07081	100.69352	100.3197574	99.94946782	99.58259747	99.21909381	98.85890541	98.50198195	98.14827419
161222A00037	12/22/2016	3.08	12/22/2031	108.59881	105.6315654	102.7868194	100.0583863	97.4404443	94.92750716	92.51440274	90.19625277	87.96845409
161227A00073	12/27/2016	2.83	12/28/2026	102.14342	101.4219893	100.7110836	100.0104743	99.31993668	98.63925242	97.96820949	97.30660194	96.65422968
161229A00018	12/29/2016	2.46	12/29/2026	101.01488	100.6341231	100.256975	99.88337859	99.51327808	99.14661883	98.78334744	98.42341166	98.06676038
161229A00019	12/29/2016	2.46	12/29/2026	101.01488	100.6341231	100.256975	99.88337858	99.51327808	99.14661883	98.78334744	98.42341166	98.06676038
170105A00010	1/5/2017	2.61	1/5/2027	101.14378	100.7275831	100.3156566	99.90792753	99.50432519	99.10478051	98.70922606	98.31759597	97.92982589
170106A00030	1/6/2017	2.39	1/6/2027	101.07758	100.6610746	100.2488532	99.84084134	99.4369679	99.03716343	98.64136014	98.24949181	97.86149374
170111A00009	1/11/2017	3.16	1/11/2028	105.361	103.6367128	101.9491514	100.2972059	98.67981311	97.09595235	95.54464342	94.02494445	92.53595001
170111A00011	1/11/2017	3.24	1/11/2029	108.66326	105.8941758	103.2104047	100.6087575	98.08619243	95.63980321	93.2668117	90.96456121	88.73051022
170111A00012	1/11/2017	3.31	1/11/2030	111.99561	108.1608243	104.4797779	100.9454139	97.55104323	94.29032347	91.15723887	88.1460812	85.25143202
170111A00013	1/11/2017	3.4	1/10/2031	115.40046	110.4818223	105.8049049	101.3564791	97.12411439	93.09612731	89.26153201	85.60999443	82.13178986
170111A00014	1/11/2017	3.47	1/12/2032	118.45454	112.4381062	106.7712117	101.4316047	96.39856779	91.65280745	87.17634789	82.95243392	78.96544144
170111A00016	1/11/2017	3.51	1/11/2033	121.0541	113.954486	107.3293147	101.1442015	95.3674345	89.96975439	84.92415129	80.20568031	75.79129297
170112A00015	1/12/2017	2.32	1/12/2027	101.05273	100.6344778	100.2205621	99.81090521	99.40543446	99.00407892	98.60676934	98.21343811	97.82401921
170120A00008	1/20/2017	3.63	1/20/2034	124.39423	116.1528797	108.5340596	101.4870989	94.96571985	88.92763252	83.33417042	78.14996176	73.34263202
170120A00009	1/20/2017	3.67	1/22/2035	127.16993	117.8187256	109.252551	101.4007218	94.19929253	87.5903773	81.52154544	75.94528009	70.81849336
170120A00010	1/20/2017	3.71	1/22/2036	129.8464	119.3909151	109.8988908	101.2754153	93.43542556	86.30263963	79.80860674	73.89186482	68.49719258
170120A00011	1/20/2017	3.75	1/20/2037	132.2477	120.7061243	110.3206074	100.967634	92.53754857	84.93292948	78.0671641	71.86319651	66.25242627
170124A00017	1/24/2017	2.82	1/23/2032	108.33648	105.2493226	102.292863	99.46038282	96.74555715	94.1424315	91.6453976	89.24917093	86.94876975
170130A00036	1/30/2017	3.11	1/31/2033	110.31299	106.6551094	103.1767241	99.86718538	96.71656816	93.71561299	90.85567632	88.12868493	85.52709413
170130A00039	1/30/2017	2.74	1/31/2028	102.81309	101.7876211	100.7830542	99.79872495	98.83400156	97.88827937	96.96097927	96.0515464	95.15944877
170130A00043	1/30/2017	2.64	1/29/2027	101.41426	100.8989288	100.3900508	99.88748891	99.39111233	98.900794	98.41641049	97.93784184	97.46497147
170203A00012	2/3/2017	3.63	2/2/2035	126.89098	117.5219341	108.9421023	101.080204	93.87177383	87.25847271	81.18747526	75.61092107	70.48542347
170203A00013	2/3/2017	3.67	2/1/2036	129.51688	119.0505123	109.551386	100.9239607	93.0826421	85.95069396	79.45927713	73.54659807	68.157153
170207A00055	2/7/2017	2.36	2/8/2027	101.17201	100.7114194	100.2560965	99.80593884	99.36084939	98.92073361	98.48549941	98.05505712	97.62931937

Parallel-Shift Sensitivity Analysis												
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
170216A00043	2/16/2017	3.17	2/16/2027	102.64343	101.8265357	101.0226467	100.2314506	99.45264841	98.68595023	97.93107525	97.18775128	96.45571442
170216A00044	2/16/2017	3.52	2/17/2032	118.99281	112.8600444	107.0888357	101.655898	96.53956624	91.71967453	87.17744482	82.89538425	78.85719062
170216A00045	2/16/2017	3.73	2/17/2037	132.1784	120.5633813	110.1195573	100.7210448	92.25615609	84.62572781	77.74165643	71.525612	65.90790708
170224A00020	2/24/2017	3.08	2/24/2027	102.63832	101.7992447	100.9738771	100.1618838	99.36294135	98.57673699	97.80296773	97.04134015	96.29156999
170224A00021	2/24/2017	3.4	2/24/2032	118.33784	112.2035721	106.4323686	101.0007991	95.88706241	91.07086576	86.53331318	82.2568024	78.22492997
170224A00039	5/24/2017	3.17	5/24/2027	103.4936	102.4032753	101.3359176	100.2908061	99.2672503	98.26458788	97.28218354	96.31942746	95.37573413
170224A00044	5/24/2017	3.29	5/24/2029	109.95778	106.7977219	103.7461623	100.7987507	97.95133786	95.19996585	92.54085737	89.97040657	87.48517007
170228A00014	2/28/2017	2.89	3/1/2027	102.57076	101.7174261	100.8782654	100.0529307	99.24108253	98.44239224	97.65654188	96.88322367	96.12213958
170309A00014	3/9/2017	2.58	3/9/2027	101.38791	100.8834443	100.3853076	99.893367	99.40749473	98.92756672	98.45346245	97.98506483	97.52226007
170313A00032	3/13/2017	3.69	6/14/2032	120.82701	114.3130148	108.201195	102.4644693	97.07772684	92.0176695	87.2626718	82.79265191	78.58895355
170313A00033	3/13/2017	3.31	3/15/2027	103.00492	102.1114129	101.233415	100.3705234	99.52235044	98.68852135	97.86867414	97.06245888	96.26953724
170313A00034	3/13/2017	3.31	3/15/2027	103.00492	102.1114129	101.233415	100.3705234	99.52235044	98.68852135	97.86867414	97.06245888	96.26953724
170313A00035	3/13/2017	3.31	3/15/2027	103.00492	102.1114129	101.233415	100.3705234	99.52235044	98.68852135	97.86867414	97.06245888	96.26953724
170313A00041	3/13/2017	3.21	3/15/2032	109.55124	106.3577643	103.303935	100.3823323	97.58598713	94.90835158	92.34326997	89.88495287	87.52795278
170313A00045	3/13/2017	3.22	3/15/2032	109.64051	106.4330673	103.3645842	100.4277688	97.61576543	94.92212742	92.34078951	89.86604283	87.4925115
170317A00044	3/17/2017	3.11	3/17/2027	103.00692	102.0551981	101.121439	100.2051303	99.30578259	98.42292501	97.55610386	96.70488204	95.86883825
170322A00022	3/22/2017	3.89	9/23/2041	142.83645	126.2938303	111.9959354	99.61882226	88.88721056	79.56693409	71.45859601	64.39223173	58.22281501
170322A00023	3/22/2017	3.82	9/22/2039	137.30433	122.9596369	110.3516189	99.2568059	89.48172133	80.85871193	73.24237696	66.506507	60.54145751
170322A00024	3/22/2017	3.72	9/22/2036	131.33977	120.1595785	110.0703853	100.9586343	92.72317974	85.2738693	78.5302975	72.42070589	66.88101231
170322A00025	3/22/2017	3.58	3/22/2033	122.00234	114.6746333	107.84886	101.4878602	95.55740688	90.02596379	84.86446072	80.04608904	75.54611501
170322A00026	3/22/2017	3.22	3/22/2028	106.08219	104.1538606	102.2703471	100.4303396	98.63257544	96.8758368	95.15894889	93.48077814	91.84023042
170322A00033	3/22/2017	3.61	3/24/2042	125.81674	115.9868477	107.2036014	99.33898415	92.28203216	85.93642175	80.21841154	75.05508868	70.38287224
170327A00070	3/29/2017	3.05	3/29/2027	102.95827	102.0251918	101.1090104	100.2092684	99.32552604	98.45735939	97.60435924	96.76613062	95.94229217
170327A00072	3/29/2017	3.09	3/29/2027	102.99531	102.0620432	101.1456782	100.2457549	99.36183355	98.49349012	97.64031535	96.80191423	95.97790538
170327A00079	3/27/2019	3.19	3/29/2027	103.02291	102.0904197	101.1748024	100.2755992	99.3923714	98.52469599	97.67216472	96.83438353	96.01097192
170327A00080	3/27/2019	3.43	3/27/2029	109.87765	106.8792579	103.9792157	101.1737613	98.45930179	95.83240115	93.28977214	90.8282691	88.44488106
170406A00029	4/6/2017	3.01	4/6/2027	103.04949	102.0357661	101.0422597	100.0683634	99.11349794	98.17710715	97.25865617	96.35763071	95.47353599
170406A00031	4/6/2017	3.01	4/6/2027	103.04949	102.0357661	101.0422597	100.0683634	99.11349794	98.17710715	97.25865617	96.35763071	95.47353599
170406A00032	4/6/2017	3.01	4/6/2027	103.04949	102.0357661	101.0422597	100.0683634	99.11349794	98.17710715	97.25865617	96.35763071	95.47353599
170406A00033	4/6/2017	3.01	4/6/2027	103.04949	102.0357661	101.0422597	100.0683634	99.11349794	98.17710715	97.25865617	96.35763071	95.47353599
170406A00034	4/6/2017	3.01	4/6/2027	103.04949	102.0357661	101.0422597	100.0683634	99.11349794	98.17710715	97.25865617	96.35763071	95.47353599
170406A00036	4/6/2017	3.07	4/6/2032	109.10773	105.8760409	102.7859108	99.82983759	97.00077248	94.29209056	91.69756243	89.21132791	86.82787162
170407A00001	4/6/2017	2.97	4/6/2027	102.96885	101.9692345	100.9894454	100.0288977	99.08702488	98.16328237	97.25714673	96.36811455	95.49570149

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
170427A00044	4/27/2017	3.02	4/27/2027	103.10711	102.0937795	101.1003454	100.126227	99.17086502	98.23372138	97.31427848	96.41203815	95.52652079
170427A00046	4/27/2017	3.1	4/27/2028	106.14846	104.1198639	102.140736	100.2095549	98.32486011	96.48524582	94.68935849	92.93589451	91.22359799
170427A00047	4/27/2017	3.18	4/27/2029	109.3964	106.3187125	103.3448709	100.4707874	97.69256373	95.0064767	92.40896944	89.89664286	87.46624769
170502A00028	5/2/2017	2.84	5/3/2027	103.03447	102.004019	100.9941511	100.0042507	99.03372987	98.0820236	97.14858858	96.23290227	95.33446189
170511A00011	5/11/2017	2.41	5/11/2027	101.51603	100.9252393	100.343171	99.76961094	99.20435277	98.64719721	98.09795167	97.55642997	97.02245208
170524A00027	5/24/2017	2.32	5/24/2027	101.46937	100.8760878	100.2916345	99.71579473	99.14835726	98.58911816	98.03788046	97.49445383	96.95865431
170609A00043	6/9/2017	3.07	6/9/2032	117.35933	110.9496234	104.9371498	99.29512344	93.99870812	89.02486153	84.35219609	79.96085169	75.83237872
170609A00052	6/11/2018	2.9	6/9/2027	103.2719	102.1394308	101.0317725	99.94811606	98.88768707	97.84974432	96.8335778	95.83850713	94.86388006
170619A00089	6/16/2017	2.79	6/16/2027	103.32459	102.1236943	100.9511614	99.80598981	98.68722509	97.59395669	96.52531566	95.48047223	94.45863363
170619A00092	6/16/2017	2.79	6/16/2027	103.32459	102.1236943	100.9511614	99.80598981	98.68722509	97.59395669	96.52531566	95.48047223	94.45863363
170619A00095	6/16/2017	2.79	6/16/2027	103.32459	102.1236943	100.9511614	99.80598981	98.68722509	97.59395669	96.52531566	95.48047223	94.45863363
170619A00096	6/16/2017	2.79	6/16/2027	103.32459	102.1236943	100.9511614	99.80598981	98.68722509	97.59395669	96.52531566	95.48047223	94.45863363
170619A00101	6/16/2017	2.74	6/16/2027	103.21305	102.0320819	100.8788363	99.75234105	98.65166581	97.5759231	96.52426584	95.4958851	94.49000792
170622A00036	6/22/2017	3.23	6/22/2032	118.0295	111.5779418	105.5273949	99.85072692	94.52278437	89.52023778	84.82143956	80.40629408	76.25613826
170622A00037	6/22/2017	3.27	6/22/2033	120.3837	112.86093	105.8712752	99.37395897	93.3315377	87.70960783	82.47654386	77.60325996	73.06299337
170622A00038	6/22/2017	3.32	6/22/2034	122.9021	114.2995154	106.3798472	99.08491886	92.36181109	86.16235838	80.44269826	75.1628658	70.28642819
170622A00039	6/22/2017	3.36	6/22/2035	125.32572	115.6445232	106.812743	98.75072652	91.38670073	84.65595419	78.50010777	72.86646438	67.7074285
170622A00040	6/22/2017	3.41	6/23/2036	127.72517	116.9630001	107.2334341	98.43087872	90.46108419	83.23987384	76.69201905	70.75024499	65.35435146
170623A00028	6/23/2017	2.79	6/23/2027	103.31058	102.1382999	100.9925851	99.87253742	98.7773013	97.70605879	96.65802759	95.63245908	94.62863654
170711A00010	7/11/2017	2.38	7/12/2027	101.70666	101.029657	100.3641289	99.7097547	99.06622447	98.43324018	97.81051531	97.19777424	96.59475172
170713A00021	7/13/2017	3.25	7/13/2037	123.75407	114.1315896	105.4471686	97.60039593	90.50228707	84.0739193	78.24523664	72.95400302	68.14488439
170803A00020	8/3/2017	2.84	8/3/2027	103.67244	102.3864149	101.1311697	99.90560751	98.70867965	97.53938657	96.39677493	95.27993488	94.18799766
170822A00023	8/23/2017	3.95	8/23/2028	109.11584	106.7303647	104.4095698	102.1513139	99.95354128	97.81427742	95.73162503	93.70376058	91.72893094
170918A00007	9/18/2017	2.8	9/20/2027	103.943	102.5384648	101.1597665	99.80625069	98.47728697	97.17226549	95.89059618	94.6317079	93.39504773
170921A00055	9/21/2017	2.82	9/21/2027	103.97025	102.5314761	101.1205282	99.73666464	98.3791701	97.04735396	95.74054932	94.45811194	93.19941929
170921A00056	9/21/2017	2.82	9/21/2027	103.97025	102.5314761	101.1205282	99.73666464	98.3791701	97.04735396	95.74054932	94.45811194	93.19941929
170921A00057	9/21/2017	2.79	9/21/2027	103.85367	102.4428993	101.0593506	99.70229885	98.37104366	97.06490893	95.7832418	94.52541166	93.29080917
170929A00046	9/29/2017	2.49	9/30/2027	101.94345	101.1835276	100.436781	99.70284804	98.98137731	98.27203057	97.57448239	96.88841946	96.21354001
171011A00013	10/11/2017	2.77	10/13/2026	101.35691	100.8941469	100.435612	99.98125209	99.53101022	99.0848304	98.6426577	98.20443815	97.77011875
171018A00011	10/18/2017	2.68	10/18/2027	104.04046	102.5576126	101.1034449	99.67719863	98.27814003	96.90556057	95.55877592	94.23712481	92.93996814
171026A00010	10/26/2017	2.84	10/26/2026	101.49575	100.9964846	100.5021319	100.0126175	99.52787051	99.04782154	98.57240246	98.10154647	97.63518804
171026A00011	10/26/2017	2.94	10/26/2027	104.39372	102.8880795	101.4119379	99.96450278	98.54501026	97.15272307	95.78692941	94.44694179	93.13209603
171030A00023	10/30/2017	2.9	11/1/2027	104.37523	102.8535122	101.3618874	99.89954285	98.46569204	97.05957587	95.68046174	94.32764236	93.00043463

Parallel-Shift Sensitivity Analysis												
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
171109A00016	11/9/2017	2.94	11/9/2032	115.70005	109.4811276	103.6595536	98.2073271	93.09857746	88.30939165	83.81765549	79.60290877	75.64621277
171129A00020	11/29/2017	2.89	11/30/2026	101.80247	101.2051341	100.6147923	100.0313242	99.45461036	98.88453409	98.32098135	97.7638407	97.21300322
171206A00020	12/6/2017	2.62	12/6/2027	102.34865	101.4660223	100.5993712	99.74825139	98.91223519	98.09091103	97.28388266	96.49076846	95.71120072
171206A00038	12/6/2017	2.69	12/6/2027	104.39991	102.7793658	101.1920287	99.63694853	98.1132089	96.61992786	95.15625635	93.72137667	92.31450097
171206A00048	12/6/2017	3.04	12/6/2032	118.12548	111.2017854	104.7372965	98.69904154	93.05658799	87.78183185	82.84880753	78.23351435	73.91375804
171207A00024	12/7/2017	2.93	12/7/2027	104.72131	103.059596	101.4329433	99.84030141	98.28066311	96.75306094	95.25656545	93.79028324	92.3533552
171207A00025	12/7/2017	2.91	12/7/2027	104.6364	102.993836	101.3858686	99.81145962	98.26961595	96.75938373	95.27984651	93.83012341	92.4093673
171207A00026	12/7/2017	2.93	12/7/2027	104.72131	103.059596	101.4329433	99.84030141	98.28066311	96.75306094	95.25656545	93.79028324	92.3533552
171219A00063	12/19/2017	2.8	12/20/2027	104.68177	103.0210462	101.3948658	99.80221555	98.24212387	96.71365655	95.2159151	93.74803496	92.3091839
171219A00067	12/19/2017	2.72	12/20/2027	104.49114	102.8514919	101.246813	99.676042	98.13815834	96.63218279	95.15717532	93.7122331	92.29648865
180104A00018	1/4/2018	2.97	1/4/2027	102.13188	101.4363438	100.7502762	100.0734815	99.40577247	98.74696705	98.0968879	97.45536241	96.82222249
180104A00023	1/4/2018	2.91	1/4/2028	104.63213	103.0179065	101.4384174	99.89261201	98.37947785	96.89804326	95.44737516	94.02657714	92.63478764
180104A00024	1/4/2018	2.98	1/4/2028	105.03938	103.3207997	101.6396325	99.9947325	98.3850044	96.80939705	95.26690118	93.75654734	92.27740384
180104A00041	1/4/2018	3.08	1/4/2033	116.881	110.4555961	104.4485606	98.82984442	93.57173309	88.64865012	84.03698014	79.71490772	75.66227027
180110A00029	1/10/2018	3.13	1/10/2028	105.30107	103.5800216	101.8955816	100.2466511	98.6321716	97.05112688	95.50254086	93.98547557	92.49902928
180116A00014	1/16/2018	3.01	1/19/2027	102.28247	101.5447691	100.8177104	100.1010637	99.39460613	98.69812136	98.01139901	97.33423466	96.66642954
180116A00015	1/16/2018	3.06	1/18/2028	105.24416	103.5020235	101.7973012	100.1288576	98.49559911	96.89647663	95.33048296	93.79665075	92.2940505
180118A00039	1/18/2018	3.09	1/19/2027	102.34117	101.6032356	100.875941	100.1590607	99.45237195	98.75565826	98.06870928	97.39132051	96.72329317
180126A00011	1/26/2018	2.72	1/26/2028	102.62761	101.691407	100.7725566	99.8705639	98.98495709	98.11528243	97.26110337	96.42199967	95.59756668
180130A00070	1/30/2018	3.14	1/29/2027	102.46341	101.6972094	100.9424547	100.1988935	99.46627804	98.74436801	98.03292995	97.33173716	96.64056947
180207A00003	2/7/2018	3.28	2/7/2028	105.80459	104.0019954	102.2390417	100.5145283	98.82730164	97.17625378	95.56032035	93.97847832	92.42974394
180222A00025	2/22/2018	3.48	2/22/2033	121.57697	114.323073	107.5618621	101.2571573	95.37561444	89.88649191	84.76143448	79.97427665	75.50086301
180222A00027	2/22/2018	3.24	2/22/2028	105.9826	104.1329259	102.3247112	100.5567553	98.82790032	97.13703002	95.48306838	93.86497761	92.28175658
180313A00026	3/13/2018	3.34	3/13/2028	106.23436	104.3288868	102.4671789	100.6479761	98.87005882	97.13225055	95.43341569	93.77245799	92.14831894
180322A00040	3/22/2018	3.16	3/21/2031	110.36558	106.9160678	103.6186583	100.4654198	97.44889082	94.56204577	91.79826685	89.15131784	86.61531977
180322A00044	3/22/2018	3.18	3/22/2033	111.1461	107.3630101	103.7674467	100.3482859	97.09514866	93.99834781	91.04883699	88.2381639	85.55842715
180323A00013	3/23/2018	3.18	3/23/2028	106.13089	104.1972189	102.3085755	100.4636458	98.66115838	96.89988738	95.17865016	93.49630573	91.85175289
180329A00003	3/29/2018	3.08	3/29/2028	105.98729	104.0387856	102.1360096	100.2776147	98.46230031	96.68881269	94.95594279	93.2625244	91.60743235
180402A00013	4/2/2018	2.99	4/3/2028	105.34752	103.559254	101.8135478	100.1090927	98.44463439	96.81896584	95.23092536	93.6793945	92.16329604
180403A00006	4/3/2018	3.07	4/3/2028	106.00937	104.046877	102.1307462	100.2596045	98.43212478	96.64702771	94.90308009	93.1990927	91.53391845
180410A00002	4/10/2018	3.14	4/11/2033	111.10794	107.2828191	103.6492494	100.1957576	96.91165048	93.78695321	90.81235656	87.97916771	85.27926522
180412A00034	4/12/2018	3.23	4/15/2030	112.73462	108.6132415	104.6675213	100.8890409	97.2698265	93.80232719	90.47938986	87.29423626	84.24044131
180412A00036	4/12/2018	3.54	4/15/2038	132.51934	119.7434497	108.3790208	98.26038199	89.24218679	81.19682277	74.01216385	67.5896174	61.84242636

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
180508A00038	5/8/2018	3.57	5/9/2033	112.45743	108.5507885	104.8414505	101.3175032	97.9678508	94.78214869	91.75074725	88.86464047	86.11541861
180517A00018	5/17/2018	3.46	5/17/2033	112.4686	108.5521716	104.8339001	101.3018088	97.94473571	94.75227581	91.71472431	88.82302478	86.06872138
180517A00024	5/17/2018	3.46	5/17/2033	112.4686	108.5521716	104.8339001	101.3018088	97.94473571	94.75227581	91.71472431	88.82302478	86.06872138
180529A00042	5/29/2018	3.42	5/30/2028	107.09409	104.965771	102.890814	100.8675222	98.89426279	96.96946741	95.09162855	93.25929693	91.47107873
180529A00057	5/29/2018	3.09	5/30/2028	105.0936	103.4469772	101.8396513	100.2703716	98.73793746	97.24119626	95.77904142	94.35040994	92.95428034
180530A00024	5/30/2018	3.44	5/30/2029	110.47711	107.2925703	104.2177221	101.2481492	98.37964169	95.60818422	92.92994575	90.34126988	87.83866575
180530A00025	5/30/2018	3.49	5/30/2030	113.92091	109.6581881	105.5813928	101.6813926	97.94955241	94.37770722	90.9581341	87.68352557	84.54696481
180530A00026	5/30/2018	3.55	5/30/2031	117.26049	111.90325	106.8278275	102.0178565	97.45800831	93.13392082	89.03213279	85.14002231	81.44575
180530A00027	5/30/2018	3.61	6/1/2032	120.24176	113.7819506	107.7192602	102.0270698	96.68068736	91.65719465	86.9353109	82.49526725	78.31869164
180530A00028	5/30/2018	3.67	5/31/2033	123.10534	115.5483816	108.5211324	101.983445	95.89842194	90.23213639	84.95337803	80.033422	75.44581873
180530A00030	5/30/2018	3.68	5/30/2034	125.6832	117.0335268	109.063409	101.7154527	94.93740309	88.68166309	82.90485478	77.56742501	72.63328951
180605A00031	6/5/2018	3.37	6/5/2030	107.14759	104.9148101	102.7543826	100.6633601	98.63893771	96.6784447	94.77933715	92.93919101	91.15569556
180615A00039	6/15/2018	3.49	6/15/2028	107.28443	105.1114199	102.9936538	100.9293449	98.91677429	96.95429253	95.04031559	93.1733219	91.35184937
180618A00036	6/18/2018	3.89	6/18/2048	161.19928	136.9424625	117.0741838	100.7456134	87.27853463	76.13008275	66.86494226	59.13338953	52.65392728
180620A00014	6/20/2018	3.4	6/20/2028	107.24691	105.0581346	102.9253077	100.8466041	98.8202731	96.84463481	94.91807671	93.03905027	91.20606791
180620A00038	6/20/2018	3.4	6/20/2028	107.24691	105.0581346	102.9253077	100.8466041	98.8202731	96.84463481	94.91807671	93.03905027	91.20606791
180621A00017	6/21/2018	3.42	6/21/2028	107.29972	105.1075515	102.9714695	100.88964	98.86030607	96.88178222	94.95245051	93.07075734	91.2352103
180622A00004	6/22/2018	3.47	12/22/2028	109.11186	106.391033	103.7526631	101.193724	98.71132547	96.30270321	93.96521217	91.6963206	89.49360428
180622A00005	6/22/2018	3.5	7/2/2029	110.9704	107.6852799	104.5158675	101.4573888	98.50529995	95.65527333	92.90318564	90.24510687	87.67728984
180622A00006	6/22/2018	3.53	12/21/2029	112.63274	108.8435255	105.2041706	101.7078931	98.34825618	95.11915163	92.01478109	89.02963818	86.158492
180628A00068	6/28/2018	3.12	6/28/2028	106.13623	104.1593401	102.2329825	100.3554679	98.52517828	96.7405638	95.00013915	93.30248029	91.64622132
180716A00054	7/16/2018	3.59	7/16/2040	136.62368	121.5223168	108.3507303	96.84730992	86.78737945	77.9778043	70.25240938	63.46808329	57.50146327
180717A00021	7/17/2018	3.34	7/17/2028	107.06898	104.8944763	102.7775813	100.7163873	98.70906329	96.75385205	94.84906631	92.99308554	91.18435274
180718A00008	7/18/2018	3.37	7/18/2028	107.43483	105.1385365	102.9042338	100.7298384	98.61335568	96.55287222	94.54655154	92.59263053	90.68941597
180719A00065	7/19/2018	3.36	7/20/2026	100.79633	100.5707958	100.3462795	100.1227785	99.90028579	99.67879457	99.45829799	99.2387893	99.0202618
180727A00028	7/27/2018	3.25	7/27/2026	100.85268	100.6074358	100.3633897	100.1205328	99.87885622	99.63835143	99.39900988	99.16082311	98.92378277
180727A00039	7/27/2018	3.48	7/27/2028	107.76361	105.4676279	103.2324143	101.0559084	98.93613361	96.87119747	94.85928712	92.89866522	90.98766604
180730A00081	7/30/2018	3.5	7/28/2028	107.81834	105.5190004	103.2805783	101.1010005	98.97828379	96.91052935	94.89591849	92.93270831	91.01922786
180814A00033	8/14/2018	3.25	8/13/2027	104.35455	103.0407882	101.7554725	100.4976779	99.26652112	98.06115703	96.88077629	95.72460356	94.59189573
180816A00038	8/16/2018	3.38	8/16/2028	107.71415	105.3643869	103.0780184	100.852922	98.68706635	96.57850241	94.52535917	92.52584008	90.57821946
180820A00055	8/20/2018	3.37	8/21/2028	107.73521	105.3716082	103.072065	100.8344567	98.65674173	96.53695984	94.47322794	92.46373669	90.50674696
180823A00053	8/23/2018	3.2	8/23/2028	107.49751	105.1283689	102.8236289	100.5811577	98.39890566	96.27490404	94.20726131	92.19415953	90.23385099
180823A00055	8/23/2018	3.44	8/23/2033	122.46822	114.6850433	107.4640738	100.761549	94.5373349	88.75460552	83.37955402	78.38113078	73.73080528

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
180828A00032	8/28/2018	3.49	8/29/2033	122.87596	115.0618063	107.8129095	101.0852276	94.83836507	89.03525695	83.64187859	78.62698184	73.96185542
180904A00012	9/4/2018	3.35	9/4/2030	114.42169	109.87161	105.5309713	101.3890455	97.43571141	93.66141409	90.05713066	86.61433787	83.32498194
180904A00014	9/4/2018	3.37	9/1/2028	107.8331	105.4383329	103.1091406	100.8433728	98.63895948	96.49391009	94.40631003	92.37431726	90.39615915
180905A00017	9/5/2018	3.43	9/6/2033	120.22945	113.2660871	106.7920668	100.7696325	95.16415491	89.94385454	85.07955217	80.54444295	76.31389105
180910A00028	9/10/2018	3.56	9/9/2033	123.46836	115.6024409	108.3072493	101.538174	95.25431063	89.41813769	83.99522059	78.95394335	74.26526456
180910A00033	9/10/2018	3.43	9/8/2028	108.04081	105.6239295	103.2737232	100.9879806	98.76458166	96.60148865	94.49674214	92.44845757	90.45482196
180912A00011	9/12/2018	3.41	9/11/2026	101.3361	100.962277	100.5912254	100.2229105	99.85730224	99.49437058	99.13408614	98.77641991	98.4213433
180913A00012	9/13/2018	3.31	9/13/2033	112.36622	108.277142	104.4033346	100.731302	97.24849853	93.94325822	90.8047272	87.82280141	84.98806964
180913A00033	9/13/2018	3.31	9/13/2033	112.36622	108.277142	104.4033346	100.731302	97.24849853	93.94325822	90.8047272	87.82280141	84.98806964
180914A00013	9/14/2018	3.48	9/14/2028	108.21724	105.7814026	103.413173	101.110304	98.87063233	96.69207925	94.57264644	92.51041248	90.50352942
180914A00029	9/14/2018	3.48	9/14/2028	108.21724	105.7814026	103.413173	101.110304	98.87063233	96.69207925	94.57264644	92.51041248	90.50352942
180914A00049	9/14/2018	3.37	9/14/2033	112.61168	108.5136331	104.6313321	100.9512511	97.46081631	94.14833604	91.00293224	88.01447841	85.17354247
180920A00014	9/20/2018	3.59	9/20/2028	108.54099	106.0843412	103.6962917	101.3745439	99.11688979	96.92120804	94.78545997	92.70768586	90.68600144
180925A00013	9/25/2018	3.41	9/25/2028	104.35687	103.066026	101.8034468	100.56827	99.35967047	98.17685498	97.01906071	95.88555383	94.77562811
180925A00116	9/25/2018	3.28	9/25/2028	104.26591	102.9751417	101.71265	100.4775798	99.26910479	98.08643058	96.92879337	95.79545837	94.68571846
181004A00029	10/4/2018	3.7	10/4/2028	108.94742	106.4467444	104.0169022	101.6554869	99.36018593	97.12877916	94.9591342	92.84920262	90.79701603
181010A00025	10/10/2018	3.48	10/10/2030	108.23831	105.8040962	103.4539436	101.1842362	98.99154293	96.87260448	94.8243234	92.84375497	90.92809857
181029A00051	2/5/2019	3.69	2/5/2029	110.14296	107.283742	104.5142903	101.831212	99.23126353	96.71134713	94.26850277	91.89990111	89.60283656
181029A00097	10/29/2018	3.53	10/27/2028	108.15081	105.7659739	103.4500798	101.2006806	99.01543739	96.89210991	94.82855153	92.82270464	90.8725963
181031A00070	3/1/2019	3.77	3/1/2029	110.6278	107.6893696	104.8451051	102.0914912	99.42516197	96.84289458	94.34160274	91.91832994	89.5702434
181109A00028	11/9/2018	3.72	11/9/2026	102.07959	101.5397081	101.0055456	100.4770115	99.95401702	99.4364753	98.92430118	98.41741132	97.91572406
181109A00029	11/9/2018	3.72	11/9/2026	102.07959	101.5397081	101.0055456	100.4770115	99.95401702	99.4364753	98.92430118	98.41741132	97.91572406
181214A00030	12/14/2018	3.47	12/14/2033	121.14158	113.769225	106.9313265	100.5853332	94.69233341	89.21672035	84.12589371	79.38998941	74.98163522
181218A00040	12/18/2018	3.23	6/18/2030	106.94854	104.7173391	102.5585257	100.4691475	98.44639488	96.48759258	94.59019268	92.75176743	90.9700028
181220A00041	12/20/2018	3.36	12/18/2026	102.21436	101.566097	100.9260593	100.2940952	99.67005255	99.05378278	98.44514111	97.84398633	97.25018069
181226A00030	12/26/2018	2.91	12/26/2028	104.15536	102.7388468	101.3554087	100.0040012	98.68361748	97.39329086	96.13209271	94.89913064	93.6935468
181227A00028	12/27/2018	3.46	12/27/2028	109.13056	106.395841	103.7443149	101.172917	98.67871948	96.25892262	93.91084823	91.63193335	89.41972442
190102A00015	1/2/2019	2.97	1/3/2034	111.00596	106.9368467	103.0866527	99.44129701	95.98771932	92.71379944	89.60828285	86.66071274	83.86136782
190102A00020	1/2/2019	2.97	1/3/2034	111.00596	106.9368467	103.0866527	99.44129701	95.98771932	92.71379944	89.60828285	86.66071274	83.86136782
190102A00022	1/2/2019	2.97	1/3/2034	111.00596	106.9368467	103.0866527	99.44129701	95.98771932	92.71379944	89.60828285	86.66071274	83.86136782
190102A00024	1/2/2019	2.97	1/3/2034	111.00596	106.9368467	103.0866527	99.44129701	95.98771932	92.71379944	89.60828285	86.66071274	83.86136782
190102A00050	1/2/2019	3.38	1/3/2034	122.85678	114.6970833	107.1525547	100.1732781	93.71365066	87.73198434	82.19014982	77.05325509	72.28935436
190104A00033	1/4/2019	3.37	1/31/2029	109.1949	106.3640835	103.6218499	100.9648346	98.38982634	95.8937598	93.47370764	91.12687312	88.85058315

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
190104A00034	1/4/2019	3.18	1/4/2029	107.23667	104.8530777	102.5407136	100.2969452	98.11925724	96.00524573	93.95261241	91.95915912	90.02278258
190104A00038	1/4/2019	3.25	1/4/2029	108.3954	105.7205901	103.1284872	100.6159767	98.18008898	95.81798732	93.52696107	91.30441893	89.14788272
190111A00026	1/11/2019	3.48	1/11/2034	123.68083	115.4687074	107.8765757	100.85404	94.35506181	88.33756298	82.76306525	77.59636397	72.8052332
190118A00006	1/18/2019	3.14	1/18/2034	112.11795	107.86239	103.8396021	100.0344626	96.43295144	93.0220647	89.78973404	86.72475265	83.8167078
190122A00045	1/22/2019	3.17	1/22/2027	102.47004	101.7226615	100.9861867	100.2603787	99.54500669	98.83984655	98.14468052	97.45929699	96.7834903
190122A00046	1/22/2019	3.29	1/22/2029	109.06533	106.2570108	103.5360238	100.8990756	98.34302128	95.86485775	93.46171595	91.13085378	88.86964941
190129A00073	1/29/2019	3.11	1/29/2029	104.4857	103.023268	101.5956728	100.2017945	98.8405572	97.51092834	96.21191648	94.9425694	93.70197216
190131A00013	1/31/2019	3.48	1/31/2034	121.18599	113.6598072	106.6879744	100.2258018	94.23244829	88.67057341	83.50601949	78.70752436	74.24646131
190131A00019	1/31/2019	3.44	1/30/2034	123.48874	115.2330348	107.6044377	100.5516672	94.0279064	87.99039004	82.40003331	77.22109615	72.4208801
190131A00023	1/31/2019	3.02	1/30/2034	111.71095	107.4277734	103.3810133	99.5551818	95.93592844	92.50995097	89.26491152	86.18935992	83.27266355
190205A00017	2/5/2019	3.36	2/5/2029	108.79871	106.0432138	103.3749617	100.7907014	98.28732486	95.86185622	93.51144579	91.23336382	89.02499478
190205A00020	2/5/2019	3.32	2/5/2029	108.82818	106.0697172	103.3986429	100.8117039	98.30578483	95.87790298	93.52520212	91.24494635	89.03451431
190205A00021	2/5/2019	3.32	2/5/2029	108.82818	106.0697172	103.3986429	100.8117039	98.30578483	95.87790298	93.52520212	91.24494635	89.03451431
190205A00022	2/5/2019	3.32	2/5/2029	108.82818	106.0697172	103.3986429	100.8117039	98.30578483	95.87790298	93.52520212	91.24494635	89.03451431
190205A00023	2/5/2019	3.32	2/5/2029	108.82818	106.0697172	103.3986429	100.8117039	98.30578483	95.87790298	93.52520212	91.24494635	89.03451431
190225A00026	2/25/2019	3.43	2/27/2034	123.61159	115.2685098	107.5651222	100.4487591	93.87134654	87.78898483	82.16156716	76.95243391	72.12806034
190301A00012	3/1/2019	3.41	3/1/2029	109.59226	106.6687743	103.8390921	101.0997088	98.44726973	95.87856313	93.39051312	90.98017325	88.64472039
190305A00015	3/5/2019	3.32	3/5/2029	108.91862	106.0867325	103.3468507	100.6954537	98.12918093	95.64481869	93.23929331	90.90966408	88.65311666
190308A00016	3/8/2019	3.18	3/8/2034	118.73889	111.6052082	104.9919293	98.85715864	93.16262221	87.87333534	82.95730258	78.38524647	74.13036228
190308A00026	3/8/2019	3.18	3/8/2034	118.73889	111.6052082	104.9919293	98.85715864	93.16262221	87.87333534	82.95730258	78.38524647	74.13036228
190315A00017	3/15/2019	2.88	3/15/2034	111.20932	106.9015395	102.8337859	98.9901924	95.35607155	91.91781723	88.66281757	85.57937533	82.65663513
190315A00019	3/15/2019	2.88	3/15/2034	111.20932	106.9015395	102.8337859	98.9901924	95.35607155	91.91781723	88.66281757	85.57937533	82.65663513
190315A00023	3/15/2019	2.88	3/15/2034	111.20932	106.9015395	102.8337859	98.9901924	95.35607155	91.91781723	88.66281757	85.57937533	82.65663513
190315A00029	3/15/2019	2.88	3/15/2034	111.20932	106.9015395	102.8337859	98.9901924	95.35607155	91.91781723	88.66281757	85.57937533	82.65663513
190327A00030	3/27/2019	2.9	3/27/2036	112.70298	107.5266465	102.6940927	98.17833867	93.95476737	90.00089713	86.29618043	82.82182294	79.5606207
190402A00004	4/2/2019	2.9	4/2/2029	108.54194	105.5426823	102.642563	99.83776845	97.12465338	94.49973246	91.95967243	89.50128455	87.1215175
190402A00005	4/2/2019	2.77	4/2/2032	111.17415	106.731103	102.5214006	98.53085296	94.7462331	91.15520129	87.74624038	84.50859597	81.43222128
190403A00010	4/3/2019	3.08	4/3/2029	108.58736	105.6424898	102.796131	100.04442	97.3836639	94.81033603	92.32106755	89.9126393	87.58197422
190403A00013	4/3/2019	3.05	4/3/2029	108.3445	105.4562231	102.6640493	99.96421348	97.35312186	94.82734237	92.38359621	90.01875011	87.72980893
190403A00014	4/3/2019	3.05	4/3/2029	108.3445	105.4562231	102.6640493	99.96421348	97.35312186	94.82734237	92.38359621	90.01875011	87.72980893
190409A00019	4/9/2019	2.91	4/9/2029	108.62562	105.6055634	102.685962	99.86292376	97.13273209	94.49183462	91.93683505	89.46448534	87.07167839
190426A00023	4/26/2019	2.91	6/24/2026	100.4646	100.3117488	100.1593745	100.0074708	99.85603563	99.7050668	99.55456213	99.4045195	99.25493676
190501A00015	5/1/2019	2.78	5/1/2029	104.37134	102.7444179	101.159394	99.6148459	98.10941262	96.64178939	95.21072504	93.81501941	92.45352079

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
190502A00016	5/2/2019	2.87	5/1/2026	100.26627	100.1776038	100.0890952	100.0007437	99.91254893	99.82451046	99.73662791	99.64890085	99.5613289
190506A00026	5/6/2019	3.03	5/4/2029	108.66118	105.6364275	102.7149407	99.89257015	97.16536231	94.52954646	91.98152509	89.51786477	87.13528754
190515A00035	5/15/2019	2.82	2/15/2029	107.64952	104.8410633	102.1228779	99.49156588	96.94387472	94.476692	92.08703852	89.7720618	87.52903001
190520A00020	5/20/2019	2.39	5/20/2026	100.14703	100.0914304	100.0359137	99.98047479	99.92511363	99.86983001	99.81462378	99.75949476	99.70444278
190529A00061	5/29/2019	2.46	5/29/2026	100.21281	100.1322475	100.0518202	99.97152526	99.89136232	99.81133108	99.73143124	99.65166248	99.57202448
190531A00037	5/31/2019	2.61	5/31/2029	108.08159	104.9272087	101.8819702	98.94147163	96.10151236	93.35808628	90.70737163	88.14572133	85.66965376
190531A00038	5/31/2019	2.82	5/31/2034	119.23407	110.8129488	103.0601232	95.91882336	89.33738543	83.26876865	77.67011921	72.50237746	67.72992381
190605A00007	6/5/2019	2.47	6/5/2026	100.47577	100.2927239	100.1103543	99.92865431	99.74762031	99.56724856	99.38753542	99.20847726	99.03007047
190605A00023	6/5/2019	2.64	6/5/2029	107.82307	104.7363599	101.7574078	98.88178229	96.1052643	93.42383562	90.83366768	88.33111124	85.91268665
190605A00024	6/5/2019	2.64	6/5/2029	107.82307	104.7363599	101.7574078	98.88178229	96.1052643	93.42383562	90.83366768	88.33111124	85.91268665
190605A00025	6/5/2019	2.64	6/5/2029	107.82307	104.7363599	101.7574078	98.88178229	96.1052643	93.42383562	90.83366768	88.33111124	85.91268665
190605A00027	6/5/2019	2.64	6/5/2029	107.82307	104.7363599	101.7574078	98.88178229	96.1052643	93.42383562	90.83366768	88.33111124	85.91268665
190606A00027	6/6/2019	2.51	6/5/2026	100.26907	100.169059	100.0692602	99.9696682	99.87028221	99.77110164	99.67212581	99.57335407	99.47478578
190606A00028	6/6/2019	2.74	6/6/2029	108.33904	105.1685071	102.1079993	99.1530633	96.29945012	93.54310845	90.88017428	88.30696091	85.81994966
190606A00029	6/6/2019	2.96	6/6/2034	119.88033	111.4409446	103.6710001	96.51361396	89.91702381	83.83410172	78.22191669	73.04134063	68.25669316
190620A00033	6/20/2019	2.1	6/20/2029	103.52525	101.8655315	100.2494968	98.67563745	97.14250981	95.6487309	94.19297544	92.77397296	91.39050513
190625A00023	6/25/2019	2.47	6/25/2027	102.95126	101.7756784	100.6268759	99.50394125	98.40600811	97.33224848	96.28187057	95.25411684	94.24826215
190628A00007	6/28/2019	2.28	6/28/2034	108.60306	104.3912823	100.4174326	96.66550991	93.1207218	89.76938527	86.59883542	83.59734246	80.75403598
190702A00068	7/2/2019	2.69	7/1/2039	119.58999	109.0096813	99.6081249	91.2413349	83.78396324	77.12677572	71.17448452	65.84388371	61.06224384
190702A00071	7/2/2019	2.69	7/1/2039	119.58999	109.0096813	99.6081249	91.2413349	83.78396324	77.12677572	71.17448452	65.84388371	61.06224384
190703A00017	7/3/2019	2.33	5/4/2026	100.03016	100.0190467	100.0079449	99.99685369	99.98577304	99.97470294	99.96364337	99.95259432	99.94155577
190708A00028	7/8/2019	2.57	7/2/2029	107.76648	104.6136633	101.5730459	98.63992776	95.80983698	93.07851861	90.44192254	87.89619208	85.43765327
190708A00029	7/8/2019	2.57	7/2/2029	107.76648	104.6136633	101.5730459	98.63992776	95.80983698	93.07851861	90.44192254	87.89619208	85.43765327
190708A00030	7/8/2019	2.57	7/2/2029	107.76648	104.6136633	101.5730459	98.63992776	95.80983698	93.07851861	90.44192254	87.89619208	85.43765327
190708A00032	7/8/2019	2.58	7/2/2029	107.63788	104.490853	101.4557574	98.52790237	95.70282941	92.97629615	90.34426435	87.80288852	85.34850523
190712A00016	7/12/2019	2.39	7/12/2029	104.00891	102.30136	100.6395533	99.02188619	97.44682655	95.91290759	94.41872436	92.96293067	91.54423621
190718A00012	7/18/2019	2.55	7/18/2029	107.3688	104.3563178	101.4502968	98.64632991	95.9402175	93.32795857	90.80574025	88.36992768	86.01705455
190724A00021	7/24/2019	2.33	7/23/2027	103.03152	101.7771705	100.5532663	99.35870602	98.1924439	97.05348344	95.9408744	94.85371021	93.79112545
190724A00024	7/24/2019	2.49	7/24/2029	108.05734	104.7549521	101.5712399	98.50121369	95.54012694	92.68346412	89.92692751	87.26642505	84.69805894
190726A00017	7/26/2019	2.44	7/24/2026	100.61831	100.3819374	100.146683	99.9125395	99.67949916	99.44755411	99.21669658	98.98691892	98.75821352
190802A00011	8/2/2019	2.01	8/2/2029	103.53746	101.7948642	100.0998382	98.45068925	96.84580036	95.28362425	93.76267977	92.28154861	90.83887211
190807A00021	8/7/2019	2	8/7/2026	100.59914	100.323975	100.0503222	99.77816917	99.50750356	99.23831312	98.97058576	98.70430949	98.43947249
190809A00020	8/9/2019	2.44	8/9/2034	116.3979	107.9065823	100.1057538	92.9354836	86.34134078	80.27386364	74.68808181	69.54308674	64.80164528

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
190809A00021	8/9/2019	2.12	8/9/2029	106.92775	103.6009325	100.3951911	97.30540968	94.32672577	91.45451216	88.68436377	86.0120854	83.43368032
190813A00051	8/13/2019	2.19	8/13/2029	106.76251	103.531625	100.4191984	97.42024145	94.53000329	91.74395771	89.05779123	86.46739191	83.96883887
190813A00052	8/13/2019	2.24	8/13/2029	106.76171	103.5338694	100.424292	97.42800284	94.54026189	91.75655291	89.07257181	86.48421548	83.98757132
190814A00003	8/14/2019	2.01	8/14/2029	106.58684	103.2522711	100.0395347	96.94348769	93.95923982	91.08213578	88.30774239	85.63183653	83.05039378
190819A00030	8/19/2019	2.01	8/20/2029	106.61675	103.2655965	100.0373784	96.92691928	93.9292881	91.03978907	88.25394876	85.56750427	82.97639196
190820A00021	8/20/2019	2.13	8/20/2029	106.81449	103.4651358	100.2385046	97.12943374	94.13300533	91.24453567	88.45956271	85.77383416	83.18329638
190823A00009	8/23/2019	1.8	8/23/2029	103.13922	101.4184579	99.74455689	98.11585235	96.53075399	94.98773985	93.4853529	92.02219767	90.59693726
190826A00018	8/26/2019	1.9	8/27/2029	106.28032	102.916047	99.67584434	96.55448971	93.54700991	90.64866673	87.85494446	85.16153823	82.56434299
190826A00030	8/26/2019	1.72	8/26/2026	100.6419	100.3137485	99.98774325	99.66386016	99.34207849	99.02237779	98.70473786	98.3891388	98.07556094
190826A00032	8/26/2019	1.72	8/24/2029	103.02795	101.2923435	99.60417921	97.96177194	96.36350867	94.80784573	93.29330533	91.81847219	90.38199048
190826A00058	8/26/2019	1.91	8/26/2026	100.68488	100.3568595	100.030982	99.70722303	99.38556197	99.06597843	98.74845229	98.43296372	98.11949311
190826A00060	8/26/2019	2.02	8/26/2027	102.72683	101.3973455	100.0928627	98.81271235	97.55624526	96.32283545	95.11187898	93.922793	92.75501482
190826A00063	8/26/2019	2.05	8/28/2028	104.67731	102.3312572	100.0494252	97.82969422	95.67003075	93.56848025	91.52316342	89.5322728	87.59406962
190826A00065	8/26/2019	2.09	8/28/2029	106.72067	103.3514603	100.1064019	96.98027473	93.96810796	91.06516528	88.26693229	85.56910492	82.96757847
190828A00015	8/28/2019	2.04	8/28/2029	106.55191	103.1855459	99.94324995	96.81981035	93.81025906	90.90986225	88.11410793	85.41869434	82.819519
190828A00019	8/28/2019	2	3/28/2028	103.76665	101.8450729	99.96859703	98.13588916	96.3456688	94.59670139	92.88779632	91.21780505	89.58561934
190828A00020	8/28/2019	1.95	5/28/2027	102.19577	101.1019219	100.0313874	98.98342963	97.95734058	96.95244137	95.96808104	95.00363502	94.05850383
190829A00032	8/29/2019	1.69	8/28/2026	100.40197	100.1933309	99.98573366	99.77917421	99.57364393	99.3691343	99.16563692	98.96314345	98.76164569
190829A00039	8/29/2019	1.85	8/29/2034	107.05409	102.6987895	98.59730383	94.73213613	91.08714241	87.64741476	84.39917796	81.32969542	78.42718346
190829A00045	8/29/2019	1.9	8/28/2026	100.69317	100.3595909	100.0282165	99.69902889	99.37200651	99.04712803	98.72437241	98.4037189	98.08514702
190830A00002	8/30/2019	1.93	8/28/2026	100.70318	100.3695749	100.0381798	99.70897154	99.38192862	99.05702971	98.73425376	98.41358002	98.094988
190905A00019	9/5/2019	2.08	9/5/2029	106.50483	103.2265424	100.0704261	97.03125557	94.10405391	91.2840834	88.56683288	85.94800553	83.42350754
190905A00021	9/5/2019	2.08	9/5/2029	106.50483	103.2265424	100.0704261	97.03125557	94.10405391	91.2840834	88.56683288	85.94800553	83.42350754
190905A00023	9/5/2019	2.08	9/5/2029	106.50483	103.2265424	100.0704261	97.03125557	94.10405391	91.2840834	88.56683288	85.94800553	83.42350754
190905A00024	9/5/2019	2.08	9/5/2029	106.50483	103.2265424	100.0704261	97.03125557	94.10405391	91.2840834	88.56683288	85.94800553	83.42350754
190905A00025	9/5/2019	2.08	9/5/2029	106.50483	103.2265424	100.0704261	97.03125557	94.10405391	91.2840834	88.56683288	85.94800553	83.42350754
190910A00044	9/10/2019	2.02	9/10/2026	100.98693	100.5362696	100.0896477	99.64701103	99.20830625	98.77348095	98.34248366	97.91526381	97.49177173
190911A00016	9/11/2019	1.9	9/11/2029	103.42201	101.6388537	99.90530755	98.21958212	96.57997033	94.9848391	93.43262552	91.92183339	90.45102979
190913A00018	9/13/2019	2.11	9/11/2026	100.55512	100.3123746	100.0710382	99.83109502	99.59253182	99.35533557	99.11949341	98.88499264	98.65182072
190923A00012	9/23/2019	2.43	9/25/2034	116.48207	107.8645734	99.95763168	92.69880676	86.03144891	79.90413267	74.27015092	69.08706032	64.31627255
190923A00020	9/23/2019	2.05	9/24/2029	106.9355	103.4831924	100.1608017	96.96276131	93.88377617	90.91880503	88.06304676	85.31192757	82.66108901
190925A00009	9/25/2019	2	9/25/2026	101.05768	100.5690245	100.0851311	99.60592754	99.13134575	98.66131885	98.19578128	97.73466873	97.27791812
190926A00002	9/30/2019	2.01	9/29/2034	107.87728	103.4054974	99.1987865	95.23858682	91.50779179	87.99062376	84.67252136	81.54003711	78.58074431

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
190926A00015	9/26/2019	2.32	11/26/2030	110.04114	105.3684399	100.9219933	96.68963943	92.65994115	88.82213359	85.166081	81.68223653	78.36160476
190926A00016	9/26/2019	2.28	5/24/2030	108.8844	104.7408643	100.7786976	96.98898565	93.36330331	89.8936838	86.57259092	83.39289327	80.34784029
190926A00017	9/26/2019	2.23	9/26/2029	107.35693	103.8972185	100.567696	97.36279012	94.27719233	91.30584868	88.44394604	85.68689936	83.03033958
190930A00075	9/30/2019	2.19	9/29/2027	103.12758	101.7041662	100.307354	98.93646543	97.59084191	96.26984665	94.97286385	93.69929775	92.44857188
190930A00077	9/30/2019	2.23	9/28/2029	107.36828	103.9028444	100.5680144	97.3581847	94.26802251	91.29245117	88.4266363	85.66597294	83.00607342
191004A00001	10/4/2019	2.47	10/4/2034	116.31733	107.7082244	99.81006452	92.56026636	85.90205901	79.78391681	74.15905044	68.9849497	64.22297252
191004A00002	10/4/2019	2.08	10/4/2029	106.87922	103.4060726	100.0645006	96.84882724	93.75365537	90.77384811	87.90451503	85.14099891	82.47886334
191004A00003	10/4/2019	1.89	10/5/2026	100.90648	100.4670823	100.0315082	99.59970781	99.17163213	98.74723306	98.32646334	97.90927651	97.4956269
191004A00017	10/4/2019	2.02	10/4/2029	106.43362	103.0862648	99.86632337	96.76822271	93.7866639	90.91660889	88.15326609	85.49207685	82.92870275
191004A00019	10/4/2019	2.02	10/4/2029	106.43362	103.0862648	99.86632337	96.76822271	93.7866639	90.91660889	88.15326609	85.49207685	82.92870275
191004A00022	10/4/2019	2.02	10/4/2029	106.43362	103.0862648	99.86632337	96.76822271	93.7866639	90.91660889	88.15326609	85.49207685	82.92870275
191004A00023	10/4/2019	2.02	10/4/2029	106.43362	103.0862648	99.86632337	96.76822271	93.7866639	90.91660889	88.15326609	85.49207685	82.92870275
191004A00032	10/4/2019	2.01	1/3/2028	103.33618	101.6512867	100.0019892	98.38722145	96.80596367	95.25723644	93.74009857	92.2536452	90.79700605
191007A00029	10/7/2019	1.88	10/9/2029	106.41824	102.9343638	99.58317058	96.35890945	93.2561118	90.26957427	87.39434432	84.6257068	81.95917121
191008A00007	10/8/2019	1.67	10/9/2029	103.07345	101.2547585	99.48759158	97.77006698	96.10038741	94.47683432	92.89776379	91.36160278	89.86684549
191008A00014	10/8/2019	1.85	10/8/2026	101.06318	100.5332423	100.0088852	99.490017	98.97655162	98.46840482	97.96549404	97.46773847	96.97505893
191009A00009	10/9/2019	1.8	10/9/2026	100.56277	100.2779796	99.9951486	99.71425398	99.43527395	99.15818706	98.88297217	98.60960851	98.33807558
191011A00027	10/11/2019	1.84	10/11/2029	103.38858	101.564129	99.79137589	98.06843064	96.3934896	94.76482809	93.18079642	91.63981598	90.14037568
191015A00025	10/15/2019	2.01	10/15/2029	103.5934	101.766769	99.99186732	98.26680546	96.58977944	94.95906426	93.37300983	91.83003715	90.32863473
191017A00022	10/17/2019	2.25	7/17/2028	104.90787	102.6716423	100.4942158	98.37361028	96.30793048	94.2953607	92.33416077	90.42266216	88.55926433
191017A00026	10/17/2019	2.3	7/17/2029	107.19371	103.9291358	100.7813282	97.74539915	94.81670314	91.99081915	89.26353801	86.63085074	84.08893749
191021A00021	10/21/2019	2.22	12/21/2027	103.62126	101.9687104	100.3505694	98.76582562	97.21351016	95.69269174	94.20247464	92.74199702	91.31042928
191025A00009	10/25/2019	2.26	5/25/2029	106.76081	103.6477864	100.6421404	97.73955969	94.93592777	92.227318	89.60998348	87.08034759	84.63499521
191025A00010	10/25/2019	2.24	7/25/2028	104.93126	102.6733209	100.4752162	98.33491039	96.25045882	94.21999947	92.24174854	90.31399642	88.43510387
191031A00033	10/31/2019	2.2	5/31/2028	104.52061	102.4173157	100.3669417	98.36779718	96.41826008	94.51677201	92.66183541	90.8520106	89.08591306
191101A00004	11/1/2019	1.91	11/1/2029	106.0212	102.8078214	99.71638897	96.74152791	93.87813182	91.12134936	88.46656981	85.90940962	83.44569975
191101A00005	11/1/2019	1.83	11/2/2026	101.20691	100.6108142	100.0217553	99.43961193	98.86426259	98.29558873	97.73347453	97.17780681	96.62847499
191104A00022	11/4/2019	2.17	8/4/2027	102.82067	101.5382265	100.2862179	99.06356664	97.86924365	96.70226764	95.56170235	94.446654	93.35626885
191104A00023	11/4/2019	2.24	8/4/2028	104.98862	102.7032169	100.4789542	98.31375087	96.20561749	94.15264871	92.15301881	90.20497753	88.30684633
191104A00024	11/4/2019	2.26	8/3/2029	107.15674	103.8472573	100.657571	97.58261721	94.61758473	91.75789687	88.99919806	86.33734157	83.76837792
191104A00025	11/4/2019	2.33	8/2/2030	109.47655	105.1309535	100.9828679	97.02220653	93.23946181	89.62566519	86.17235305	82.87153507	79.71566477
191105A00007	11/5/2019	1.98	11/5/2026	101.15542	100.6290657	100.1081835	99.59268656	99.08249172	98.5775174	98.07768371	97.58291238	97.09312673
191105A00012	11/5/2019	2.07	11/3/2034	108.20853	103.6809721	99.42411415	95.41884382	91.64756096	88.09404313	84.74332802	81.58160654	78.59612579

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
191106A00022	11/6/2019	2.34	1/2/2030	108.30608	104.5640941	100.9720004	97.52294536	94.21042824	91.02828379	87.97066252	85.03201249	82.20706219
191108A00013	11/8/2019	2.25	11/8/2029	107.88129	104.2907775	100.8396601	97.5217684	94.33124283	91.26251449	88.31028915	85.4695321	82.73545383
191108A00014	11/8/2019	2.25	11/8/2029	107.88129	104.2907775	100.8396601	97.5217684	94.33124283	91.26251449	88.31028915	85.4695321	82.73545383
191112A00022	11/12/2019	2.36	11/13/2029	107.80216	104.3275806	100.9881498	97.77781805	94.69083977	91.72176022	88.86539873	86.11683319	83.47138555
191112A00023	11/12/2019	2.36	11/13/2029	107.80216	104.3275806	100.9881498	97.77781805	94.69083977	91.72176022	88.86539873	86.11683319	83.47138555
191113A00013	11/13/2019	2.17	11/13/2026	101.43726	100.8107657	100.1920469	99.58095729	98.97735601	98.38110564	97.7920721	97.21012458	96.63513541
191115A00028	11/15/2019	2.34	9/28/2029	107.74898	104.2769794	100.9357686	97.71973404	94.62353668	91.64209385	88.77056543	86.00434094	83.33902744
191115A00029	11/15/2019	2.07	11/15/2029	103.74326	101.8939571	100.0977362	98.35263396	96.6567776	95.00837706	93.4057208	91.84717183	90.33116383
191115A00030	11/15/2019	2.35	11/9/2029	108.02543	104.4352587	100.9843959	97.66667515	94.47624211	91.40753312	88.45525881	85.61438904	82.88013862
191120A00005	11/20/2019	2.63	11/20/2034	117.8481	109.054423	100.9952928	93.60525353	86.82500342	80.60078978	74.88386334	69.62998892	64.79900618
191120A00006	11/20/2019	2.67	11/20/2035	119.55471	109.7430154	100.833586	92.73823821	85.37784114	78.68134866	72.5849353	67.03122861	61.96862675
191120A00024	11/20/2019	2.23	11/16/2029	107.63672	104.0340971	100.5719203	97.24394568	94.04424548	90.96718744	88.0074185	85.15984928	82.41963948
191121A00009	11/21/2019	2.55	11/21/2036	120.0472	109.2465127	99.53209306	90.78827314	82.91227521	75.81271512	69.40828647	63.62660262	58.40317698
191121A00010	11/21/2019	2.59	11/20/2037	121.0955	109.3328922	98.84985303	89.49934372	81.15195442	73.69371128	67.02416415	61.05471961	55.70718701
191121A00034	11/21/2019	2.28	11/2/2029	107.73351	104.167913	100.7401428	97.44412762	94.27409855	91.22457133	88.29033084	85.46641626	82.74810722
191122A00003	11/22/2019	2.32	11/22/2039	114.66529	105.2375191	96.8204811	89.29277876	82.54863843	76.495795	71.05367445	66.15183164	61.72860596
191122A00018	11/26/2019	3.11	11/22/2039	128.21387	114.3013888	102.1108647	91.41693536	82.02492802	73.76653894	66.49613766	60.08760546	54.43162861
191122A00020	11/26/2019	3.2	11/23/2037	127.3351	115.2623201	104.4906858	94.8714204	86.27353285	78.58160579	71.69387053	65.52052861	59.98228737
191122A00021	11/26/2019	3.4	11/22/2038	130.7687	117.5873848	105.9270934	95.60165553	86.44867765	78.32639622	71.11095889	64.69407616	58.98099139
191125A00036	11/25/2019	2.29	11/23/2029	107.89421	104.2675881	100.7828835	97.43376635	94.21422282	91.11854043	88.14129122	85.2773159	82.52170886
191126A00026	11/26/2019	1.91	11/25/2026	101.22765	100.6456603	100.0703549	99.50161459	98.93932745	98.38338405	97.83367745	97.29010309	96.75255873
191203A00009	12/3/2019	2.21	12/3/2029	107.37611	103.8623806	100.4870575	97.24385621	94.126821	91.13030189	88.24893702	85.47763596	82.81156421
191203A00010	12/3/2019	2.21	12/3/2029	107.37611	103.8623806	100.4870575	97.24385621	94.126821	91.13030189	88.24893702	85.47763596	82.8115642
191203A00011	12/3/2019	2.21	12/3/2029	107.37611	103.8623806	100.4870575	97.24385621	94.126821	91.13030189	88.24893702	85.47763596	82.81156421
191206A00005	12/6/2019	2.18	12/7/2026	101.58722	100.8923796	100.2070857	99.531141	98.86435464	98.20654102	97.55751951	96.9171143	96.28515427
191206A00008	12/6/2019	2.44	12/6/2030	110.65148	105.9377061	101.4530947	97.18527795	93.12262333	89.25418562	85.56966245	82.05935293	78.71411917
191206A00009	12/6/2019	2.87	12/4/2037	123.58989	111.6973114	101.0956088	91.63647597	83.18939831	75.63943761	68.88530048	62.83765484	57.41766162
191206A00013	12/6/2019	3.05	12/6/2044	138.81644	119.7513083	103.7405443	90.26575731	78.89975297	69.29003275	61.14535498	54.22477387	48.32868909
191209A00005	12/9/2019	2.22	12/10/2029	107.00855	103.6907469	100.5015725	97.43522465	94.4861998	91.64927657	88.91949947	86.29216347	83.7627997
191220A00001	12/20/2019	2.62	12/19/2031	113.45204	107.6406532	102.1658068	97.00621327	92.14204077	87.55480892	83.2272896	79.1434154	75.28819534
191220A00002	12/20/2019	3.02	12/20/2038	126.14988	113.1773566	101.7184566	91.58637656	82.61834185	74.67240236	67.62467063	61.36693836	55.80461812
191223A00055	12/23/2019	2.46	12/7/2029	108.59624	104.9187218	101.3861904	97.99212048	94.73032035	91.59491167	88.58031177	85.68121687	82.89258646
191223A00056	12/23/2019	2.46	12/14/2029	108.63857	104.9414678	101.3907309	97.97974011	94.7022193	91.55221178	88.52406189	85.61239789	82.81211593

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
191224A00002	12/24/2019	2.17	12/24/2029	104.06551	102.1459033	100.2826526	98.47363949	96.71684224	95.01032956	93.35225619	91.74085827	90.17444923
191226A00019	12/26/2019	2.4	12/22/2028	106.23863	103.5566279	100.9561801	98.43428999	95.98809466	93.61485597	91.31195414	89.07688163	86.90723753
191226A00020	12/26/2019	2.44	12/21/2029	108.60702	104.8916864	101.3240557	97.89742415	94.60543199	91.44204486	88.40153483	85.47846289	82.66766255
200103A00002	1/3/2020	2.07	1/3/2030	106.80701	103.4389164	100.2034102	97.09442212	94.10620391	91.23330616	88.47056058	85.81306352	83.25616067
200109A00006	1/9/2020	1.95	1/9/2030	103.8318	101.8736595	99.97401285	98.13062903	96.34138043	94.60423606	92.91725643	91.27858872	89.68646227
200109A00008	1/9/2020	1.95	1/9/2030	103.8318	101.8736595	99.97401285	98.13062903	96.34138043	94.60423606	92.91725643	91.27858872	89.68646227
200110A00037	1/10/2020	2.32	1/10/2030	107.9654	104.3452917	100.8710916	97.53605779	94.33380469	91.25827829	88.30373699	85.46473339	82.7360974
200110A00038	1/10/2020	2.32	1/10/2030	107.9654	104.3452917	100.8710916	97.53605779	94.33380469	91.25827829	88.30373699	85.46473339	82.7360974
200110A00039	1/10/2020	2.32	1/10/2030	107.9654	104.3452917	100.8710916	97.53605779	94.33380469	91.25827829	88.30373699	85.46473339	82.7360974
200110A00043	1/10/2020	2.32	1/10/2030	107.9654	104.3452917	100.8710916	97.53605779	94.33380469	91.25827829	88.30373699	85.46473339	82.7360974
200115A00013	1/15/2020	2.18	1/15/2030	106.42217	103.3317209	100.3596322	97.50059125	94.74955437	92.10173442	89.55258621	87.0977927	84.73325211
200116A00012	1/16/2020	2.16	1/19/2027	101.82032	101.0083664	100.2094262	99.42318731	98.64934793	97.88761577	97.13770768	96.39934929	95.67227467
200124A00008	1/24/2020	1.92	1/22/2027	101.54213	100.7985588	100.0658554	99.34378027	98.63210319	97.9306007	97.23905565	96.55725707	95.88499989
200130A00046	1/30/2020	1.81	1/29/2027	100.88765	100.4308811	99.97928565	99.53276737	99.09123191	98.65458737	98.22274425	97.79561531	97.37311554
200131A00032	1/31/2020	2.1	1/31/2030	107.55569	103.7503375	100.1003402	96.59844802	93.23779994	90.01189685	86.91457973	83.94000953	81.08264832
200203A00046	2/3/2020	1.98	2/3/2040	109.9921	103.0711738	96.76716918	91.01600728	85.7609338	80.95162106	76.5433863	72.49651081	68.77564591
200204A00012	2/4/2020	1.98	2/4/2027	101.61235	100.8331689	100.0659011	99.31027464	98.56602606	97.83289993	97.11064833	96.3990307	95.69781352
200206A00027	2/6/2020	2.15	2/6/2030	107.46796	103.8000446	100.2823212	96.90782815	93.66995979	90.56244973	87.57935171	84.71502152	81.96410009
200206A00031	2/6/2020	2.15	2/6/2030	107.46796	103.8000446	100.2823212	96.90782815	93.66995979	90.56244973	87.57935171	84.71502152	81.96410009
200206A00032	2/6/2020	2.15	2/6/2030	107.46796	103.8000446	100.2823212	96.90782815	93.66995979	90.56244973	87.57935171	84.71502152	81.96410009
200206A00033	2/6/2020	2.15	2/6/2030	107.46796	103.8000446	100.2823212	96.90782815	93.66995979	90.56244973	87.57935171	84.71502152	81.96410009
200207A00017	2/7/2020	1.96	2/8/2027	101.6183	100.8280547	100.0500639	99.28404629	98.52972695	97.78683941	97.05512523	96.33433371	95.6242216
200207A00018	2/7/2020	2.14	2/7/2030	107.75064	103.9209224	100.2482579	96.72532022	93.34517286	90.1012429	86.98729931	83.99743296	81.12603793
200210A00005	2/10/2020	1.77	2/10/2027	101.5253	100.7292962	99.94573798	99.17433384	98.41480256	97.66687157	96.93027658	96.20476127	95.49007703
200212A00013	2/12/2020	1.98	2/12/2027	101.78625	100.9181548	100.0649481	99.22624498	98.40167706	97.59088831	96.79353458	96.00928313	95.23781213
200220A00013	2/20/2020	2.09	12/14/2029	107.2792	103.6069242	100.0802864	96.69269917	93.43791222	90.30999342	87.30331061	84.41251455	81.63252286
200220A00014	2/20/2020	2.09	12/21/2029	107.31436	103.6227472	100.0781473	96.67387907	93.40360771	90.2613225	87.24131814	84.33817724	81.54675402
200220A00026	2/20/2020	2.22	2/21/2040	111.98925	104.2545964	97.2423974	90.87477886	85.08305431	79.806566	74.99168093	70.59091931	66.56219731
200221A00012	2/21/2020	2.14	2/21/2040	111.36749	103.6764137	96.70375135	90.37206077	84.61303638	79.36635723	74.57868854	70.20281492	66.19688715
200221A00023	2/21/2020	2.05	12/7/2029	107.09786	103.4475599	99.94146103	96.57306393	93.33620484	90.22503223	87.23398904	84.35779598	81.59143595
200221A00024	2/21/2020	2.05	12/28/2029	107.201	103.4927892	99.93288419	96.51452115	93.23128285	90.07708205	87.04614237	84.13298032	81.33238859
200225A00017	2/25/2020	1.94	2/25/2030	107.08522	103.2150985	99.505759	95.94970478	92.53982563	89.26937797	86.13196394	83.12151187	80.23225792
200225A00018	2/25/2020	1.94	2/25/2030	107.08522	103.2150985	99.505759	95.94970478	92.53982563	89.26937797	86.13196394	83.12151187	80.23225792

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200225A00028	2/25/2020	1.89	12/21/2029	106.57569	102.8976391	99.3661996	95.97471045	92.71685098	89.58662401	86.57833717	83.68658544	80.90623485
200225A00029	2/25/2020	1.89	12/28/2029	106.60697	102.9097176	99.36044908	95.95241303	92.67920377	89.53474509	86.51327114	83.60930848	80.81765943
200225A00049	2/25/2020	1.79	2/24/2040	108.65512	101.8305191	95.61225537	89.93758474	84.75090951	80.00290304	75.64975009	71.6524845	67.97641135
200226A00009	2/26/2020	1.75	2/26/2030	106.59065	102.7206136	99.01173076	95.45647605	92.04771464	88.7786796	85.64295099	82.6344363	79.74735197
200227A00004	2/27/2020	1.65	2/27/2030	106.20726	102.3416684	98.63723138	95.08642658	91.68211672	88.41753233	85.28625084	82.28217701	79.39952457
200227A00046	2/27/2020	1.52	3/1/2027	100.76661	100.3026693	99.84413739	99.39091123	98.94288843	98.49996934	98.062057	97.62905706	97.20087764
200228A00025	2/28/2020	1.57	3/2/2027	101.40511	100.5551124	99.71930477	98.89733009	98.0888473	97.2935265	96.51104846	95.7411042	94.98339458
200228A00026	2/28/2020	2.14	2/28/2035	113.91513	105.0271708	96.90696689	89.48411243	82.69499362	76.4820997	70.79340994	65.58184486	60.80477481
200228A00059	2/28/2020	1.79	2/28/2030	106.51923	102.6511714	98.94425412	95.39096211	91.98416552	88.71710118	85.58335188	82.57682693	79.69174392
200228A00071	2/28/2020	1.74	12/14/2029	105.99331	102.3445181	98.84067668	95.47522801	92.24194606	89.13492199	86.14854589	83.27748976	80.51669158
200228A00091	2/28/2020	1.72	12/7/2029	105.89184	102.263454	98.77863009	95.43089647	92.21411187	89.12244634	86.15036343	83.29260355	80.54416847
200303A00012	3/3/2020	1.71	3/1/2030	106.21226	102.3474785	98.64387151	95.09391695	91.69047763	88.42678377	85.29641215	82.29326664	79.41155986
200303A00028	3/3/2020	1.54	3/4/2030	104.97731	101.531757	98.22701844	95.05651133	92.01399492	89.09355338	86.28957703	83.59674483	81.0100079
200304A00010	3/4/2020	1.2	3/4/2027	101.14817	100.293169	99.45254545	98.62594276	97.81301257	97.01341797	96.22683307	95.45294251	94.69144104
200304A00030	3/4/2020	1.6	12/22/2028	104.09042	101.4374465	98.86535172	96.37116178	93.95203423	91.60525056	89.32820981	87.11842259	84.97350539
200304A00032	3/4/2020	1.6	12/15/2028	104.06273	101.4287448	98.87463057	96.397468	93.99446613	91.66295481	89.4003785	87.20429048	85.07234741
200304A00052	3/6/2020	2.11	3/8/2027	101.8997	101.0308501	100.1767731	99.33709874	98.51146505	97.69952191	96.90093085	96.11536446	95.34250594
200304A00054	3/6/2020	2.35	3/8/2027	102.10784	101.2380041	100.3829559	99.54232189	98.71573974	97.9028592	97.10334154	96.31685915	95.54309504
200305A00030	3/5/2020	1.58	3/5/2030	105.72058	101.8547446	98.15065585	94.6007419	91.19782051	87.93508017	84.8060591	81.80462549	78.92495895
200305A00032	3/5/2020	1.58	3/5/2030	105.72058	101.8547446	98.15065585	94.6007419	91.19782051	87.93508017	84.8060591	81.80462549	78.92495895
200305A00036	3/5/2020	1.36	3/5/2027	101.23788	100.3804098	99.5373949	98.70847447	97.89329745	97.09152435	96.30282678	95.52688698	94.76339744
200305A00037	3/5/2020	1.43	3/6/2028	102.58586	100.7344558	98.92532265	97.15725472	95.42908435	93.73968444	92.08796674	90.47288033	88.89341003
200305A00038	3/5/2020	1.51	3/5/2029	104.14068	101.2852908	98.5224573	95.84869825	93.26068383	90.75522661	88.32927476	85.97990545	83.70431875
200305A00039	3/5/2020	1.58	3/5/2030	105.72058	101.8547446	98.15065585	94.6007419	91.19782051	87.93508017	84.8060591	81.80462549	78.92495895
200306A00014	3/6/2020	1.38	3/6/2030	104.94384	101.0903932	97.39845583	93.86045303	90.46920552	87.21790496	84.10009288	81.10964092	78.24073228
200306A00022	3/6/2020	1.2	3/8/2027	101.11052	100.2453911	99.39499641	98.55896097	97.73692348	96.92853472	96.13345703	95.35136376	94.58193892
200306A00048	3/6/2020	1.04	3/6/2035	103.57683	99.0829347	94.86683899	90.90830812	87.18875459	83.69108906	80.39958888	77.29977901	74.37832403
200306A00050	3/6/2020	0.87	3/6/2030	101.76292	99.76172003	97.82235553	95.94240111	94.11954934	92.35159961	90.63645244	88.97210407	87.35664141
200306A00057	3/6/2020	0.92	3/8/2027	100.9759	100.0528698	99.14691645	98.25757142	97.38437917	96.5269007	95.68471281	94.85740741	94.04459085
200306A00058	3/6/2020	1.06	3/6/2030	102.03056	100.0260315	98.08338656	96.20020371	94.37417522	92.60310018	90.88487871	89.21750661	87.59907029
200306A00064	3/6/2020	1.2	3/8/2027	101.11052	100.2453911	99.39499641	98.55896097	97.73692348	96.92853472	96.13345703	95.35136376	94.58193892
200306A00065	3/6/2020	1.38	3/6/2030	104.94384	101.0903932	97.39845583	93.86045303	90.46920552	87.21790496	84.10009288	81.10964092	78.24073228
200306A00066	3/6/2020	1.2	3/8/2027	101.11052	100.2453911	99.39499641	98.55896097	97.73692348	96.92853472	96.13345703	95.35136376	94.58193892

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200309A00007	3/9/2020	1.11	3/9/2027	101.03557	100.1680472	99.31534711	98.47709287	97.65291986	96.84247564	96.04541946	95.26142175	94.49016369
200309A00030	3/9/2020	1.11	3/9/2027	101.03557	100.1680472	99.31534711	98.47709287	97.65291986	96.84247564	96.04541946	95.26142175	94.49016369
200309A00034	3/9/2020	0.96	3/9/2035	103.20528	98.72745492	94.52643711	90.58206988	86.87583101	83.39069124	80.11098326	77.02228304	74.11130221
200309A00038	3/9/2020	1.26	3/11/2030	104.48835	100.6306265	96.93522017	93.3944885	90.00119229	86.74846768	83.62980476	80.63902752	77.77027499
200309A00081	3/9/2020	1.18	3/8/2030	103.95707	100.3077485	96.81136946	93.46068436	90.24882358	87.16927846	84.21588029	81.38278076	78.66443353
200309A00082	3/9/2020	1.18	3/8/2030	103.95707	100.3077485	96.81136946	93.46068436	90.24882358	87.16927846	84.21588029	81.38278076	78.66443353
200309A00084	3/9/2020	1.06	3/9/2027	101.06676	100.1289184	99.20855407	98.30518203	97.41833399	96.54755872	95.6924213	94.85250239	94.02739757
200310A00005	3/10/2020	1.41	3/8/2030	105.06673	101.2056572	97.50659488	93.9619366	90.56447246	87.30736557	84.18413082	81.18861501	78.31497816
200310A00015	3/10/2020	1.37	3/11/2030	104.91895	101.0528709	97.34936092	93.80077122	90.39985314	87.13973378	84.01389462	81.01615141	78.14063536
200310A00034	3/10/2020	1.41	3/11/2030	105.07553	101.2064143	97.49995755	93.9485104	90.54482072	87.28201236	84.15356365	81.15328737	78.27531186
200310A00038	3/10/2020	1.41	3/11/2030	105.07553	101.2064143	97.49995755	93.9485104	90.54482072	87.28201236	84.15356365	81.15328737	78.27531186
200310A00040	3/10/2020	1.36	3/10/2028	102.46732	100.6064362	98.78827058	97.01159598	95.27522627	93.57801679	91.91886259	90.29669681	88.7104891
200310A00041	3/10/2020	1.39	3/12/2029	103.81594	100.9467664	98.17119632	95.48569077	92.88686166	90.37146684	87.93640292	85.5786986	83.29550829
200310A00042	3/10/2020	1.41	3/11/2030	105.07553	101.2064143	97.49995755	93.9485104	90.54482072	87.28201236	84.15356365	81.15328737	78.27531186
200310A00051	3/10/2020	1.41	3/8/2030	105.06673	101.2056572	97.50659488	93.9619366	90.56447246	87.30736557	84.18413082	81.18861501	78.31497816
200310A00073	3/12/2020	2.12	3/11/2027	101.92611	101.0488456	100.1866457	99.33912361	98.50590671	97.686635	96.88096043	96.08854648	95.30906763
200311A00015	3/11/2020	1.26	3/11/2027	101.26207	100.3175376	99.39070903	98.48108647	97.58819306	96.7115694	95.85077282	95.00537659	94.17496922
200311A00026	3/11/2020	1.34	3/11/2030	104.46351	100.8758232	97.43757847	94.1417047	90.98150279	87.95062552	85.04305714	82.25309426	79.5753279
200311A00031	3/11/2020	1.41	12/24/2027	102.2807	100.6317153	99.01719945	97.43614245	95.88756942	94.37054338	92.88416335	91.42756259	89.99990694
200311A00055	3/11/2020	1.66	12/17/2027	102.67148	101.0377904	99.43799409	97.87109908	96.33615607	94.83225223	93.35850938	91.91408233	90.49815734
200312A00009	3/12/2020	1.46	3/12/2027	101.3523	100.4750199	99.61286079	98.76543856	97.93237781	97.11331579	96.3079019	95.51579714	94.73667366
200316A00008	3/16/2020	1.31	3/15/2030	102.47654	100.5198422	98.62238273	96.78187458	94.99613839	93.26309482	91.5807591	89.94723604	88.36071535
200316A00050	3/16/2020	1.54	3/16/2027	101.43977	100.5510439	99.67783293	98.81973046	97.97634691	97.14730599	96.33224415	95.53081006	94.74266405
200317A00009	3/17/2020	1.61	3/16/2035	105.96569	101.3744963	97.06685405	93.02212687	89.22135514	85.64710638	82.28334133	79.11529265	76.12935491
200317A00043	3/17/2020	1.29	3/15/2030	102.62644	100.6076222	98.65121449	96.75476916	94.91595575	93.13255188	91.40243731	89.72358858	88.09407383
200318A00012	3/18/2020	1.68	3/18/2033	106.83011	102.0812592	97.61133406	93.40144591	89.43411642	85.69316457	82.16360257	78.83154052	75.68409938
200319A00035	3/19/2020	1.72	3/18/2033	107.02228	102.2650679	97.7872598	93.56993597	89.59558852	85.8480091	82.31218449	78.97420128	75.82115855
200323A00090	3/23/2020	1.55	3/23/2027	101.14642	100.4488957	99.76288557	99.08808648	98.42420595	97.77096189	97.12808218	96.4953042	95.87237444
200326A00029	3/26/2020	1.82	3/26/2027	101.73959	100.8218196	99.92054628	99.03532606	98.16573306	97.31135633	96.47179924	95.64667882	94.8356252
200326A00032	3/26/2020	1.49	3/26/2030	102.91646	100.8933871	98.93282641	97.03233121	95.1895676	93.40230988	91.66843462	89.9859153	88.35281713
200326A00037	3/26/2020	1.78	3/26/2035	106.62545	102.1181525	97.88599663	93.9091016	90.16918966	86.64944846	83.33440295	80.20979925	77.26249947
200327A00043	3/27/2020	1.48	3/27/2028	102.87071	100.9585342	99.0912538	97.26754469	95.48613256	93.7457888	92.04532853	90.38360871	88.75952639
200327A00045	3/27/2020	2.24	3/27/2034	114.31591	106.2575271	98.83028436	91.98142501	85.66285222	79.83069868	74.44493509	69.46901675	64.86956423

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200327A00094	3/27/2020	1.6	3/27/2030	105.2515	101.7526912	98.39890207	95.18325221	92.09922422	89.14064535	86.3016673	83.57674728	80.96063035
200330A00038	3/30/2020	1.79	3/29/2030	106.63478	102.6877735	98.90826927	95.28830919	91.82035056	88.49724619	85.31222157	82.25885347	79.33104989
200330A00045	3/30/2020	1.47	3/30/2027	101.43496	100.5076855	99.59727836	98.70327991	97.82524996	96.96276396	96.11541227	95.28279954	94.46454408
200330A00047	3/30/2020	1.5	3/30/2035	105.47609	100.8659341	96.54278451	92.48559737	88.67505086	85.09339028	81.72428972	78.55272678	75.56486921
200330A00058	3/30/2020	1.49	3/29/2030	104.86854	101.3729687	98.02254722	94.81037675	91.7299243	88.77500293	85.93975136	83.21861497	80.60632804
200330A00079	3/30/2020	1.51	3/30/2035	105.52352	100.9112894	96.58619483	92.5271823	88.71492137	85.13164934	81.76103295	78.58804308	75.59884122
200331A00056	3/31/2020	0.96	3/29/2030	101.90152	99.94905673	98.05583556	96.21956928	94.43807522	92.70927082	91.03116832	89.40186975	87.81956218
200402A00044	4/2/2020	1.65	4/2/2030	106.09463	102.1475294	98.36850249	94.74953756	91.28304469	87.96183317	84.77908831	81.72834983	78.80349154
200406A00014	4/6/2020	1.33	4/6/2035	104.95417	100.3599947	96.05214549	92.00960551	88.21308174	84.64484739	81.28860355	78.12935388	75.15329116
200406A00027	4/6/2020	1.31	4/5/2030	104.45261	100.9529065	97.5991269	94.38430518	91.30184841	88.34551442	85.50939102	82.7878767	80.17566249
200406A00029	4/6/2020	1.61	4/5/2030	105.65916	101.8998253	98.30053102	94.85355804	91.55160427	88.38775828	85.35547612	82.44855975	79.66113677
200406A00030	4/6/2020	1.61	4/5/2030	105.65916	101.8998253	98.30053102	94.85355804	91.55160427	88.38775828	85.35547612	82.44855975	79.66113677
200413A00009	4/13/2020	0.77	4/13/2027	100.51415	99.97084386	99.43497224	98.90636836	98.38486862	97.8703146	97.36255282	96.86143456	96.36681565
200413A00013	4/13/2020	1.19	4/12/2030	102.34119	100.2889194	98.30108956	96.37514607	94.50865295	92.69928826	90.94483787	89.24318969	87.59232823
200414A00024	4/14/2020	1.37	4/14/2027	101.48549	100.4518769	99.43942962	98.44750116	97.47547092	96.52274318	95.5887458	94.6729291	93.77476475
200415A00021	4/15/2020	1.37	4/15/2027	101.402	100.4308979	99.47830386	98.54369333	97.62656091	96.72641991	95.84280161	94.97525435	94.12334283
200415A00023	4/15/2020	1.71	4/15/2030	106.3851	102.396884	98.57992734	94.92599127	91.42727775	88.07640269	84.86637179	81.79055777	78.84267923
200415A00024	4/15/2020	2.2	4/16/2035	114.55946	105.5258708	97.28227617	89.75530946	82.87876778	76.59288204	70.84366216	65.58231183	60.76470519
200415A00038	4/15/2020	1.37	4/15/2027	101.402	100.4308979	99.47830386	98.54369333	97.62656091	96.72641991	95.84280161	94.97525435	94.12334283
200417A00009	4/17/2020	1.35	4/16/2027	101.38622	100.4124551	99.45729735	98.52022202	97.6007195	96.69829914	95.81248842	94.94283211	94.08889149
200421A00026	4/21/2020	1.34	4/19/2030	104.37439	100.8541184	97.48151048	94.24947054	91.15128788	88.1806113	85.33142776	82.59804235	79.97505965
200421A00032	4/21/2020	1.31	4/21/2027	101.36505	100.3776448	99.40937383	98.45968562	97.52804935	96.6139543	95.71690883	94.83643954	93.97209041
200423A00017	4/23/2020	1.82	4/23/2035	111.71999	102.7649286	94.59888798	87.14821035	80.34646199	74.13369301	68.45577498	63.26380914	58.51359743
200424A00022	4/24/2020	1.39	4/24/2030	104.56544	101.0302725	97.64372883	94.39865508	91.28828114	88.3062007	85.44634945	82.70298481	80.07066692
200427A00018	4/27/2020	1.51	4/27/2028	102.93269	100.9373026	98.99073038	97.09147089	95.23808155	93.42917385	91.66341091	89.93950517	88.25621621
200428A00002	4/28/2020	1.47	4/26/2030	105.70468	101.6932209	97.85563152	94.18347052	90.66875493	87.30392938	84.08184088	80.99571511	78.03913439
200428A00009	4/28/2020	1.08	4/29/2030	102.1112	100.0627071	98.07858241	96.15627217	94.29334103	92.48746768	90.73643874	89.03814291	87.3905656
200428A00018	4/28/2020	1.33	4/27/2035	104.60421	100.1172606	95.9072288	91.95391475	88.23876323	84.74471926	81.45609582	78.35845425	75.43849582
200429A00030	4/29/2020	1.41	4/29/2030	104.84219	101.1393958	97.59495869	94.20117903	90.95077361	87.83685339	84.85289985	81.99274286	79.25054003
200429A00057	4/29/2020	1.4	4/29/2027	101.43434	100.4252908	99.43620144	98.4664848	97.51557656	96.58293407	95.66803539	94.7703783	93.88947933
200429A00061	4/29/2020	1.66	10/29/2029	105.33271	101.824988	98.4528215	95.21024858	92.09160571	89.09150819	86.20483475	83.42671316	80.75250668
200430A00027	4/30/2020	1.31	4/30/2035	104.59716	99.98519194	95.66267725	91.60823372	87.80223742	84.22666753	80.8649639	77.70189814	74.72345694
200501A00002	5/1/2020	1.3	5/1/2035	104.54957	99.93968043	95.61911534	91.56650269	87.76222699	84.18827526	80.82809451	77.666463	74.68937353

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200504A00007	5/4/2020	1.47	5/4/2028	102.87763	100.8639381	98.89986732	96.9838833	95.1145072	93.29031613	91.50994065	89.77206235	88.07541156
200506A00010	5/6/2020	0.94	5/6/2026	100.02052	100.0038615	99.98721841	99.97059222	99.95398291	99.93739043	99.92081477	99.90425589	99.88771376
200511A00006	5/11/2020	1.65	5/13/2030	106.24925	102.1885491	98.30520865	94.59054954	91.03636385	87.6348875	84.37877378	81.26106861	78.27518732
200511A00019	5/11/2020	1.18	2/1/2027	100.98009	100.2118701	99.4552821	98.71006011	97.97594969	97.25270399	96.54008341	95.83785536	95.14579396
200511A00020	5/11/2020	1.4	2/1/2028	102.39511	100.6411415	98.92555989	97.24717986	95.60486297	93.99751762	92.42409658	90.88359468	89.37504667
200511A00021	5/11/2020	1.53	2/1/2029	104.05471	101.2931533	98.6186253	96.02781484	93.51755954	91.08484071	88.72677549	86.44060964	84.22371064
200511A00022	5/11/2020	1.6	2/1/2030	105.65693	101.8845361	98.2666435	94.79603836	91.46588876	88.26972299	85.20140803	82.25512947	79.42537276
200511A00023	5/11/2020	1.7	2/3/2031	107.39039	102.5957529	98.04218313	93.71626816	89.60541495	85.69779794	81.98230761	78.44850285	75.08656686
200512A00001	5/12/2020	1.17	5/12/2027	101.36514	100.2560276	99.17131001	98.11019124	97.07190564	96.05572041	95.06093382	94.08687363	93.13289553
200512A00010	5/12/2020	1.48	5/10/2030	105.26253	101.4318688	97.76737313	94.26087366	90.90465184	87.69141103	84.61425081	81.66664311	78.8424099
200512A00011	5/12/2020	1.48	5/10/2030	105.26253	101.4318688	97.76737313	94.26087366	90.90465184	87.69141103	84.61425081	81.66664311	78.8424099
200512A00013	5/12/2020	1.17	5/12/2027	101.36514	100.2560276	99.17131001	98.11019124	97.07190564	96.05572041	95.06093382	94.08687363	93.13289553
200512A00014	5/12/2020	1.17	5/12/2027	101.36514	100.2560276	99.17131001	98.11019124	97.07190564	96.05572041	95.06093382	94.08687363	93.13289553
200514A00008	5/14/2020	1.23	5/14/2030	104.03139	100.4671174	97.0543898	93.78582201	90.65443761	87.65363977	84.77718823	82.01917778	79.3740183
200520A00009	5/20/2020	1.63	5/20/2038	108.77125	99.59116861	91.37331831	84.00754294	77.39704282	71.45667745	66.11149544	61.29545725	56.95032448
200521A00005	5/21/2020	0.75	5/21/2030	101.56432	99.4945672	97.49082779	95.55044397	93.67088709	91.84974829	90.08473191	88.3736494	86.7144135
200521A00013	5/21/2020	2.09	5/21/2035	113.65141	104.5695396	96.29038702	88.73866471	81.84651007	75.5527189	69.80206114	64.54467011	59.73549692
200521A00015	5/21/2020	2.14	5/21/2036	114.85203	104.8027569	95.72682245	87.52453036	80.10687869	73.39436283	67.31591854	61.80798725	56.81368909
200521A00016	5/21/2020	2.18	5/21/2037	115.63781	104.6567269	94.83119784	86.03298254	78.14869411	71.07801129	64.73211339	59.03230979	53.90883869
200521A00017	5/21/2020	2.22	5/21/2038	116.19066	104.3109022	93.77941341	84.43516819	76.13715416	68.76179739	62.2007271	56.3588367	51.15260049
200522A00009	5/22/2020	0.96	5/22/2030	101.88668	99.79752186	97.77767783	95.82426867	93.93455407	92.10592711	90.33590682	88.62213118	86.96235059
200527A00012	5/27/2020	1.2	5/27/2027	101.31914	100.2339539	99.17186541	98.13214147	97.114082	96.11701592	95.14029957	94.18331537	93.24547052
200527A00013	5/27/2020	1.13	11/25/2026	100.71137	100.1318823	99.55904137	98.99273254	98.43284461	97.87926888	97.33189908	96.7906313	96.25536398
200527A00014	5/27/2020	1.06	5/27/2026	100.08959	100.0147162	99.93995692	99.8653161	99.79079349	99.71638881	99.64210179	99.56793216	99.49387965
200529A00022	6/1/2020	0.98	6/1/2026	100.10315	100.014371	99.9257489	99.83728458	99.74897765	99.66082769	99.5728343	99.48499706	99.39731555
200604A00012	6/4/2020	1.59	6/4/2030	106.08138	101.9656231	98.03176905	94.27080568	90.67422081	87.23396879	83.9424422	80.79244538	77.7771698
200604A00013	6/4/2020	2.21	6/4/2035	114.77305	105.6065599	97.25190429	89.63274289	82.68028295	76.33250102	70.53344508	65.23261188	60.38439098
200604A00014	6/4/2020	2.42	6/4/2040	119.45982	105.6674362	93.66097538	83.19739003	74.06793494	66.09317337	59.11872894	53.01167162	47.65744034
200608A00001	6/8/2020	1.34	6/7/2030	104.48625	100.8610742	97.39185927	94.07091637	90.89098221	87.84519423	84.92706583	82.13046342	79.44958495
200610A00006	6/10/2020	1.11	6/10/2027	101.37333	100.1907289	99.03586673	97.90777843	96.80553877	95.72826481	94.67511342	93.64527915	92.63799207
200611A00010	6/11/2020	1.08	6/11/2027	101.28516	100.1582835	99.05630664	97.97841516	96.92382669	95.89179243	94.88159533	93.89254845	92.9239934
200611A00011	6/11/2020	1.2	6/9/2028	102.43263	100.3271783	98.27526549	96.27516139	94.32520714	92.42381004	90.5694403	88.76062804	86.99596046
200612A00004	6/12/2020	1.42	6/12/2040	105.63735	98.47529791	91.99622237	86.12500497	80.79556715	75.94970769	71.53609812	67.50941335	63.82957848

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200616A00005	6/16/2020	0.74	6/17/2030	101.57609	99.45511322	97.40299557	95.41693086	93.4942444	91.63238974	89.82894157	88.08158908	86.38812977
200623A00028	6/23/2020	1.23	6/23/2038	104.89482	98.75280705	93.1128833	87.92738732	83.15364082	78.75338512	74.69228893	70.9395143	67.4673335
200629A00020	6/29/2020	1.4	6/28/2030	105.15644	101.0007785	97.03131405	93.2386997	89.61411202	86.14921838	82.83614658	79.66745668	76.63611462
200629A00021	6/29/2020	1.21	6/29/2028	102.40919	100.2513526	98.14937288	96.10141059	94.10569869	92.16054255	90.26431631	88.41545947	86.61247363
200629A00023	6/29/2020	0.95	6/29/2026	100.17998	100.0136093	99.84779098	99.68252098	99.51779665	99.3536153	99.18997428	99.02687096	98.86430271
200708A00011	7/10/2020	2.87	7/10/2031	114.00677	108.6188176	103.520879	98.69575884	94.12737475	89.80068061	85.70159386	81.81692834	78.13433221
200709A00003	7/10/2020	1.63	7/10/2026	100.35676	100.1596013	99.96323112	99.76764315	99.57283261	99.37879483	99.18552513	98.9930189	98.80127155
200709A00005	7/10/2020	2.23	7/10/2030	108.92969	104.6570255	100.5762517	96.6776847	92.95218906	89.39114083	85.98639588	82.73026017	79.61546208
200709A00006	7/10/2020	2.58	7/10/2030	110.41683	106.1129177	102.0019117	98.07409051	94.32027879	90.73181474	87.3005182	84.01866078	80.87893813
200709A00007	7/10/2020	1.67	7/9/2027	102.07473	100.8662095	99.68615752	98.53357317	97.40750641	96.30705053	95.23133975	94.1795469	93.15088134
200709A00008	7/10/2020	1.88	7/10/2026	100.40609	100.2088609	100.0124234	99.81676827	99.62189078	99.42778625	99.23445	99.04187742	98.85006393
200709A00025	7/9/2020	1.37	7/9/2030	104.77584	100.8267688	97.05451166	93.45012414	90.005167	86.71167476	83.56212618	80.54941676	77.66683315
200716A00004	7/16/2020	0.97	7/16/2027	101.27478	100.0055151	98.7628226	97.54586676	96.35385135	95.18601318	94.04162045	92.91997107	91.82039117
200720A00035	7/20/2020	1.81	7/20/2035	111.20455	102.0816603	93.78069553	86.22324147	79.33874442	73.06368746	67.34085522	62.11867889	57.35065258
200720A00042	7/22/2020	2.04	7/21/2026	100.50536	100.2774867	100.0506597	99.82487047	99.60011172	99.37637638	99.15365743	98.93194787	98.71124081
200720A00044	7/22/2020	2.22	7/21/2026	100.54638	100.318442	100.0915524	99.86570078	99.64087987	99.41708259	99.19430191	98.97253084	98.75176247
200724A00011	7/24/2020	1.41	7/26/2038	106.65445	97.38922903	89.11547942	81.71775932	75.09482591	69.15781089	63.82864027	59.03866379	54.72746498
200730A00011	7/30/2020	1.15	7/28/2028	102.35239	100.1184975	97.94409482	95.82715338	93.76573242	91.75797391	89.80209815	87.89639975	86.0392438
200813A00019	8/13/2020	1.44	8/13/2030	105.14203	101.1029091	97.24805597	93.568056	90.05402581	86.69757947	83.49079799	80.426201	77.49672018
200813A00020	8/13/2020	1.44	8/13/2030	105.14203	101.1029091	97.24805597	93.568056	90.05402581	86.69757947	83.49079799	80.426201	77.49672018
200814A00003	8/14/2020	0.96	8/14/2035	103.23933	98.56111027	94.18392111	90.08499544	86.24348246	82.64027285	79.2578407	76.08010078	73.09227968
200814A00009	8/18/2020	1.36	8/16/2028	103.00678	100.7125932	98.48061789	96.30877002	94.19505223	92.13754804	90.13441792	88.18389555	86.28428432
200814A00011	8/18/2020	1.58	8/16/2030	106.28699	101.972442	97.85636026	93.92857422	90.1794935	86.6000683	83.18175579	79.91648882	76.79664678
200818A00004	8/18/2020	0.92	8/18/2026	100.33571	100.0305539	99.72726673	99.42582828	99.12622157	98.82842984	98.53243655	98.23822535	97.94578009
200818A00005	8/18/2020	1.05	8/18/2027	101.41041	100.1074055	98.83121813	97.58102486	96.35604061	95.1555121	93.97871628	92.82495882	91.69357264
200818A00006	8/18/2020	1.18	8/18/2028	102.59291	100.2983135	98.0660814	95.89413412	93.78047349	91.72318168	89.7204173	87.7704118	85.87146601
200818A00007	8/18/2020	1.31	8/20/2029	104.06508	100.7616961	97.57978794	94.51423585	91.56016412	88.71292952	85.96810872	83.32148655	80.76904487
200818A00008	8/18/2020	1.5	8/18/2031	106.87562	101.570566	96.55899464	91.82318908	87.34658989	83.11371594	79.11008855	75.32216141	71.7372557
200818A00009	8/18/2020	1.7	8/18/2033	109.17488	101.9012777	95.16109758	88.91252277	83.11721323	77.74000329	72.74862369	68.11344921	63.80726956
200818A00010	8/18/2020	1.88	8/20/2035	111.89421	102.6643969	94.2720149	86.63665624	79.68601349	73.35502816	67.58513086	62.32356454	57.52278136
200818A00012	8/18/2020	0.97	8/18/2027	101.32638	99.97893843	98.65617859	97.35747405	96.0822238	94.82984646	93.59977943	92.39147818	91.20441551
200825A00007	8/27/2020	4.79	8/27/2026	101.64315	101.3103832	100.9797955	100.6513701	100.3250856	100.0009213	99.67885642	99.35887064	99.04094385
200826A00019	8/26/2020	0.98	8/26/2026	100.36382	100.0366441	99.71160036	99.38866866	99.0678284	98.74905931	98.43234138	98.11765484	97.80498019

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200828A00002	8/28/2020	0.73	8/28/2026	100.3226	99.98956356	99.65873841	99.33010036	99.00362779	98.67929933	98.35709391	98.03699071	97.7189692
200909A00001	9/9/2020	0.98	9/8/2028	102.31806	99.96754148	97.68233396	95.4602713	93.29927098	91.19733117	89.15252709	87.16300761	85.22699198
200910A00006	9/10/2020	0.96	9/10/2027	101.34589	99.94179234	98.56441688	97.21306643	95.88706623	94.58576437	93.3085309	92.05475684	90.82385335
200911A00011	9/11/2020	1.18	9/11/2030	104.32431	100.2424576	96.35002961	92.63718635	89.09464873	85.71366637	82.48598464	79.40381396	76.45980116
200911A00012	9/11/2020	1.18	9/11/2030	104.32431	100.2424576	96.35002961	92.63718635	89.09464873	85.71366637	82.48598464	79.40381396	76.45980116
200922A00034	9/24/2020	2.24	9/23/2026	100.98069	100.5743727	100.171327	99.77151365	99.37489383	98.98142932	98.59108252	98.20381641	97.81959457
200928A00009	9/28/2020	1.51	9/28/2032	107.44647	101.0639403	95.09957089	89.52390287	84.30969099	79.43172894	74.86668709	70.592964	66.59055036
201007A00008	10/7/2020	1.22	10/7/2030	104.43219	100.3890338	96.53454984	92.85883051	89.35254643	86.00690659	82.81362437	79.76488577	76.85331993
201007A00010	10/7/2020	1.22	10/7/2030	104.43219	100.3890338	96.53454984	92.85883051	89.35254643	86.00690659	82.81362437	79.76488577	76.85331993
201015A00020	10/15/2020	0.94	10/15/2027	101.3775	99.88141294	98.41526939	96.97823631	95.56951326	94.18832876	92.83393902	91.50562664	90.20269947
201015A00024	10/19/2020	1.53	10/18/2027	102.23752	100.7701369	99.33114317	97.91978356	96.53533268	95.17708998	93.84437878	92.53654516	91.2529571
201015A00025	10/19/2020	1.54	10/18/2027	102.25241	100.7849181	99.3458107	97.93433947	96.54977887	95.19142832	93.85861108	92.55067319	91.26698257
201015A00030	10/19/2020	2.39	10/18/2027	103.51864	102.041314	100.5925511	99.17159144	97.77770517	96.41018724	95.06835666	93.75155541	92.45914746
201015A00032	10/19/2020	2.33	10/19/2026	101.19457	100.7156033	100.2411702	99.77121078	99.30566188	98.84446145	98.38754865	97.93486375	97.48634812
201021A00011	10/21/2020	1.11	10/21/2027	101.61752	100.1469995	98.70507908	97.29100266	95.90403573	94.54346909	93.20861777	91.89882002	90.61343627
201021A00012	10/21/2020	1.85	10/19/2035	111.69594	102.3272056	93.82244251	86.09738922	79.07640429	72.69154149	66.88173217	61.59205808	56.77310429
201022A00012	10/26/2020	2.25	10/24/2030	109.54863	104.9774094	100.6240032	96.47689507	92.52524179	88.75882608	85.16801738	81.74373505	78.47741408
201029A00004	10/29/2020	1.49	10/29/2038	107.35982	97.90167355	89.47219368	81.94958061	75.22726907	69.21194007	63.82180061	58.98509529	54.63881764
201030A00001	11/2/2020	2.54	10/29/2040	121.50912	107.2483421	94.87439342	84.12466477	74.77444757	66.63129107	59.5302246	53.32970782	47.90819512
201030A00002	11/2/2020	2.8	10/29/2040	125.1584	110.6482353	98.04851743	87.09405722	77.55787201	69.24550673	61.99022184	55.64891395	50.0986545
201030A00003	11/2/2020	2.58	10/29/2040	122.07055	107.7714026	95.36272019	84.58149438	75.20266672	67.0334781	59.90868572	53.68650877	48.24518887
201030A00004	11/2/2020	2.56	10/29/2040	121.78983	107.5098724	95.1185568	84.35307957	74.98855714	66.83238459	59.71945516	53.5081083	48.076692
201030A00005	11/2/2020	2.49	10/29/2040	120.80733	106.5945166	94.26398496	83.55362776	74.23917364	66.12855729	59.05714821	52.88370665	47.48695294
201030A00016	10/30/2020	1.14	10/8/2027	101.6368	100.2006132	98.79172786	97.40943302	96.05304262	94.72189376	93.41534567	92.1327788	90.87359395
201030A00017	10/30/2020	1.14	10/15/2027	101.65062	100.195756	98.76889478	97.36929958	95.9962583	94.64908321	93.32710982	92.02969595	90.75622072
201030A00018	10/30/2020	1.15	10/22/2027	101.67945	100.2057846	98.76083755	97.34384026	95.9540542	94.59076633	93.25328801	91.94095397	90.65312132
201030A00019	10/30/2020	1.15	10/29/2027	101.69346	100.2011095	98.73819404	97.30391654	95.89751155	94.51824037	93.16538985	91.83827133	90.53621957
201103A00005	11/3/2020	0.89	11/4/2030	101.91822	99.58808679	97.33954672	95.16905282	93.07323643	91.04889914	89.09300302	87.20266144	85.37513047
201105A00003	11/6/2020	2.24	11/4/2030	109.55704	104.9560224	100.5755414	96.40387323	92.42997676	88.64345233	85.03450124	81.59388776	78.31290383
201105A00016	11/9/2020	2.18	11/8/2027	103.31455	101.7818648	100.2797173	98.80727069	97.36371742	95.94827888	94.56020393	93.19876775	91.86327064
201109A00012	11/9/2020	1.39	11/8/2030	105.12009	100.8870257	96.85594558	93.01604786	89.35717081	85.86974992	82.54477935	79.37377603	76.34874641
201110A00003	11/10/2020	1.12	11/10/2027	101.71602	100.1520247	98.62012157	97.11938521	95.64892609	94.20788839	92.79544841	91.410813	90.05321817
201116A00024	11/18/2020	2.36	11/15/2034	115.51735	106.833909	98.87712353	91.58221575	84.89049943	78.7487783	73.10880667	67.92680553	63.1630282

Parallel-Shift Sensitivity Analysis												
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
201116A00025	11/18/2020	1.96	11/15/2032	110.45892	103.8564795	97.69272971	91.93626429	86.55807779	81.53137324	76.8313831	72.43520571	68.32165565
201119A00021	11/23/2020	2.22	11/21/2030	109.55236	104.9046144	100.4815074	96.27099799	92.26175219	88.44310069	84.80499621	81.33797384	78.0331141
201119A00023	11/23/2020	2.23	11/21/2030	109.59855	104.9497503	100.5256277	96.31413788	92.30394529	88.48437918	84.84539091	81.37751429	78.0718286
201203A00005	12/3/2020	0.78	12/3/2026	100.58899	99.98704083	99.39226944	98.80454455	98.22374153	97.6497387	97.08241721	96.52166096	95.96735655
201207A00009	12/7/2020	1.01	12/7/2027	101.59933	99.96671395	98.36863594	96.80406002	95.27199253	93.77147927	92.30160356	90.8614843	89.45027424
201207A00021	12/7/2020	1.85	12/7/2050	112.7702	100.2585963	89.63736884	80.58089054	72.82417474	66.15095036	60.38418351	55.37852444	51.01427497
201210A00021	12/10/2020	0.89	12/10/2027	101.48038	99.87379047	98.30033207	96.75904645	95.24901377	93.76934909	92.31920072	90.89774859	89.50420284
201211A00001	12/11/2020	0.95	12/11/2030	103.48984	99.51733063	95.73300763	92.12676444	88.68909547	85.41105996	82.28424492	79.30073074	76.45305924
201221A00015	12/21/2020	0.88	12/4/2026	100.61584	100.0115013	99.41439152	98.82438331	98.24135059	97.66517023	97.09572202	96.53288851	95.976555
201223A00012	12/23/2020	0.91	12/18/2026	100.66652	100.0234418	99.38855486	98.76170244	98.14273271	97.53149758	96.92785269	96.33165723	95.74277387
201223A00013	12/23/2020	0.9	12/11/2026	100.64402	100.020299	99.40428914	98.79584396	98.19482467	97.60109587	97.01452541	96.43498435	95.86234682
201228A00013	12/28/2020	0.84	12/30/2030	101.82505	99.45502048	97.16927846	94.96410394	92.83597124	90.78153518	88.79762048	86.88121201	85.02944554
210104A00006	11/22/2021	0.88	11/20/2026	100.58271	100.0170859	99.45780632	98.90476542	98.35785915	97.81698582	97.28204594	96.7529422	96.22957944
210104A00007	11/23/2021	0.88	11/23/2026	100.58996	100.0160386	99.44864159	98.88766222	98.33299207	97.78452513	97.24215776	96.7057886	96.17531856
210104A00009	12/20/2021	0.89	12/18/2026	100.65362	100.0105914	99.37575064	98.74894406	98.13001975	97.51882965	96.91522939	96.31907817	95.73023867
210104A00010	11/22/2021	0.88	11/20/2026	100.58271	100.0170859	99.45780632	98.90476542	98.35785915	97.81698582	97.28204594	96.7529422	96.22957944
210104A00011	11/23/2021	0.88	11/23/2026	100.58996	100.0160386	99.44864159	98.88766222	98.33299207	97.78452513	97.24215776	96.7057886	96.17531856
210104A00012	12/20/2021	0.89	12/18/2026	100.65362	100.0105914	99.37575064	98.74894406	98.13001975	97.51882965	96.91522939	96.31907817	95.73023867
210114A00009	1/19/2021	2.66	1/17/2030	109.59627	105.7900418	102.1374475	98.6314	95.26517977	92.03241789	88.92707509	85.94342249	83.07602354
210125A00006	1/27/2021	2.16	1/26/2027	101.69954	100.944854	100.2013369	99.46874677	98.74684416	98.03539641	97.3341776	96.6429683	95.96155531
210125A00007	1/27/2021	2.98	1/27/2031	113.51461	108.5942381	103.9183315	99.47337307	95.24667507	91.2263201	87.40110953	83.76051575	80.29463798
210127A00008	1/27/2021	0.93	1/27/2027	100.77544	100.0218405	99.27945867	98.54804161	97.82734793	97.11714328	96.41720009	95.72729735	95.04722034
210127A00009	1/27/2021	1.3	7/27/2029	103.96322	100.724866	97.60364628	94.59461145	91.69305894	88.89451564	86.19472495	83.58963467	81.07538559
210127A00010	1/27/2021	1.41	7/26/2030	105.48976	101.2475003	97.19836231	93.33248687	89.64058013	86.11387488	82.74409731	79.52343607	76.44451349
210201A00002	2/1/2021	1.19	2/1/2036	104.14207	99.19126418	94.57359107	90.26276555	86.23480879	82.46782589	78.94180945	75.63846301	72.5410421
210212A00004	2/12/2021	1.1	2/12/2036	103.98567	99.0344775	94.41681932	90.10635972	86.07906832	82.31300508	78.78812315	75.48609154	72.39013567
210212A00008	2/12/2021	0.95	10/13/2026	100.51722	100.0567225	99.60044271	99.14832315	98.70030698	98.2563384	97.81636262	97.38032584	96.9481752
210216A00006	2/16/2021	1.44	2/15/2030	105.33902	101.5253437	97.869573	94.36432658	91.00261215	87.77780166	84.6836102	81.71407609	78.86354244
210216A00007	2/16/2021	1.3	2/16/2029	103.64237	100.8387194	98.12473813	95.4970418	92.95239587	90.48770768	88.10001925	85.78650042	83.54444249
210216A00009	2/16/2021	0.92	2/16/2027	100.86542	100.0557747	99.25906658	98.47498407	97.70322894	96.94351229	96.1955542	95.45908335	94.73383672
210217A00005	2/17/2021	0.83	2/14/2031	101.99992	99.54195112	97.17399242	94.8919675	92.69201914	90.57049201	88.52392068	86.54901842	84.64266674
210218A00010	2/18/2021	1.72	2/18/2031	107.54782	102.7057564	98.10909256	93.74413948	89.59804092	85.65872019	81.91482876	78.35569846	74.97129719
210225A00007	2/25/2021	1.79	8/23/2030	107.22719	102.8738647	98.72128993	94.75918072	90.97783286	87.36808704	83.92129528	80.62928965	77.48435312

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
210226A00012	2/26/2021	2.31	2/26/2036	116.36838	106.4564985	97.4827156	89.35301222	81.98324629	75.29806724	69.22995764	63.71838359	58.70904094
210305A00013	3/5/2021	2.41	3/5/2036	117.36804	107.3883395	98.35376356	90.16948236	82.75063735	76.02124709	69.91323858	64.36558847	59.32356135
210324A00002	3/24/2021	2.06	3/24/2031	109.34279	104.36501	99.64338843	95.1634496	90.91160684	86.87510457	83.04196323	79.4009283	75.94142281
210330A00021	3/30/2021	2.16	3/28/2031	109.85485	104.8539866	100.110814	95.61074451	91.34008899	87.28599713	83.43640191	79.77996792	76.30604342
210331A00007	3/31/2021	1.25	3/31/2031	102.99565	100.4346164	97.96989552	95.59702932	93.31180071	91.11021735	88.98849814	86.94306063	84.97050919
210408A00007	4/8/2021	1.05	4/8/2031	102.62799	100.0730149	97.6142341	95.24718733	92.96765822	90.77165545	88.6553992	86.61530839	84.64798897
210409A00010	4/9/2021	1.05	4/9/2031	102.60725	100.0742828	97.63633581	95.28901339	93.02815874	90.84983667	88.75032018	86.72607805	84.7737632
210420A00035	4/20/2021	1.92	4/20/2034	108.34382	102.9236719	97.86056355	93.12747993	88.69965312	84.55435914	80.6707362	77.02962031	73.61339627
210423A00001	4/23/2021	1.72	4/23/2036	107.27076	102.0808591	97.24582051	92.73721979	88.52916147	84.59803264	80.92228502	77.48223919	74.25990867
210423A00003	4/23/2021	1.31	4/23/2031	103.31076	100.7381014	98.26234566	95.87899944	93.58381269	91.37276237	89.24203875	87.1880326	85.20732329
210428A00007	4/28/2021	1.74	10/27/2028	104.21146	101.708662	99.27888535	96.91958154	94.62830455	92.40270855	90.24054315	88.13964887	86.09795287
210428A00008	4/28/2021	1.93	4/26/2030	107.31823	103.2813782	99.41893697	95.7224548	92.18393865	88.795823	85.55094459	82.44251885	79.46411786
210428A00015	4/28/2021	2.02	4/28/2031	109.27782	104.2071128	99.40225432	94.84793343	90.52980059	86.43440107	82.54911453	78.86209905	75.36223911
210429A00005	4/29/2021	2.08	4/29/2031	109.58506	104.5039996	99.68935254	95.12577625	90.79888608	86.69519478	82.80205186	79.10758741	75.60065996
210507A00008	5/7/2021	1.94	5/7/2031	108.90432	103.8190208	99.0015687	94.43647304	90.1092178	86.00619626	82.11464929	78.42260814	74.91884141
210507A00009	5/7/2021	2.02	5/7/2032	110.40405	104.3054552	98.58326343	93.21230129	88.16920585	83.43228417	78.9813857	74.79778493	70.86407365
210512A00011	5/12/2021	1.16	5/12/2026	100.15964	100.0406274	99.92190949	99.80348828	99.68536266	99.56753146	99.44999356	99.33274781	99.21579309
210512A00012	5/12/2021	1.16	5/12/2026	100.15964	100.0406274	99.92190949	99.80348828	99.68536266	99.56753146	99.44999356	99.33274781	99.21579309
210514A00007	5/14/2021	0.95	5/15/2028	101.11195	100.0295142	98.96881678	97.92923098	96.91015196	95.91099777	94.9312082	93.97024377	93.0275848
210514A00010	5/14/2021	1.34	5/14/2031	103.40139	100.8138694	98.32467073	95.92919161	93.62308267	91.40222881	89.26273495	87.20091278	85.21326835
210514A00033	5/18/2021	2.8	5/18/2028	105.6957	103.6148442	101.5857207	99.60670124	97.67622182	95.79277907	93.95492719	92.1612753	90.41048491
210526A00017	5/26/2021	2.13	5/26/2033	112.10516	104.9439092	98.29127591	92.10847144	86.35986025	81.0126851	76.03682049	71.40454854	67.09035488
210526A00018	5/26/2021	1.11	5/26/2026	100.09335	100.0212054	99.94917229	99.87725169	99.80544337	99.73374708	99.66216255	99.59068953	99.51932776
210527A00019	5/27/2021	1	5/27/2026	100.0931	100.0181377	99.94329498	99.86857179	99.79396782	99.71948278	99.64511638	99.57086834	99.49673839
210527A00026	6/1/2021	2.78	6/1/2028	105.75595	103.6365531	101.5704659	99.55598259	97.59146805	95.67535155	93.80612371	91.98233357	90.20258584
210603A00015	6/7/2021	2.71	6/7/2028	105.65193	103.5169628	101.4360014	99.40730865	97.42921685	95.50012468	93.61849385	91.78284612	89.99176044
210608A00017	6/10/2021	2.67	6/8/2029	108.13287	104.9600085	101.8974369	98.94068231	96.08547892	93.32775986	90.66364659	88.08943889	85.60160544
210609A00007	6/11/2021	2.6	6/11/2029	107.93273	104.7546714	101.6873458	98.7262485	95.86708689	93.10576928	90.43839395	87.86123903	85.37075302
210610A00012	6/11/2021	1.9	6/10/2026	100.23685	100.1230139	100.0094461	99.89614924	99.78312235	99.67036442	99.55787445	99.44565144	99.3336944
210610A00014	6/11/2021	2.03	6/10/2026	100.25167	100.1378132	100.0242318	99.91092137	99.79788093	99.68510947	99.57260599	99.4603695	99.34839901
210611A00006	6/11/2021	1.85	6/11/2031	108.55786	103.3882097	98.49522158	93.86264328	89.47526467	85.31884412	81.38004157	77.64635657	74.10607098
210611A00010	6/11/2021	1.02	6/11/2026	100.239	100.0398024	99.84140976	99.64381777	99.44702151	99.25101609	99.05579669	98.86135852	98.66769682
210611A00011	6/11/2021	1.02	6/11/2026	100.239	100.0398024	99.84140976	99.64381777	99.44702151	99.25101609	99.05579669	98.86135852	98.66769682

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
210611A00012	6/11/2021	1.02	6/11/2026	100.239	100.0398024	99.84140976	99.64381777	99.44702151	99.25101609	99.05579669	98.86135852	98.66769682
210623A00028	6/23/2021	1.22	6/23/2026	100.20995	100.0600912	99.91069046	99.76174547	99.61325416	99.46521443	99.31762422	99.17048145	99.02378407
210624A00005	6/24/2021	1.22	6/24/2026	100.21383	100.0611935	99.90903111	99.75733979	99.60611734	99.45536157	99.30507031	99.1552414	99.0058727
210624A00025	6/24/2021	1.43	6/24/2027	101.73044	100.5651988	99.42649045	98.31341584	97.22511752	96.16077588	95.11960711	94.10086124	93.10382036
210624A00026	6/24/2021	1.6	6/23/2028	103.34972	101.1957345	99.0971806	97.05224507	95.05918488	93.11632791	91.22206938	89.37486856	87.57324561
210629A00005	6/29/2021	1.25	6/29/2026	100.23823	100.0716993	99.90572274	99.74029601	99.57541637	99.41108113	99.24728761	99.08403315	98.92131511
210629A00014	6/29/2021	1.78	12/28/2029	106.19858	102.5088559	98.96689994	95.56596369	92.2996494	89.16188844	86.14692216	83.24928409	80.46378313
210629A00015	6/29/2021	1.89	6/27/2031	108.81859	103.5988856	98.66046229	93.98668349	89.56198353	85.37179551	81.40248166	77.64126887	74.07618921
210701A00007	7/1/2021	1.22	7/1/2026	100.24098	100.0689086	99.8974266	99.72653145	99.55622018	99.3864898	99.21733737	99.04875994	98.8807546
210706A00006	7/6/2021	1.15	7/6/2026	100.24733	100.0613971	99.87616679	99.69163007	99.50778305	99.32462182	99.14214252	98.96034129	98.77921432
210706A00014	7/6/2021	1.15	6/26/2026	100.2105	100.0523226	99.8946503	99.73748005	99.58080945	99.42463614	99.26895775	99.11377191	98.9590763
210707A00002	7/7/2021	1.12	6/26/2026	100.20575	100.0475762	99.88990951	99.73274492	99.57607998	99.4199123	99.26423953	99.1090593	98.95436928
210707A00008	7/9/2021	2.44	7/7/2031	111.73416	106.4128476	101.378447	96.61394508	92.10342804	87.83200692	83.78574578	79.95159541	76.31733188
210709A00002	7/9/2021	1.36	7/9/2029	104.30184	101.1006226	98.01378937	95.03657148	92.16443273	89.39305494	86.71832584	84.1363277	81.64332679
210709A00005	7/9/2021	1.69	7/9/2031	107.80387	102.5786876	97.63702415	92.96200683	88.53785515	84.34980763	80.38405026	76.62765032	73.0684953
210709A00006	7/13/2021	2.4	7/11/2031	111.54129	106.2143433	101.1752172	96.40680368	91.89310963	87.61917414	83.57099587	79.73546611	76.10030688
210714A00012	7/14/2021	1.12	7/14/2026	100.38049	100.0877359	99.79670775	99.50738713	99.21975894	98.93380826	98.64952031	98.36688052	98.08587447
210714A00013	7/14/2021	1.12	7/14/2026	100.38049	100.0877359	99.79670775	99.50738713	99.21975894	98.93380826	98.64952031	98.36688052	98.08587447
210714A00014	7/14/2021	1.12	7/14/2026	100.38049	100.0877359	99.79670775	99.50738713	99.21975894	98.93380826	98.64952031	98.36688052	98.08587447
210714A00015	7/14/2021	1.11	7/14/2026	100.37688	100.0846595	99.79415313	99.50534989	99.21823473	98.93279276	98.64900927	98.3668697	98.08635969
210719A00009	7/19/2021	1.04	7/17/2026	100.26398	100.0475552	99.83208196	99.61755044	99.40395441	99.19128768	98.97954412	98.76871765	98.55880226
210720A00035	7/22/2021	2.27	7/21/2031	110.89668	105.559974	100.5131762	95.73897087	91.22117351	86.94464941	82.89523965	79.05969258	75.4256005
210721A00009	7/21/2021	1.7	7/21/2031	107.88425	102.6257669	97.65413539	92.95218896	88.50388099	84.29420728	80.30913224	76.53552086	72.96107586
210722A00001	7/22/2021	1.1	7/22/2026	100.2947	100.0643756	99.8351237	99.6069324	99.37979431	99.15370209	98.92864848	98.70462629	98.48162839
210722A00008	7/21/2023	1.84	7/22/2030	107.32001	103.0494751	98.97242667	95.07902862	91.3600001	87.80658449	84.41051636	81.16399074	78.05963465
210722A00009	7/21/2023	1.96	7/22/2032	110.21241	103.9201668	98.02779446	92.5077744	87.33462826	82.48475373	77.93627632	73.66891371	69.66385147
210729A00003	7/29/2021	1.11	7/29/2026	100.322	100.0722362	99.82371806	99.5764332	99.33037247	99.08552681	98.84188726	98.59944493	98.35819103
210729A00004	7/29/2021	1.74	7/29/2031	108.11509	102.8297691	97.83371735	93.1095586	88.64105918	84.41304394	80.41132108	76.62261275	73.03449102
210729A00006	7/29/2021	1.87	11/30/2032	109.89707	103.2729719	97.09170681	91.32139508	85.93260864	80.89817237	76.19298045	71.79382854	67.67926047
210803A00005	8/5/2021	2.06	8/4/2026	100.59695	100.330105	100.0646767	99.80065544	99.53803011	99.27678963	99.01692302	98.75841945	98.50126817
210804A00008	8/6/2021	2.28	8/4/2028	105.0805	102.7940308	100.5687205	98.40249139	96.29335346	94.23940075	92.2388069	90.28982111	88.39076427
210809A00010	8/9/2021	1.06	8/7/2026	100.44446	100.08596	99.73002714	99.37663637	99.02576038	98.67737232	98.33144567	97.98795434	97.64687257
210809A00012	8/9/2021	1.06	8/7/2026	100.44446	100.08596	99.73002714	99.37663637	99.02576038	98.67737231	98.33144567	97.98795434	97.64687257

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
210809A00013	8/9/2021	1.05	8/7/2026	100.43987	100.0821906	99.72707408	99.37449141	99.02441539	98.67681925	98.33167661	97.98896144	97.64864809
210809A00014	8/9/2021	1.06	8/7/2026	100.44446	100.08596	99.73002714	99.37663637	99.02576038	98.67737231	98.33144567	97.98795434	97.64687257
210809A00015	8/9/2021	1.06	8/7/2026	100.44446	100.08596	99.73002714	99.37663637	99.02576038	98.67737231	98.33144567	97.98795434	97.64687257
210817A00013	8/19/2021	2	8/19/2026	100.67193	100.3633549	100.0566845	99.75189843	99.44897942	99.1479102	98.84867377	98.55125334	98.25563232
210826A00009	8/26/2021	1.18	8/26/2026	100.44548	100.1179567	99.79256738	99.46929425	99.14811666	98.82901425	98.51196693	98.19695487	97.8839585
210826A00013	8/26/2021	1.97	2/28/2033	110.77504	103.8839977	97.46839337	91.4930252	85.92546815	80.73583807	75.89658098	71.38228066	67.16948299
210907A00004	9/7/2021	2.01	9/7/2033	111.50015	104.091673	97.22836997	90.86733872	84.96925885	79.49807351	74.42070351	69.70678782	65.32844785
210907A00006	9/7/2021	2.1	9/7/2034	113.12475	104.7159878	96.99903487	89.9133454	83.40396051	77.42096531	71.91900308	66.85683842	62.1969642
210907A00007	9/7/2021	2.35	9/4/2037	117.5818	106.2416052	96.11867149	87.07519783	78.98964816	71.75475939	65.27580144	59.46905687	54.2604915
210907A00008	9/7/2021	2.42	9/7/2038	118.63764	106.3602519	95.50128974	85.88819116	77.37023382	69.81567167	63.10926102	57.15011968	51.84987294
210907A00009	9/7/2021	2.5	9/7/2039	120.03241	106.8197806	95.23807054	85.07546369	76.14870594	68.29912885	61.38924099	55.29980625	49.92733771
210907A00010	9/7/2021	2.58	9/7/2040	121.91511	107.7432703	95.42929926	84.7169505	75.38662672	67.24997479	60.14529905	53.93366742	48.49560277
210907A00011	9/7/2021	2.65	9/6/2041	124.3779	109.2070523	96.13682783	84.86103575	75.1197266	66.69200057	59.38996248	53.05363826	47.5466959
210907A00014	9/9/2021	2.45	9/9/2026	100.96403	100.5965979	100.2318467	99.86974662	99.51026872	99.15338451	98.7990659	98.44728518	98.09801509
210907A00015	9/9/2021	2.21	9/9/2026	100.87599	100.50875	100.1441941	99.78228822	99.42300355	99.06631154	98.71218412	98.3605936	98.01151271
210913A00014	9/13/2021	1.15	9/13/2028	101.48711	100.191712	98.92525895	97.68686093	96.47566327	95.29084454	94.13161495	92.99721488	91.8869134
210913A00015	9/13/2021	1.08	9/14/2026	100.57046	100.1150618	99.66383408	99.21671582	98.77365076	98.33458365	97.89946026	97.46822733	97.04083255
210914A00012	9/14/2021	1.18	9/14/2027	101.72508	100.3520885	99.00411845	97.68054458	96.38076274	95.10418831	93.85025534	92.6184159	91.40813926
210914A00014	9/14/2021	0.97	9/14/2026	100.45936	100.0789603	99.70144368	99.32678118	98.95494034	98.58588925	98.21959647	97.85603105	97.49516247
210914A00017	9/14/2021	1.32	9/14/2028	103.15449	100.7773768	98.46667476	96.22017055	94.0357337	91.91131692	89.84495225	87.83474758	85.87888321
210914A00018	9/14/2021	1.43	9/14/2029	104.75806	101.3705347	98.10988552	94.97071292	91.9478765	89.03648035	86.2318601	83.52957066	80.9253748
210915A00024	9/15/2021	1.1	9/15/2026	100.58815	100.1258329	99.6677898	99.21395819	98.76427991	98.31869791	97.8771562	97.43959978	97.00597468
210915A00025	9/15/2021	1.09	9/15/2026	100.58173	100.120854	99.66423222	99.21180369	98.76351054	98.31929602	97.8791044	97.44288097	97.01057201
210915A00026	9/15/2021	1.1	9/15/2026	100.58815	100.1258329	99.6677898	99.21395819	98.76427991	98.31869791	97.8771562	97.43959978	97.00597468
210915A00027	9/15/2021	1.1	9/15/2026	100.58815	100.1258329	99.6677898	99.21395819	98.76427991	98.31869791	97.8771562	97.43959978	97.00597468
210916A00008	9/16/2021	1.48	9/15/2028	103.39956	101.0197193	98.70636165	96.45727051	94.27031276	92.14343854	90.07467748	88.06213513	86.10398958
210916A00009	9/16/2021	2.25	9/16/2036	116.14998	105.746273	96.37672791	87.93271623	80.31753889	73.4450637	67.23852319	61.62945449	56.5567638
210917A00008	9/17/2021	1.55	9/15/2028	103.56851	101.1866069	98.87123185	96.62016667	94.43127694	92.30251155	90.23189894	88.2175435	86.2576222
210917A00012	9/17/2021	1.2	9/11/2026	100.51307	100.1411066	99.77190213	99.40542456	99.04164365	98.68052962	98.32205311	97.96618522	97.61289745
210920A00014	9/9/2022	1.28	9/9/2026	100.53481	100.1683392	99.80454003	99.44338692	99.08485099	98.72890378	98.37551724	98.02466372	97.67631598
210920A00015	9/9/2022	1.28	9/9/2026	100.53481	100.1683392	99.80454003	99.44338692	99.08485099	98.72890378	98.37551724	98.02466372	97.67631598
210921A00006	9/21/2021	1.43	9/21/2028	103.27845	100.8991808	98.58825302	96.34329885	94.16205136	92.04233577	89.98206506	87.97923587	86.03192456
210921A00009	9/21/2021	1.28	9/21/2028	103.05875	100.6810414	98.37169268	96.1283334	93.94869416	91.83059797	89.77195576	87.77076226	85.82509211

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
210924A00003	9/24/2021	2.37	9/24/2036	117.40162	106.9152288	97.47143191	88.96060118	81.28516646	74.35823388	68.10236945	62.4485265	57.33509944
210924A00004	9/24/2021	2.37	9/24/2036	117.40162	106.9152288	97.47143191	88.96060118	81.28516646	74.35823388	68.10236945	62.4485265	57.33509944
210924A00005	9/24/2021	2.37	9/24/2036	117.40162	106.9152288	97.47143191	88.96060118	81.28516646	74.35823388	68.10236945	62.4485265	57.33509944
210924A00011	9/24/2021	2.19	9/25/2034	113.92874	105.4406871	97.65400994	90.50702716	83.94377767	77.91346235	72.3699443	67.27129965	62.57941374
210928A00008	9/28/2021	1.35	9/28/2026	100.64065	100.2213083	99.8054513	99.39303607	98.98402	98.57836124	98.1760186	97.77695157	97.38112031
210928A00009	9/28/2021	2.18	9/28/2033	112.82	105.3087398	98.35322189	91.90944369	85.93709403	80.39922981	75.26197888	70.49427059	66.06759113
211007A00006	10/7/2021	1.28	10/7/2026	100.7564	100.2311471	99.71138965	99.19704281	98.68802215	98.18424508	97.68563065	97.19209962	96.70357435
211014A00012	10/14/2021	1.46	10/14/2031	104.01412	101.1749047	98.45144909	95.83799892	93.32912911	90.91972271	88.6049513	86.38025669	84.24133399
211019A00009	10/19/2021	1.48	10/9/2026	100.74409	100.2940485	99.84802584	99.40596967	98.96782711	98.53354624	98.10307608	97.67636653	97.25336835
211019A00011	10/19/2021	1.48	10/16/2026	100.77499	100.3054909	99.84036884	99.37956142	98.92300867	98.47065171	98.02243278	97.57829515	97.13818313
211026A00012	10/26/2021	1.52	10/26/2026	100.83903	100.3416681	99.8492028	99.36156238	98.87867621	98.400475	97.92689078	97.45785691	96.99330802
211026A00013	10/26/2021	1.52	10/26/2026	100.83903	100.3416681	99.8492028	99.36156238	98.87867621	98.400475	97.92689078	97.45785691	96.99330802
211028A00012	10/28/2021	1.64	10/15/2027	102.39129	100.9307104	99.49823039	98.0931135	96.71464507	95.3621348	94.03491575	92.73234334	91.45379444
211028A00013	10/28/2021	1.65	10/22/2027	102.42984	100.9503089	99.49959986	98.07694062	96.68158991	95.31283205	93.96997588	92.65235368	91.3593202
211028A00020	10/28/2021	2.05	1/28/2031	109.05137	104.2339894	99.65750924	95.30856989	91.17462583	87.24389508	83.50530797	79.94845985	76.56356706
211028A00021	10/28/2021	2.28	10/28/2033	113.65293	106.0347595	98.98534916	92.45922112	86.41475931	80.81385962	75.62161688	70.80604122	66.33780091
211110A00012	11/10/2021	1.44	11/10/2026	100.96722	100.3520505	99.74441319	99.14416878	98.55118257	97.96532312	97.38646218	96.81447452	96.24923793
211110A00013	11/10/2021	1.44	11/10/2026	100.96722	100.3520505	99.74441319	99.14416878	98.55118257	97.96532312	97.38646218	96.81447452	96.24923793
211110A00014	11/10/2021	1.44	11/10/2026	100.96722	100.3520505	99.74441319	99.14416878	98.55118257	97.96532312	97.38646218	96.81447452	96.24923793
211115A00032	11/15/2021	1.75	11/12/2027	102.66693	101.128397	99.62065293	98.1428454	96.6941552	95.27379255	93.88099582	92.51503021	91.17518664
211119A00009	11/19/2021	1.68	11/19/2027	102.58794	101.0307095	99.50485856	98.00950794	96.5438135	95.10696192	93.69816925	92.31667954	90.96176365
211123A00011	11/23/2021	1.69	11/23/2026	101.056	100.4805501	99.91163815	99.34915606	98.79299525	98.24304954	97.69921515	97.16139055	96.62947651
211123A00012	11/23/2021	2.27	11/23/2033	113.66315	105.9760797	98.86762347	92.29115211	86.20402453	80.56722673	75.34504587	70.50477508	66.01644618
211129A00011	11/29/2021	1.53	11/20/2026	100.95127	100.3844552	99.82399374	99.26978037	98.72171092	98.17968355	97.64359865	97.11335881	96.58886874
211129A00012	11/29/2021	1.53	11/25/2026	100.9724	100.391687	99.8176401	99.25014095	98.68907805	98.13434235	97.58582726	97.04342859	96.50704445
211206A00010	12/6/2021	1.54	12/4/2026	101.01576	100.4100479	99.81157778	99.22022072	98.6358505	98.05834385	97.48758038	96.9234425	96.36581536
211207A00011	12/7/2021	1.62	12/1/2026	101.05135	100.4537928	99.8632776	99.2796803	98.7028799	98.13275828	97.56920004	97.0120924	96.46132519
211207A00012	12/7/2021	1.62	12/4/2026	101.06424	100.4583566	99.85972157	99.26820101	98.68366867	98.10600125	97.53507836	96.97078238	96.41299844
211208A00012	12/8/2021	1.62	12/8/2026	101.20003	100.5058194	99.82117808	99.14591083	98.47982555	97.82273543	97.1744587	96.53481846	95.90364253
211208A00013	12/8/2021	1.63	12/8/2026	101.21039	100.5141238	99.82746295	99.15021409	98.48218423	97.82318571	97.17303592	96.53155715	95.89857644
211209A00006	12/9/2021	1.61	12/8/2026	101.07525	100.4582902	99.84884981	99.24678793	98.65197107	98.06426895	97.4835544	96.90970327	96.34259434
211209A00007	12/9/2021	1.61	12/8/2026	101.07525	100.4582902	99.84884981	99.24678793	98.65197107	98.06426895	97.4835544	96.90970327	96.34259434
211210A00015	12/10/2021	1.63	12/10/2026	101.09623	100.4736839	99.85878717	99.25140231	98.65139213	98.05862283	97.47296379	96.89428754	96.32246965

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
211210A00016	12/10/2021	1.76	12/10/2027	102.80701	101.1908639	99.60798673	98.05742032	96.53824168	95.04956284	93.59052916	92.16031771	90.7581358
211217A00021	12/21/2021	2.44	12/18/2026	101.65315	101.0065027	100.3680776	99.73771882	99.11527389	98.50059431	97.89353524	97.29395546	96.70171717
211221A00023	12/21/2021	1.53	6/19/2026	100.23751	100.0987109	99.96031108	99.82230747	99.68469837	99.54748207	99.41065684	99.27422099	99.13817282
211221A00025	12/21/2021	1.59	12/21/2026	101.11766	100.4646641	99.82008611	99.18376067	98.55553	97.93524027	97.32274152	96.71788758	96.12053589
211222A00035	12/22/2021	2.15	12/22/2033	112.83083	105.1001148	97.9571847	91.35423515	85.24758525	79.59730356	74.36686785	69.52285744	65.03467484
211227A00005	12/27/2021	1.61	12/18/2026	101.11792	100.4732083	99.83670254	99.20824588	98.58768619	97.97487517	97.36966824	96.77192439	96.1815061
211227A00009	12/27/2021	1.6	12/23/2026	101.13267	100.4740974	99.8240829	99.18245789	98.54906068	97.92373369	97.30632337	96.69668004	96.09465776
220104A00006	1/4/2022	1.76	1/4/2029	104.52898	101.9520939	99.45489728	97.03439429	94.68772207	92.41214607	90.20505333	88.063946	85.98643533
220106A00007	1/6/2022	2.42	1/6/2034	114.95619	107.1074232	99.85640347	93.15436941	86.95678301	81.22294306	75.91563557	71.0008178	66.44733244
220106A00008	1/6/2022	2.5	1/5/2035	116.89276	108.0210435	99.90072031	92.4639694	85.64942693	79.40154366	73.67000577	68.40921629	63.57783022
220106A00009	1/6/2022	2.57	1/4/2036	118.74262	108.8547035	99.88713848	91.74895067	84.35861503	77.64302728	71.53659403	65.9804255	60.92161881
220106A00010	1/6/2022	2.64	1/6/2037	120.41677	109.5201002	99.72821379	90.92247064	82.99756741	75.85997544	69.42656867	63.62341776	58.38472952
220106A00011	1/6/2022	2.7	1/6/2038	121.68926	109.8229213	99.25644767	89.83932666	81.43923563	73.93975919	67.23840246	61.2448615	55.87951637
220106A00013	1/6/2022	2.75	1/6/2039	122.82973	110.0172824	98.71104035	88.72410098	79.89371528	72.07805095	65.1534067	59.01180986	53.55894311
220106A00018	1/10/2022	3.11	1/8/2032	116.35718	110.4107377	104.81015	99.53339936	94.55999115	89.87083774	85.44815419	81.27536224	77.33700192
220106A00019	1/10/2022	3.17	1/7/2033	118.73574	111.7232478	105.1801333	99.0723709	93.36858103	88.0398096	83.05932771	78.40244912	74.04636371
220114A00010	1/14/2022	1.86	1/13/2027	101.4086	100.6910173	99.9835649	99.28603318	98.59821437	97.91990647	97.25091311	96.59104325	95.94011108
220124A00007	1/24/2022	1.88	1/22/2027	101.46842	100.7257395	99.99390432	99.27267784	98.56183059	97.86113961	97.17038834	96.48936631	95.81786896
220124A00008	1/24/2022	1.88	1/22/2027	101.46842	100.7257395	99.99390432	99.27267784	98.56183059	97.86113961	97.17038834	96.48936631	95.81786896
220125A00010	1/25/2022	1.89	1/25/2027	101.49108	100.7400216	100.0000459	99.27091102	98.55238003	97.84422283	97.14621598	96.45814238	95.77979111
220126A00002	1/26/2022	1.9	12/18/2026	101.30493	100.65954	100.0223637	99.39324245	98.77202406	98.15856017	97.55270611	96.95432079	96.3632666
220126A00003	1/26/2022	1.9	12/18/2026	101.30493	100.65954	100.0223637	99.39324245	98.77202406	98.15856017	97.55270611	96.95432079	96.3632666
220131A00003	1/31/2022	1.98	2/1/2027	101.59604	100.8252125	100.066037	99.31825484	98.58161123	97.8558588	97.14075749	96.43607425	95.74158277
220131A00006	1/31/2022	1.83	2/1/2027	101.52621	100.7550649	99.99558753	99.24751799	98.51060087	97.78458833	97.0692398	96.36432178	95.6696075
220203A00009	2/3/2022	1.99	2/2/2027	101.60921	100.8355592	100.0736538	99.32322459	98.58401392	97.85577172	97.13825532	96.43122917	95.73446457
220204A00004	2/4/2022	2.08	1/8/2027	101.53833	100.8340386	100.1394984	99.45450776	98.7788706	98.11239621	97.45489901	96.80619844	96.16611873
220209A00010	2/9/2022	2.14	1/11/2027	101.59785	100.8850375	100.1822107	99.48916099	98.80568523	98.1315859	97.46667087	96.81075325	96.16365117
220209A00011	2/9/2022	2.14	1/11/2027	101.59785	100.8850375	100.1822107	99.48916099	98.80568523	98.1315859	97.46667087	96.81075325	96.16365117
220214A00010	2/14/2022	2.46	12/21/2029	108.68089	104.9641972	101.3952505	97.96734101	94.67410767	91.50951471	88.46783292	85.54362207	82.73171447
220214A00012	2/14/2022	2.47	12/28/2029	108.76033	105.023352	101.4355263	97.99005498	94.68049043	91.50071657	88.44492935	85.5076189	82.68355264
220216A00003	2/16/2022	2.49	12/14/2029	108.74878	105.049674	101.4969832	98.08409478	94.80473068	91.65293219	88.62304172	85.70968573	82.90775861
220217A00012	2/17/2022	2.28	2/16/2027	101.92106	101.1073847	100.3066711	99.51861529	98.74291873	97.97929224	97.2274556	96.48713722	95.7580738
220217A00015	2/17/2022	2.28	2/16/2027	101.92106	101.1073847	100.3066711	99.51861529	98.74291873	97.97929224	97.2274556	96.48713722	95.7580738

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220217A00016	2/17/2022	2.24	9/15/2026	100.92715	100.5431545	100.1620923	99.78392618	99.40862315	99.03615063	98.66647657	98.29956941	97.93539804
220217A00017	2/17/2022	2.27	1/29/2027	101.80081	101.0373994	100.285404	99.54457313	98.8146596	98.09542348	97.38663181	96.68805839	95.99948349
220217A00018	2/17/2022	2.28	2/17/2027	101.92733	101.1108604	100.3074414	99.51676494	98.7385295	97.97244307	97.2182227	96.47559416	95.74429163
220217A00027	2/16/2024	2.56	2/17/2032	113.36448	107.3933866	101.7769571	96.49226334	91.51797557	86.83424369	82.42258693	78.26579245	74.34782194
220218A00003	2/18/2022	2.16	9/4/2026	100.82529	100.47203	100.1212416	99.77290237	99.42698663	99.08346913	98.74232497	98.40352959	98.06705876
220222A00018	2/22/2022	2.5	12/19/2031	112.76818	106.975899	101.5193659	96.37733074	91.52999968	86.95892804	82.64692137	78.57794406	74.73703507
220225A00014	2/25/2022	2.42	2/23/2029	106.70284	103.8386203	101.0661387	98.38195945	95.78279245	93.26548914	90.82703572	88.46454654	86.17525784
220225A00015	2/25/2022	2.26	2/25/2027	101.96075	101.1219995	100.2970088	99.48544309	98.68697668	97.9012944	97.12809112	96.36707135	95.61794887
220301A00013	3/1/2022	2.01	2/16/2027	101.70192	100.8892152	100.089465	99.30236188	98.52760748	97.76491285	97.01399795	96.27459138	95.54643002
220301A00015	3/1/2022	2	1/4/2027	101.46053	100.7675819	100.0840784	99.40982322	98.74462958	98.08831574	97.44070478	96.80162444	96.170907
220302A00010	3/2/2022	2.14	1/13/2027	101.6094	100.8910161	100.1827733	99.48445896	98.79586522	98.11678995	97.44703664	96.78641416	96.13473655
220302A00011	3/2/2022	2.14	1/13/2027	101.6094	100.8910161	100.1827733	99.48445896	98.79586522	98.11678995	97.44703664	96.78641416	96.13473655
220304A00004	3/4/2022	2.12	12/29/2028	105.52453	102.833426	100.2246599	97.69519066	95.24211032	92.86263849	90.55411581	88.31399775	86.13984869
220308A00012	3/8/2022	2.51	3/8/2032	111.35125	106.2099124	101.3629997	96.79170056	92.478508	88.4071255	84.56237697	80.93012378	77.49718845
220309A00010	3/9/2022	2.27	3/8/2027	102.03846	101.1689528	100.3142283	99.47391417	98.64764818	97.8350801	97.03587131	96.24969425	95.47623201
220310A00009	3/10/2022	2.31	3/10/2027	102.24861	101.3022465	100.3735315	99.4619768	98.56710862	97.68847045	96.82562235	95.97814018	95.1456149
220310A00010	3/10/2022	2.31	3/10/2027	102.24861	101.3022465	100.3735315	99.4619768	98.56710862	97.68847045	96.82562235	95.97814018	95.1456149
220311A00013	3/15/2022	2.35	3/15/2027	102.15369	101.2642853	100.3903373	99.53144685	98.68722713	97.8573044	97.04131758	96.23891764	95.44976712
220314A00004	3/14/2022	2.44	3/12/2027	102.21309	101.3316981	100.4654779	99.61404298	98.77701718	97.95403675	97.14475016	96.34881754	95.56591017
220314A00007	3/14/2022	2.44	3/12/2027	102.21309	101.3316981	100.4654779	99.61404298	98.77701718	97.95403675	97.14475016	96.34881754	95.56591017
220315A00014	3/15/2022	2.78	3/15/2032	114.78398	108.6980085	102.9770545	97.59732895	92.53670763	87.77460866	83.29187785	79.07068273	75.0944151
220315A00015	3/15/2022	3.18	3/13/2037	126.37278	114.9962528	104.7817632	95.60326771	87.34903489	79.91995276	73.22804501	67.19516833	61.75186794
220315A00018	3/15/2022	2.43	3/15/2027	102.22463	101.3348793	100.4605938	99.6013699	98.75682074	97.92657248	97.11026396	96.30754607	95.5180813
220315A00036	3/17/2022	2.63	3/16/2027	102.40929	101.5158887	100.6380519	99.77537955	98.92748094	98.09397869	97.27450817	96.46871701	95.67626455
220315A00037	3/17/2022	2.63	3/16/2027	102.40929	101.5158887	100.6380519	99.77537955	98.92748094	98.09397869	97.27450817	96.46871701	95.67626455
220317A00026	5/3/2022	2.59	5/3/2027	102.71715	101.6893418	100.6820559	99.69468308	98.72663726	97.77735509	96.84629494	95.93293586	95.03677658
220317A00027	5/3/2022	2.59	5/3/2027	102.71715	101.6893418	100.6820559	99.69468308	98.72663726	97.77735509	96.84629494	95.93293586	95.03677658
220317A00028	5/3/2022	2.59	5/3/2027	102.71715	101.6893418	100.6820559	99.69468308	98.72663726	97.77735509	96.84629494	95.93293586	95.03677658
220325A00015	3/28/2022	2.86	3/23/2027	102.66965	101.7555752	100.8577634	99.97578109	99.10921199	98.25765448	97.42072076	96.5980363	95.78923925
220325A00017	3/28/2022	2.86	3/23/2027	102.66965	101.7555752	100.8577635	99.97578109	99.10921199	98.25765448	97.42072076	96.5980363	95.78923925
220325A00018	3/28/2022	2.85	9/10/2026	101.11916	100.7486046	100.3807745	100.015638	99.65316537	99.29332745	98.93609548	98.58144112	98.22933644
220325A00019	3/28/2022	2.86	3/23/2027	102.66965	101.7555752	100.8577634	99.97578109	99.10921199	98.25765448	97.42072076	96.5980363	95.78923925
220325A00020	3/28/2022	2.86	3/23/2027	102.66965	101.7555752	100.8577634	99.97578109	99.10921199	98.25765448	97.42072076	96.5980363	95.78923925

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220329A00007	3/29/2022	2.94	3/29/2029	108.44766	105.4649977	102.5804997	99.79040837	97.09112897	94.47922391	91.95140491	89.50452559	87.13557454
220329A00009	3/29/2022	2.94	3/29/2029	108.44766	105.4649977	102.5804997	99.79040837	97.09112897	94.47922391	91.95140491	89.50452559	87.13557454
220401A00009	4/1/2022	2.98	4/1/2027	102.85334	101.9133986	100.9906117	100.0845149	99.19465856	98.32060881	97.46194726	96.61827014	95.78918769
220404A00010	4/4/2022	2.93	4/2/2027	102.81472	101.8722023	100.9469434	100.0384707	99.14633051	98.27008516	97.40931264	96.56360573	95.73257137
220404A00014	4/4/2022	2.94	4/5/2027	102.84839	101.8973981	100.9639753	100.0476374	99.14791812	98.26436832	97.39655481	96.54405975	95.70648001
220407A00014	4/7/2022	3.14	4/6/2029	108.16474	105.4654785	102.8542019	100.3274921	97.8820851	95.5148634	93.22284838	91.00319324	88.85317631
220407A00017	4/7/2022	3.16	4/6/2029	108.61499	105.7807423	103.0402873	100.3899553	97.8262425	95.34580285	92.94544004	90.62209973	88.37286237
220408A00012	4/8/2022	3.12	6/29/2026	100.55004	100.3831148	100.2167464	100.0509288	99.88565943	99.72093552	99.55675441	99.39311343	99.23000994
220408A00013	4/8/2022	3.15	1/14/2027	102.34229	101.6182156	100.9043926	100.2006025	99.50663451	98.82228374	98.14735104	97.4816427	96.82497029
220408A00014	4/8/2022	3.12	6/29/2026	100.55004	100.3831148	100.2167464	100.0509288	99.88565943	99.72093552	99.55675441	99.39311343	99.23000994
220411A00002	4/11/2022	3.18	4/9/2027	103.11028	102.1468619	101.2014452	100.2735276	99.36262638	98.46827613	97.59002844	96.72745095	95.88012666
220411A00008	4/11/2022	3.02	4/12/2027	103.24185	102.2023288	101.1839439	100.1860509	99.20803359	98.24930047	97.30928325	96.38743584	95.48323324
220412A00010	4/12/2022	3.09	3/15/2027	102.80985	101.9172795	101.0402097	100.178235	99.33096801	98.49803414	97.6790716	96.87373068	96.08167326
220412A00016	4/12/2022	3.09	3/19/2027	102.84427	101.9404426	101.0524949	100.1800146	99.3225998	98.47986239	97.65142752	96.83693301	96.03602883
220412A00017	4/12/2022	3.09	3/19/2027	102.84427	101.9404426	101.0524949	100.1800146	99.3225998	98.47986239	97.65142752	96.83693301	96.03602883
220412A00018	4/12/2022	3.09	3/15/2027	102.80985	101.9172795	101.0402097	100.178235	99.33096801	98.49803414	97.6790716	96.87373068	96.08167326
220418A00016	4/22/2022	3.11	9/15/2026	101.26082	100.8760541	100.4942246	100.1152956	99.73923374	99.3660066	98.99558205	98.62792849	98.26301478
220419A00016	4/19/2022	3.21	4/19/2027	103.22748	102.2357093	101.2629942	100.3087902	99.37257202	98.45383438	97.5520906	96.66687197	95.79772688
220420A00033	4/20/2022	3.29	4/20/2027	103.31527	102.3202599	101.3444145	100.3871876	99.44804947	98.52649058	97.6220203	96.7341661	95.86247279
220420A00034	6/15/2022	3.3	6/15/2027	103.83262	102.6793056	101.5516165	100.448707	99.36976634	98.31401876	97.28072162	96.26916376	95.27866375
220420A00037	6/15/2022	3.3	6/15/2027	103.83262	102.6793056	101.5516165	100.448707	99.36976634	98.31401876	97.28072162	96.26916376	95.27866375
220420A00061	6/15/2022	3.3	6/15/2027	103.83262	102.6793056	101.5516165	100.448707	99.36976634	98.31401876	97.28072162	96.26916376	95.27866375
220421A00013	4/21/2022	3.33	9/15/2026	101.34519	100.9602356	100.5782121	100.1990901	99.82283641	99.44941845	99.07880413	98.71096182	98.34586039
220422A00014	4/22/2022	3.36	9/29/2026	101.494	101.0697248	100.6489962	100.2317656	99.81798981	99.4076259	99.00063189	98.59696641	98.19658877
220425A00027	4/29/2022	3.15	8/20/2026	101.03594	100.7238833	100.4137653	100.105568	99.7992735	99.49486405	99.19232224	98.89163081	98.59277274
220425A00028	4/29/2022	3.16	4/23/2027	103.21313	102.2103327	101.2270125	100.262608	99.31657685	98.3883974	97.47756751	96.58360376	95.70604054
220426A00004	4/26/2022	3.41	4/26/2032	118.78787	112.4698192	106.5356401	100.959916	95.71904497	90.791099	86.1556966	81.79388616	77.6880386
220427A00011	4/29/2022	3.15	4/29/2027	103.25529	102.2356005	101.2360343	100.2559993	99.29492729	98.35227165	97.42750667	96.52012646	95.62964405
220428A00019	4/28/2022	3.27	4/28/2027	103.36769	102.3501637	101.3526663	100.374606	99.41541859	98.47456146	97.55151267	96.64576992	95.75684966
220429A00002	4/29/2022	3.63	4/29/2032	120.13995	113.773445	107.7935802	102.1747482	96.89316819	91.92674711	87.25495141	82.85868915	78.72020163
220506A00016	5/6/2022	3.35	5/6/2027	103.52222	102.4816735	101.4620453	100.4627116	99.48307064	98.52254403	97.58057592	96.65663187	95.75019775
220509A00013	7/15/2022	3.37	7/15/2027	104.18348	102.9448426	101.7356779	100.554938	99.4016283	98.27480022	97.17354849	96.09700871	95.04435506
220509A00014	7/15/2022	3.37	7/15/2027	104.18348	102.9448426	101.7356779	100.554938	99.4016283	98.27480022	97.17354849	96.09700871	95.04435506

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220509A00016	7/15/2022	3.37	7/15/2027	104.18348	102.9448426	101.7356779	100.554938	99.4016283	98.27480022	97.17354849	96.09700871	95.04435506
220510A00016	5/13/2022	3.23	5/5/2027	103.38959	102.3525406	101.3362947	100.3402261	99.36373801	98.40625687	97.46723136	96.54613132	95.64244674
220511A00015	5/11/2022	3.29	5/11/2027	103.50563	102.4513046	101.418465	100.4064569	99.41465423	98.44245569	97.48928375	96.55458333	95.6378208
220512A00013	5/12/2022	3.18	5/12/2027	103.39941	102.342912	101.3079996	100.2940185	99.30033784	98.32635198	97.37147915	96.43516031	95.51685806
220518A00009	5/18/2022	3.38	5/18/2028	106.90254	104.8088836	102.7672177	100.7759035	98.83337029	96.93810777	95.08866358	93.28364054	91.52169409
220519A00010	5/19/2022	3.15	11/19/2026	101.86111	101.2941298	100.7334676	100.179017	99.63067499	99.08834093	98.55191627	98.02130466	97.4964118
220520A00006	5/20/2022	3.02	5/20/2027	103.53156	102.3948089	101.2834032	100.196497	99.13328285	98.09298837	97.07487453	96.07823387	95.10238878
220526A00010	5/26/2022	3	5/26/2026	100.23016	100.1579001	100.0857536	100.0137198	99.94179849	99.86998938	99.7982922	99.72670672	99.65523266
220526A00011	5/26/2022	3.29	5/24/2029	109.95778	106.7977219	103.7461623	100.7987507	97.95133786	95.19996585	92.54085737	89.97040657	87.48517007
220527A00014	5/27/2022	2.99	5/27/2026	100.23813	100.1630915	100.0881735	100.0133746	99.9386946	99.86413314	99.78968996	99.7153648	99.64115737
220527A00015	5/27/2022	3.03	5/27/2027	103.36722	102.2693048	101.1946911	100.1426431	99.11245518	98.10345107	97.11498206	96.14642571	95.19718452
220601A00038	6/3/2022	3.69	5/28/2032	120.70562	114.2428684	108.1765833	102.4802383	97.12922193	92.10068759	87.37341834	82.92770213	78.74521742
220602A00039	6/2/2022	3.11	6/2/2027	103.57225	102.4555095	101.3628349	100.2934498	99.24661535	98.22162351	97.21779575	96.23448135	95.27105603
220615A00010	6/15/2022	3.86	6/15/2027	104.47238	103.3151729	102.1836553	101.076976	99.99432268	98.93491804	97.89801813	96.88291041	95.88891219
220622A00006	6/22/2022	3.58	6/22/2027	104.22089	103.0457536	101.8971484	100.774179	99.67599339	98.60177704	97.55075066	96.52216849	95.51531646
220623A00005	6/23/2022	3.45	6/23/2027	104.07925	102.9022143	101.7518158	100.6271576	99.52738203	98.45166942	97.3992357	96.36933053	95.36123556
220624A00003	6/24/2022	3.5	6/24/2027	104.14703	102.9667951	101.8133285	100.6857264	99.58312534	98.50469995	97.44966082	96.41725261	95.40675222
220624A00016	6/24/2022	3.34	6/24/2026	100.54693	100.3938127	100.2411719	100.0890045	99.93730824	99.78608094	99.63532041	99.48502446	99.33519093
220624A00033	6/24/2022	3.5	6/24/2027	104.14703	102.9667951	101.8133285	100.6857264	99.58312534	98.50469995	97.44966082	96.41725261	95.40675222
220627A00055	6/27/2022	3.55	6/26/2026	100.59067	100.4320404	100.2739137	100.1162902	99.95916751	99.80254335	99.64641528	99.49078096	99.33563803
220628A00034	6/28/2022	3.61	6/28/2027	104.31486	103.1224533	101.9573314	100.8185634	99.70526188	98.61657903	97.55170426	96.50986224	95.490311
220628A00044	8/15/2022	3.6	8/13/2027	104.7328	103.4176771	102.1309987	100.8718405	99.63932018	98.43259307	97.25085045	96.09331751	94.95925162
220628A00052	8/15/2022	3.6	8/13/2027	104.7328	103.4176771	102.1309987	100.8718405	99.63932018	98.43259307	97.25085045	96.09331751	94.95925162
220628A00053	8/15/2022	3.6	8/13/2027	104.7328	103.4176771	102.1309987	100.8718405	99.63932018	98.43259307	97.25085045	96.09331751	94.95925162
220629A00003	6/29/2022	3.59	6/29/2027	104.30108	103.105983	101.9382886	100.7970654	99.6814201	98.59049947	97.52348767	96.4796045	95.45810334
220629A00034	6/29/2022	3.51	6/29/2027	102.28123	101.6440072	101.0169531	100.3997955	99.79227377	99.1941373	98.60514444	98.02506232	97.45366642
220630A00036	6/30/2022	3.42	6/30/2027	104.10958	102.912912	101.7437535	100.6011657	99.48425029	98.39214864	97.32404027	96.27914045	95.25669839
220630A00045	6/30/2022	3.39	6/30/2026	100.60497	100.435202	100.2660082	100.0973817	99.92931952	99.76181903	99.59487739	99.42849182	99.26265957
220701A00050	7/1/2022	3.26	7/1/2027	103.92869	102.7303982	101.559726	100.415729	99.29750273	98.20418326	97.13494497	96.08899833	95.06558803
220706A00032	7/6/2022	3.15	7/6/2027	103.91202	102.6989003	101.5140963	100.3566207	99.22553549	98.11994521	97.03899455	95.9818661	94.94777824
220715A00001	7/15/2022	3.44	7/15/2027	104.26928	103.0300917	101.8203794	100.6391009	99.48526121	98.35791166	97.25614672	96.17910175	95.12595075
220715A00027	7/15/2022	3.44	7/15/2027	104.26928	103.0300917	101.8203794	100.6391009	99.48526121	98.35791166	97.25614672	96.17910175	95.12595075
220715A00047	7/15/2022	3.44	7/15/2027	104.26928	103.0300917	101.8203794	100.6391009	99.48526121	98.35791166	97.25614672	96.17910175	95.12595075

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220719A00004	7/19/2022	3.46	7/19/2027	104.33029	103.0796213	101.8589648	100.6672465	99.50344507	98.3665872	97.25574415	96.17002955	95.10859689
220722A00044	9/1/2022	3.23	9/1/2027	104.39839	103.0433836	101.7124521	100.4050129	99.12049716	97.85835387	96.61804933	95.39906639	94.2009038
220722A00051	9/15/2022	3.23	9/15/2027	104.5102	103.1154099	101.7460407	100.4014595	99.08105088	97.78421939	96.51038862	95.25900056	94.02951482
220727A00004	7/27/2022	3.23	7/27/2027	104.11366	102.8422666	101.6019181	100.3914864	99.20989813	98.05613093	96.92921014	95.8282062	94.75223204
220727A00027	7/27/2022	3.23	7/27/2027	104.11366	102.8422666	101.6019181	100.3914864	99.20989813	98.05613093	96.92921014	95.8282062	94.75223204
220727A00035	10/24/2022	3.33	10/24/2029	111.39305	107.7873345	104.3194586	100.9834038	97.7734484	94.68415077	91.71033419	88.84707233	86.08967575
220729A00035	8/3/2022	3.14	8/3/2027	104.05602	102.7674044	101.509614	100.2815499	99.0821621	97.91045004	96.76545919	95.64627862	94.55203852
220729A00043	7/29/2022	3.04	7/29/2027	103.89033	102.6148937	101.3707418	100.1567336	98.97178327	97.8148565	96.68496755	95.58117643	94.50258629
220729A00045	7/29/2022	3.03	7/29/2027	103.87768	102.6023313	101.3582624	100.144336	98.95946604	97.80261831	96.67280711	95.56909249	94.49057762
220729A00047	7/29/2022	3.06	1/29/2027	102.40248	101.6365373	100.8820362	100.1387261	99.4063591	98.68469495	97.97350023	97.27254831	96.58161903
220801A00066	8/1/2022	2.93	7/30/2027	103.97382	102.6533907	101.3566561	100.0830241	98.83192222	97.60279669	96.39511149	95.20834782	94.04200331
220802A00009	8/2/2022	3	8/2/2027	103.86982	102.5846435	101.3305174	100.1063256	98.91100218	97.74353147	96.60294496	95.48831868	94.39877067
220804A00023	8/4/2022	3.19	8/4/2027	104.12768	102.8363893	101.5756914	100.344499	99.14177868	97.96654514	96.81785826	95.69482054	94.59657468
220808A00025	8/8/2022	3.25	8/6/2027	104.22034	102.9240526	101.6578725	100.4207508	99.21168757	98.02972861	96.87396281	95.74351975	94.63756743
220812A00001	8/12/2022	3.17	8/12/2027	104.24216	102.9313655	101.6492471	100.3948648	99.16731873	97.96574785	96.7893282	95.63727078	94.50881965
220812A00002	8/12/2022	3.17	8/12/2027	104.24216	102.9313655	101.6492471	100.3948648	99.16731873	97.96574785	96.7893282	95.63727078	94.50881965
220816A00009	8/16/2022	3.33	8/16/2027	104.40441	103.0849772	101.7932131	100.5282484	99.28925347	98.075433	96.88602446	95.72029629	94.57754636
220817A00036	10/14/2022	3.41	10/15/2027	105.01328	103.5324493	102.0800784	100.6554148	99.25773425	97.88633745	96.54054873	95.21971512	93.9232054
220817A00037	10/14/2022	3.41	10/15/2027	105.01328	103.5324493	102.0800784	100.6554148	99.25773425	97.88633745	96.54054873	95.21971512	93.9232054
220817A00038	10/14/2022	3.41	10/15/2027	105.01328	103.5324493	102.0800784	100.6554148	99.25773425	97.88633745	96.54054873	95.21971512	93.9232054
220817A00047	8/17/2022	3.29	8/17/2027	104.43949	103.1163749	101.8207274	100.5516996	99.30847734	98.0902797	96.89635756	95.72599192	94.57849235
220819A00034	8/19/2022	3.73	8/19/2032	121.53488	114.8178206	108.5257025	102.629286	97.1014959	91.91724808	87.05329316	82.48807307	78.20158955
220823A00002	8/23/2022	3.38	8/23/2027	104.60861	103.271147	101.9596966	100.6735229	99.41191585	98.17419234	96.95969472	95.76778964	94.59786691
220823A00009	8/23/2022	3.52	8/23/2027	104.71466	103.3777275	102.0667742	100.7810679	99.51989983	98.28258811	97.06847621	95.87693186	94.70734586
220823A00015	8/23/2022	3.78	8/30/2032	121.93046	115.1708689	108.8404799	102.9096935	97.3511006	92.13930824	87.25078107	82.66369685	78.35781355
220825A00006	8/25/2022	3.56	8/25/2027	104.78553	103.4437006	102.127377	100.8358558	99.56846343	98.32455074	97.10349196	95.90468361	94.72754352
220829A00057	8/29/2022	3.67	8/31/2026	101.31559	100.9723663	100.6314675	100.2928654	99.95653685	99.62245915	99.29060976	98.96096649	98.63350743
220830A00055	8/30/2022	3.7	8/30/2029	112.17354	108.7070749	105.3676364	102.1499054	99.04881211	96.05952489	93.17743758	90.39815782	87.71749596
220830A00093	11/16/2022	3.69	11/16/2029	112.88759	109.1910456	105.6376298	102.2210069	98.93515441	95.77434956	92.73315282	89.80639205	86.98914777
220901A00033	9/1/2022	3.72	9/1/2027	105.06438	103.7046174	102.3690139	101.0569822	99.76795119	98.50136789	97.25669652	96.03341796	94.83102907
220901A00035	9/1/2022	3.82	9/1/2028	108.90174	106.4941224	104.1523598	101.8742892	99.65783276	97.50099221	95.40184558	93.35854373	91.36930719
220906A00046	9/6/2022	3.79	9/7/2027	105.21678	103.8391679	102.4863048	101.1575788	99.85239876	98.57019233	97.31040534	96.072501	94.85595927
220907A00010	9/7/2022	3.9	9/9/2032	123.19363	116.3507133	109.9438635	103.9428893	98.31984185	93.04883597	88.10588794	83.46876664	79.11685712

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
220907A00023	9/7/2022	3.76	9/8/2026	101.43369	101.067988	100.7049338	100.3444957	99.98664562	99.6313555	99.27859788	98.92834565	98.58057211
220912A00050	11/15/2022	3.76	11/15/2027	105.8309	104.2583472	102.717292	101.2068632	99.72621858	98.27454659	96.85106461	95.45501787	94.08567812
220912A00051	11/15/2022	3.76	11/15/2027	105.8309	104.2583472	102.717292	101.2068632	99.72621858	98.27454659	96.85106461	95.45501787	94.08567812
220913A00017	9/13/2022	3.98	9/14/2026	101.58296	101.200234	100.820405	100.4434392	100.069304	99.69796747	99.32939823	98.96356526	98.60043805
220913A00018	9/13/2022	3.91	9/13/2027	105.44113	104.0451133	102.6744503	101.3285042	100.0066633	98.70833542	97.43294743	96.17994441	94.9487889
220916A00018	9/16/2022	4.07	9/16/2027	105.71778	104.2984264	102.9062413	101.5405041	100.2005208	98.88562096	97.59515729	96.32850429	95.08505748
220916A00021	9/16/2022	4.17	9/16/2027	103.21042	102.4459356	101.6946533	100.9562072	100.2302459	99.51643156	98.81443892	98.1239549	97.44467791
220916A00042	9/16/2022	4.07	9/16/2030	117.72154	113.0652054	108.6238109	104.3862977	100.3422304	96.48176103	92.79559313	89.27494812	85.91153377
220916A00043	9/16/2022	4.07	9/16/2031	121.26569	115.4879239	110.0283173	104.8676315	99.98788865	95.372283	91.00509815	86.8716313	82.95812287
220916A00045	9/16/2022	4.1	9/16/2032	124.53808	117.632981	111.1684023	105.1137898	99.44086011	94.12342291	89.13721594	84.45975383	80.07018939
220919A00033	9/19/2022	4	9/17/2027	105.60694	104.1985207	102.8158534	101.458295	100.1252197	98.81602197	97.53011574	96.26693379	95.02592687
220919A00036	9/19/2022	4.11	9/19/2029	113.58299	110.0798558	106.7082672	103.4625376	100.3372615	97.32729613	94.42774705	91.6339548	88.94148223
220920A00025	9/20/2022	4.23	9/18/2026	101.72705	101.3328467	100.9417149	100.5536145	100.1685102	99.78636731	99.40715162	99.03082946	98.65736768
220920A00026	9/20/2022	4.1	9/20/2027	105.77851	104.3604114	102.9683862	101.6017716	100.2599309	98.94224826	97.64812781	96.3769928	95.12828494
220921A00014	9/21/2022	4.08	9/21/2027	105.76061	104.339846	102.9452445	101.5761451	100.2319079	98.91191372	97.61556361	96.34227791	95.09149551
220921A00069	9/21/2022	3.98	9/21/2027	105.70523	104.2834935	102.8879584	101.5179629	100.1728654	98.85204567	97.55490344	96.2808579	95.02934681
220921A00074	9/21/2022	3.98	9/21/2027	105.70523	104.2834935	102.8879584	101.5179629	100.1728654	98.85204567	97.55490344	96.2808579	95.02934681
220929A00041	9/29/2022	4.38	9/29/2027	106.27444	104.8273739	103.4073274	102.0136039	100.6455339	99.30246994	97.98378618	96.68887708	95.41715676
220929A00043	9/29/2022	4.44	9/28/2029	115.01686	111.4195577	107.9565307	104.6220396	101.4106254	98.31709054	95.33648519	92.4640937	89.69542243
220929A00063	9/29/2022	4.38	9/29/2027	106.27444	104.8273739	103.4073274	102.0136039	100.6455339	99.30246994	97.98378618	96.68887708	95.41715676
221005A00041	10/5/2022	4.3	10/5/2027	106.22419	104.761147	103.3257105	101.9171669	100.534825	99.17801688	97.84609684	96.53844054	95.25444405
221006A00012	10/6/2022	4.37	10/6/2027	106.33689	104.8702726	103.4313824	102.0194963	100.6339191	99.27397879	97.9390261	96.62843305	95.34159231
221011A00036	10/11/2022	4.59	10/6/2026	102.10519	101.6598941	101.2184899	100.7809277	100.3471573	99.91712956	99.49079603	99.06810915	98.64902217
221014A00026	10/14/2022	4.63	10/14/2027	106.80886	105.3168869	103.8535144	102.4179867	101.0095768	99.62758294	98.27132684	96.94015307	95.63342803
221014A00027	10/14/2022	4.63	10/14/2027	106.80886	105.3168869	103.8535144	102.4179867	101.0095768	99.62758294	98.27132684	96.94015307	95.63342803
221014A00032	10/14/2022	4.67	10/14/2027	106.89726	105.3934215	103.9194512	102.4745262	101.0578494	99.66865219	98.30619385	96.96975978	95.65866059
221014A00043	10/14/2022	4.49	10/14/2027	106.69225	105.1996981	103.7357833	102.2997466	100.8908601	99.50842043	98.1517482	96.82018683	95.51310161
221014A00050	10/14/2022	4.49	10/14/2027	106.69225	105.1996981	103.7357833	102.2997466	100.8908601	99.50842043	98.1517482	96.82018683	95.51310161
221018A00006	10/18/2022	4.55	10/18/2027	106.73633	105.2340379	103.7607383	102.3156671	100.8980826	99.50726873	98.14253368	96.80320906	95.48864885
221018A00007	10/18/2022	4.68	10/18/2027	103.83195	103.0132375	102.2089227	101.4186067	100.6419067	99.87845481	99.12789647	98.3898904	97.66410771
221018A00048	10/18/2022	4.71	10/19/2026	102.33234	101.850193	101.3726089	100.8995199	100.4308625	99.96657446	99.50659475	99.05086337	98.59932149
221018A00049	10/18/2022	4.59	10/18/2027	106.79592	105.2931624	103.8194084	102.3738907	100.9558674	99.56462209	98.19946289	96.85972116	95.54475072
221025A00027	10/25/2022	4.57	10/25/2027	106.84659	105.3243701	103.831883	102.3683327	100.9329502	99.5249933	98.14374537	96.78851422	95.45863115

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
221027A00050	10/27/2022	4.52	10/27/2027	106.79385	105.2665899	103.7692688	102.3010769	100.8612377	99.4490016	98.06364514	96.70446955	95.37079983
221027A00056	4/25/2023	4.48	4/25/2030	117.61302	113.3729158	109.3134356	105.425897	101.7020791	98.13419873	94.71488462	91.43715357	88.2943877
221027A00060	12/1/2022	4.46	12/1/2027	107.12022	105.4920824	103.897052	102.3341839	100.8025718	99.30134336	97.82965854	96.38670788	94.97171123
221027A00061	12/15/2022	4.45	12/15/2027	107.2688	105.6012215	103.9680518	102.3682963	100.8009945	99.26522261	97.76009181	96.28474655	94.83836297
221027A00062	12/15/2022	4.45	12/15/2027	107.2688	105.6012215	103.9680518	102.3682963	100.8009945	99.26522261	97.76009181	96.28474655	94.83836297
221027A00063	12/15/2022	4.45	12/15/2027	107.2688	105.6012215	103.9680518	102.3682963	100.8009945	99.26522261	97.76009181	96.28474655	94.83836297
221031A00035	10/31/2022	4.67	10/30/2026	102.45933	101.9461089	101.4380318	100.9350217	100.437003	99.94390162	99.45564503	98.97216205	98.49338292
221031A00036	10/31/2022	4.59	10/29/2027	106.92297	105.3892413	103.8856752	102.4114558	100.9657982	99.54794517	98.15716549	96.79275324	95.45402648
221031A00042	10/31/2022	4.73	10/30/2026	102.48985	101.9765368	101.4683703	100.9652713	100.4671644	99.97397546	99.48563193	99.00206264	98.52319779
221102A00026	11/2/2022	4.66	11/2/2027	107.07804	105.5320063	104.0165376	102.5307992	101.0739908	99.64534018	98.24410228	96.86955779	95.52101206
221107A00029	11/7/2022	4.83	11/9/2026	102.67503	102.1333184	101.5973368	101.0669973	100.5422111	100.022891	99.50895162	99.00030957	98.49688302
221107A00030	11/7/2022	4.7	11/5/2027	107.17736	105.6220772	104.0976257	102.603163	101.1378778	99.70098748	98.29173707	96.90939781	95.55326611
221107A00056	11/7/2022	4.73	11/8/2027	107.26187	105.6974427	104.1641166	102.6610374	101.1873828	99.74235961	98.32520296	96.93517468	95.57156221
221108A00033	11/8/2022	4.7	11/8/2027	107.21543	105.6513771	104.1184178	102.615699	101.1423985	99.69772337	98.28090886	96.89121695	95.52793525
221110A00025	11/10/2022	4.39	11/10/2026	102.45118	101.9073679	101.3693458	100.837019	100.3102972	99.78909192	99.27331673	98.76288687	98.25771933
221110A00026	11/10/2022	4.29	11/10/2027	106.60387	105.039102	103.505516	102.0022506	100.5284787	99.08340279	97.66625388	96.27628989	94.9127946
221110A00038	11/10/2022	4.34	11/10/2027	106.68154	105.1161514	103.5819499	102.0780797	100.6037135	99.1580536	97.7403306	96.34980219	94.9857519
221110A00039	11/10/2022	4.34	11/10/2027	106.68154	105.1161514	103.5819499	102.0780797	100.6037135	99.1580536	97.7403306	96.34980219	94.9857519
221110A00064	1/17/2023	4.25	1/14/2028	107.27569	105.5261995	103.8140495	102.1381116	100.497301	98.89057661	97.31693853	95.77542629	94.26511671
221110A00065	1/17/2023	4.25	1/14/2028	107.27569	105.5261995	103.8140495	102.1381116	100.497301	98.89057661	97.31693853	95.77542629	94.26511671
221110A00076	11/10/2022	4.45	11/10/2026	102.48353	101.9396208	101.4014995	100.8690741	100.3422545	99.82095225	99.30508076	98.79455529	98.28929287
221110A00086	11/10/2022	4.34	11/8/2027	106.65816	105.0985896	103.570032	102.0716378	100.6025869	99.16208844	97.74937958	96.36372421	95.00441174
221114A00002	11/14/2022	4.37	11/15/2027	106.78702	105.206684	103.6579901	102.1400568	100.6520383	99.19311947	97.76251429	96.35946471	94.98323932
221117A00025	11/17/2022	4.28	11/17/2027	106.669	105.0839903	103.5307791	102.0084788	100.5162368	99.05323141	97.6186706	96.21179051	94.83185425
221118A00023	11/18/2022	4.12	11/18/2027	106.52462	104.9363612	103.3800212	101.8547109	100.3595723	98.89377887	97.45653395	96.04706923	94.66464365
221118A00046	11/18/2022	4.4	11/18/2026	102.5542	101.9877789	101.4276308	100.8736522	100.3257414	99.78379867	99.24772681	98.71743054	98.19281667
221121A00047	11/21/2022	4.89	11/21/2033	133.57175	125.1525609	117.3506809	110.1170597	103.4068032	97.17880143	91.39539034	86.02204614	81.0271076
221121A00052	11/21/2022	4.35	11/22/2027	106.83769	105.2372054	103.6689789	102.1321071	100.6257185	99.14897346	97.70106285	96.28120668	94.88865273
221121A00064	11/21/2022	4.34	11/22/2027	106.82182	105.2214677	103.6533694	102.1166237	100.6103588	99.13373542	97.68594438	96.26620574	94.87376735
221122A00029	11/22/2022	4.31	11/22/2027	106.77422	105.1742546	103.606541	102.0701732	100.5642798	99.08802131	97.64058896	96.22120294	94.82911123
221122A00040	11/22/2022	4.31	11/22/2027	106.77422	105.1742546	103.606541	102.0701732	100.5642798	99.08802131	97.64058896	96.22120294	94.82911123
221123A00016	11/23/2022	4.58	11/23/2029	115.94748	112.2226238	108.64301	105.2021045	101.8937077	98.71193553	95.65120138	92.70619896	89.87188657
221123A00034	11/23/2022	4.43	11/23/2026	102.63248	102.0518607	101.4778241	100.9102587	100.3490554	99.79410742	99.2453105	98.70256259	98.1657639

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
221123A00039	11/23/2022	4.29	11/23/2027	106.75403	105.1514147	103.5811326	102.0422778	100.5339752	99.05538224	97.60568667	96.18410569	94.78988438
221128A00034	11/28/2022	4.27	11/26/2027	106.75673	105.1456239	103.5671241	102.0203063	100.5042843	99.01820484	97.56124586	96.13261508	94.73154862
221129A00035	11/29/2022	4.09	11/29/2027	106.60023	104.980305	103.3932869	101.8382412	100.3142689	98.8205048	97.35611539	95.92029756	94.5122772
221129A00056	11/29/2022	4.31	11/29/2027	106.85546	105.2350727	103.6475692	102.0920174	100.5675198	99.07321213	97.60826201	96.17186731	94.76325483
221130A00032	11/30/2022	4.37	11/30/2027	106.96361	105.339507	103.7483938	102.1893333	100.6614238	99.1637971	97.69561702	96.2560779	94.84440321
221130A00033	11/30/2022	4.37	11/30/2027	106.96361	105.339507	103.7483938	102.1893333	100.6614238	99.1637971	97.69561702	96.2560779	94.84440321
221130A00069	11/30/2022	4.15	11/30/2027	106.70799	105.0843555	103.4937294	101.9351766	100.4077942	98.91071282	97.44309534	96.00413506	94.59305449
221130A00075	11/30/2022	4.15	11/30/2027	106.70799	105.0843555	103.4937294	101.9351766	100.4077942	98.91071282	97.44309534	96.00413506	94.59305449
221130A00076	11/30/2022	4.15	11/30/2027	106.70799	105.0843555	103.4937294	101.9351766	100.4077942	98.91071282	97.44309534	96.00413506	94.59305449
221130A00081	11/30/2022	4.15	11/30/2027	106.70799	105.0843555	103.4937294	101.9351766	100.4077942	98.91071282	97.44309534	96.00413506	94.59305449
221130A00085	11/30/2022	4.19	11/30/2027	106.67398	105.0522958	103.4635547	101.9068242	100.3812038	98.88582639	97.41985693	95.98249077	94.57295235
221130A00110	11/30/2022	4.15	11/30/2027	106.60962	104.9884711	103.4002571	101.8440444	100.3189327	98.82405512	97.35857691	95.92169363	94.51262994
221201A00011	12/1/2022	3.95	12/1/2027	106.39657	104.7728149	103.1821116	101.6235232	100.0961441	98.59910261	97.1315593	95.69270541	94.28176146
221201A00043	12/1/2022	4.37	12/3/2029	108.76122	106.6721614	104.6463375	102.6813173	100.7747782	98.9245036	97.12837788	95.3843805	93.69058129
221201A00068	12/1/2022	4.21	12/1/2027	106.68934	105.0694146	103.4832503	101.9298429	100.4082318	98.91749453	97.45674402	96.02512749	94.62182445
221202A00018	12/2/2022	4.16	12/2/2027	106.64763	105.020727	103.4269441	101.8653415	100.3350111	98.83507874	97.36470273	95.92307209	94.50940524
221202A00025	12/2/2022	4.06	12/2/2026	102.5565	101.9506034	101.3518718	100.7601772	100.1753961	99.59740757	99.02609384	98.46133963	97.90303236
221205A00024	12/5/2022	4.13	12/3/2027	106.61007	104.9807614	103.3846587	101.8208177	100.2883266	98.786308	97.3139168	95.87033896	94.45479
221205A00088	12/5/2022	4.13	12/3/2027	106.61007	104.9807614	103.3846587	101.8208177	100.2883266	98.786308	97.3139168	95.87033896	94.45479
221206A00025	12/6/2022	4.27	12/4/2026	102.66997	102.0585818	101.4544846	100.8575482	100.2676456	99.68465289	99.10844904	98.53891583	97.97593778
221206A00036	12/6/2022	4.13	12/6/2027	106.6427	105.0049584	103.4007003	101.8289703	100.288845	98.77943609	97.29988809	95.84937716	94.42710952
221206A00039	12/6/2022	4.29	12/7/2026	102.71724	102.0973503	101.4849547	100.8799199	100.2821134	99.69140602	99.10767173	98.53078731	97.96063251
221207A00010	12/7/2022	4.08	12/7/2027	106.57216	104.9322858	103.3259826	101.7522845	100.2102648	98.69903157	97.21772636	95.76552229	94.34162276
221207A00012	12/7/2022	4.21	12/7/2026	102.6681	102.0483786	101.436152	100.8312847	100.2336443	99.64310172	99.05953076	98.48280832	97.91281414
221207A00017	12/7/2022	3.86	12/7/2027	106.31323	104.6738471	103.0680559	101.4948907	99.95342348	98.44276127	96.96204441	95.51044505	94.0871656
221207A00032	12/7/2022	4.52	12/7/2032	127.19421	120.0033081	113.2829268	106.9995402	101.1221856	95.62225711	90.47331433	85.65090725	81.13241633
221208A00001	12/8/2022	4.6	12/8/2033	131.52764	123.1359834	115.3643752	108.1632326	101.4871992	95.29476428	89.54791745	84.21183576	79.25460055
221208A00005	12/8/2022	4.88	12/8/2037	146.61988	133.4370674	121.6469659	111.0918686	101.6328228	93.14730674	85.52720448	78.6770397	72.5124343
221208A00006	12/8/2022	4.88	12/8/2037	146.61988	133.4370674	121.6469659	111.0918686	101.6328228	93.14730674	85.52720448	78.6770397	72.5124343
221208A00020	12/8/2022	4.11	12/8/2027	106.63183	104.9887371	103.3793109	101.8025862	100.2576322	98.74355317	97.25948698	95.80460329	94.37810221
221208A00050	12/8/2022	4.11	12/8/2027	106.63183	104.9887371	103.3793109	101.8025862	100.2576322	98.74355317	97.25948698	95.80460329	94.37810221
221208A00052	2/15/2023	4.01	2/15/2028	107.20958	105.3707081	103.5726284	101.8141366	100.0940725	98.41131959	96.76480334	95.15348898	93.57637978
221208A00054	2/1/2023	4.02	2/1/2028	107.06885	105.2719922	103.5143153	101.7946131	100.1117255	98.46454028	96.85199	95.27305026	93.72673723

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
221208A00061	12/8/2022	4.11	12/8/2027	106.63183	104.9887371	103.3793109	101.8025862	100.2576322	98.74355317	97.25948698	95.80460329	94.37810221
221208A00062	12/8/2022	4.24	12/8/2028	111.02167	108.3135705	105.6864774	103.1374637	100.6637249	98.26257686	95.93144943	93.66788097	91.46951291
221208A00110	12/8/2022	4.07	12/8/2027	106.56658	104.9240383	103.315153	101.7389596	100.1945276	98.68096146	97.19739927	95.74301097	94.31699687
221209A00035	12/9/2022	3.91	12/9/2027	106.41557	104.7698783	103.1579788	101.5788962	100.0316941	98.51547203	97.02936299	95.57253225	94.1441757
221209A00037	12/9/2022	3.91	12/9/2027	106.41557	104.7698783	103.1579788	101.5788962	100.0316941	98.51547203	97.02936299	95.57253225	94.1441757
221209A00070	12/9/2022	4.42	12/9/2037	125.46225	118.4431684	111.9737496	106.0039152	100.4886187	95.38730003	90.66340405	86.2839541	82.21917392
221212A00011	12/12/2022	3.89	12/10/2027	106.39325	104.7450294	103.1306854	101.5492428	99.99976188	98.48133829	96.99310178	95.53421441	94.10386908
221212A00041	12/12/2022	4.15	12/10/2027	106.71895	105.0696708	103.4542618	101.871743	100.3211753	98.8016556	97.31231441	95.85231461	94.42084982
221212A00071	12/12/2022	4.15	12/13/2027	106.75174	105.0940183	103.470444	101.8800294	100.3218238	98.7949129	97.29841672	95.83148822	94.3933116
221212A00117	6/12/2023	4.11	6/12/2026	100.51248	100.3928374	100.2734903	100.1544415	100.0356898	99.91723404	99.79907309	99.68120579	99.56363102
221212A00131	12/12/2023	3.77	12/11/2026	102.43891	101.8088687	101.1865931	100.5719367	99.96475988	99.36492648	98.7723036	98.18676156	97.60817374
221213A00004	12/13/2022	3.99	12/13/2027	106.48852	104.8330387	103.2116636	101.6234088	100.067325	98.54249869	97.04805104	95.58313591	94.14693844
221213A00017	12/13/2022	4.1	12/14/2026	102.67886	102.0396274	101.408376	100.7849528	100.1692125	99.56101334	98.96021719	98.36668915	97.78029763
221213A00047	12/13/2022	3.8	12/13/2027	106.27626	104.6208651	102.9996089	101.4115016	99.85559221	98.33096602	96.83674279	95.37207518	93.93614717
221213A00051	12/13/2022	4.02	12/13/2027	106.53788	104.8819724	103.2601849	101.6715252	100.1150435	98.58982636	97.0949946	95.62970197	94.19313341
221213A00056	12/13/2022	4.02	5/13/2026	100.15645	100.120261	100.0841173	100.0480173	100.011961	99.9759482	99.93997885	99.90405286	99.86817015
221213A00061	12/13/2022	4.15	12/11/2026	102.67656	102.0456828	101.4225776	100.8070988	100.1991067	99.59846503	99.00504078	98.41870418	97.83932853
221214A00031	12/14/2022	3.97	12/14/2027	106.46605	104.8080394	103.1842247	101.5936155	100.0352585	98.50823674	97.01166793	95.54470279	94.1065234
221214A00077	12/14/2022	3.84	12/14/2027	106.35234	104.6935754	103.0690534	101.4777802	99.91880073	98.39119617	96.89408258	95.42660904	93.98795613
221214A00079	12/14/2022	3.84	12/14/2027	106.35234	104.6935754	103.0690534	101.4777802	99.91880073	98.39119617	96.89408258	95.42660904	93.98795613
221215A00115	12/15/2022	4	12/15/2027	106.526	104.8647595	103.237815	101.6441736	100.0828777	98.55300659	97.05367423	95.58402781	94.14324611
221216A00013	12/16/2022	4.04	12/16/2027	106.60266	104.9380358	103.3078198	101.711007	100.1466358	98.61378131	97.11155388	95.63909707	94.19558624
221216A00023	12/16/2022	4.04	12/13/2027	106.57078	104.9145948	103.2925325	101.7036028	100.1468559	98.62137813	97.12629031	95.66074601	94.22393005
221219A00043	12/19/2022	4.07	12/17/2027	106.66297	104.9951095	103.3617572	101.7619061	100.1945903	98.65888125	97.15388533	95.67874266	94.23262527
221221A00053	12/21/2022	4.15	12/21/2027	106.83919	105.158917	103.5135534	101.9020746	100.3234986	98.77688097	97.26131364	95.77592273	94.31986708
221222A00026	12/22/2022	4.22	12/15/2026	102.76643	102.1241032	101.4898286	100.8634524	100.2448274	99.63381011	99.03026051	98.43404198	97.84502124
221222A00027	12/22/2022	4.16	12/15/2027	106.79011	105.1266126	103.4974548	101.9016394	100.3382081	98.80623895	97.30484492	95.83317225	94.39039877
221222A00053	12/22/2022	4.18	12/22/2027	106.99577	105.2865494	103.6139441	101.9768369	100.3741557	98.80487224	97.26799937	95.76258917	94.28773098
221223A00025	12/23/2022	4.25	12/23/2027	107.02834	105.3409767	103.6887426	102.0706016	100.4855629	98.93267407	97.41101907	95.91971669	94.45791877
221228A00044	12/28/2022	4.31	12/28/2027	107.18558	105.4831984	103.8164424	102.1842551	100.5856253	99.01958103	97.48518798	95.98154752	94.50779502
221228A00075	12/28/2022	4.09	12/28/2027	106.91763	105.215801	103.54962	101.9180297	100.3200176	98.75461036	97.22087249	95.71790424	94.24483991
221228A00129	12/28/2022	4.11	12/28/2027	107.12075	105.3743785	103.6657756	101.9937815	100.3572802	98.75520184	97.18651981	95.65024874	94.14544235
221229A00075	12/29/2022	5.2	12/29/2037	150.44636	136.9927451	124.9604895	114.1883611	104.5343503	95.87328165	88.09473212	81.10121769	74.80661076

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
221230A00088	12/30/2022	4.42	12/30/2026	103.07491	102.3896436	101.7135001	101.0462967	100.3878569	99.73800864	99.09658454	98.46342147	97.83836048
221230A00111	12/30/2022	4.42	12/30/2026	103.07491	102.3896436	101.7135001	101.0462967	100.3878569	99.73800864	99.09658454	98.46342147	97.83836048
230103A00066	1/3/2023	4.19	7/15/2026	100.93505	100.7230698	100.5119953	100.3018212	100.0925417	99.88415115	99.67664368	99.47001362	99.26425534
230104A00004	1/4/2023	4.19	1/4/2028	107.06068	105.3403358	103.6562774	102.0074252	100.3927392	98.81122047	97.26190895	95.74388188	94.25625172
230104A00044	1/4/2023	4.2	1/4/2028	107.07775	105.3572473	103.6730415	102.0240445	100.4092164	98.82755791	97.27810917	95.75994725	94.27218456
230105A00020	1/5/2023	4.32	1/5/2028	107.29395	105.5688193	103.8801218	102.2267636	100.6076992	99.0219246	97.46847506	95.9464232	94.45487716
230106A00017	1/6/2023	4.23	1/6/2028	107.15135	105.4247569	103.734672	102.0800008	100.4596941	98.8727444	97.31818357	95.79508117	94.30254242
230106A00019	1/6/2023	4.23	1/6/2028	107.15135	105.4247569	103.734672	102.0800008	100.4596941	98.8727444	97.31818357	95.79508117	94.30254242
230109A00042	1/9/2023	4.07	12/20/2027	106.69509	105.0187887	103.3772747	101.7695342	100.1945897	98.65150117	97.13936447	95.65730963	94.20449916
230110A00006	1/10/2023	4.06	1/10/2028	106.9033	105.1680197	103.4696107	101.8069644	100.1790152	98.58474009	97.02315654	95.4933203	93.99432361
230110A00035	1/10/2023	4.08	1/10/2028	107.10341	105.3236032	103.5828639	101.8800226	100.2139538	98.58357611	96.98784964	95.42577426	93.89638762
230110A00040	1/13/2023	4.07	12/13/2027	106.62013	104.9635285	103.3410538	101.7517191	100.1945744	98.6687058	97.17323388	95.70731207	94.27012502
230110A00043	1/10/2023	3.84	1/10/2028	106.62942	104.8947384	103.1969502	101.5349473	99.90766275	98.31407217	96.75319169	95.22407591	93.72581595
230110A00047	1/10/2023	3.84	1/10/2028	106.62942	104.8947384	103.1969502	101.5349473	99.90766275	98.31407217	96.75319169	95.22407591	93.72581595
230110A00055	1/10/2023	4.06	1/10/2028	106.9033	105.1680197	103.4696107	101.8069644	100.1790152	98.58474009	97.02315654	95.4933203	93.99432361
230111A00004	1/11/2023	3.83	1/11/2028	106.62246	104.8851115	103.184765	101.5203002	99.89064566	98.29477299	96.7316944	95.2004608	93.70015985
230111A00019	1/11/2023	3.83	1/11/2028	106.62246	104.8851115	103.184765	101.5203002	99.89064566	98.29477299	96.7316944	95.2004608	93.70015985
230112A00004	1/12/2023	4	1/12/2028	106.82107	105.0810808	103.3781534	101.7111704	100.0790579	98.48078485	96.91536126	95.38183579	93.87929403
230112A00014	1/12/2023	4.09	1/12/2027	102.99661	102.2754958	101.5644964	100.8634035	100.1720108	99.49011739	98.81752832	98.15405368	97.49950877
230112A00042	1/12/2023	4.09	1/12/2027	102.99661	102.2754958	101.5644964	100.8634035	100.1720108	99.49011739	98.81752832	98.15405368	97.49950877
230112A00044	1/12/2023	4	1/12/2028	106.82107	105.0810808	103.3781534	101.7111704	100.0790579	98.48078485	96.91536126	95.38183579	93.87929403
230112A00062	3/15/2023	3.83	3/15/2028	107.18438	105.264235	103.3882692	101.5552078	99.76381678	98.01290558	96.30132538	94.62796726	92.99176056
230112A00063	3/15/2023	3.83	3/15/2028	107.18438	105.264235	103.3882692	101.5552078	99.76381678	98.01290558	96.30132538	94.62796726	92.99176056
230112A00065	1/12/2023	4.09	1/12/2027	102.99661	102.2754958	101.5644964	100.8634035	100.1720108	99.49011739	98.81752832	98.15405368	97.49950877
230112A00066	1/12/2023	4	1/12/2028	106.82107	105.0810808	103.3781534	101.7111704	100.0790579	98.48078485	96.91536126	95.38183579	93.87929403
230113A00055	1/13/2023	3.88	1/13/2028	106.6239	104.8829513	103.1791328	101.511325	99.87845028	98.27947447	96.71340436	95.17928573	93.67620137
230113A00057	1/13/2023	3.99	1/13/2028	106.74334	105.017655	103.3297544	101.6785133	100.0628543	98.48174087	96.93417605	95.41920015	93.93588917
230117A00040	1/17/2023	4.07	1/19/2027	103.06031	102.3194506	101.5892657	100.8695243	100.1600032	99.46048538	98.77076	98.09062215	97.41987257
230117A00048	1/17/2023	3.97	1/14/2028	106.79019	105.0450379	103.3371458	101.6653885	100.0286833	98.42599114	96.85631419	95.31869386	93.81220883
230117A00087	1/17/2023	3.93	1/18/2028	106.76234	105.0065501	103.2884338	101.6068399	99.96066834	98.3488633	96.77041133	95.22433905	93.70971112
230118A00019	1/18/2023	3.59	1/18/2028	106.27531	104.5220341	102.8064178	101.1273134	99.48362007	97.87428154	96.29828389	94.75465336	93.24245426
230118A00033	1/18/2023	3.81	1/18/2028	106.55293	104.7990292	103.0827603	101.4029803	99.75858982	98.1485341	96.57180052	95.02741652	93.51444758
230118A00039	1/18/2023	3.81	1/18/2028	106.55293	104.7990292	103.0827603	101.4029803	99.75858982	98.1485341	96.57180052	95.02741652	93.51444758

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230119A00034	1/19/2023	3.82	1/19/2028	106.58045	104.8235837	103.1044571	101.4219222	99.77487499	98.1622564	96.58304973	95.03627858	93.52100477
230119A00105	1/19/2023	3.9	1/19/2027	102.93556	102.1952092	101.4655257	100.7462807	100.0372509	99.33821945	98.64897569	97.96931472	97.29903737
230119A00108	1/19/2023	3.81	1/19/2028	106.56297	104.806263	103.0872909	101.4049076	99.75800925	98.14553688	96.56647384	95.01984381	93.50470867
230119A00137	1/19/2023	3.9	1/19/2027	102.93556	102.1952092	101.4655257	100.7462807	100.0372509	99.33821945	98.64897569	97.96931472	97.29903737
230120A00022	1/20/2023	3.9	1/20/2028	106.73057	104.9696276	103.2465578	101.5602023	99.90945208	98.29324316	96.71055427	95.16040465	93.641852
230120A00029	1/20/2023	3.9	1/20/2028	106.73057	104.9696276	103.2465578	101.5602023	99.90945208	98.29324316	96.71055427	95.16040465	93.641852
230120A00079	1/20/2023	3.68	1/20/2028	106.45215	104.6918444	102.9694324	101.2837579	99.63371027	98.01822418	96.43627697	94.88688667	93.3691098
230120A00117	1/20/2023	3.9	1/20/2028	106.73057	104.9696276	103.2465578	101.5602023	99.90945208	98.29324316	96.71055427	95.16040465	93.641852
230123A00051	1/23/2023	3.75	1/21/2028	106.58481	104.8205784	103.0943727	101.4050248	99.75141889	98.13248491	96.54719567	94.99456487	93.47364498
230124A00004	1/24/2023	3.99	1/24/2028	106.93028	105.1566486	103.421333	101.7231596	100.0610007	98.43377438	96.84044265	95.28000887	93.7515157
230124A00015	1/24/2023	4.09	1/25/2027	103.14216	102.3842488	101.6374951	100.9016522	100.1764821	99.46175351	98.7572418	98.06272878	97.37800242
230124A00025	1/24/2023	4.09	1/25/2027	103.14216	102.3842488	101.6374951	100.9016522	100.1764821	99.46175351	98.7572418	98.06272878	97.37800242
230124A00045	1/24/2023	3.99	1/24/2028	106.93028	105.1566486	103.421333	101.7231596	100.0610007	98.43377438	96.84044265	95.28000887	93.7515157
230124A00046	1/24/2023	3.99	1/24/2028	106.93028	105.1566486	103.421333	101.7231596	100.0610007	98.43377438	96.84044265	95.28000887	93.7515157
230124A00055	6/15/2023	4.13	6/15/2032	123.55657	116.9571261	110.7638761	104.9495086	99.48869642	94.35793966	89.53542406	85.00089131	80.73551994
230124A00056	3/28/2023	4.19	3/28/2033	126.28731	118.7978349	111.819702	105.3150737	99.2491079	93.58970246	88.30726636	83.37451122	78.76626105
230124A00058	6/15/2023	4.21	6/15/2034	130.11441	121.2447834	113.0714455	105.535484	98.58328524	92.16602714	86.23922681	80.76233342	75.69836107
230125A00010	1/25/2023	4.01	1/25/2027	103.08212	102.3244588	101.5779515	100.8423525	100.1174239	99.40293421	98.69865905	98.00438019	97.31988565
230125A00022	1/25/2023	3.8	1/25/2027	102.96938	102.211586	101.4649611	100.7292566	100.004234	99.28966156	98.58531425	97.89097351	97.20642695
230125A00023	1/25/2023	3.69	1/25/2028	106.51907	104.7445453	103.0084499	101.3095981	99.64685672	98.01913878	96.4254014	94.86464342	93.33590326
230125A00031	1/25/2023	3.74	1/25/2028	106.52773	104.772976	103.0572105	101.3793164	99.73821441	98.13286372	96.56226031	95.02543536	93.52145379
230126A00015	1/26/2023	4.08	1/26/2027	103.14582	102.3851091	101.6356334	100.8971466	100.1694081	99.45218422	98.74524799	98.04837899	97.36136306
230127A00012	1/27/2023	4	1/27/2028	106.9796	105.1973483	103.4537322	101.7475647	100.0777043	98.44305605	96.84256974	95.27523713	93.74008993
230127A00045	1/27/2023	4.12	1/27/2027	103.18723	102.4235581	101.6712043	100.9299191	100.1994595	99.4795893	98.7700792	98.07070652	97.3812549
230127A00046	1/27/2023	4	1/27/2028	106.9796	105.1973483	103.4537322	101.7475647	100.0777043	98.44305605	96.84256974	95.27523713	93.74008993
230127A00048	1/27/2023	4	1/27/2028	106.9796	105.1973483	103.4537322	101.7475647	100.0777043	98.44305605	96.84256974	95.27523713	93.74008993
230127A00053	1/27/2023	4	1/27/2028	106.9796	105.1973483	103.4537322	101.7475647	100.0777043	98.44305605	96.84256974	95.27523713	93.74008993
230127A00056	1/27/2023	3.78	1/27/2028	106.69821	104.9166129	103.1736777	101.4682147	99.79908065	98.16517943	96.56545928	94.99891069	93.4645642
230130A00045	1/30/2023	4.02	1/28/2028	107.02563	105.2402266	103.4935778	101.7844848	100.1118014	98.47442833	96.87131098	95.30143715	93.76383479
230130A00086	1/30/2023	4.16	2/1/2027	103.27453	102.4965705	101.7303439	100.9755855	100.2320389	99.49945566	98.77759435	98.06622072	97.36510728
230130A00087	1/30/2023	4.04	1/28/2028	107.06108	105.2753585	103.5283921	101.8189875	100.145998	98.50832435	96.90491179	95.33474795	93.79686065
230130A00095	2/3/2023	4.25	5/26/2026	100.32064	100.2483066	100.1760851	100.1039765	100.0319804	99.96009672	99.88832505	99.81666518	99.74511685
230130A00127	1/30/2023	4.02	2/1/2028	107.06885	105.2719922	103.5143153	101.7946131	100.1117255	98.46454028	96.85199	95.27305026	93.72673723

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230131A00004	1/31/2023	3.76	1/31/2028	106.70309	104.910561	103.1571151	101.4415417	99.76267955	98.11941516	96.51068065	94.93545121	93.3927429
230131A00009	1/31/2023	3.98	1/31/2028	106.98626	105.1930565	103.4389154	101.722623	100.0430197	98.39899345	96.78947778	95.21344917	93.66992492
230131A00032	2/3/2023	4.17	7/30/2026	101.09942	100.8455808	100.5930184	100.3417194	100.0916746	99.84287457	99.59531004	99.34897184	99.10385092
230131A00034	2/3/2023	3.99	12/23/2027	106.59339	104.9097892	103.2612462	101.6467301	100.0652519	98.51586091	96.99764283	95.50971807	94.05124003
230131A00057	1/31/2023	4.1	1/29/2027	103.19456	102.4252757	101.6674762	100.9209021	100.1853053	99.46044474	98.74608651	98.04200339	97.34797468
230201A00003	2/1/2023	3.93	1/31/2028	106.8972	105.1048178	103.3514777	101.6359716	99.95714028	98.31387213	96.70510103	95.12980386	93.58699824
230201A00011	2/1/2023	3.93	2/1/2028	106.90831	105.1129172	103.3566863	101.6384035	99.95690965	98.31109293	96.69988679	95.12226744	93.57725168
230201A00012	2/1/2023	4.08	2/1/2027	103.21293	102.4352362	101.6692684	100.914766	100.1714728	99.43914018	98.71752694	98.00639883	97.3055284
230202A00006	2/2/2023	3.92	2/2/2027	103.10057	102.3205711	101.5523823	100.7957365	100.0503748	99.31604605	98.59250637	97.87951914	97.17685459
230202A00008	2/2/2023	3.81	2/2/2028	106.70501	104.9085888	103.1514004	101.432239	99.74994621	98.10341107	96.49156751	94.91339194	93.36790119
230202A00011	2/2/2023	3.92	2/2/2027	103.10057	102.3205711	101.5523823	100.7957365	100.0503748	99.31604605	98.59250637	97.87951914	97.17685459
230202A00038	2/2/2023	3.84	2/2/2028	106.75861	104.9616956	103.2040238	101.4843878	99.80162913	98.15463649	96.54234357	94.96372661	93.41780219
230202A00041	2/2/2023	3.82	2/2/2028	106.72288	104.9262911	103.1689416	101.449622	99.76717385	98.12048621	96.50849286	94.93017016	93.38453486
230202A00042	2/2/2023	3.82	2/2/2028	106.72288	104.9262911	103.1689416	101.449622	99.76717385	98.12048621	96.50849286	94.93017016	93.38453486
230202A00045	2/2/2023	3.62	2/2/2028	106.47446	104.6782173	102.9212492	101.2023409	99.52033209	97.87411018	96.2626074	94.68479867	93.13969936
230202A00050	2/2/2023	3.82	2/2/2028	106.72288	104.9262911	103.1689416	101.449622	99.76717385	98.12048621	96.50849286	94.93017016	93.38453486
230202A00096	2/2/2023	3.81	2/2/2028	106.70501	104.9085888	103.1514004	101.432239	99.74994621	98.10341107	96.49156751	94.91339194	93.36790119
230203A00021	2/8/2023	4.21	6/17/2026	100.58553	100.4519198	100.3186798	100.1858078	100.0533025	99.92116218	99.78938535	99.65797046	99.52691599
230203A00026	2/3/2023	3.98	2/3/2028	107.01998	105.217762	103.4549404	101.7303104	100.0427126	98.39103434	96.77420773	95.1912073	93.64104779
230203A00038	2/3/2023	4.1	2/3/2027	103.25099	102.4675689	101.6960514	100.9361664	100.1876522	99.45025462	98.72372717	98.00783059	97.30233256
230203A00039	2/3/2023	3.98	2/3/2028	107.01998	105.217762	103.4549404	101.7303104	100.0427126	98.39103434	96.77420773	95.1912073	93.64104779
230208A00029	2/8/2023	4.27	2/8/2027	103.44183	102.6436737	101.8578614	101.0841068	100.3221336	99.57167385	98.83246759	98.10426272	97.38681463
230208A00038	2/8/2023	4.27	2/8/2027	103.44183	102.6436737	101.8578614	101.0841068	100.3221336	99.57167385	98.83246759	98.10426272	97.38681463
230208A00039	2/8/2023	4.17	2/8/2028	107.41883	105.5983785	103.8179656	102.0763768	100.3724509	98.70507249	97.07316978	95.47571225	93.91170878
230208A00040	2/8/2023	4.26	2/8/2029	111.78138	108.8899132	106.0893013	103.3761113	100.7470689	98.19904557	95.72905115	93.33422646	91.01183663
230208A00041	2/8/2023	4.32	2/8/2030	116.10361	112.1122241	108.2828843	104.6080742	101.0806729	97.69393087	94.44144852	91.31715543	88.31529143
230208A00060	2/8/2023	4.06	2/8/2027	103.32344	102.5251554	101.7392311	100.9653776	100.203318	99.45278377	98.71351461	97.9852579	97.26776855
230209A00025	2/9/2023	4.25	2/5/2027	103.39081	102.6012222	101.8237201	101.0580231	100.3038634	99.56098142	98.82912525	98.10805046	97.3975198
230209A00027	2/9/2023	4.12	2/7/2028	107.31703	105.5004356	103.7237453	101.9857484	100.2852844	98.62123837	96.99253949	95.39815836	93.83710517
230209A00037	2/9/2023	4.12	2/9/2028	107.34029	105.5176626	103.7351668	101.9915956	100.2857884	98.6166296	96.98304737	95.38401083	93.81852828
230210A00055	2/10/2023	4.02	2/10/2028	107.28182	105.454845	103.6681847	101.9206263	100.2110064	98.53820663	96.90115226	95.29880938	93.73018324
230210A00062	2/10/2023	4.13	2/10/2027	103.4019	102.5977049	101.8060431	101.0266237	100.2591639	99.50338943	98.75903461	98.0258416	97.30356032
230210A00065	2/10/2023	4.02	2/10/2028	107.28182	105.454845	103.6681847	101.9206263	100.2110064	98.53820663	96.90115226	95.29880938	93.73018324

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230213A00020	2/15/2023	4.28	1/25/2028	107.45251	105.6714116	103.9288202	102.2235556	100.5544829	98.92051385	97.32060422	95.75375143	94.21899254
230214A00031	2/14/2023	4.31	2/14/2028	107.74424	105.9032781	104.10309	102.3424661	100.6202435	98.93530362	97.28657015	95.67300681	94.09361564
230215A00008	2/15/2023	4.49	2/16/2027	103.7148	102.8931418	102.084543	101.2886895	100.5052812	99.73402726	98.97464598	98.22686426	97.49041735
230215A00045	2/15/2023	4.37	2/15/2028	107.86576	106.0207453	104.216638	102.4522303	100.7263588	99.03790406	97.38578854	95.76897474	94.18646323
230217A00036	2/17/2023	4.44	2/17/2028	108.01839	106.1661035	104.3549808	102.5838139	100.8514386	99.1567341	97.49862098	95.87605951	94.28804768
230217A00052	2/17/2023	4.55	2/17/2027	103.77607	102.9513555	102.1397841	101.3410459	100.554838	99.78086647	99.0188469	98.2685035	97.5295689
230221A00004	2/21/2023	4.47	2/18/2028	108.08584	106.2299987	104.4154468	102.6409778	100.9054268	99.20767245	97.54663449	95.92127203	94.33058179
230221A00007	2/21/2023	4.5	10/18/2027	106.66185	105.1601323	103.6874006	102.2428875	100.8258516	99.43557703	98.07137218	96.73256893	95.4185215
230223A00033	2/23/2023	4.5	2/23/2028	108.20421	106.3326231	104.5029309	102.7139215	100.9644291	99.25332951	97.5795389	95.94201163	94.33973875
230228A00010	2/28/2023	4.5	2/26/2027	103.89812	103.0470123	102.2098814	101.3863831	100.5761859	99.77896925	98.99442256	98.22224527	97.46214618
230301A00029	3/1/2023	4.59	3/1/2028	108.46007	106.5657455	104.7141799	102.9041558	101.1345	99.40408023	97.71180281	96.05661141	94.43748548
230301A00047	3/1/2023	4.61	3/1/2028	108.66074	106.7268703	104.8381807	102.9933344	101.1910445	99.43007044	97.70921635	96.02732882	94.3832952
230302A00047	3/2/2023	4.76	3/2/2028	108.64981	106.7786617	104.9509487	103.1653863	101.4207374	99.71580995	98.04945451	96.42056279	94.82806572
230303A00035	5/15/2023	4.65	5/15/2030	118.53932	114.2241631	110.0946799	106.141842	102.3571132	98.73241773	95.26011232	91.93296066	88.74410944
230303A00036	5/15/2023	4.53	5/15/2028	109.25908	107.1486854	105.090439	103.0827106	101.1239303	99.21258895	97.34723474	95.52647087	93.74895292
230303A00038	4/14/2023	4.56	4/14/2028	108.94059	106.9199133	104.9475318	103.0219879	101.1418805	99.30586007	97.51262632	95.76092611	94.04955136
230303A00041	4/14/2023	4.56	4/14/2028	108.94059	106.9199133	104.9475318	103.0219879	101.1418805	99.30586007	97.51262632	95.76092611	94.04955136
230303A00057	3/3/2023	4.77	3/3/2027	104.14017	103.2746838	102.4236258	101.5866376	100.7633719	99.95349274	99.15667516	98.37260455	97.60097637
230303A00059	3/3/2023	4.56	3/3/2027	104.01267	103.1470646	102.2959068	101.4588335	100.6354967	99.82556006	99.02869781	98.24459485	97.47294611
230307A00004	3/7/2023	4.67	3/7/2028	108.84852	106.8963746	104.9902014	103.1286282	101.3103352	99.53405055	97.79854856	96.10264742	94.44520744
230307A00021	3/7/2023	4.63	3/7/2028	108.60849	106.6963412	104.8276878	103.0012817	101.2159204	99.47044358	97.76373082	96.09470037	94.46230736
230307A00022	3/7/2023	4.77	3/8/2027	104.20656	103.3268072	102.4619663	101.6116553	100.7755096	99.95317678	99.14431589	98.34859726	97.56570185
230307A00034	3/7/2023	4.41	3/7/2028	108.31061	106.3992272	104.5313689	102.7057851	100.9212718	99.17666684	97.47084835	95.80273314	94.17127498
230307A00114	3/7/2023	4.65	3/7/2028	108.64611	106.7335984	104.864589	103.0378337	101.2521297	99.50631642	97.7992734	96.12991865	94.49720716
230309A00027	3/9/2023	4.68	3/9/2028	108.72743	106.8086625	104.9336483	103.1011304	101.3098961	99.55877507	97.84663784	96.17239371	94.53498935
230309A00036	3/9/2023	4.46	3/9/2028	108.42873	106.5107369	104.6365239	102.8048345	101.0144545	99.26421191	97.55297562	95.87965351	94.24319088
230309A00057	3/9/2023	4.86	3/9/2027	104.29813	103.4151607	102.5471954	101.6938568	100.8547768	100.0295995	99.2179807	98.41958755	97.63409804
230309A00080	3/9/2023	4.68	3/9/2028	108.72743	106.8086625	104.9336483	103.1011304	101.3098961	99.55877507	97.84663784	96.17239371	94.53498935
230309A00091	3/9/2023	4.68	3/9/2028	108.72743	106.8086625	104.9336483	103.1011304	101.3098961	99.55877507	97.84663784	96.17239371	94.53498935
230309A00096	3/9/2023	4.68	3/9/2028	108.72743	106.8086625	104.9336483	103.1011304	101.3098961	99.55877507	97.84663784	96.17239371	94.53498935
230310A00017	3/10/2023	4.43	3/9/2029	112.61859	109.6293657	106.7363803	103.9360133	101.2248051	98.59944424	96.05676067	93.59371843	91.2074095
230310A00024	3/10/2023	4.38	3/10/2028	108.17308	106.2569421	104.3845759	102.5547211	100.7661627	99.01772872	97.30828766	95.63674718	94.00205234
230310A00030	3/10/2023	4.38	3/10/2028	108.17308	106.2569421	104.3845759	102.5547211	100.7661627	99.01772872	97.30828766	95.63674718	94.00205234

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230310A00039	3/10/2023	4.33	3/10/2028	108.07861	106.1633906	104.2919219	102.4629475	100.6752532	98.92766726	97.21905877	95.54833575	93.91444368
230310A00047	6/9/2023	4.22	6/9/2028	108.9008	106.7248614	104.6038866	102.5361067	100.5198229	98.55340411	96.63528353	94.76395572	92.93797358
230310A00054	9/8/2023	4.09	9/11/2028	109.65439	107.2094982	104.8321481	102.5200979	100.2711947	98.08336896	95.9546312	93.88306811	91.86683933
230310A00071	3/10/2023	4.38	3/10/2028	108.17308	106.2569421	104.3845759	102.5547211	100.7661627	99.01772872	97.30828766	95.63674718	94.00205234
230310A00091	3/10/2023	4.53	3/10/2027	104.02364	103.1391756	102.269801	101.4151297	100.5747904	99.74842421	98.935684	98.13623417	97.34975004
230310A00092	3/10/2023	4.38	3/10/2028	108.17308	106.2569421	104.3845759	102.5547211	100.7661627	99.01772872	97.30828766	95.63674718	94.00205234
230310A00114	3/10/2023	4.5	3/10/2027	103.99745	103.113116	102.2438642	101.3893144	100.5490951	99.72284741	98.91022438	98.11089038	97.32452076
230310A00120	3/10/2023	4.33	3/10/2028	108.07861	106.1633906	104.2919219	102.4629475	100.6752532	98.92766726	97.21905877	95.54833575	93.91444368
230313A00036	3/13/2023	4.06	3/13/2028	107.60067	105.6819085	103.8071691	101.9751805	100.1847163	98.43459346	96.72366986	95.05084316	93.41504892
230313A00052	3/13/2023	4.17	3/15/2027	103.76748	102.8702981	101.9886721	101.1221962	100.2704817	99.43315321	98.60984773	97.80021457	97.00391464
230313A00057	3/13/2023	4.06	3/13/2028	107.60067	105.6819085	103.8071691	101.9751805	100.1847163	98.43459346	96.72366986	95.05084316	93.41504892
230313A00061	3/13/2023	4.06	3/13/2028	107.60067	105.6819085	103.8071691	101.9751805	100.1847163	98.43459346	96.72366986	95.05084316	93.41504892
230313A00072	3/13/2023	4.06	3/13/2028	107.60067	105.6819085	103.8071691	101.9751805	100.1847163	98.43459346	96.72366986	95.05084316	93.41504892
230313A00091	3/13/2023	4.15	3/13/2028	107.77146	105.8510363	103.9746678	102.141081	100.3490485	98.59738632	96.88495163	95.21064131	93.57339017
230313A00102	3/13/2023	4.15	3/13/2028	107.77146	105.8510363	103.9746678	102.141081	100.3490485	98.59738632	96.88495163	95.21064131	93.57339017
230313A00112	3/13/2023	4.15	3/13/2028	107.77146	105.8510363	103.9746678	102.141081	100.3490485	98.59738632	96.88495163	95.21064131	93.57339017
230313A00121	3/13/2023	4.29	3/15/2027	103.87388	102.9761891	102.0940568	101.2270808	100.3748722	99.53705533	98.7132673	97.90315723	97.1063859
230313A00123	3/13/2023	4.22	9/15/2027	105.89427	104.4893415	103.1100151	101.7556468	100.4256165	99.11932426	97.83618933	96.57564953	95.33716043
230313A00128	3/13/2023	4.18	12/15/2027	106.82312	105.1593443	103.5299097	101.9338227	100.3701244	98.837893	97.33624126	95.86431531	94.42129285
230313A00134	3/13/2023	4.16	4/14/2028	108.14601	106.1334053	104.1689313	102.2511423	100.3786417	98.55008403	96.76417295	95.01965919	93.31533837
230313A00135	3/13/2023	4.17	6/15/2028	108.86236	106.6698851	104.5330991	102.4502013	100.4194591	98.43920991	96.50785689	94.62386639	92.78576463
230313A00149	3/13/2023	4.15	3/13/2028	107.77146	105.8510363	103.9746678	102.141081	100.3490485	98.59738632	96.88495163	95.21064131	93.57339017
230313A00179	3/13/2023	4.29	3/15/2027	103.87388	102.9761891	102.0940568	101.2270808	100.3748722	99.53705533	98.7132673	97.90315723	97.1063859
230313A00180	3/13/2023	4.15	3/13/2028	107.77146	105.8510363	103.9746678	102.141081	100.3490485	98.59738632	96.88495163	95.21064131	93.57339017
230313A00215	3/13/2023	4.13	3/13/2028	107.73351	105.8134523	103.9374459	102.1042142	100.3125303	98.56121013	96.84911124	95.17513061	93.53820323
230314A00014	3/14/2023	4.18	3/14/2028	107.98988	106.0523553	104.1608178	102.313879	100.5102065	98.74851665	97.02757306	95.3461841	93.70320105
230314A00015	3/14/2023	4.55	9/14/2026	101.79999	101.4167628	101.0364379	100.6589788	100.284353	99.91252866	99.54347419	99.17715862	98.8135514
230314A00054	3/14/2023	4.46	3/15/2027	104.02462	103.1262012	102.2433518	101.3756672	100.5227586	99.68424999	98.85977836	98.04899266	97.25155353
230314A00067	3/14/2023	4.16	3/14/2028	107.91832	105.9916067	104.1091797	102.2697571	100.4721027	98.71502379	96.9973697	95.31802949	93.67593065
230314A00070	3/14/2023	4.25	3/12/2027	103.85605	102.9660756	102.0913918	101.2316089	100.3863478	99.55524233	98.73793832	97.9340935	97.14337682
230314A00081	3/14/2023	4.16	3/14/2028	107.91832	105.9916067	104.1091797	102.2697571	100.4721027	98.71502379	96.9973697	95.31802949	93.67593065
230315A00016	3/15/2023	4.08	3/16/2027	103.69903	102.7993978	101.9154074	101.0466559	100.192751	99.35331393	98.52797865	97.7163914	96.91821017
230315A00024	3/15/2023	4.03	3/15/2028	107.56502	105.6411633	103.7615572	101.9249243	100.1300285	98.37567753	96.66072075	94.98404751	93.3445855

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230315A00030	3/15/2023	4.03	3/15/2028	107.56502	105.6411633	103.7615572	101.9249243	100.1300285	98.37567753	96.66072075	94.98404751	93.3445855
230315A00084	3/15/2023	4.08	3/24/2027	103.7899	102.8675215	101.9615652	101.0715994	100.197203	99.33796958	98.49350662	97.66343515	96.84738908
230315A00098	3/15/2023	4.08	3/15/2027	103.68767	102.7908799	101.9096335	101.0435328	100.1921889	99.35522662	98.53228305	97.72300758	96.92706119
230315A00117	3/15/2023	4.17	3/15/2027	103.76748	102.8702981	101.9886721	101.1221962	100.2704817	99.43315321	98.60984773	97.80021457	97.00391464
230315A00125	3/15/2023	4.11	3/15/2027	103.71428	102.8173526	101.9359797	101.0697539	100.2182865	99.38120215	98.55813794	97.74874325	96.95267901
230315A00131	3/15/2023	4.13	3/15/2027	103.73201	102.8350011	101.9535438	101.0872347	100.2356849	99.39851917	98.57537454	97.76590036	96.96975755
230316A00001	3/16/2023	3.81	3/16/2028	107.27319	105.3473152	103.4658469	101.6274956	99.83101869	98.07521751	96.35893532	94.68105571	93.04050089
230316A00017	3/16/2023	3.81	3/16/2028	107.27319	105.3473152	103.4658469	101.6274956	99.83101869	98.07521751	96.35893532	94.68105571	93.04050089
230316A00046	3/16/2023	4.18	6/16/2026	100.56942	100.4386092	100.30815	100.1780446	100.0482916	99.91888945	99.7898368	99.66113214	99.53277403
230316A00047	3/16/2023	4.07	9/16/2027	105.69488	104.2886107	102.9080136	101.5524432	100.2212766	98.91391119	97.62976391	96.36827016	95.12888328
230316A00048	3/16/2023	4.05	6/16/2028	108.61446	106.421881	104.2850604	102.2021916	100.171538	98.19143289	96.26027601	94.37653025	92.53871869
230316A00055	3/16/2023	4.03	3/16/2028	107.57567	105.6489777	103.7666664	101.9274446	100.1300715	98.37335009	96.65612517	94.97728184	93.33574374
230316A00060	3/16/2023	3.89	3/16/2027	103.58375	102.6839229	101.7997598	100.9308523	100.0768074	99.23724566	98.41180026	97.60011686	96.80185284
230316A00067	3/16/2023	3.89	3/16/2027	103.58375	102.6839229	101.7997598	100.9308523	100.0768074	99.23724566	98.41180026	97.60011686	96.80185284
230316A00072	3/16/2023	4.1	3/16/2027	103.71682	102.8171014	101.9330261	101.0641907	100.210203	99.37068407	98.5452679	97.7336007	96.93534045
230316A00078	3/16/2023	4.34	3/16/2027	103.9303	103.0295442	102.1444505	101.2746089	100.419627	99.57912576	98.75273887	97.94011232	97.14090387
230316A00082	3/16/2023	4.3	3/16/2028	108.09028	106.1585659	104.2713263	102.4272694	100.6251518	98.86377373	97.14197781	95.45864677	93.81270196
230317A00015	3/17/2023	4.13	3/17/2028	107.77718	105.8458001	103.9589527	102.1153462	100.3137336	98.55291229	96.83172178	95.14904199	93.50379162
230317A00016	3/17/2023	4.22	3/17/2027	103.83531	102.9322257	102.0448932	101.1729003	100.3158509	99.47336279	98.64506641	97.83060479	97.02963281
230317A00026	3/17/2023	4.22	3/17/2027	103.83531	102.9322257	102.0448932	101.1729003	100.3158509	99.47336279	98.64506641	97.83060479	97.02963281
230317A00047	3/17/2023	4.1	3/17/2028	107.62227	105.6941851	103.8105381	101.9700351	100.1714328	98.41353197	96.69517533	95.01524591	93.37266533
230317A00048	3/17/2023	4.1	3/17/2028	107.62227	105.6941851	103.8105381	101.9700351	100.1714328	98.41353197	96.69517533	95.01524591	93.37266533
230317A00049	3/17/2023	4.1	3/17/2028	107.62227	105.6941851	103.8105381	101.9700351	100.1714328	98.41353197	96.69517533	95.01524591	93.37266533
230317A00050	3/17/2023	4.1	3/17/2028	107.62227	105.6941851	103.8105381	101.9700351	100.1714328	98.41353197	96.69517533	95.01524591	93.37266533
230321A00009	3/21/2023	4.27	3/21/2028	108.08963	106.144274	104.2439886	102.3874616	100.5734248	98.80065519	97.06797298	95.37423961	93.71835617
230321A00053	3/21/2023	4.27	3/21/2028	108.08963	106.144274	104.2439886	102.3874616	100.5734248	98.80065519	97.06797298	95.37423961	93.71835617
230321A00074	3/21/2023	4.23	3/21/2028	108.01284	106.0682351	104.1686902	102.3128896	100.4995655	98.72749544	96.99549982	95.30244048	93.64721887
230322A00007	3/22/2023	4.54	3/21/2031	121.60611	116.3374833	111.3352543	106.5845135	102.0712592	97.78234062	93.70540234	89.8288317	86.14171068
230322A00009	3/22/2023	4.59	3/22/2032	125.59482	119.1749216	113.1358679	107.452943	102.1031576	97.06512302	92.31893209	87.84604896	83.6292081
230322A00015	3/22/2023	4.24	3/22/2028	108.04326	106.095627	104.1931788	102.334596	100.5186058	98.74398064	97.00953647	95.31413065	93.65666042
230322A00020	3/22/2023	4.2	3/22/2029	112.27787	109.2535871	106.3278829	103.49701	100.7573829	98.10557191	95.53829539	93.05241248	90.6449162
230323A00028	3/23/2023	4.1	3/23/2028	107.80909	105.8528053	103.9434673	102.0796435	100.259959	98.48309001	96.7477618	95.05274638	93.39686049
230323A00029	3/23/2023	4.39	3/24/2031	120.89432	115.6346536	110.6415768	105.9001378	101.3962994	97.11687863	93.04949125	89.18249898	85.50496086

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230323A00030	3/23/2023	4.72	3/23/2037	143.02619	130.752048	119.7093852	109.765791	100.803819	92.71922244	85.41940595	78.82206684	72.85400049
230323A00048	3/23/2023	4.07	3/23/2028	107.72717	105.7799183	103.8779162	102.0198372	100.204405	98.43038911	96.69660232	95.00189921	93.34517432
230323A00051	3/23/2023	3.85	3/23/2028	107.42167	105.4752643	103.5741315	101.7169498	99.90244115	98.12937317	96.3965571	94.70284598	93.04713288
230323A00054	3/23/2023	3.95	3/23/2028	107.49612	105.5511487	103.6513805	101.7954929	99.98221096	98.21030518	96.47858953	94.78591964	93.13119107
230323A00056	3/23/2023	4	3/23/2027	103.70583	102.7866517	101.8837964	100.9968327	100.1253434	99.2689254	98.42718979	97.59976082	96.78627551
230323A00058	3/23/2023	3.96	9/23/2027	105.61087	104.1856081	102.7866873	101.4134379	100.0652136	98.74138915	97.4413598	96.16454033	94.9103643
230323A00065	3/23/2023	3.85	3/23/2028	107.42167	105.4752643	103.5741315	101.7169498	99.90244115	98.12937317	96.3965571	94.70284598	93.04713288
230323A00081	3/23/2023	3.85	3/23/2028	107.42167	105.4752643	103.5741315	101.7169498	99.90244115	98.12937317	96.3965571	94.70284598	93.04713288
230324A00001	3/24/2023	4.04	6/24/2026	100.64486	100.4917248	100.3390644	100.1868762	100.0351582	99.88390816	99.73312386	99.58280317	99.43294392
230324A00021	3/24/2023	3.72	3/24/2028	107.08246	105.1610921	103.2857824	101.4551261	99.66777278	97.92242226	96.2178227	94.55276829	92.92609721
230324A00023	3/24/2023	3.69	3/24/2028	107.1233	105.1771087	103.2762608	101.4194249	99.60531943	97.83270883	96.10040121	94.4072467	92.7521356
230324A00032	3/24/2023	3.93	3/24/2028	107.46798	105.520558	103.6184594	101.7603519	99.94495566	98.17103661	96.43740434	94.74291032	93.08644615
230324A00036	3/24/2023	3.98	3/24/2027	103.69873	102.7768009	101.8712896	100.9817634	100.1078012	99.24899656	98.40495726	97.57530438	96.75967191
230327A00047	3/27/2023	4.08	3/27/2028	107.78954	105.8307613	103.9177289	102.0490948	100.2235626	98.43988221	96.69684819	94.99329757	93.3281082
230328A00020	3/28/2023	3.98	3/28/2028	107.7255	105.7624333	103.8453098	101.9727744	100.1435226	98.35629656	96.60988347	94.9031133	93.23485718
230328A00024	3/28/2023	4.2	3/28/2028	108.03303	106.0691063	104.1510965	102.2776466	100.4474537	98.65926183	96.9118598	95.20407918	93.53479259
230328A00026	3/28/2023	4.34	3/28/2029	112.57211	109.5311439	106.5896798	103.743921	100.9902343	98.32514476	95.74532836	93.24760414	90.82892736
230328A00027	3/28/2023	4.22	3/28/2028	108.0636	106.0989051	104.1816116	102.3102681	100.4834781	98.69989717	96.95823123	95.25723383	93.59570425
230328A00037	3/28/2023	4.21	3/28/2028	108.18072	106.1820454	104.2317755	102.3284242	100.4705639	98.6568205	96.885871	95.15644134	93.46730413
230328A00045	3/28/2023	4.21	3/28/2028	108.18072	106.1820454	104.2317755	102.3284242	100.4705639	98.6568205	96.885871	95.15644134	93.46730413
230328A00047	3/28/2023	4.21	3/28/2028	108.18072	106.1820454	104.2317755	102.3284242	100.4705639	98.6568205	96.885871	95.15644134	93.46730413
230328A00051	3/28/2023	4.53	3/28/2033	126.17247	119.3060894	112.8959817	106.908699	101.3134377	96.08181232	91.18765357	86.60682325	82.31704627
230328A00052	3/28/2023	4.53	3/28/2033	126.17247	119.3060894	112.8959817	106.908699	101.3134377	96.08181232	91.18765357	86.60682325	82.31704627
230328A00098	3/28/2023	4.24	3/29/2027	103.9948	103.0574361	102.1370052	101.2330489	100.3451273	99.47281623	98.61570618	97.77340195	96.94552191
230328A00100	3/28/2023	4.19	3/28/2028	108.01363	106.0499061	104.1320852	102.2588204	100.4288092	98.64079564	96.8935686	95.18595975	93.5168418
230329A00020	3/29/2023	4.23	3/29/2028	108.1024	106.1350573	104.213761	102.3371539	100.503928	98.71282194	96.96261974	95.25214829	93.58027576
230330A00011	3/30/2023	4.21	3/30/2028	108.0747	106.1049088	104.1812802	102.3024519	100.467111	98.67399164	96.92187333	95.20957876	93.53597211
230330A00083	3/30/2023	4.1	3/30/2027	103.93275	102.9921257	102.0685526	101.1615701	100.2707338	99.39561487	98.5357998	97.69088936	96.8604981
230331A00057	3/31/2023	4.08	3/31/2028	107.83265	105.862551	103.9386856	102.0596917	100.2242527	98.4310992	96.67900724	94.96679634	93.29332762
230404A00002	4/4/2023	4.1	4/2/2027	103.91069	102.9626233	102.0318821	101.1179968	100.2205121	99.33898912	98.47300434	97.6221492	96.78602934
230405A00012	4/5/2023	3.8	4/5/2028	107.33861	105.3594184	103.4270249	101.5400327	99.69709997	97.8969336	96.13828704	94.41995831	92.74078813
230405A00022	4/5/2023	3.8	4/5/2028	107.33861	105.3594184	103.4270249	101.5400327	99.69709997	97.8969336	96.13828704	94.41995831	92.74078813
230405A00044	4/5/2023	3.8	4/5/2028	107.33861	105.3594184	103.4270249	101.5400327	99.69709997	97.8969336	96.13828704	94.41995831	92.74078813

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230405A00046	4/5/2023	3.82	10/5/2027	105.52647	104.0687237	102.6384907	101.2350611	99.85774593	98.50587978	97.17881919	95.87594199	94.59664637
230405A00049	4/5/2023	3.81	4/5/2028	107.35822	105.3788363	103.4462498	101.5590684	99.71595002	97.9156015	96.15677618	94.438272	92.75892958
230406A00016	4/6/2023	3.89	4/6/2028	107.34156	105.4054395	103.5161633	101.6722859	99.87241662	98.1152178	96.39940202	94.72372994	93.08700809
230406A00023	4/6/2023	3.84	4/6/2028	107.42743	105.4445486	103.5086088	101.6182118	99.77200997	97.96870428	96.20704273	94.48581816	92.80386631
230406A00026	4/6/2023	3.92	4/6/2027	103.78538	102.8268264	101.886004	100.9624262	100.0556217	99.16513584	98.29053069	97.43138364	96.58728703
230406A00029	4/6/2023	3.84	4/6/2028	107.42743	105.4445486	103.5086088	101.6182118	99.77200997	97.96870428	96.20704273	94.48581816	92.80386631
230406A00041	5/31/2024	3.25	5/29/2026	100.27647	100.1958611	100.1153821	100.0350355	99.95482107	99.87473838	99.79478716	99.71496709	99.63527785
230406A00043	7/31/2024	3.2	7/31/2026	100.86349	100.6072767	100.3523608	100.0987324	99.84638162	99.59529901	99.34547503	99.09690027	98.84956541
230406A00044	9/30/2024	3.16	9/30/2026	101.41876	100.9918993	100.5686282	100.1488975	99.73266307	99.31988138	98.91050964	98.50450579	98.10182844
230406A00046	6/28/2024	3.35	6/30/2027	104.02669	102.8305456	101.6619001	100.5198173	99.40339884	98.31178647	97.24415985	96.19973448	95.17775971
230406A00047	8/30/2024	3.31	8/31/2027	104.49892	103.1459721	101.8170249	100.5114914	99.2288057	97.96841968	96.72980226	95.51243881	94.31583051
230406A00049	10/31/2024	3.29	10/29/2027	104.9467	103.4286101	101.9404061	100.4812811	99.05045733	97.64718463	96.27073865	94.92041996	93.59555294
230406A00050	4/6/2023	3.67	4/6/2027	103.60563	102.6471806	101.7064825	100.7830439	99.87639236	98.98607289	98.11164664	97.25269037	96.40879581
230406A00105	4/6/2023	3.84	4/6/2028	107.32712	105.3471017	103.4139346	101.5262184	99.68260879	97.88181024	96.12257395	94.40369583	92.72401453
230410A00011	4/10/2023	4.08	4/9/2027	103.97085	103.0029917	102.0531932	101.1209506	100.2057798	99.30721423	98.4248044	97.5581168	96.70673335
230410A00012	4/10/2023	3.98	4/10/2028	107.74544	105.7481328	103.7983535	101.8946787	100.0357363	98.22020447	96.44680944	94.71432323	93.02156178
230411A00054	4/11/2023	3.74	4/11/2028	107.40276	105.4038482	103.4526211	101.5476483	99.68754999	97.87099742	96.09670996	94.36345329	92.67003729
230412A00006	4/12/2023	4.04	4/12/2027	103.96608	102.9898921	102.0320783	101.0921207	100.1695226	99.26380553	98.37450867	97.50118774	96.64341441
230412A00007	4/12/2023	3.95	4/12/2028	107.70752	105.7049809	103.750224	101.8418159	99.97837345	98.15856437	96.38110479	94.64475726	92.94832869
230412A00028	4/12/2023	3.69	4/12/2028	107.31392	105.3131015	103.3600798	101.4534212	99.59174119	97.77370575	95.99802968	94.26347421	92.56884504
230412A00033	4/12/2023	4.04	4/12/2027	103.96608	102.9898921	102.0320783	101.0921207	100.1695226	99.26380553	98.37450867	97.50118774	96.64341441
230412A00038	4/12/2023	3.69	4/12/2028	107.31392	105.3131015	103.3600798	101.4534212	99.59174119	97.77370575	95.99802968	94.26347421	92.56884504
230413A00017	4/13/2023	3.88	4/13/2028	107.57934	105.5752865	103.619127	101.7094177	99.84477063	98.02384866	96.24536351	94.50807347	92.81078142
230413A00018	4/13/2023	3.96	4/13/2027	103.89985	102.9212267	101.9610737	101.0188728	100.0941233	99.18634286	98.29506695	97.41984776	96.56025358
230413A00020	4/13/2023	3.88	4/13/2028	107.57934	105.5752865	103.619127	101.7094177	99.84477063	98.02384866	96.24536351	94.50807347	92.81078142
230413A00082	4/13/2023	4.01	4/13/2027	103.94822	102.9693399	102.008938	101.0664916	100.1414997	99.23348004	98.34196792	97.4665155	96.60669101
230417A00023	4/17/2023	3.86	4/7/2028	107.59788	105.6082349	103.6657903	101.7691341	99.91690834	98.10780451	96.34056137	94.61396301	92.92683685
230417A00045	4/17/2023	4.21	4/16/2027	104.17657	103.18814	102.2185145	101.2671623	100.3335695	99.41724136	98.51770149	97.63449082	96.76716691
230417A00046	4/17/2023	4.13	4/17/2028	108.11993	106.0991428	104.1268819	102.2016809	100.3221261	98.48685587	96.69455873	94.94397078	93.23387381
230418A00035	4/18/2023	4.13	4/18/2028	104.42847	103.3627253	102.3178698	101.2933076	100.288464	99.30278604	98.33574138	97.3868172	96.45551944
230419A00035	4/19/2023	4.16	4/19/2028	108.20228	106.1750196	104.1965691	102.2654485	100.380232	98.53954685	96.74207067	94.98652938	93.27169499
230420A00056	4/20/2023	4.38	4/20/2033	127.81175	120.2054201	113.1218837	106.5221649	100.3703936	94.63354344	89.28119208	84.28530347	79.62002884
230420A00059	4/20/2023	4.72	4/20/2038	145.65493	132.1612531	120.1344426	109.4038157	99.81951755	91.24987579	83.5791045	76.70530846	70.53874744

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230420A00060	4/20/2023	4.72	4/20/2038	145.65493	132.1612531	120.1344426	109.4038157	99.81951755	91.24987579	83.5791045	76.70530846	70.53874744
230420A00063	4/20/2023	4.65	4/20/2037	142.46159	130.1401636	119.0636728	109.0973535	100.121772	92.03100624	84.73105177	78.13842183	72.17891905
230421A00006	4/21/2023	4.04	4/21/2028	107.98408	105.9534248	103.9717987	102.0377146	100.1497365	98.30648169	96.50661866	94.74886446	93.03198276
230421A00025	4/21/2023	4.04	4/21/2028	107.98408	105.9534248	103.9717987	102.0377146	100.1497365	98.30648169	96.50661866	94.74886446	93.03198276
230421A00041	4/21/2023	4.22	4/21/2027	104.19468	103.1929265	102.2104813	101.2467937	100.3013294	99.37357434	98.46303351	97.56923037	96.69170576
230421A00043	4/21/2023	4.1	4/21/2028	108.10444	106.072543	104.0897081	102.1544387	100.265298	98.42090277	96.61992083	94.86106864	93.14310931
230421A00044	4/21/2023	4.13	10/21/2027	106.14149	104.6356708	103.1590727	101.7109204	100.2904628	98.89697485	97.52975643	96.18813107	94.87144505
230421A00062	4/21/2023	4.33	4/21/2028	104.63917	103.5580147	102.4981236	101.4588925	100.4397358	99.44008988	98.45941213	97.49717992	96.55288969
230421A00064	4/21/2023	4.1	4/21/2028	108.10444	106.072543	104.0897081	102.1544387	100.265298	98.42090277	96.61992083	94.86106864	93.14310931
230424A00003	4/24/2023	4.15	4/26/2027	104.23268	103.2160454	102.219287	101.2418236	100.2830983	99.34257533	98.41973937	97.51409431	96.62516246
230424A00005	4/24/2023	4.08	4/24/2028	108.09741	106.0571424	104.0663311	102.1234668	100.2270955	98.37581741	96.56828473	94.80319908	93.07930945
230425A00031	4/25/2023	3.69	4/25/2028	107.44559	105.4068858	103.4177424	101.4766392	99.58211625	97.732768	95.92724114	94.16423218	92.44248528
230425A00045	4/25/2023	3.95	4/25/2028	107.84624	105.8057402	103.8147826	101.8718505	99.97548565	98.12428405	96.31689392	94.55201315	92.82838721
230425A00047	4/25/2023	4.01	4/26/2027	104.0922	103.0763218	102.0803114	101.1035858	100.1455883	99.20578353	98.28365627	97.37871064	96.49046915
230425A00052	4/25/2023	4.01	4/26/2027	104.0922	103.0763218	102.0803114	101.1035858	100.1455883	99.20578353	98.28365627	97.37871064	96.49046915
230425A00104	4/25/2023	3.86	7/15/2026	100.86535	100.653467	100.4424924	100.232418	100.0232379	99.8149463	99.60753752	99.40100584	99.19534562
230426A00003	4/26/2023	3.89	5/9/2028	107.87073	105.7913768	103.7632177	101.7846639	99.85418373	97.97030365	96.13160603	94.33672638	92.58435101
230426A00004	4/26/2023	3.89	5/9/2028	107.87073	105.7913768	103.7632177	101.7846639	99.85418373	97.97030365	96.13160603	94.33672638	92.58435101
230426A00005	4/26/2023	3.91	6/13/2028	108.27973	106.099288	103.9741603	101.9025606	99.88277134	97.91314385	95.99209491	94.11810358	92.28970818
230426A00006	4/26/2023	3.91	6/13/2028	108.27973	106.099288	103.9741603	101.9025606	99.88277134	97.91314385	95.99209491	94.11810358	92.28970818
230426A00007	4/26/2023	3.92	7/11/2028	108.59831	106.3363617	104.1333173	101.9872103	99.89615716	97.8583529	95.87206687	93.93563907	92.04747653
230426A00008	4/26/2023	3.92	7/11/2028	108.59831	106.3363617	104.1333173	101.9872103	99.89615716	97.8583529	95.87206687	93.93563907	92.04747653
230426A00009	4/26/2023	3.94	8/8/2028	108.93551	106.5932119	104.3135433	102.0943944	99.93374084	97.82964214	95.78023783	93.78374334	91.83844623
230426A00010	4/26/2023	3.94	8/8/2028	108.93551	106.5932119	104.3135433	102.0943944	99.93374084	97.82964214	95.78023783	93.78374334	91.83844623
230426A00011	4/26/2023	3.96	9/12/2028	109.35285	106.9088069	104.5323719	102.2213026	99.97344141	97.78671432	95.65912764	93.58876417	91.57377985
230426A00012	4/26/2023	3.96	9/12/2028	109.35285	106.9088069	104.5323719	102.2213026	99.97344141	97.78671432	95.65912764	93.58876417	91.57377985
230426A00013	4/26/2023	3.98	10/10/2028	109.70078	107.1743336	104.7198499	102.3348637	100.0170119	97.76402608	95.57372848	93.4440275	91.37291385
230426A00014	4/26/2023	3.98	10/10/2028	109.70078	107.1743336	104.7198499	102.3348637	100.0170119	97.76402608	95.57372848	93.4440275	91.37291385
230426A00025	4/26/2023	3.62	4/26/2028	107.31425	105.2740881	103.2835953	101.3412451	99.44557209	97.5951661	95.78866921	94.02477359	92.30221928
230426A00033	4/26/2023	3.88	4/26/2028	107.71553	105.6735644	103.6812492	101.7370618	99.83953876	97.98727132	96.1789031	94.41312767	92.68868637
230426A00040	4/26/2023	3.9	4/26/2028	107.75592	105.7135423	103.7208187	101.7762308	99.87831505	98.02566238	96.21691623	94.45076997	92.72596475
230426A00046	4/26/2023	3.95	4/26/2028	107.85691	105.8134869	103.8197423	101.8741534	99.97525575	98.12164003	96.31194906	94.54487574	92.8191607
230426A00064	6/15/2023	3.87	6/15/2028	108.21484	106.0294668	103.8996447	101.8235704	99.79951549	97.82582106	95.90089421	94.02320482	92.19128261

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230426A00065	6/15/2023	3.87	6/15/2028	108.21484	106.0294668	103.8996447	101.8235704	99.79951549	97.82582106	95.90089421	94.02320482	92.19128261
230427A00066	4/27/2023	4.07	4/27/2027	104.16364	103.1445939	102.1455195	101.1658376	100.2049872	99.26242836	98.33764198	97.4301283	96.53940616
230427A00077	4/27/2023	4.14	10/27/2026	102.15432	101.6503655	101.1513836	100.6573053	100.1680587	99.68357288	99.2037787	98.72860814	98.25799452
230428A00018	4/28/2023	3.99	4/28/2028	107.95926	105.9091519	103.9090111	101.9573025	100.0525497	98.19333143	96.37827962	94.6060766	92.87545301
230501A00011	5/1/2023	4.09	4/26/2027	104.17247	103.1561639	102.159726	101.1825788	100.2241654	99.28395027	98.36141804	97.45607274	96.56743676
230501A00012	5/1/2023	3.98	5/1/2028	107.9711	105.9125167	103.9042834	101.9448446	100.0327071	98.16643409	96.34464233	94.56599999	92.82922424
230502A00038	5/2/2023	3.86	5/2/2028	107.73732	105.6784369	103.669966	101.7103464	99.79808142	97.93173081	96.1099083	94.3312791	92.5945576
230502A00052	5/2/2023	3.96	5/3/2027	104.11852	103.0830165	102.0681397	101.0732808	100.0978514	99.14128564	98.20303977	97.2825906	96.37943476
230502A00055	5/2/2023	4.08	5/4/2026	100.05134	100.0402092	100.0290912	100.0179839	100.0068871	99.99580088	99.98472522	99.97366008	99.96260546
230502A00076	5/2/2023	3.95	5/3/2027	104.10829	103.0728437	102.0580223	101.0632181	100.0878425	99.13132995	98.19313652	97.27273911	96.36963434
230502A00079	5/2/2023	3.6	5/2/2028	107.33274	105.275705	103.269094	101.3113491	99.40097177	97.53652023	95.71660661	93.93989468	92.2050975
230502A00081	5/2/2023	3.96	5/3/2027	104.11852	103.0830165	102.0681397	101.0732808	100.0978514	99.14128564	98.20303977	97.2825906	96.37943476
230502A00122	5/2/2023	3.7	5/3/2027	103.91445	102.879163	101.8645252	100.8699208	99.89476046	98.93847759	98.00052749	97.08038623	96.1775497
230503A00004	5/3/2023	3.94	5/3/2027	104.09807	103.0626709	102.0479049	101.0531553	100.0778336	99.12137425	98.18323328	97.26288761	96.35983391
230503A00012	5/3/2023	3.82	5/3/2028	107.666	105.6051378	103.5947778	101.6333583	99.71937821	97.85139299	96.02801241	94.2478979	92.50976032
230503A00014	5/3/2023	3.94	5/3/2027	104.09807	103.0626709	102.0479049	101.0531553	100.0778336	99.12137425	98.18323328	97.26288761	96.35983391
230503A00020	5/3/2023	3.84	5/3/2028	107.70678	105.6454963	103.6347202	101.6728929	99.75851281	97.89013531	96.06636991	94.28587785	92.54736978
230503A00025	5/3/2023	3.84	5/3/2028	107.70678	105.6454963	103.6347202	101.6728929	99.75851281	97.89013531	96.06636991	94.28587785	92.54736978
230503A00029	5/3/2023	4.08	5/4/2026	100.05134	100.0402092	100.0290912	100.0179839	100.0068871	99.99580088	99.98472522	99.97366008	99.96260546
230503A00030	5/3/2023	3.84	5/3/2028	107.70678	105.6454963	103.6347202	101.6728929	99.75851281	97.89013531	96.06636991	94.28587785	92.54736978
230503A00032	5/3/2023	4.08	5/1/2026	100.01633	100.0135454	100.0107656	100.0079882	100.0052132	100.0024407	99.99967055	99.99690281	99.99413748
230503A00034	5/3/2023	3.84	5/3/2028	107.70678	105.6454963	103.6347202	101.6728929	99.75851281	97.89013531	96.06636991	94.28587785	92.54736978
230504A00006	5/4/2023	3.79	12/6/2027	106.08997	104.4568756	102.8571859	101.2899431	99.75422606	98.24914854	96.77385721	95.32753018	93.9093756
230504A00007	5/4/2023	3.82	7/6/2027	104.64397	103.427311	102.2389911	101.0780306	99.94349144	98.83447824	97.75013561	96.68964604	95.65222782
230504A00011	5/4/2023	3.7	5/4/2026	100.04744	100.0363097	100.025188	100.014077	100.0029767	99.99188702	99.98080796	99.9697395	99.95868162
230504A00034	5/4/2023	3.95	5/4/2026	100.04976	100.0386371	100.0275204	100.0164142	100.0053186	99.99423361	99.98315914	99.9720952	99.96104177
230504A00041	5/4/2023	3.95	5/4/2026	100.04976	100.0386371	100.0275204	100.0164142	100.0053186	99.99423361	99.98315914	99.9720952	99.96104177
230504A00042	5/4/2023	3.83	5/4/2027	103.9961	102.9584904	101.9416103	100.9448461	99.96760469	99.00931603	98.06943214	97.147426	96.24279053
230504A00043	5/4/2023	3.76	5/4/2028	107.55362	105.4912078	103.4793798	101.5165734	99.60128325	97.73206083	95.90751211	94.12629497	92.38711691
230504A00049	5/4/2023	3.95	5/4/2026	100.04976	100.0386371	100.0275204	100.0164142	100.0053186	99.99423361	99.98315914	99.9720952	99.96104177
230504A00054	5/4/2023	3.95	5/4/2026	100.04976	100.0386371	100.0275204	100.0164142	100.0053186	99.99423361	99.98315914	99.9720952	99.96104177
230504A00057	5/4/2023	3.86	5/4/2026	100.04868	100.0375488	100.0264329	100.0153275	100.0042328	99.99314857	99.98207493	99.97101182	99.95995922
230504A00058	5/4/2023	3.69	5/4/2028	107.41069	105.3497629	103.3393947	101.3780196	99.46413289	97.59628697	95.77308853	93.99319616	92.25531806

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230504A00059	5/4/2023	4.34	5/4/2026	100.05454	100.0434069	100.032286	100.0211757	100.0100759	99.99898679	99.9879082	99.97684016	99.96578263
230504A00069	5/4/2023	3.82	5/4/2026	100.04819	100.0370651	100.0259495	100.0148445	100.0037502	99.99266633	99.98159306	99.97053031	99.95947808
230504A00084	5/4/2023	3.5	5/4/2028	107.14782	105.0872656	103.0773127	101.1163961	99.2030086	97.33570009	95.51307496	93.73378968	91.99655038
230505A00002	5/5/2023	4.01	5/5/2026	100.06197	100.0480591	100.034163	100.0202805	100.0064116	99.99255627	99.97871453	99.96488634	99.95107166
230505A00005	5/5/2023	3.99	5/5/2026	100.06167	100.0477625	100.0338666	100.0199843	100.0061157	99.99226058	99.97841907	99.9645911	99.95077666
230505A00014	5/5/2023	3.59	5/5/2028	107.34138	105.2760832	103.2615357	101.2961671	99.37846421	97.50697118	95.68028702	93.89706305	92.15600055
230505A00016	5/5/2023	3.85	5/5/2028	107.74762	105.6804551	103.6640289	101.696767	99.77715769	97.90374702	96.07513549	94.28997586	92.54697075
230505A00022	5/5/2023	3.85	5/5/2028	107.74762	105.6804551	103.6640289	101.696767	99.77715769	97.90374702	96.07513549	94.28997586	92.54697075
230505A00027	5/5/2023	4.01	5/5/2026	100.06197	100.0480591	100.034163	100.0202805	100.0064116	99.99255627	99.97871453	99.96488634	99.95107166
230505A00071	5/5/2023	3.85	5/5/2028	107.74762	105.6804551	103.6640289	101.696767	99.77715769	97.90374702	96.07513549	94.28997586	92.54697075
230508A00007	5/8/2023	3.92	5/8/2028	107.92199	105.8448263	103.8187596	101.8422044	99.91363321	98.03157719	96.19462277	94.40140936	92.65062694
230508A00016	5/8/2023	4.14	5/8/2026	100.0994	100.0771444	100.0549106	100.0327005	100.010514	99.98835105	99.96621167	99.94409578	99.92200334
230508A00017	5/8/2023	4.01	5/10/2027	104.24707	103.1913783	102.1571166	101.1436358	100.1503133	99.17655122	98.2217751	97.28543279	96.36699343
230508A00018	5/8/2023	3.92	5/8/2028	107.92199	105.8448263	103.8187596	101.8422044	99.91363321	98.03157719	96.19462277	94.40140936	92.65062694
230509A00010	5/9/2023	4.14	5/8/2026	100.0994	100.0771444	100.0549106	100.0327005	100.010514	99.98835105	99.96621167	99.94409578	99.92200334
230509A00036	5/9/2023	4.02	5/10/2027	104.25749	103.2017437	102.1674246	101.1538872	100.1605089	99.18669176	98.23186135	97.2954655	96.37697331
230509A00060	5/9/2023	3.92	5/9/2028	107.93241	105.8524038	103.8236109	101.8444358	99.91334633	98.02886875	96.18958505	94.39413043	92.6411909
230509A00118	5/9/2023	4.12	5/8/2026	100.09894	100.0766835	100.0544501	100.0322403	100.0100542	99.98789165	99.96575263	99.9436371	99.92154503
230510A00014	5/10/2023	4.07	5/11/2026	100.13272	100.1021141	100.0715478	100.0410165	100.0105203	99.98005899	99.94963255	99.91924092	99.88888403
230510A00018	11/10/2023	3.61	11/10/2026	102.03059	101.4880802	100.9513485	100.4203023	99.8948514	99.37490761	98.86038446	98.35119734	97.84726338
230510A00037	5/10/2023	3.84	5/10/2028	107.77814	105.6970246	103.6671996	101.6870658	99.75508682	97.86978518	96.02973927	94.23358092	92.47999294
230510A00057	5/10/2023	3.98	5/11/2026	100.1299	100.0993009	100.0687369	100.0382079	100.007714	99.97725492	99.94683076	99.9164414	99.88608678
230510A00062	8/10/2023	3.78	8/10/2026	101.1219	100.8374753	100.5546618	100.2734461	99.99381443	99.71575344	99.4392498	99.16429037	98.89086214
230511A00023	5/11/2023	3.95	5/19/2026	100.21966	100.1668094	100.1140319	100.0613265	100.0086933	99.95613195	99.90364243	99.85122454	99.79887814
230511A00032	5/11/2023	3.7	5/11/2026	100.12307	100.0924618	100.0618847	100.0313429	100.0008363	99.97036484	99.93992845	99.90952709	99.87916066
230511A00036	5/11/2023	3.79	5/19/2027	104.11176	103.031783	101.9742492	100.9384643	99.92376154	98.92950126	97.95506945	96.99987647	96.06335591
230511A00038	5/11/2023	3.95	5/11/2026	100.12896	100.0983632	100.0677999	100.0372717	100.0067785	99.97632024	99.94589683	99.91550823	99.88515436
230511A00039	5/11/2023	3.86	11/27/2026	102.34734	101.7565076	101.172502	100.5952023	100.0244935	99.46026319	98.90240137	98.35080061	97.80535589
230511A00042	5/11/2023	3.72	5/11/2028	107.54097	105.4596232	103.4296241	101.4493727	99.51732907	97.63201237	95.79199785	93.99591438	92.24244198
230511A00043	5/11/2023	3.72	5/16/2028	107.59027	105.4947792	103.4511963	101.4578956	99.51331225	97.6159416	95.76433643	93.95710441	92.19290546
230511A00044	5/11/2023	3.79	5/11/2027	104.0282	102.9709473	101.9352235	100.9203718	99.92576513	98.95080133	97.99490196	97.05751108	96.13809423
230511A00046	5/11/2023	3.95	5/11/2026	100.12896	100.0983632	100.0677999	100.0372717	100.0067785	99.97632024	99.94589683	99.91550823	99.88515436
230511A00050	5/11/2023	3.98	5/11/2026	100.1299	100.0993009	100.0687369	100.0382079	100.007714	99.97725492	99.94683076	99.9164414	99.88608678

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230511A00069	5/11/2023	3.98	5/12/2026	100.1413	100.1079155	100.0745742	100.041272	100.0080089	99.97478487	99.94159977	99.90845354	99.87534611
230511A00080	5/11/2023	3.49	5/11/2028	107.19316	105.1130608	103.0843438	101.1054016	99.17469221	97.2907326	95.45209615	93.65740996	91.90535237
230512A00008	5/12/2023	3.75	5/12/2026	100.13558	100.1021836	100.0688265	100.0355089	100.0022306	99.96899153	99.93579166	99.9026309	99.86950917
230512A00010	5/12/2023	3.75	5/12/2026	100.13558	100.1021836	100.0688265	100.0355089	100.0022306	99.96899153	99.93579166	99.9026309	99.86950917
230512A00011	5/12/2023	3.78	5/12/2028	107.67468	105.5891987	103.5552059	101.5710926	99.63531311	97.74638119	95.90286693	94.10339434	92.34663883
230512A00026	5/12/2023	4	5/12/2026	100.14198	100.1085954	100.0752535	100.0419508	100.0086872	99.97546257	99.94227691	99.90913013	99.87602215
230512A00033	5/12/2023	3.75	5/12/2026	100.13558	100.1021836	100.0688265	100.0355089	100.0022306	99.96899153	99.93579166	99.9026309	99.86950917
230512A00037	5/12/2023	3.86	5/12/2027	104.112	103.0514961	102.0126413	100.9947735	99.99726043	99.01949523	98.06089489	97.12089919	96.19896958
230512A00042	5/12/2023	4	5/12/2026	100.14198	100.1085954	100.0752535	100.0419508	100.0086872	99.97546257	99.94227691	99.90913013	99.87602215
230515A00011	5/15/2023	4.11	5/15/2026	100.18098	100.1392469	100.0975703	100.0559461	100.0143743	99.97285463	99.9313871	99.88997157	99.84860795
230515A00045	5/15/2023	4.08	5/15/2026	100.17971	100.1379806	100.0963051	100.0546819	100.0131111	99.97159251	99.93012601	99.88871152	99.84734893
230515A00074	5/15/2023	4.11	5/15/2026	100.18098	100.1392469	100.0975703	100.0559461	100.0143743	99.97285463	99.9313871	99.88997157	99.84860795
230515A00078	5/15/2023	3.96	5/17/2027	104.27138	103.1960602	102.1429702	101.1114234	100.1007627	99.11035764	98.13960279	97.1879167	96.25474069
230515A00080	5/15/2023	3.88	5/15/2028	107.912	105.8158353	103.7715364	101.7774804	99.83210527	97.93390935	96.08144815	94.27333185	92.50822278
230516A00013	5/16/2023	4.11	5/15/2026	100.18098	100.1392469	100.0975703	100.0559461	100.0143743	99.97285463	99.9313871	99.88997157	99.84860795
230516A00035	5/16/2023	4.11	5/15/2026	100.18098	100.1392469	100.0975703	100.0559461	100.0143743	99.97285463	99.9313871	99.88997157	99.84860795
230516A00036	5/16/2023	4	5/17/2027	104.31385	103.2382915	102.1849636	101.1531824	100.1422907	99.15165776	98.18067821	97.22877051	96.29537592
230516A00037	5/16/2023	3.91	5/16/2028	107.98456	105.8848977	103.8372273	101.8399197	99.89140792	97.99018494	96.13480149	94.32386316	92.5560279
230516A00069	5/16/2023	4.1	5/15/2026	100.18055	100.1388248	100.0971486	100.0555247	100.0139532	99.97243392	99.93096674	99.88955156	99.84818828
230517A00014	5/17/2023	4.14	5/18/2026	100.21792	100.1678471	100.1178376	100.0678951	100.0180196	99.96821085	99.91846877	99.8687932	99.819184
230517A00048	5/17/2023	4.17	5/15/2026	100.18351	100.1417794	100.1001008	100.0584745	100.0169006	99.97537887	99.93390928	99.89249169	99.85112601
230518A00017	5/18/2023	4.28	5/18/2026	100.22499	100.1749063	100.1248909	100.0749427	100.0250613	99.9752468	99.92549893	99.87581758	99.82620262
230518A00019	5/18/2023	3.81	5/18/2028	107.92519	105.8182476	103.7636148	101.7596437	99.80475282	97.89742227	96.03619019	94.21965037	92.44644961
230519A00027	5/19/2023	4.39	5/19/2026	100.24307	100.1902	100.1374031	100.0846785	100.032026	99.97944552	99.92693681	99.87449977	99.82213423
230519A00029	5/19/2023	4.39	5/19/2026	100.24307	100.1902	100.1374031	100.0846785	100.032026	99.97944552	99.92693681	99.87449977	99.82213423
230519A00030	5/19/2023	4.27	5/19/2027	104.6241	103.5411975	102.4807811	101.442155	100.4246514	99.42762983	98.45047521	97.49259705	96.55342807
230519A00038	5/19/2023	3.92	5/19/2028	108.16481	106.0525839	103.9928315	101.9838962	100.0241901	98.11218718	96.24641981	94.42547626	92.64799811
230519A00041	5/19/2023	3.92	5/19/2028	108.16481	106.0525839	103.9928315	101.9838962	100.0241901	98.11218718	96.24641981	94.42547626	92.64799811
230522A00026	5/22/2023	4.35	5/22/2026	100.2782	100.2169871	100.1558626	100.0948268	100.0338796	99.97302079	99.9122501	99.85156737	99.79097241
230522A00043	5/22/2023	4.17	5/16/2028	108.52412	106.4187442	104.3654802	102.3626896	100.408802	98.50230742	96.64175368	94.82574355	93.05293229
230522A00046	5/22/2023	4.17	5/22/2028	108.59076	106.4682476	104.3985218	102.3799197	100.4108402	98.48974456	96.61515331	94.78564338	92.99984563
230522A00093	5/22/2023	4.17	5/22/2028	108.59076	106.4682476	104.3985218	102.3799197	100.4108402	98.48974456	96.61515331	94.78564338	92.99984563
230523A00008	5/23/2023	4.44	5/26/2026	100.33439	100.2620483	100.1898155	100.1176955	100.0456881	99.97379303	99.90201004	99.83033886	99.75877925

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230523A00024	5/23/2023	4.06	5/24/2027	104.52148	103.4242398	102.3500944	101.2983148	100.268207	99.25910532	98.27037116	97.30139159	96.35157806
230523A00048	5/23/2023	4.44	5/26/2026	100.33439	100.2620483	100.1898155	100.1176955	100.0456881	99.97379303	99.90201004	99.83033886	99.75877925
230523A00049	5/23/2023	4.31	5/24/2027	104.72625	103.6288	102.554422	101.5023923	100.472018	99.46263431	98.47360366	97.50431401	96.55417765
230523A00083	5/23/2023	4.21	5/23/2028	108.68566	106.5593867	104.4860398	102.4639428	100.4914891	98.56713468	96.68939488	94.85684193	93.06810219
230523A00085	5/23/2023	4.39	5/23/2029	113.36649	110.1562012	107.0556053	104.060318	101.166155	98.36912447	95.66541638	93.05139331	90.52358146
230523A00086	5/23/2023	4.42	5/23/2030	117.68803	113.3677612	109.2343535	105.2786834	101.4921216	97.86650657	94.3941159	91.06764047	87.88015987
230523A00088	5/23/2023	4.59	5/23/2033	129.59447	121.8340453	114.6118119	107.8872513	101.6231107	95.78512073	90.34174192	85.2639332	80.52494165
230523A00089	5/23/2023	4.65	5/23/2034	133.48302	124.5450468	116.3011771	108.6931992	101.6680874	95.17751813	89.17742888	83.62762173	78.49140525
230523A00090	5/23/2023	4.71	5/23/2035	137.38122	127.2498959	117.9875851	109.5140522	101.7569026	94.65077473	88.13662186	82.16107114	76.67585027
230523A00091	5/23/2023	4.77	5/23/2036	141.1859	129.8515385	119.5793808	110.2625202	101.8053911	94.12251266	87.1373746	80.78145161	74.99333048
230524A00009	5/24/2023	3.9	5/24/2028	108.17577	106.0497379	103.976733	101.9550801	99.98316615	98.05944099	96.18241441	94.3506533	92.56277901
230524A00028	5/24/2023	4.36	5/26/2026	100.3286	100.2562623	100.1840343	100.1119191	100.0399165	99.96802616	99.89624794	99.82458152	99.75302666
230524A00038	5/24/2023	4.36	5/26/2026	100.3286	100.2562623	100.1840343	100.1119191	100.0399165	99.96802616	99.89624794	99.82458152	99.75302666
230525A00094	5/25/2023	4.31	5/25/2028	108.91811	106.7838689	104.7028246	102.6732923	100.693654	98.76235446	96.87789895	95.03884985	93.24382419
230526A00013	5/26/2023	4.39	5/26/2026	100.33509	100.262702	100.1904254	100.1182621	100.0462119	99.97427463	99.90244994	99.8307376	99.75913733
230526A00016	5/26/2023	4.46	5/26/2027	104.91306	103.8089339	102.7281315	101.6699139	100.6335778	99.61844839	98.62387864	97.64924757	96.69395898
230526A00033	5/26/2023	4.63	5/27/2031	122.78163	117.2932551	112.0912075	107.1589425	102.4809574	98.04272382	93.83062141	89.83187597	86.03450242
230526A00034	5/26/2023	4.66	5/26/2032	126.64052	120.0051103	113.7734323	107.9185981	102.415654	97.24143053	92.37440526	87.79457749	83.48335278
230530A00027	5/30/2023	4.22	5/30/2028	108.78532	106.6387921	104.545991	102.5052108	100.5148087	98.57320634	96.67888678	94.83039165	93.02631836
230530A00045	5/30/2023	4.56	5/29/2026	100.78932	100.6222355	100.4557025	100.2897206	100.124287	99.95939907	99.7950541	99.63124944	99.46798244
230530A00048	5/30/2023	4.45	5/29/2026	100.3732	100.2925075	100.2119483	100.1315216	100.0512271	99.97106456	99.89103361	99.81113393	99.73136522
230530A00054	5/30/2023	4.56	5/29/2026	100.78932	100.6222355	100.4557025	100.2897206	100.124287	99.95939907	99.7950541	99.63124944	99.46798244
230530A00055	5/30/2023	4.56	5/29/2026	100.78932	100.6222355	100.4557025	100.2897206	100.124287	99.95939907	99.7950541	99.63124944	99.46798244
230530A00118	5/30/2023	4.4	5/28/2027	104.87213	103.7626514	102.6767235	101.6135988	100.5725635	99.55293349	98.5540526	97.57529126	96.61604518
230530A00171	5/30/2023	4.43	5/29/2026	100.37159	100.2908967	100.2103388	100.1299135	100.0496204	99.96945913	99.8894295	99.80953115	99.72976377
230531A00038	5/31/2023	4.01	5/28/2027	104.5123	103.4039394	102.3191351	101.2571387	100.2172357	99.19874131	98.2009986	97.2233774	96.26527283
230531A00042	5/31/2023	4.01	5/28/2027	104.5123	103.4039394	102.3191351	101.2571387	100.2172357	99.19874131	98.2009986	97.2233774	96.26527283
230531A00063	5/31/2023	4.37	5/29/2026	100.36675	100.2860644	100.2055105	100.1250892	100.0448001	99.96464282	99.88461718	99.80472281	99.7249594
230531A00090	5/31/2023	4.41	6/1/2026	100.40822	100.3191813	100.2303045	100.1415858	100.053025	99.96462161	99.87637518	99.78828531	99.7003516
230531A00091	5/31/2023	4.26	6/1/2027	104.76611	103.646103	102.5501059	101.4773505	100.4271025	99.39865807	98.39134266	97.40450925	96.43753699
230531A00099	5/31/2023	4.41	5/29/2026	100.36998	100.289286	100.2087294	100.1283054	100.0480136	99.96785369	99.88782539	99.80792837	99.72816231
230601A00025	6/1/2023	4.12	6/1/2028	108.59619	106.4461445	104.350019	102.3060972	100.3127266	98.36831991	96.47135186	94.62035612	92.81392259
230602A00012	6/2/2023	4.39	6/2/2026	100.41912	100.3273031	100.2356571	100.1441812	100.0528751	99.96173815	99.87077001	99.77997017	99.68933816

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230602A00020	6/2/2023	3.94	6/2/2028	108.3562	106.2034067	104.1047129	102.058391	100.0627799	98.11628425	96.21737102	94.3645667	92.55645439
230602A00027	6/2/2023	4.2	6/2/2026	100.40718	100.3153203	100.2236284	100.1321074	100.0407569	99.94957619	99.85856498	99.76772274	99.67704898
230602A00030	6/2/2023	4.2	6/2/2026	100.40718	100.3153203	100.2236284	100.1321074	100.0407569	99.94957619	99.85856498	99.76772274	99.67704898
230602A00051	6/2/2023	4.33	6/2/2038	123.86933	117.1598837	110.9762558	105.2699198	99.99731651	95.11930339	90.60067048	86.40971326	82.51785463
230606A00008	6/6/2023	3.98	6/6/2028	108.48554	106.3200424	104.2091663	102.1511529	100.144318	98.18704437	96.27777855	94.4150275	92.59735594
230606A00014	6/6/2023	4.35	6/7/2027	104.93689	103.7991583	102.6861829	101.5971566	100.5313113	99.48791139	98.46625224	97.46565838	96.48548211
230606A00015	6/6/2023	4.24	6/6/2028	108.90873	106.7411794	104.6282314	102.5681312	100.5591968	98.59981292	96.68842763	94.82354958	93.00374497
230606A00029	6/6/2023	4.45	6/5/2026	100.46317	100.3629954	100.2630293	100.1632703	100.0637175	99.96437052	99.86522853	99.76629092	99.66755704
230607A00007	6/7/2023	4.24	6/7/2028	108.92036	106.7498636	104.6340879	102.5712786	100.5597481	98.59787563	96.68410432	94.81693803	92.99493846
230607A00020	6/7/2023	4.28	6/7/2028	109.08698	106.8937864	104.757059	102.6749264	100.6455965	98.66735176	96.73854442	94.8575937	93.02298216
230607A00038	6/7/2023	4.58	6/5/2026	100.47618	100.3759912	100.2760139	100.1762436	100.0766797	99.97732153	99.8781684	99.77921968	99.68047471
230608A00003	6/8/2023	4.23	6/8/2028	108.91061	106.7373899	104.6190143	102.5537193	100.5398116	98.57566544	96.65971888	94.79047117	92.96647961
230608A00049	6/8/2023	4.47	6/8/2026	100.50388	100.3953505	100.2870627	100.1790202	100.071222	99.96366736	99.85635534	99.74928511	99.64245583
230609A00026	6/9/2023	4.11	6/9/2027	104.75884	103.6155862	102.4973465	101.4033097	100.3326949	99.28475502	98.25877406	97.25406613	96.26997359
230609A00027	6/9/2023	3.99	6/9/2028	108.54025	106.3656885	104.2461181	102.1797712	100.1649464	98.20001055	96.28339463	94.41359122	92.5891514
230609A00034	6/9/2023	3.99	6/9/2028	108.54025	106.3656885	104.2461181	102.1797712	100.1649464	98.20001055	96.28339463	94.41359122	92.5891514
230609A00040	6/9/2023	4.38	5/12/2027	104.65691	103.5933544	102.551485	101.5306449	100.5302012	99.54954595	98.58809516	97.64528774	96.72058426
230609A00041	6/9/2023	4.53	7/13/2026	100.96818	100.7618435	100.5563684	100.3517458	100.1479704	99.94503683	99.74293984	99.54167417	99.34123463
230609A00042	6/9/2023	4.46	11/25/2026	102.67448	102.0881431	101.5085122	100.9354747	100.3689183	99.80873344	99.25481288	98.70705187	98.16534793
230609A00043	6/9/2023	4.32	9/29/2027	106.18822	104.7418066	103.3223966	101.9292988	100.5618437	99.21938437	97.90129516	96.6069708	95.33582567
230609A00076	7/10/2023	4.19	7/10/2028	109.18941	106.9235073	104.7165141	102.5664709	100.4714963	98.42978732	96.43961509	94.49932117	92.60731404
230612A00023	6/12/2023	4.32	6/12/2026	100.54479	100.4250375	100.3055859	100.1864336	100.0675795	99.94902236	99.83076104	99.71279439	99.59512126
230613A00019	6/13/2023	4.49	6/15/2026	100.59695	100.4688865	100.3411642	100.2137817	100.0867376	99.96003053	99.83365914	99.70762204	99.58191784
230613A00021	6/13/2023	4.35	6/14/2027	105.02025	103.8625091	102.7303796	101.6230215	100.539627	99.47942301	98.44166935	97.42565719	96.43070724
230613A00091	6/13/2023	4.58	6/15/2026	100.60846	100.4803805	100.3526468	100.2252529	100.0981974	99.97147903	99.84509631	99.7190479	99.59333243
230614A00001	6/14/2023	4.55	6/12/2026	100.56507	100.4453688	100.3259719	100.2068735	100.0880722	99.96956695	99.85135661	99.73344004	99.61581609
230614A00029	6/14/2023	4.55	6/15/2026	100.60462	100.4765492	100.3488192	100.2214291	100.0943775	99.96766286	99.84128392	99.71523928	99.58952757
230614A00038	6/14/2023	4.3	6/15/2026	100.58022	100.45209	100.3243067	100.1968642	100.0697612	99.94299614	99.81656778	99.69047468	99.56471545
230614A00048	6/14/2023	4.55	6/15/2026	100.60462	100.4765492	100.3488192	100.2214291	100.0943775	99.96766286	99.84128392	99.71523928	99.58952757
230615A00026	6/15/2023	4.84	6/15/2038	147.44702	133.6982228	121.4575147	110.5477286	100.8135281	92.11860937	84.34327345	77.38231966	71.14321597
230615A00033	6/15/2023	4.58	6/15/2026	100.60846	100.4803805	100.3526468	100.2252529	100.0981974	99.97147903	99.84509631	99.7190479	99.59333243
230615A00039	6/15/2023	4.16	6/15/2027	104.88449	103.7237351	102.5887458	101.4786712	100.3926962	99.330041	98.2899592	97.27173592	96.27468624
230615A00044	6/15/2023	4.33	6/15/2026	100.58405	100.4559216	100.3281345	100.2006882	100.0735813	99.94681252	99.82038038	99.69428351	99.56852052

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230616A00012	6/16/2023	4.41	6/16/2026	100.60719	100.4762568	100.34568	100.2154583	100.0855901	99.95607394	99.82690839	99.69809194	99.56962316
230616A00037	6/16/2023	4.48	6/16/2027	105.19295	104.0285729	102.8900742	101.7765971	100.6873217	99.6214638	98.57827273	97.55702966	96.55704591
230616A00038	6/16/2023	4.32	6/16/2028	109.19799	106.9989903	104.8558866	102.7668614	100.7301744	98.74415551	96.80720098	94.91777047	93.0743839
230616A00040	6/16/2023	4.66	6/16/2026	100.63212	100.5012422	100.3707197	100.2405511	100.1107351	99.98127012	99.85215473	99.72338748	99.5949669
230616A00106	6/16/2023	4.61	6/16/2026	100.62559	100.4947179	100.364202	100.23404	100.1042306	99.97477214	99.84566328	99.71690255	99.58848848
230620A00035	6/20/2023	4.36	6/20/2030	117.7573	113.355699	109.1473841	105.1227661	101.2727899	97.58889965	94.06300765	90.68746635	87.45504154
230620A00065	6/20/2023	4.56	6/18/2026	100.64538	100.5089268	100.3728597	100.2371752	100.1018719	99.96694786	99.83240164	99.69823156	99.56443602
230620A00091	6/20/2023	4.56	6/22/2026	100.69802	100.5503868	100.4031982	100.2564515	100.1101449	99.96427625	99.81884358	99.67384492	99.52927831
230621A00016	6/21/2023	4.55	6/22/2026	100.69655	100.5489155	100.4017286	100.2549836	100.1086786	99.96281155	99.81738051	99.67238348	99.52781849
230621A00022	6/21/2023	4.24	6/21/2028	109.08327	106.8713808	104.7159774	102.6152174	100.5673328	98.5706272	96.62347213	94.7243039	92.87162041
230621A00041	6/21/2023	4.24	6/21/2028	109.08327	106.8713808	104.7159774	102.6152174	100.5673328	98.5706272	96.62347213	94.7243039	92.87162041
230621A00047	6/21/2023	4.44	6/21/2028	105.12634	103.970943	102.8391739	101.7303447	100.6437898	99.57886905	98.53496658	97.51148937	96.5078664
230621A00048	6/21/2023	4.55	6/22/2026	100.69655	100.5489155	100.4017286	100.2549836	100.1086786	99.96281155	99.81738051	99.67238348	99.52781849
230622A00004	6/22/2023	4.23	6/22/2027	105.04675	103.8654442	102.7107893	101.5818885	100.4778858	99.39796284	98.34133701	97.30725914	96.29501196
230622A00005	6/22/2023	4.05	6/22/2028	108.81562	106.6012381	104.4435205	102.3406156	100.2907466	98.29220852	96.34336507	94.4426451	92.58853949
230622A00019	6/22/2023	4.33	6/22/2028	109.17981	106.9883237	104.8537993	102.7743206	100.7480561	98.77325075	96.84822309	94.97136076	93.14111722
230622A00027	6/22/2023	4.49	6/22/2026	100.68771	100.540088	100.3929109	100.2461758	100.0998806	99.95402338	99.80860212	99.66361483	99.51905957
230622A00028	6/22/2023	4.35	6/22/2027	105.11553	103.934873	102.7808289	101.6525053	100.549048	99.46964017	98.41350064	97.37988165	96.36806723
230622A00030	6/22/2023	4.17	6/22/2028	108.94246	106.7292955	104.5727121	102.4708597	100.4219654	98.42432808	96.47631513	94.57635883	92.72295327
230622A00039	6/26/2023	4.49	6/26/2026	100.73957	100.5807632	100.4224585	100.2646575	100.1073578	99.950557	99.79425282	99.63844283	99.48312471
230622A00047	6/22/2023	4.49	6/22/2026	100.68771	100.540088	100.3929109	100.2461758	100.0998806	99.95402338	99.80860212	99.66361483	99.51905957
230622A00056	6/26/2023	4.49	6/26/2026	100.73957	100.5807632	100.4224585	100.2646575	100.1073578	99.950557	99.79425282	99.63844283	99.48312471
230622A00083	6/22/2023	4.55	6/22/2026	100.69655	100.5489155	100.4017286	100.2549836	100.1086786	99.96281155	99.81738051	99.67238348	99.52781849
230622A00093	6/22/2023	4.55	6/22/2026	100.69655	100.5489155	100.4017286	100.2549836	100.1086786	99.96281155	99.81738051	99.67238348	99.52781849
230622A00095	6/22/2023	4.38	6/22/2027	105.15039	103.969514	102.815258	101.6867258	100.5830631	99.50345302	98.44711428	97.41329905	96.40129128
230622A00096	6/22/2023	4.21	6/22/2028	109.02957	106.8154445	104.6579163	102.5551381	100.5053366	98.50681024	96.55792575	94.65711494	92.80287144
230623A00002	6/23/2023	4.45	6/23/2026	100.69467	100.5442617	100.3943102	100.2448159	100.0957767	99.94719034	99.79905491	99.65136828	99.5041284
230623A00003	6/23/2023	4.29	6/23/2027	105.05756	103.874469	102.7181095	101.5875832	100.4820302	99.40062841	98.34259146	97.30716692	96.29363432
230623A00004	6/23/2023	4.13	6/23/2028	108.86668	106.6515229	104.493057	102.389424	100.3388456	98.33961586	96.39009742	94.48871818	92.63396808
230623A00026	6/23/2023	4.29	6/23/2027	105.05756	103.874469	102.7181095	101.5875832	100.4820302	99.40062841	98.34259146	97.30716692	96.29363432
230623A00027	6/23/2023	4.13	6/23/2028	108.86668	106.6515229	104.493057	102.389424	100.3388456	98.33961586	96.39009742	94.48871818	92.63396808
230623A00036	6/23/2023	4.45	6/23/2026	100.69467	100.5442617	100.3943102	100.2448159	100.0957767	99.94719034	99.79905491	99.65136828	99.5041284
230623A00037	6/23/2023	4.13	6/23/2028	108.86668	106.6515229	104.493057	102.389424	100.3388456	98.33961586	96.39009742	94.48871818	92.63396808

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230623A00051	6/23/2023	4.18	6/23/2028	108.97571	106.7593448	104.5996949	102.4949019	100.4431867	98.4428429	96.49223236	94.5897824	92.73398236
230623A00053	6/23/2023	4.4	6/23/2026	100.69607	100.5455684	100.3955235	100.2459371	100.096807	99.94813117	99.79990746	99.65213379	99.50480809
230623A00056	6/23/2023	4.18	6/23/2028	108.97571	106.7593448	104.5996949	102.4949019	100.4431867	98.4428429	96.49223236	94.5897824	92.73398236
230623A00057	6/23/2023	4.52	6/23/2026	100.70518	100.5547545	100.4047911	100.2552849	100.1062338	99.95763564	99.8094884	99.66178998	99.51453834
230623A00058	6/23/2023	4.38	6/23/2027	105.16238	103.9786391	102.821641	101.690486	100.584314	99.50230258	98.4436653	97.40764939	96.39353418
230626A00020	6/26/2023	4.49	6/26/2026	100.73957	100.5807632	100.4224585	100.2646575	100.1073578	99.950557	99.79425282	99.63844283	99.48312471
230626A00021	6/26/2023	4.49	6/26/2026	100.73957	100.5807632	100.4224585	100.2646575	100.1073578	99.950557	99.79425282	99.63844283	99.48312471
230626A00022	6/26/2023	4.34	6/25/2027	105.13956	103.95037	102.7881729	101.6520536	100.5411403	99.45459967	98.39163492	97.35148355	96.33341569
230626A00023	6/26/2023	4.18	6/26/2028	109.01011	106.7848775	104.6167345	102.5038125	100.444315	98.43651879	96.47877038	94.56948225	92.70712988
230627A00004	6/27/2023	4.47	6/29/2026	100.77514	100.6079336	100.4412822	100.2751825	100.1096317	99.94462719	99.78016627	99.61624625	99.45286449
230627A00005	6/27/2023	4.3	6/28/2027	105.12806	103.9305615	102.7604277	101.6167269	100.4985697	99.40510623	98.33552394	97.28904567	96.26492765
230627A00006	6/27/2023	4.12	6/27/2028	108.89008	106.6633498	104.4938102	102.3795839	100.3188697	98.30993966	96.35113568	94.44086618	92.57760267
230627A00030	6/27/2023	4.17	6/27/2028	108.99967	106.7717143	104.6009787	102.4855809	100.4237188	98.41366364	96.4537569	94.54240627	92.67808268
230627A00035	6/27/2023	4.21	6/27/2028	109.08734	106.8584059	104.6867136	102.5703785	100.507598	98.49664283	96.53585387	94.62363834	92.75846668
230627A00036	6/27/2023	4.38	6/28/2027	105.22234	104.0242552	102.8535404	101.7092676	100.5905474	99.49652967	98.42640159	97.37938578	96.35473827
230627A00037	6/27/2023	4.56	6/26/2026	100.75066	100.5918383	100.4335203	100.2757061	100.1183932	99.9615793	99.80526199	99.64943893	99.49410776
230627A00090	6/27/2023	4.21	6/27/2028	109.08734	106.8584059	104.6867136	102.5703785	100.507598	98.49664283	96.53585387	94.62363834	92.75846668
230628A00016	6/28/2023	4.58	6/26/2026	100.75383	100.5950026	100.4366808	100.2788628	100.1215462	99.96472852	99.80840747	99.65258067	99.49724578
230628A00017	6/28/2023	4.41	6/28/2027	105.2577	104.0593904	102.8884576	101.7439704	100.6250391	99.53081346	98.4604807	97.41326332	96.38841726
230628A00018	6/28/2023	4.23	6/28/2028	109.14278	106.9103965	104.7353907	102.6158738	100.5500369	98.53614507	96.57253363	94.65760463	92.7898236
230628A00038	6/28/2023	4.58	6/24/2026	100.7274	100.574167	100.4214112	100.2691279	100.117315	99.96597028	99.81509157	99.66467669	99.51472351
230628A00045	6/28/2023	4.18	6/28/2028	109.03305	106.8018964	104.6280895	102.509747	100.445061	98.43229693	96.46979095	94.55594569	92.68922729
230628A00061	6/28/2023	4.47	6/26/2026	100.73641	100.5775989	100.4192979	100.2615007	100.1042048	99.94740778	99.79110734	99.63530109	99.4799867
230628A00063	6/28/2023	4.47	6/29/2026	100.77514	100.6079336	100.4412822	100.2751825	100.1096317	99.94462719	99.78016627	99.61624625	99.45286449
230628A00068	6/28/2023	4.29	6/28/2027	105.11627	103.9188498	102.7487887	101.6051594	100.4870725	99.3936783	98.32416424	97.27775316	96.25370132
230629A00008	6/29/2023	4.34	6/29/2028	109.39608	107.1580393	104.9775538	102.8527332	100.7817611	98.76289547	96.79446495	94.87486525	93.00255591
230629A00019	6/29/2023	4.51	6/24/2027	105.32614	104.1385885	102.977921	101.8432306	100.7336509	99.64835372	98.58654693	97.54747256	96.53040496
230629A00025	6/29/2023	4.7	6/24/2026	100.74574	100.5924875	100.4397104	100.287406	100.1355721	99.9842063	99.83330661	99.68287081	99.53289675
230629A00037	6/29/2023	4.69	6/29/2026	100.81182	100.6445707	100.4778732	100.3117275	100.1461309	99.98108065	99.81657413	99.65260863	99.48918153
230629A00042	6/29/2023	4.69	6/29/2026	100.81182	100.6445707	100.4778732	100.3117275	100.1461309	99.98108065	99.81657413	99.65260863	99.48918153
230629A00045	6/29/2023	4.69	6/29/2026	100.81182	100.6445707	100.4778732	100.3117275	100.1461309	99.98108065	99.81657413	99.65260863	99.48918153
230629A00046	6/29/2023	4.51	6/29/2027	105.38791	104.1859857	103.0115775	101.8637469	100.7415977	99.64427385	98.57095707	97.52086458	96.49324736
230629A00071	6/29/2023	4.41	6/29/2028	109.6966	107.4199441	105.2032337	103.0444347	100.9415999	98.89286508	96.89644439	94.95062638	93.0537702

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230629A00072	6/29/2023	4.69	6/29/2026	100.81182	100.6445707	100.4778732	100.3117275	100.1461309	99.98108065	99.81657413	99.65260863	99.48918153
230629A00076	6/29/2023	4.51	6/29/2027	105.38791	104.1859857	103.0115775	101.8637469	100.7415977	99.64427385	98.57095707	97.52086458	96.49324736
230629A00094	6/29/2023	4.41	6/29/2028	109.6966	107.4199441	105.2032337	103.0444347	100.9415999	98.89286508	96.89644439	94.95062638	93.0537702
230629A00097	6/29/2023	4.41	6/29/2028	109.6966	107.4199441	105.2032337	103.0444347	100.9415999	98.89286508	96.89644439	94.95062638	93.0537702
230630A00003	6/30/2023	4.54	6/30/2027	105.43579	104.2307743	103.053407	101.9027407	100.7778734	99.67794335	98.60212684	97.54963608	96.51971728
230630A00028	6/30/2023	4.42	6/30/2027	105.36582	104.1601514	102.9821608	101.830906	100.7054832	99.60502905	98.52871821	97.47576148	96.44540371
230630A00030	6/30/2023	4.23	6/30/2028	109.30222	107.0597247	104.8750122	102.7461751	100.671387	98.64889599	96.67702178	94.75415144	92.87873636
230630A00043	6/30/2023	4.6	6/30/2026	100.82018	100.6500335	100.4804632	100.3114625	100.1430285	99.97515842	99.80784936	99.64109857	99.47490326
230630A00046	6/30/2023	4.6	6/30/2026	100.82018	100.6500335	100.4804632	100.3114625	100.1430285	99.97515842	99.80784936	99.64109857	99.47490326
230630A00055	6/30/2023	4.35	6/30/2028	109.43	107.1887461	105.0051869	102.8774194	100.8036212	98.78204475	96.81101323	94.88891728	93.01421166
230630A00062	6/30/2023	4.6	6/30/2026	100.82018	100.6500335	100.4804632	100.3114625	100.1430285	99.97515842	99.80784936	99.64109857	99.47490326
230630A00079	6/30/2023	4.65	6/30/2026	100.81856	100.648528	100.4790642	100.3101684	100.1418378	99.9740696	99.80686098	99.64020918	99.47411144
230630A00086	6/30/2023	4.72	6/30/2026	100.83043	100.6603794	100.4909006	100.3219899	100.1536444	99.9858613	99.81863785	99.65197125	99.48585876
230630A00088	6/30/2023	4.54	6/30/2027	105.43579	104.2307743	103.053407	101.9027407	100.7778734	99.67794335	98.60212684	97.54963608	96.51971728
230630A00094	6/30/2023	4.42	6/30/2027	105.36582	104.1601514	102.9821608	101.830906	100.7054832	99.60502905	98.52871821	97.47576148	96.44540371
230703A00013	7/3/2023	4.34	7/3/2028	109.44267	107.1930687	105.0015412	102.8661707	100.7851167	98.75661441	96.77897105	94.85056211	92.96982807
230703A00015	7/3/2023	4.34	7/3/2028	109.44267	107.1930687	105.0015412	102.8661707	100.7851167	98.75661441	96.77897104	94.85056211	92.96982807
230703A00018	7/3/2023	4.61	7/3/2026	100.86225	100.6837214	100.5058323	100.3285762	100.1519498	99.97594968	99.80057245	99.62581482	99.45167346
230703A00019	7/3/2023	4.61	7/3/2026	100.86225	100.6837214	100.5058323	100.3285762	100.1519498	99.97594968	99.80057245	99.62581482	99.45167346
230703A00025	7/3/2023	4.73	7/3/2026	100.87301	100.6945828	100.5167899	100.3396285	100.1630952	99.98718656	99.81189933	99.63723017	99.46317582
230703A00043	7/3/2023	4.53	7/6/2027	105.49653	104.2744408	103.0807796	101.9145635	100.7748522	99.66074809	98.57139367	97.50596939	96.46369155
230705A00034	7/5/2023	4.75	7/6/2026	100.91762	100.730807	100.5446927	100.3592746	100.1745488	99.99051129	99.80715828	99.62448588	99.44249026
230705A00040	7/5/2023	4.38	7/5/2028	109.55435	107.29801	105.1000325	102.9584794	100.8714973	98.83730961	96.854212	94.92056928	93.03481176
230705A00042	7/5/2023	4.42	7/5/2028	109.6429	107.38557	105.186617	103.0441084	100.9561902	98.92108517	96.93708848	95.00256442	93.11594281
230705A00103	7/5/2023	4.56	7/6/2027	105.53256	104.310235	103.1163481	101.9499099	100.8099801	99.6956609	98.60609471	97.54046192	96.49797875
230706A00006	7/6/2023	4.59	7/6/2028	110.03152	107.767068	105.5612169	103.4120192	101.3176125	99.27621127	97.28610297	95.34564458	93.45325893
230706A00014	7/6/2023	4.99	7/6/2038	149.38591	135.4670454	123.0779591	112.0384282	102.1905074	93.39566499	85.53229834	78.49357842	72.18557948
230707A00021	9/1/2023	4.61	8/30/2030	119.6329	114.9919422	110.5623656	106.3334211	102.2949575	98.43738888	94.75166069	91.22921728	87.86197204
230707A00022	9/1/2023	4.61	8/30/2030	119.6329	114.9919422	110.5623656	106.3334211	102.2949575	98.43738888	94.75166069	91.22921728	87.86197204
230707A00023	9/1/2023	4.61	8/30/2030	119.6329	114.9919422	110.5623656	106.3334211	102.2949575	98.43738888	94.75166069	91.22921728	87.86197204
230710A00013	7/10/2023	4.55	7/10/2029	114.44319	111.0800945	107.8356209	104.7048583	101.6831305	98.76598519	95.94918175	93.22867933	90.60062612
230711A00013	7/11/2023	4.78	7/13/2026	101.01959	100.8131825	100.6076351	100.4029405	100.1990933	99.99608815	99.79391982	99.59258304	99.3920726
230712A00002	7/12/2023	4.31	7/12/2028	109.47969	107.2050247	104.9895936	102.8314227	100.7286166	98.67935886	96.68190799	94.73459365	92.83581306

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230712A00014	7/12/2023	4.62	7/13/2026	100.98668	100.7803255	100.5748244	100.3701759	100.1663746	99.9634153	99.76129263	99.56000136	99.3595363
230712A00015	7/12/2023	4.62	7/13/2026	100.98668	100.7803255	100.5748244	100.3701759	100.1663746	99.9634153	99.76129263	99.56000136	99.3595363
230712A00016	7/12/2023	4.45	7/12/2027	105.47172	104.2330796	103.0236542	101.8424146	100.688382	99.5606226	98.45824489	97.38039738	96.32626631
230712A00017	7/12/2023	4.45	7/12/2027	105.47172	104.2330796	103.0236542	101.8424146	100.688382	99.5606226	98.45824489	97.38039738	96.32626631
230712A00018	7/12/2023	4.31	7/12/2028	109.47969	107.2050247	104.9895936	102.8314227	100.7286166	98.67935886	96.68190799	94.73459365	92.83581306
230712A00019	7/12/2023	4.31	7/12/2028	109.47969	107.2050247	104.9895936	102.8314227	100.7286166	98.67935886	96.68190799	94.73459365	92.83581306
230712A00020	7/12/2023	4.31	7/12/2028	109.47969	107.2050247	104.9895936	102.8314227	100.7286166	98.67935886	96.68190799	94.73459365	92.83581306
230712A00021	7/12/2023	4.31	7/12/2028	109.47969	107.2050247	104.9895936	102.8314227	100.7286166	98.67935886	96.68190799	94.73459365	92.83581306
230712A00039	7/12/2023	4.62	7/13/2026	100.98668	100.7803255	100.5748244	100.3701759	100.1663746	99.9634153	99.76129263	99.56000136	99.3595363
230712A00040	7/12/2023	4.45	7/12/2027	105.47172	104.2330796	103.0236542	101.8424146	100.688382	99.5606226	98.45824489	97.38039738	96.32626631
230712A00041	7/12/2023	4.31	7/12/2028	109.47969	107.2050247	104.9895936	102.8314227	100.7286166	98.67935886	96.68190799	94.73459365	92.83581306
230712A00046	7/12/2023	4.52	7/13/2026	100.96612	100.75979	100.5543177	100.349698	100.1459255	99.94299477	99.74090064	99.53963781	99.33920111
230712A00051	7/12/2023	4.62	7/13/2026	100.98668	100.7803255	100.5748244	100.3701759	100.1663746	99.9634153	99.76129263	99.56000136	99.3595363
230712A00056	7/12/2023	4.22	7/12/2028	109.2787	107.0063055	104.7931063	102.6371215	100.536457	98.48929754	96.49390304	94.5486043	92.65179968
230713A00014	7/13/2023	4.2	7/13/2028	109.2452	106.9704511	104.7550158	102.5969094	100.4942321	98.445163	96.44795681	94.50093942	92.60250458
230713A00019	7/13/2023	4.51	7/13/2026	100.95389	100.7476867	100.5423391	100.3378424	100.1341911	99.93138001	99.72940379	99.52825726	99.32793524
230713A00021	7/13/2023	4.44	7/13/2026	100.94967	100.7433615	100.5379124	100.3333157	100.1295661	99.92665835	99.72458704	99.52334698	99.32293296
230713A00023	7/13/2023	4.2	7/13/2028	109.2452	106.9704511	104.7550158	102.5969094	100.4942321	98.445163	96.44795681	94.50093942	92.60250458
230713A00026	7/13/2023	4.49	7/13/2026	100.95995	100.7536293	100.5481657	100.3435546	100.1397907	99.93686861	99.73478304	99.53352875	99.33310055
230713A00058	7/13/2023	4.08	7/13/2028	109.11515	106.8391452	104.6225435	102.4633571	100.3596815	98.30969215	96.31163954	94.36384598	92.46470171
230714A00020	7/14/2023	4.52	7/14/2026	100.97917	100.770038	100.5617903	100.3544181	100.1479159	99.94227805	99.73749909	99.53357358	99.3304961
230714A00022	7/14/2023	4.36	7/14/2027	105.38539	104.141745	102.9275622	101.741805	100.5834819	99.45164728	98.34539835	97.26387307	96.20624778
230714A00023	7/14/2023	4.18	7/14/2028	109.21159	106.9344876	104.7168182	102.5565924	100.4519044	98.40092795	96.40191239	94.45317875	92.55311612
230714A00026	7/14/2023	4.18	7/14/2028	109.21159	106.9344876	104.7168182	102.5565924	100.4519044	98.40092795	96.40191239	94.45317875	92.55311612
230714A00030	7/14/2023	4.52	7/17/2026	101.01831	100.800779	100.584202	100.3685705	100.1538781	99.94011855	99.72728583	99.51537379	99.30437639
230714A00034	7/14/2023	4.37	7/16/2027	105.42093	104.1714787	102.9517633	101.7607266	100.597364	99.46071748	98.34987268	97.26395669	96.20213559
230714A00036	7/14/2023	4.37	7/12/2030	118.04439	113.5746231	109.3034569	105.2209229	101.3176095	97.58463126	94.01359559	90.59657268	87.3260669
230714A00042	7/14/2023	4.58	7/14/2026	100.99167	100.7825257	100.5742602	100.3668704	100.1603505	99.95469507	99.74989859	99.54595561	99.34286072
230717A00022	7/17/2023	4.59	7/17/2026	101.03348	100.81593	100.5993309	100.3836772	100.1689627	99.95518124	99.74232661	99.53039273	99.31937357
230717A00088	7/17/2023	4.43	7/19/2027	105.5301	104.271577	103.043199	101.8438865	100.6726149	99.52840731	98.4103319	97.31749912	96.24905949
230718A00013	7/18/2023	4.54	7/17/2026	101.02264	100.8051078	100.5885246	100.3728867	100.158188	99.94442218	99.73158319	99.51966492	99.3086613
230718A00014	7/18/2023	4.37	7/19/2027	105.45588	104.1978477	102.9699474	101.7711046	100.6002951	99.45654215	98.3389141	97.24652163	96.17851541
230718A00015	7/18/2023	4.19	7/18/2028	109.27854	106.9897264	104.7608767	102.589977	100.4750964	98.41438503	96.40606999	94.44845135	92.53989844

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230718A00016	7/18/2023	4.54	7/17/2026	101.02264	100.8051078	100.5885246	100.3728867	100.158188	99.94442218	99.73158319	99.51966492	99.3086613
230718A00023	7/18/2023	4.54	7/20/2026	101.06195	100.8360104	100.6110931	100.3871924	100.1643014	99.94241321	99.72152105	99.50161813	99.28269776
230718A00038	7/18/2023	4.46	11/13/2026	102.52603	101.9736367	101.4272081	100.8866524	100.3518749	99.82278312	99.29928654	98.78129649	98.2687262
230718A00065	7/18/2023	4.3	7/18/2033	115.36294	111.4378394	107.711071	104.1705732	100.805118	97.60424555	94.5582056	91.65790476	88.89485743
230718A00070	7/18/2023	4.06	7/18/2028	109.12518	106.8353546	104.6055841	102.4338457	100.3182043	98.25680599	96.24787401	94.28970481	92.38066435
230718A00093	7/18/2023	4.06	7/18/2028	109.12518	106.8353546	104.6055841	102.4338457	100.3182043	98.25680599	96.24787401	94.28970481	92.38066435
230719A00015	7/19/2023	4.37	7/19/2027	105.45588	104.1978477	102.9699474	101.7711046	100.6002951	99.45654215	98.3389141	97.24652163	96.17851541
230719A00034	7/19/2023	4.19	7/19/2028	109.28968	106.998001	104.7664176	102.59291	100.4755409	98.41245448	96.40187242	94.44208952	92.53147019
230719A00081	12/16/2024	3.6	12/18/2026	102.40118	101.7518299	101.1107224	100.4777051	99.85262537	99.2353343	98.62568672	98.02354104	97.42875915
230720A00037	7/20/2023	4.55	7/20/2026	101.07756	100.8514532	100.6263698	100.4023054	100.1792531	99.95720587	99.73615694	99.51609949	99.29702677
230720A00038	7/20/2023	4.55	7/20/2026	101.07756	100.8514532	100.6263698	100.4023054	100.1792531	99.95720587	99.73615694	99.51609949	99.29702677
230720A00039	7/20/2023	4.68	7/20/2026	101.09347	100.8674766	100.6425116	100.4185635	100.1956253	99.97368999	99.7527509	99.53280121	99.31383423
230721A00003	7/21/2023	4.67	7/21/2026	101.10468	100.8758891	100.6481475	100.4214468	100.1957798	99.97113935	99.74751844	99.52491006	99.30330729
230721A00006	7/21/2023	4.32	7/21/2028	109.60554	107.3047598	105.064414	102.8824637	100.7569574	98.68602536	96.66787632	94.70079282	92.78312768
230721A00029	7/21/2023	4.67	7/21/2026	101.10468	100.8758891	100.6481475	100.4214468	100.1957798	99.97113935	99.74751844	99.52491006	99.30330729
230721A00038	7/21/2023	4.67	7/21/2026	101.10468	100.8758891	100.6481475	100.4214468	100.1957798	99.97113935	99.74751844	99.52491006	99.30330729
230724A00037	7/24/2023	4.29	7/24/2028	109.57204	107.2634175	105.0156084	102.8265586	100.6942978	98.61693912	96.59267489	94.61977224	92.69656953
230724A00064	7/24/2023	4.53	7/19/2027	105.65379	104.394459	103.165285	101.9651896	100.7931478	99.64818258	98.52936156	97.43579496	96.36663295
230724A00065	7/24/2023	4.37	7/18/2028	109.68353	107.3900936	105.1567155	102.9813807	100.8621557	98.79718797	96.78470204	94.82299557	92.91043554
230724A00066	7/24/2023	4.71	8/18/2026	101.4943	101.1869266	100.8814242	100.5777805	100.2759785	99.97600127	99.67783226	99.38145503	99.08685336
230725A00016	7/25/2023	4.75	7/31/2026	101.25978	101.002897	100.747314	100.493021	100.2400084	99.98826644	99.73778568	99.48855668	99.24057011
230725A00018	7/25/2023	4.4	7/25/2028	109.83309	107.5187156	105.2653505	103.0709297	100.9334749	98.85109177	96.82196524	94.84435573	92.91659512
230725A00023	7/25/2023	4.57	4/9/2027	104.43938	103.4691068	102.5169227	101.5823253	100.6648299	99.76396942	98.87929353	98.01036821	97.15677477
230725A00028	7/25/2023	4.46	7/25/2030	118.57274	114.0555658	109.7404084	105.6170556	101.675871	97.9077609	94.30414034	90.85690121	87.55838279
230725A00071	7/25/2023	4.4	7/25/2028	109.83309	107.5187156	105.2653505	103.0709297	100.9334749	98.85109177	96.82196524	94.84435573	92.91659512
230726A00011	7/26/2023	4.24	7/26/2028	109.62209	107.3045986	105.0483205	102.8511819	100.7111941	98.62645309	96.59513465	94.61549061	92.68584477
230726A00012	7/26/2023	4.24	7/26/2028	109.62209	107.3045986	105.0483205	102.8511819	100.7111941	98.62645309	96.59513465	94.61549061	92.68584477
230726A00023	7/26/2023	4.24	7/26/2028	109.62209	107.3045986	105.0483205	102.8511819	100.7111941	98.62645309	96.59513465	94.61549061	92.68584477
230727A00016	7/27/2023	4.51	7/27/2033	129.6201	121.6755085	114.2938812	107.4319308	101.049936	95.11142602	89.58289736	84.43355679	79.63508797
230727A00020	7/27/2023	4.39	7/27/2028	109.83379	107.5139071	105.2553007	103.0558877	100.913677	98.82676262	96.79331835	94.81159413	92.87991198
230727A00033	7/27/2023	4.82	7/27/2026	101.64922	101.3171718	100.9872975	100.6595788	100.3339945	100.0105238	99.68914614	99.3698412	99.05258895
230727A00037	7/27/2023	4.82	7/27/2026	101.64922	101.3171718	100.9872975	100.6595788	100.3339945	100.0105238	99.68914614	99.3698412	99.05258895
230727A00063	7/27/2023	4.38	7/27/2028	109.95226	107.6282001	105.3655696	103.1622808	101.0163366	98.92582456	96.88891306	94.90384655	92.96894194

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230727A00070	7/27/2023	4.75	7/27/2026	101.20503	100.9593705	100.7149062	100.4716305	100.2295349	99.98861063	99.7488493	99.51024246	99.27278178
230727A00073	7/27/2023	4.81	7/27/2026	101.21971	100.9740198	100.7295316	100.4862321	100.2441127	100.0031649	99.76337998	99.52474969	99.28726564
230727A00075	7/27/2023	4.5	7/27/2028	110.08403	107.7612595	105.4998255	103.2976434	101.1527207	99.06314962	97.02710234	95.04282729	93.10864501
230728A00004	7/28/2023	4.77	7/28/2026	101.22367	100.9751869	100.7279302	100.4818872	100.2370492	99.99340734	99.75095277	99.50967688	99.26957108
230728A00005	7/28/2023	4.59	7/28/2027	105.83836	104.5526893	103.2983923	102.0743283	100.8794122	99.71260993	98.57293623	97.45945123	96.37125813
230728A00006	7/28/2023	4.46	7/28/2028	110.00492	107.6803138	105.4171546	103.2133535	101.0669122	98.97591744	96.93853644	94.95301285	93.01766272
230731A00012	7/31/2023	4.5	7/31/2029	114.52676	111.1040437	107.8038329	104.6209728	101.5505624	98.58793988	95.72866877	92.96852544	90.30348727
230731A00037	7/31/2023	4.74	7/31/2026	101.25722	101.0003446	100.7447659	100.4904772	100.2374689	99.98573116	99.73525464	99.48602987	99.2380475
230801A00021	8/1/2023	4.49	8/1/2028	110.12115	107.7842155	105.5092818	103.2942378	101.1370636	99.03582529	96.98867052	94.99382406	93.04958395
230801A00022	8/1/2023	4.65	8/2/2027	105.97493	104.6755594	103.4074911	102.169594	100.9607956	99.78007359	98.62645336	97.499005	96.39684083
230801A00024	8/1/2023	4.82	8/3/2026	101.31938	101.0540637	100.790137	100.5275917	100.266417	100.0066022	99.7481367	99.49100992	99.23521149
230802A00017	8/2/2023	4.79	8/3/2026	101.31146	101.0461571	100.7822439	100.5197122	100.258551	99.99874961	99.74029745	99.48318398	99.22739881
230802A00022	9/8/2023	4.41	9/8/2028	110.38708	107.941784	105.5637716	103.2508175	101.0007842	98.81161662	96.68133904	94.60805106	92.58992449
230802A00023	10/16/2023	4.37	10/16/2028	110.73839	108.1824682	105.6997188	103.2876237	100.9437662	98.66582708	96.45158023	94.29888839	92.20569886
230804A00030	8/4/2023	4.88	8/4/2027	103.53577	102.812502	102.1020726	101.4041035	100.7182324	100.0441119	99.38140869	98.72980249	98.08898568
230807A00010	8/7/2023	4.4	8/7/2028	109.98555	107.6337125	105.3446332	103.1161945	100.9463662	98.83320279	96.77483932	94.76948697	92.8154295
230807A00018	8/7/2023	4.65	8/7/2026	101.32822	101.0517674	100.7768307	100.5033991	100.2314601	99.96100149	99.6920111	99.42447691	99.15838708
230807A00025	8/7/2023	4.69	8/7/2026	101.33923	101.0627529	100.7877969	100.514346	100.2423878	99.97191	99.70290054	99.43534737	99.16923862
230807A00033	8/7/2023	4.57	8/7/2026	101.32253	101.0459006	100.770796	100.4971995	100.2250987	99.95448118	99.68533475	99.41764737	99.15140711
230808A00014	8/8/2023	4.6	8/7/2026	101.31447	101.0380354	100.763123	100.4897155	100.2178006	99.94736587	99.6783993	99.4108885	99.14482265
230808A00029	8/8/2023	4.6	8/7/2026	101.31447	101.0380354	100.763123	100.4897155	100.2178006	99.94736587	99.6783993	99.4108885	99.14482265
230808A00054	8/8/2023	4.19	8/8/2028	109.6556	107.3020022	105.0113466	102.7815078	100.6104504	98.49622375	96.43695751	94.43085774	92.47620306
230808A00057	8/8/2023	4.19	8/8/2028	109.6556	107.3020022	105.0113466	102.7815078	100.6104504	98.49622375	96.43695751	94.43085774	92.47620306
230808A00060	8/8/2023	4.19	8/8/2028	109.6556	107.3020022	105.0113466	102.7815078	100.6104504	98.49622375	96.43695751	94.43085774	92.47620306
230809A00020	8/9/2023	4.51	11/9/2026	102.50337	101.9621875	101.4267303	100.8969113	100.3726416	99.85383419	99.34040375	98.83226683	98.3293417
230809A00026	8/9/2023	4.59	8/7/2026	101.31171	101.035289	100.7603815	100.4869788	100.2150687	99.94463874	99.67567694	99.40817124	99.14210977
230809A00034	8/9/2023	4.59	8/10/2026	101.35151	101.0666656	100.783439	100.501812	100.2217707	99.94330187	99.66639206	99.39102813	99.11719707
230810A00010	8/10/2023	4.62	8/10/2026	101.36001	101.0751541	100.7919123	100.51027	100.2302136	99.95172959	99.67480473	99.39942582	99.12557985
230810A00013	8/10/2023	4.34	8/10/2028	109.88192	107.5230551	105.2273209	102.9925957	100.8168443	98.69811563	96.63453839	94.6243171	92.66572842
230810A00024	8/10/2023	4.34	8/7/2028	109.84723	107.4970037	105.2095068	102.9826174	100.8143062	98.70262882	96.64572107	94.64179506	92.68913536
230810A00025	8/10/2023	4.37	5/8/2028	108.84585	106.7590084	104.7234593	102.7376078	100.7999212	98.90892543	97.06320211	95.26138591	93.50216225
230810A00026	8/10/2023	4.4	1/10/2028	107.48906	105.7485781	104.0450622	102.3774015	100.7445279	99.14541588	97.57908055	96.04457536	94.54099035
230810A00057	8/10/2023	4.62	8/10/2026	101.36001	101.0751541	100.7919123	100.51027	100.2302136	99.95172959	99.67480473	99.39942582	99.12557985

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230811A00017	8/11/2023	4.78	8/11/2026	101.41916	101.1314104	100.8453114	100.560844	100.2779943	99.99674839	99.71709253	99.43901317	99.16249691
230814A00028	8/14/2023	4.86	8/14/2026	101.4841	101.1878823	100.8934095	100.600665	100.3096335	100.0202999	99.73264919	99.44666672	99.16233784
230814A00029	8/14/2023	4.71	2/12/2027	103.84126	103.030213	102.2318738	101.4459473	100.6721451	99.91018768	99.15980411	98.42073161	97.69271537
230815A00037	8/15/2023	4.53	8/15/2028	110.38199	108.0034913	105.6889165	103.4361303	101.243084	99.10781239	97.02842893	95.00312253	93.03015365
230815A00038	8/15/2023	4.57	8/16/2027	106.11486	104.7823265	103.4777123	102.2001414	100.9487765	99.72281516	98.52148795	97.34405675	96.18981309
230817A00036	8/17/2023	4.91	8/17/2026	101.54129	101.2366085	100.9337698	100.6327574	100.3335547	100.0361453	99.74051301	99.44664177	99.1545158
230817A00054	5/17/2024	4.5	5/15/2026	100.19745	100.1557084	100.1140183	100.0723806	100.0307953	99.98926221	99.94778125	99.90635231	99.8649753
230818A00007	8/18/2023	4.73	8/18/2026	101.51855	101.2109182	100.9051692	100.6012826	100.2992415	99.99902895	99.7006282	99.4040228	99.10919646
230818A00024	8/18/2023	4.81	8/18/2026	101.52487	101.2174378	100.9118769	100.608175	100.3063151	100.0062802	99.70805378	99.4116194	99.11696083
230818A00025	8/18/2023	4.68	8/18/2027	106.20299	104.866685	103.5577659	102.2754024	101.0187933	99.78717014	98.57979525	97.39596018	96.23498428
230818A00065	8/18/2023	4.82	8/18/2026	101.52793	101.2204889	100.9149222	100.6112145	100.3093487	100.0093081	99.71107594	99.41463584	99.11997158
230821A00006	8/21/2023	4.66	8/21/2028	110.75929	108.3597787	106.0250956	103.7530897	101.5416972	99.38893673	97.29290475	95.25177229	93.26378137
230823A00036	8/23/2023	4.87	8/24/2026	101.62748	101.3031104	100.9808219	100.6605933	100.342405	100.0262373	99.71207096	99.39988702	99.08966666
230823A00066	8/23/2023	4.68	8/23/2027	106.26229	104.9144927	103.5928661	102.296669	101.0251878	99.77773541	98.55365071	97.35229682	96.17306018
230824A00008	8/24/2023	4.69	8/24/2028	109.73455	107.5804348	105.4842285	103.4440074	101.4579279	99.52421911	97.64117902	95.80717175	94.02062437
230824A00031	8/24/2023	4.49	8/24/2028	110.54308	108.1348998	105.792034	103.5123223	101.2936905	99.13414609	97.03177432	94.98473474	92.99125772
230824A00043	8/24/2023	4.89	8/24/2026	101.63393	101.3095449	100.9872435	100.6670021	100.3488009	100.0326204	99.71844143	99.40624486	99.09601193
230824A00061	8/24/2023	4.61	8/24/2028	110.67901	108.2721759	105.9305508	103.6519834	101.4344044	99.27582587	97.17433747	95.12810288	93.13535639
230825A00009	8/25/2023	4.91	8/25/2026	101.65453	101.3273159	101.0022171	100.6792124	100.3582816	100.0394046	99.72256181	99.40773367	99.09490099
230825A00010	8/25/2023	4.62	8/25/2028	110.71488	108.3048528	105.960184	103.6787154	101.4583755	99.29717357	97.19319667	95.14460557	93.14963156
230825A00037	8/25/2023	4.91	8/25/2026	101.65453	101.3273159	101.0022171	100.6792124	100.3582816	100.0394046	99.72256181	99.40773367	99.09490099
230825A00043	8/25/2023	4.89	8/25/2026	101.64803	101.320826	100.9957404	100.6727488	100.3518309	100.032967	99.71613704	99.40132175	99.08850185
230828A00036	8/28/2023	4.8	8/28/2026	101.68009	101.3442284	101.0105874	100.6791475	100.3498869	100.0227841	99.69781804	99.37496771	99.05421249
230828A00047	8/28/2023	4.92	8/28/2026	101.70033	101.3646499	101.0311876	100.6999225	100.3708329	100.0438973	99.71909471	99.39640422	99.07580529
230828A00056	8/28/2023	4.92	8/28/2026	101.70033	101.3646499	101.0311876	100.6999225	100.3708329	100.0438973	99.71909471	99.39640422	99.07580529
230830A00028	8/30/2023	4.45	8/30/2027	106.11649	104.7529241	103.4138411	102.0986301	100.8067005	99.53748096	98.29041846	97.0649777	95.8606403
230830A00029	8/30/2023	4.45	8/30/2027	106.11649	104.7529241	103.4138411	102.0986301	100.8067005	99.53748096	98.29041846	97.0649777	95.8606403
230830A00034	8/30/2023	4.44	8/30/2028	110.35012	107.9306722	105.5771656	103.2874385	101.0594111	98.89108377	96.78053322	94.72590928	92.72543158
230830A00051	8/30/2023	4.45	8/30/2027	106.11649	104.7529241	103.4138411	102.0986301	100.8067005	99.53748096	98.29041846	97.0649777	95.8606403
230830A00055	8/30/2023	4.47	8/30/2028	110.31202	107.9152076	105.5850768	103.3193811	101.1159632	98.97275155	96.88775616	94.85906478	92.88483949
230831A00001	8/31/2023	4.77	8/31/2026	101.6916	101.3475866	101.0058939	100.6665019	100.3293876	99.99452797	99.66190059	99.3314832	99.00325387
230831A00006	8/31/2023	4.61	8/31/2027	106.26221	104.8967027	103.5554073	102.2377358	100.9431165	99.67099554	98.42083655	97.1921197	95.98434119
230831A00007	8/31/2023	4.48	8/31/2028	110.45684	108.0333638	105.6759915	103.3825592	101.1509843	98.97926385	96.8654714	94.80775331	92.80432574

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230831A00016	8/31/2023	4.65	8/31/2026	101.67085	101.326648	100.9847721	100.645201	100.3079115	99.97288073	99.640086	99.30950501	98.98111577
230831A00041	8/31/2023	4.48	8/31/2028	110.45684	108.0333638	105.6759915	103.3825592	101.1509843	98.97926385	96.8654714	94.80775331	92.80432574
230831A00066	8/31/2023	4.77	8/31/2026	101.6916	101.3475866	101.0058939	100.6665019	100.3293876	99.99452797	99.66190059	99.3314832	99.00325387
230831A00069	8/31/2023	4.61	8/31/2027	106.26221	104.8967027	103.5554073	102.2377358	100.9431165	99.67099554	98.42083655	97.1921197	95.98434119
230831A00070	8/31/2023	4.48	8/31/2028	110.45684	108.0333638	105.6759915	103.3825592	101.1509843	98.97926385	96.8654714	94.80775331	92.80432574
230831A00079	8/30/2024	4.28	8/29/2031	121.88411	116.1530071	110.734214	105.6090174	100.7599239	96.17057098	91.82564755	87.71082171	83.81267313
230901A00007	9/1/2023	4.55	9/1/2027	106.19248	104.8246666	103.4811492	102.1613382	100.864659	99.59055492	98.33848666	97.10793184	95.89838411
230901A00037	9/1/2023	4.3	9/1/2028	110.18909	107.7630023	105.4032351	103.1076148	100.8740479	98.70052137	96.58509881	94.52591746	92.52118474
230901A00044	9/1/2023	4.55	9/1/2027	106.19248	104.8246666	103.4811492	102.1613382	100.864659	99.59055492	98.33848666	97.10793184	95.89838411
230905A00030	9/5/2023	4.55	9/5/2028	110.68499	108.2445992	105.8711156	103.5623385	101.3161488	99.13050935	97.00346093	94.93311899	92.91767027
230905A00033	9/5/2023	4.71	9/4/2026	101.74628	101.390775	101.0377651	100.687219	100.339111	99.99341572	99.65010801	99.30916316	98.97055675
230907A00051	9/7/2023	4.79	9/8/2026	101.83032	101.4634897	101.0993164	100.7377686	100.378818	100.0224365	99.66859655	99.31727082	98.96843248
230908A00009	9/8/2023	4.55	9/8/2028	110.75059	108.2921169	105.9028654	103.5804768	101.3226906	99.12733653	96.9923309	94.91567211	92.89543706
230908A00010	9/8/2023	4.73	9/9/2030	110.9656	108.5160732	106.1498475	103.8633872	101.6533338	99.51649462	97.44983421	95.45046511	93.51563968
230911A00010	9/11/2023	4.9	9/11/2026	101.89099	101.5159168	101.1436197	100.7740662	100.4072259	100.0430688	99.68156542	99.32268673	98.96640407
230912A00026	9/12/2023	4.84	9/14/2026	101.9104	101.5269266	101.1463494	100.7686393	100.393764	100.0216914	99.65239002	99.28582892	98.9219775
230912A00036	9/12/2023	4.57	9/12/2028	110.82006	108.3581595	105.9642614	103.6361037	101.3715174	99.16841772	97.02480072	94.93873919	92.90837946
230912A00053	9/12/2023	4.74	9/7/2027	106.52381	105.1367716	103.7746409	102.4368052	101.122669	99.8316558	98.56320741	97.31678316	96.09185925
230913A00013	9/13/2023	4.87	9/14/2026	101.92183	101.5383229	101.1577195	100.7799835	100.4050823	100.0329841	99.66365718	99.29707067	98.93319399
230913A00031	9/13/2023	4.91	9/15/2026	101.95117	101.5648119	101.1813951	100.8008874	100.4232556	100.0484672	99.67648994	99.3072921	98.94084251
230913A00032	9/13/2023	4.74	9/15/2027	106.62125	105.2110025	103.8264461	102.4669371	101.131853	99.82059147	98.53256951	97.26722272	96.0240046
230913A00046	9/13/2023	4.91	9/14/2026	101.93706	101.5535179	101.1728797	100.7951091	100.4201735	100.048041	99.67868005	99.31205968	98.94814931
230913A00049	9/13/2023	4.74	9/13/2027	106.59689	105.1924498	103.8135023	102.4594132	101.1295668	99.82336714	98.54023761	97.27961975	96.04097279
230913A00050	9/13/2023	4.6	9/13/2028	110.90477	108.4390062	106.0414099	103.709719	101.4417569	99.23543163	97.08873214	94.99972472	92.96654945
230914A00027	9/14/2023	4.76	1/8/2027	103.423	102.7113388	102.0095045	101.3172905	100.6344996	99.96094007	99.29642513	98.64077317	97.9938074
230914A00050	9/14/2023	4.67	9/14/2027	106.5114	105.1047716	103.7237212	102.3676116	101.0358242	99.72775999	98.44283954	97.18050173	95.94020319
230914A00051	9/14/2023	4.84	9/14/2026	101.9104	101.5269266	101.1463494	100.7686393	100.393764	100.0216914	99.65239002	99.28582892	98.9219775
230914A00059	7/26/2024	4.39	7/24/2026	101.07893	100.8418302	100.6058497	100.3709828	100.1372217	99.90455849	99.67298539	99.44249473	99.21307888
230914A00069	7/26/2024	4.34	7/26/2027	105.49974	104.2219113	102.9751454	101.7583223	100.5703712	99.41027177	98.27705134	97.16978208	96.08757849
230914A00070	7/26/2024	4.3	7/26/2028	109.6176	107.3029601	105.0494105	102.8548791	100.7173829	98.63502283	96.60597989	94.62851051	92.70094293
230914A00125	9/16/2024	4.46	9/16/2031	123.03284	117.2196928	111.7255829	106.531261	101.6187344	96.97118148	92.57286964	88.40907915	84.46603315
230915A00026	9/15/2023	4.57	9/15/2028	110.85749	108.3866153	105.9842035	103.6479723	101.3757314	99.16537574	97.01488198	94.92230465	92.88577274
230915A00030	9/15/2023	4.7	9/8/2027	106.48085	105.0913079	103.7267671	102.3866082	101.0702324	99.77706032	98.50653076	97.25810029	96.03124248

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230915A00055	9/15/2023	4.7	9/15/2027	106.56533	105.1554902	103.771336	102.4122224	101.0775271	99.76664784	98.4790018	97.21402478	95.97117043
230915A00057	9/15/2023	4.75	6/15/2027	105.48913	104.3257476	103.1881456	102.0754751	100.9869212	99.92170441	98.87907865	97.8583292	96.85877131
230918A00008	9/18/2023	4.91	9/18/2026	101.99352	101.5986904	101.2069343	100.8182132	100.4324917	100.049735	99.66990901	99.29297992	98.91891458
230918A00010	9/18/2023	4.72	9/18/2029	115.86027	112.277184	108.8267007	105.5032017	102.3013367	99.21600937	96.24236424	93.37577391	90.61182711
230918A00011	9/18/2023	4.91	9/18/2026	101.99352	101.5986904	101.2069343	100.8182132	100.4324917	100.049735	99.66990901	99.29297992	98.91891458
230918A00013	9/18/2023	4.74	9/18/2030	120.4329	115.7196859	111.2233347	106.9327027	102.8372751	98.92712911	95.19289695	91.62573247	88.21727923
230918A00023	9/18/2023	4.91	9/18/2026	101.99352	101.5986904	101.2069343	100.8182132	100.4324917	100.049735	99.66990901	99.29297992	98.91891458
230918A00030	9/18/2023	5.01	9/17/2027	103.84769	103.0795075	102.3245864	101.5825599	100.853075	100.1357924	99.43038527	98.73653923	98.05395132
230919A00010	9/19/2023	4.76	9/20/2027	106.71038	105.2853996	103.8866085	102.5133437	101.1649655	99.8408549	98.5404131	97.26306052	96.00823615
230919A00029	9/19/2023	4.63	9/19/2028	111.05288	108.5682434	106.1527292	103.8040228	101.5199036	99.2982384	97.13697681	95.03414787	92.98785633
230919A00043	9/19/2023	4.62	9/19/2028	111.02863	108.5442941	106.1290707	103.7806487	101.496808	99.27541533	97.11442055	95.01185285	92.96581717
230919A00044	9/19/2023	4.93	9/21/2026	102.04387	101.6405487	101.2404294	100.8434724	100.4496401	100.0588957	99.67120272	99.28652553	98.90482888
230919A00047	9/19/2023	4.98	8/19/2026	101.59119	101.2808404	100.9723984	100.6658488	100.3611743	100.0583575	99.75738131	99.45822899	99.16088386
230919A00055	9/19/2023	4.65	9/19/2028	111.10137	108.6161421	106.2000464	103.8507709	101.5660948	99.34388455	97.18208934	95.07873789	93.03193465
230920A00002	9/20/2023	4.47	10/2/2028	110.97626	108.4526108	106.0002003	103.6166094	101.2995176	99.04669644	96.85600596	94.72539005	92.65287285
230920A00026	9/20/2023	4.9	9/16/2026	101.96142	101.5722512	101.1860641	100.8028279	100.4225086	100.045073	99.67048815	99.29872173	98.92974187
230921A00021	9/21/2023	4.62	9/21/2028	111.20559	108.7102684	106.2845597	103.9261278	101.6327305	99.40221345	97.23250672	95.12162055	93.06764193
230922A00022	9/22/2023	4.99	9/22/2026	102.08222	101.676015	101.2730549	100.8733001	100.4767124	100.0832541	99.69288816	99.30557815	98.92128818
230925A00003	9/25/2023	4.99	9/25/2026	102.12523	101.7105455	101.2992317	100.8912523	100.4865668	100.0851354	99.68691882	99.29187857	98.89997667
230925A00004	9/25/2023	4.74	9/25/2028	111.39728	108.8913246	106.4554961	104.0874352	101.7848757	99.54564079	97.36763899	95.24886029	93.18737245
230926A00010	9/26/2023	4.74	9/26/2028	111.41023	108.901262	106.4625793	104.0918133	101.7866904	99.54502688	97.36472463	95.24376746	93.18021717
230926A00021	9/26/2023	4.73	9/26/2028	111.38579	108.8771232	106.438736	104.0682589	101.7634188	99.52203193	97.34200058	95.22130861	93.15801802
230926A00076	9/26/2023	4.73	9/26/2028	111.38579	108.8771232	106.438736	104.0682589	101.7634188	99.52203193	97.34200058	95.22130861	93.15801802
230927A00020	9/27/2023	5.01	10/16/2026	102.43307	101.9590186	101.4893752	101.0240765	100.5630624	100.1062736	99.6536519	99.20514038	98.760683
230927A00021	9/27/2023	4.96	1/29/2027	103.84954	103.0775018	102.3169746	101.5677015	100.8294339	100.1019302	99.38495593	98.67828355	97.98169185
230927A00032	9/27/2023	5.02	9/23/2026	102.10873	101.6996692	101.2938957	100.8913705	100.4920547	100.0959098	99.70289822	99.31298269	98.92612667
230927A00033	9/27/2023	4.78	9/25/2028	111.49493	108.9877713	106.5507641	104.1815499	101.8778619	99.63752243	97.45843944	95.33860218	93.27607774
230927A00034	9/27/2023	4.82	9/27/2028	111.61892	109.1045249	106.6606195	104.2848314	101.974878	99.72856715	97.54379286	95.41853121	93.35083679
230928A00001	9/28/2023	4.91	9/28/2026	102.15974	101.7362863	101.3163469	100.8998784	100.4868378	100.0771829	99.67087209	99.26786455	98.86812009
230928A00014	9/28/2023	4.9	9/28/2027	107.00901	105.5592556	104.1365093	102.7400838	101.3693106	100.0235432	98.70215659	97.40454595	96.13012617
230928A00016	9/28/2023	4.83	9/28/2028	111.65659	109.1388701	106.6918078	104.3130186	102.0002125	99.75119031	97.56383909	95.43612852	93.36610711
230928A00017	9/28/2023	4.83	9/28/2028	111.65659	109.1388701	106.6918078	104.3130186	102.0002125	99.75119031	97.56383909	95.43612852	93.36610711
230928A00033	9/28/2023	5.03	9/28/2026	102.18504	101.7618154	101.342101	100.9258517	100.5130248	100.1035782	99.69747053	99.294661	98.89510953

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
230928A00051	9/28/2023	5.04	9/28/2026	102.60563	102.1000708	101.5995212	101.1039029	100.613143	100.1271704	99.64591497	99.16930823	98.6972829
230928A00058	9/28/2023	5.04	9/28/2026	102.60563	102.1000708	101.5995212	101.1039029	100.613143	100.1271704	99.64591497	99.16930823	98.6972829
230928A00059	9/28/2023	4.84	9/28/2028	111.70044	109.1756706	106.7234012	104.3411086	102.0263781	99.77689384	97.59043414	95.46486678	93.39814497
230928A00060	9/28/2023	4.84	9/28/2028	111.70044	109.1756706	106.7234012	104.3411086	102.0263781	99.77689384	97.59043414	95.46486678	93.39814497
230928A00061	9/28/2023	4.84	9/28/2028	111.70044	109.1756706	106.7234012	104.3411086	102.0263781	99.77689384	97.59043414	95.46486678	93.39814497
230928A00064	9/28/2023	4.78	9/30/2027	106.94968	105.4933098	104.0641895	102.6616192	101.2849218	99.93344278	98.60654932	97.30362935	96.02409068
230929A00033	9/29/2023	4.92	9/29/2026	102.15302	101.7270813	101.3046957	100.8858185	100.470406	100.0584154	99.64980455	99.24453196	98.84255687
230929A00046	9/29/2023	4.66	9/29/2027	106.76471	105.3125408	103.8875032	102.4888967	101.1160485	99.76830796	98.44504618	97.14565467	95.86954475
230929A00049	9/29/2023	4.87	9/30/2030	110.92438	108.5537584	106.2626528	104.0477138	101.9057592	99.83376337	97.82884888	95.88827788	94.00944445
230929A00061	9/29/2023	4.92	9/29/2026	102.15302	101.7270813	101.3046957	100.8858185	100.470406	100.0584154	99.64980455	99.24453196	98.84255687
230929A00062	9/29/2023	4.78	9/29/2027	106.8492	105.3978228	103.9735326	102.5756383	101.2034685	99.85637373	98.53372633	97.23491897	95.95936404
231002A00018	10/2/2023	4.87	10/1/2027	107.0034	105.5453284	104.1145658	102.7104101	101.332182	99.97922482	98.65090381	97.34660492	96.06573413
231002A00042	10/2/2023	4.73	10/2/2028	111.61652	109.0849073	106.6247038	104.2334895	101.9089389	99.64881875	97.45098416	95.31337451	93.23400959
231003A00005	10/3/2023	4.84	10/3/2028	111.7461	109.2133004	106.7519533	104.3596309	102.0340055	99.77284244	97.57399529	95.43540193	93.35508074
231003A00011	10/3/2023	4.89	10/15/2027	107.20567	105.7079145	104.2389118	102.797904	101.3841591	99.99697017	98.63565427	97.29955141	95.9880236
231003A00036	10/3/2023	4.84	10/3/2028	111.7461	109.2133004	106.7519533	104.3596309	102.0340055	99.77284244	97.57399529	95.43540193	93.35508074
231004A00006	10/4/2023	4.88	10/4/2028	111.8576	109.3206579	106.8553498	104.4592413	102.1299969	99.86537366	97.66321781	95.52146013	93.43811228
231005A00035	10/5/2023	4.98	10/5/2026	102.26339	101.8204679	101.3813888	100.9461053	100.5145685	100.0867298	99.66254183	99.24195791	98.82493215
231005A00037	10/5/2023	4.88	10/5/2027	107.06727	105.5978252	104.1561011	102.7413781	101.3529622	99.99018254	98.65239068	97.33895962	96.0492829
231005A00040	10/5/2023	4.98	10/5/2026	102.26339	101.8204679	101.3813888	100.9461053	100.5145685	100.0867298	99.66254183	99.24195791	98.82493215
231005A00054	10/5/2023	4.98	10/5/2026	102.26339	101.8204679	101.3813888	100.9461053	100.5145685	100.0867298	99.66254183	99.24195791	98.82493215
231006A00009	10/6/2023	4.98	10/15/2027	107.33899	105.8402063	104.3701922	102.9281905	101.5134687	100.1253195	98.76305934	97.42602795	96.11358687
231006A00010	10/6/2023	4.93	10/16/2028	112.13812	109.5645372	107.064516	104.6355286	102.2751468	99.98104037	97.75097255	95.58279583	93.47444767
231006A00032	10/6/2023	5.08	10/6/2026	102.32173	101.8758646	101.4338984	100.9957778	100.5614525	100.1308733	99.70399181	99.28076035	98.86113216
231006A00033	10/6/2023	4.98	10/6/2027	107.22527	105.7518968	104.3063699	102.8879615	101.4959731	100.1297299	98.78857961	97.47189143	96.17905538
231010A00007	10/10/2023	4.83	10/12/2027	107.08013	105.5915225	104.1313423	102.6988463	101.2933144	99.91405074	98.56038321	97.23166203	95.927259
231010A00030	10/10/2023	4.88	10/15/2026	102.35814	101.8870855	101.4203849	100.9579774	100.4998037	100.0458055	99.5959259	99.15010871	98.70829891
231010A00057	10/10/2023	4.66	10/10/2028	111.5444	108.9916114	106.511446	104.1014203	101.7591491	99.48234324	97.26880479	95.11642303	93.02317026
231010A00075	10/10/2023	4.78	10/10/2028	111.68709	109.1357363	106.6568951	104.2480845	101.906925	99.63113299	97.41851558	95.26696692	93.1744639
231010A00076	10/10/2023	4.66	10/10/2028	111.5444	108.9916114	106.511446	104.1014203	101.7591491	99.48234324	97.26880479	95.11642303	93.02317026
231010A00101	10/10/2023	4.78	10/10/2028	111.68709	109.1357363	106.6568951	104.2480845	101.906925	99.63113299	97.41851558	95.26696692	93.1744639
231010A00129	10/10/2023	4.93	10/13/2026	102.35348	101.8880132	101.4268019	100.9697831	100.5168998	100.0680956	99.62331559	99.1825055	98.74561219
231011A00004	10/11/2023	4.81	10/8/2027	107.00201	105.5248985	104.0757959	102.6539773	101.2587376	99.88939568	98.54529311	97.22579344	95.93028115

Parallel-Shift Sensitivity Analysis												
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
231011A00016	10/11/2023	4.75	10/11/2028	111.6252	109.0718717	106.591188	104.1806647	101.8379154	99.56064978	97.34666873	95.19386045	93.10019628
231011A00028	10/11/2023	4.92	10/9/2026	102.29295	101.8388051	101.3887044	100.9425963	100.5004277	100.0621464	99.62770117	99.19704162	98.77011827
231011A00029	10/11/2023	4.81	10/8/2027	107.00201	105.5248985	104.0757959	102.6539773	101.2587376	99.88939568	98.54529311	97.22579344	95.93028115
231011A00030	10/11/2023	4.75	10/11/2028	111.6252	109.0718717	106.591188	104.1806647	101.8379154	99.56064978	97.34666873	95.19386045	93.10019628
231012A00027	10/12/2023	4.78	10/16/2028	111.7632	109.1943402	106.6989453	104.2744827	101.918527	99.6287511	97.40292104	95.23889205	93.13460424
231013A00020	10/13/2023	4.98	10/13/2026	102.37654	101.9110194	101.4497461	100.9926658	100.5397213	100.0908564	99.64601601	99.20514595	98.76819306
231016A00016	10/16/2023	5.01	10/16/2026	102.43307	101.9590186	101.4893752	101.0240765	100.5630624	100.1062736	99.6536519	99.20514038	98.760683
231016A00047	10/16/2023	4.98	2/10/2027	104.02986	103.2235648	102.4298188	101.6483259	100.8788033	100.1209771	99.37458142	98.63935866	97.91505878
231016A00049	10/16/2023	4.95	7/19/2027	106.17329	104.9105635	103.6780462	102.4746626	101.2993863	100.1512387	99.02928616	97.93263745	96.8604415
231017A00017	10/17/2023	5.11	10/16/2026	102.48004	102.0058607	101.5360892	101.0706634	100.6095229	100.1526085	99.69986207	99.25122665	98.80664617
231017A00029	10/17/2023	4.99	10/17/2028	112.33429	109.7461601	107.2334734	104.793565	102.4238785	100.1219651	97.88547708	95.71216378	93.59986644
231017A00032	10/17/2023	4.99	10/17/2028	112.33429	109.7461601	107.2334734	104.793565	102.4238785	100.1219651	97.88547708	95.71216378	93.59986644
231017A00033	10/17/2023	4.99	10/17/2028	112.33429	109.7461601	107.2334734	104.793565	102.4238785	100.1219651	97.88547708	95.71216378	93.59986644
231017A00034	10/17/2023	4.99	10/17/2028	112.33429	109.7461601	107.2334734	104.793565	102.4238785	100.1219651	97.88547708	95.71216378	93.59986644
231017A00035	10/17/2023	4.99	10/17/2028	112.33429	109.7461601	107.2334734	104.793565	102.4238785	100.1219651	97.88547708	95.71216378	93.59986644
231017A00036	10/17/2023	4.99	10/17/2028	112.33429	109.7461601	107.2334734	104.793565	102.4238785	100.1219651	97.88547708	95.71216378	93.59986644
231017A00037	10/17/2023	4.99	10/17/2028	112.33429	109.7461601	107.2334734	104.793565	102.4238785	100.1219651	97.88547708	95.71216378	93.59986644
231017A00039	10/17/2023	5.12	10/16/2026	102.91361	102.3547095	101.8019252	101.2551543	100.7142986	100.1792621	99.64995098	99.12627328	98.60813909
231017A00040	10/17/2023	5.12	10/16/2026	102.91361	102.3547095	101.8019252	101.2551543	100.7142986	100.1792621	99.64995098	99.12627328	98.60813909
231017A00041	10/17/2023	5.12	10/16/2026	102.91361	102.3547095	101.8019252	101.2551543	100.7142986	100.1792621	99.64995098	99.12627328	98.60813909
231019A00007	10/19/2023	5.19	10/19/2026	102.5618	102.0790178	101.6007982	101.127078	100.6577937	100.192883	99.73228472	99.27593893	98.8237867
231019A00009	10/19/2023	5.14	10/19/2027	107.62832	106.1163669	104.6336343	103.1793469	101.752756	100.3531386	98.97979658	97.63205524	96.30926267
231019A00041	10/19/2023	5.08	10/19/2028	112.5536	109.9664596	107.4534695	105.0120697	102.6398055	100.3343217	98.09335812	95.91474473	93.7963978
231019A00043	10/19/2023	5.19	10/19/2026	102.5618	102.0790178	101.6007982	101.127078	100.6577937	100.192883	99.73228472	99.27593893	98.8237867
231019A00044	10/19/2023	5.14	10/19/2027	107.62832	106.1163669	104.6336343	103.1793469	101.752756	100.3531386	98.97979658	97.63205524	96.30926267
231020A00048	10/20/2023	5.08	10/20/2026	102.52364	102.0381677	101.5573124	101.0810067	100.6091862	100.1417876	99.67874866	99.22000844	98.76550707
231020A00049	10/20/2023	5.03	10/20/2027	107.47692	105.9634145	104.4792092	103.0235281	101.5956191	100.1947563	98.82023841	97.47138797	96.14755032
231020A00051	10/20/2023	5.02	10/20/2028	112.41648	109.8283055	107.3144001	104.8721959	102.4992315	100.1931456	97.95167208	95.77263564	93.65394735
231020A00069	10/20/2023	5.08	10/15/2026	102.45153	101.9802166	101.5132627	101.0506035	100.5921798	100.1379332	99.68780686	99.24174453	98.79969118
231024A00017	10/24/2023	4.97	10/25/2027	107.45023	105.9232694	104.4261227	102.957994	101.5181118	100.105732	98.72013575	97.36062894	96.02654095
231024A00029	10/24/2023	4.97	10/25/2027	107.45023	105.9232694	104.4261227	102.957994	101.5181118	100.105732	98.72013575	97.36062894	96.02654095
231024A00030	10/24/2023	4.96	10/24/2028	112.31857	109.7205666	107.1974285	104.7465585	102.3654653	100.0517594	97.80314796	95.61743033	93.49249376
231024A00039	10/24/2023	5.06	10/26/2026	102.60023	102.0977668	101.6002399	101.1075738	100.6196973	100.1365407	99.65803574	99.18411526	98.71471353

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
231024A00046	10/24/2023	4.96	10/24/2028	112.31857	109.7205666	107.1974285	104.7465585	102.3654653	100.0517594	97.80314796	95.61743033	93.49249376
231024A00082	10/24/2023	5.05	10/23/2026	102.55223	102.0582975	101.569136	101.084679	100.6048584	100.1296079	99.65886228	99.19255745	98.73063068
231025A00013	10/25/2023	5.08	10/26/2026	102.61018	102.1076882	101.6101328	101.1174382	100.6295336	100.146349	99.66781622	99.19386814	98.72443899
231025A00024	10/25/2023	5	10/25/2028	112.43273	109.8305043	107.3033324	104.8486089	102.4638337	100.1466092	97.89463471	95.70570221	93.57769197
231025A00036	10/25/2023	5.08	10/21/2026	102.53806	102.0497561	101.5661187	101.0870826	100.612582	100.1425527	99.67693133	99.21565603	98.75866596
231027A00028	10/27/2023	4.92	10/23/2028	112.20463	109.6108444	107.0917342	104.6447122	102.2672957	99.95710348	97.71185041	95.5293432	93.40747608
231027A00035	10/27/2023	4.99	10/30/2026	102.62209	102.1083911	101.5998368	101.0963529	100.5978638	100.1042955	99.61557519	99.13163183	98.65239557
231030A00035	10/30/2023	4.85	10/30/2028	112.27768	109.6602452	107.1187754	104.6506117	102.2532095	99.92412844	97.66102791	95.46166205	93.32387531
231031A00022	10/31/2023	5.04	10/30/2026	102.64752	102.1337477	101.6251188	101.1215609	100.6229983	100.129357	99.64056428	99.15654899	98.6772413
231031A00033	10/31/2023	5.05	10/30/2026	102.65261	102.138819	101.6301753	101.1266025	100.6280252	100.1343693	99.6455621	99.16153242	98.68221044
231102A00024	11/2/2023	4.78	11/2/2028	111.97979	109.3610548	106.8184698	104.3493677	101.9511921	99.6214918	97.35791593	95.15820905	93.02020665
231102A00032	11/2/2023	4.91	11/2/2026	102.6226	102.1005383	101.583799	101.0722966	100.5659519	100.064687	99.56842562	99.07709317	98.59061639
231102A00033	11/2/2023	4.83	11/2/2027	107.33836	105.7902562	104.272751	102.7850118	101.326237	99.89565376	98.49251597	97.11610347	95.76572079
231102A00039	11/2/2023	4.91	10/28/2026	102.5535	102.0455844	101.5427062	101.0447922	100.5517691	100.0635649	99.58010923	99.10133298	98.62716837
231102A00070	2/15/2024	4.86	2/16/2027	104.0151	103.1921147	102.3821958	101.5850368	100.8003374	100.0278064	99.26716202	98.51813078	97.78044772
231103A00002	11/3/2023	4.67	11/29/2027	107.43371	105.8085114	104.2162791	102.6560824	101.1270213	99.6282294	98.15887217	96.71814543	95.30527401
231103A00029	11/3/2023	4.75	11/3/2026	102.55306	102.0284239	101.5091662	100.9952013	100.4864484	99.98282836	99.48426382	98.99067882	98.50199893
231103A00034	11/3/2023	4.49	11/3/2028	111.41289	108.7952272	106.2538597	103.786106	101.3894	99.06128163	96.79939168	94.60146684	92.46533531
231106A00007	11/6/2023	4.78	11/5/2027	107.30053	105.7442628	104.2188431	102.7234291	101.2572091	99.81940005	98.40924647	97.02601922	95.66901431
231107A00011	11/7/2023	4.84	11/9/2026	102.6804	102.1386662	101.6026682	101.0723125	100.5475102	100.028174	99.51421874	99.00556091	98.50211869
231108A00015	11/8/2023	4.83	11/9/2026	102.67503	102.1333184	101.5973368	101.0669973	100.5422111	100.022891	99.50895162	99.00030957	98.49688302
231108A00028	11/8/2023	4.83	11/9/2026	102.67503	102.1333184	101.5973368	101.0669973	100.5422111	100.022891	99.50895162	99.00030957	98.49688302
231109A00025	11/9/2023	4.75	11/9/2028	111.80041	109.2030697	106.6823904	104.2356095	101.8600876	99.55329815	97.31282188	95.13634128	93.02163564
231113A00038	11/13/2023	4.97	11/13/2026	102.80529	102.2520153	101.7047188	101.1633017	100.6276695	100.0977295	99.57339107	99.05456552	98.54116598
231114A00006	11/14/2024	4.67	11/14/2031	124.77869	118.7506687	113.0617717	107.6909973	102.6187598	97.82678283	93.29800477	89.01649183	84.96735762
231114A00007	11/14/2024	4.89	11/14/2034	137.15614	127.5749589	118.7735825	110.6835216	103.242669	96.39467208	90.08837091	84.27729435	78.91920705
231114A00046	11/14/2023	4.62	11/14/2028	111.72506	109.0753557	106.5034247	104.0065122	101.5819799	99.22729976	96.94004867	94.71790307	92.55863432
231114A00072	11/14/2023	4.67	11/15/2027	107.25724	105.6730792	104.1206285	102.5990045	101.1073595	99.64487663	98.21076823	96.80427463	95.42466286
231114A00074	11/14/2023	4.6	11/14/2028	111.67346	109.0244283	106.4531533	103.9568819	101.5329764	99.17890936	96.89225792	94.67069896	92.51200423
231115A00039	11/15/2023	4.85	11/16/2026	102.77995	102.2183827	101.6629767	101.1136269	100.5702343	100.0327021	99.50093573	98.97484247	98.45433164
231117A00002	11/17/2023	4.76	11/12/2026	102.6771	102.1270135	101.5828431	101.0444904	100.5118622	99.9848672	99.46341623	98.94742186	98.43679857
231117A00003	11/17/2023	4.59	11/17/2028	111.68559	109.0278398	106.4482733	103.9441189	101.5127176	99.15152174	96.85808973	94.63008059	92.46524933
231121A00015	11/21/2023	4.75	11/30/2026	102.90883	102.3077524	101.7137004	101.1265531	100.5461906	99.97249577	99.40535423	98.84465408	98.29028603

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
231127A00024	11/27/2023	4.78	11/27/2026	102.8869	102.294265	101.7084729	101.1294014	100.5569354	99.99096209	99.43137145	98.87805582	98.33090996
231127A00025	11/27/2023	4.68	11/29/2027	107.44978	105.8244402	104.2320766	102.6717508	101.142563	99.64364654	98.1741669	96.73331982	95.3203301
231127A00026	11/27/2023	4.61	11/27/2028	111.86436	109.1756791	106.5666793	104.0345037	101.5764201	99.18981223	96.87217358	94.62110227	92.4342958
231128A00002	11/28/2023	4.41	11/30/2028	111.54171	108.84521	106.2288977	103.689892	101.225434	98.83288197	96.50970586	94.25348147	92.06188534
231128A00003	11/28/2023	4.41	11/30/2028	111.54171	108.84521	106.2288977	103.689892	101.225434	98.83288197	96.50970586	94.25348147	92.06188534
231128A00009	11/28/2023	4.73	12/14/2026	103.07811	102.4374595	101.8047984	101.1799779	100.5628524	99.95328024	99.3511229	98.75624539	98.16851593
231129A00006	11/29/2023	4.25	11/29/2028	111.1096	108.4216675	105.8136444	103.2826642	100.8259793	98.44095858	96.12508192	93.87593462	91.69120226
231130A00073	11/30/2023	4.61	11/30/2026	102.82556	102.2247597	101.6309869	101.0441165	100.4640286	99.89060618	99.32373476	98.76330254	98.20920022
231130A00074	11/30/2023	4.45	11/30/2028	111.48257	108.7903701	106.1781644	103.6430817	101.1823716	98.79340083	96.47364692	94.22069301	92.0322226
231201A00024	12/1/2023	4.36	12/1/2028	111.258	108.5660109	105.9540985	103.4193794	100.959098	98.57061603	96.25140653	93.99904843	91.81122128
231201A00026	12/1/2023	4.51	12/1/2026	102.77841	102.1749873	101.57866	100.9892992	100.4067834	99.83099376	99.26181418	98.69913127	98.14283422
231206A00012	12/6/2023	4.31	12/6/2028	111.18399	108.4792264	105.855235	103.3090973	100.8380221	98.43933745	96.11048478	93.84901333	91.6525747
231206A00046	12/6/2023	4.39	12/6/2027	107.06538	105.4240805	103.816329	102.2411675	100.6976713	99.18495009	97.70214699	96.24843661	94.82302368
231206A00047	12/6/2023	4.31	12/6/2028	111.18399	108.4792264	105.855235	103.3090973	100.8380221	98.43933745	96.11048478	93.84901333	91.6525747
231207A00010	12/7/2023	4.38	12/7/2027	107.0607	105.4167076	103.8063604	102.2286902	100.6827683	99.16770096	97.68262783	96.22672027	94.79918
231207A00011	12/7/2023	4.28	12/7/2028	111.11615	108.4095357	105.7838193	103.2360733	100.7634999	98.36342076	96.0332715	93.77059582	91.5730401
231207A00016	12/7/2023	4.47	12/7/2026	102.82781	102.2075367	101.5947608	100.989349	100.3911687	99.80009071	99.2159889	98.63874005	98.06822384
231207A00035	12/7/2023	4.47	12/7/2026	102.82781	102.2075367	101.5947608	100.989349	100.3911687	99.80009071	99.2159889	98.63874005	98.06822384
231211A00057	12/11/2023	4.58	12/11/2029	116.39163	112.5613307	108.8809195	105.3436637	101.9431771	98.67339673	95.5285646	92.50321031	89.59213491
231212A00016	12/12/2023	4.59	12/7/2026	102.90153	102.2809943	101.6679649	101.0623017	100.4638722	99.87254717	99.28820035	98.71070854	98.1399514
231212A00018	12/12/2023	4.5	12/6/2027	107.24421	105.6014014	103.9921719	102.4155587	100.8706362	99.35651371	97.87233345	96.41726945	94.99052583
231213A00049	12/13/2023	4.14	12/13/2028	110.81201	108.0929639	105.4555853	102.8969102	100.4140991	98.00443503	95.66531728	93.3942553	91.18886337
231214A00036	12/14/2023	4.19	12/14/2026	102.73589	102.0964605	101.4650078	100.8413849	100.2254468	99.61705147	99.01606086	98.42234004	97.83575739
231215A00004	12/15/2023	4.07	12/15/2028	110.6474	107.9250585	105.2846313	102.7231335	100.2377126	97.82563909	95.48430055	93.21119554	91.0039281
231215A00018	12/15/2023	4.19	12/15/2027	106.83963	105.1757101	103.5461372	101.9499143	100.3860826	98.85372002	97.35193943	95.87988683	94.43673989
231219A00016	12/19/2023	4.27	12/18/2026	102.83324	102.1823206	101.5396637	100.905111	100.2785094	99.65970999	99.04856731	98.4449396	97.84868857
231219A00017	12/19/2023	4.26	1/15/2027	103.15306	102.4229671	101.7032354	100.9936445	100.2939808	99.60403653	98.9236099	98.25250452	97.59052942
231219A00018	12/19/2023	4.25	2/16/2027	103.52	102.6992134	101.891471	101.0964643	100.3138934	99.5434678	98.78490585	98.03793463	97.30228955
231219A00019	12/19/2023	4.17	12/15/2027	106.80662	105.1429785	103.5136822	101.9177311	100.3541663	98.82206597	97.32054309	95.84874378	94.40584581
231219A00020	12/19/2023	4.16	2/1/2028	107.3186	105.5194422	103.7595159	102.0376057	100.3525503	98.70323614	97.08859499	95.50760132	93.95927032
231219A00021	12/19/2023	4.14	3/15/2028	107.77438	105.8484739	103.9668656	102.1282683	100.331445	98.57520211	96.85838821	95.17989165	93.53863922
231219A00022	12/19/2023	4.13	4/14/2028	108.08642	106.0744172	104.1105362	102.1933289	100.3213988	98.49340083	96.70803895	94.96406418	93.2602724
231219A00023	12/19/2023	4.12	6/15/2028	108.75444	106.5631487	104.4275234	102.3457628	100.3161352	98.33697843	96.40669645	94.52375613	92.68668429

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
231219A00025	12/19/2023	4.06	12/15/2028	110.62074	107.8987576	105.2586798	102.6975235	100.2124363	97.80068895	95.45966928	93.18687608	90.9799136
231219A00060	12/19/2023	4.22	6/21/2027	104.95294	103.7760755	102.6256862	101.5008839	100.4008208	99.32468589	98.2717035	97.24113111	96.23225769
231220A00028	12/20/2023	4.13	12/20/2027	106.79497	105.1178024	103.4754448	101.8668759	100.2911176	98.74722958	97.2343073	95.75148041	94.29791107
231220A00031	12/20/2023	4.23	12/21/2026	102.8421	102.1827882	101.5319531	100.8894274	100.2550523	99.62867311	99.0101392	98.39930351	97.7960227
231221A00008	12/21/2023	3.99	12/21/2028	110.49761	107.7608099	105.1067497	102.5324029	100.0348734	97.61139135	95.25930614	92.97608053	90.7592849
231221A00014	12/21/2023	4.14	6/21/2027	104.86021	103.6839192	102.5340922	101.4098437	100.3103258	99.23472779	98.18227425	97.15222283	96.14386269
231221A00022	12/21/2023	4.01	12/21/2028	109.98991	107.3993183	104.8871231	102.4504039	100.0863766	97.79238102	95.56587479	93.40442687	91.30571184
231221A00039	12/21/2023	3.99	12/21/2028	110.49761	107.7608099	105.1067497	102.5324029	100.0348734	97.61139135	95.25930614	92.97608053	90.7592849
231222A00004	12/22/2023	4	12/22/2028	110.53504	107.7949907	105.1378369	102.5605464	100.0602155	97.6340668	95.27944279	92.99379972	90.77470183
231226A00016	12/26/2023	3.92	12/26/2028	110.45314	107.7165007	105.064214	102.4931021	100.0001349	97.58241886	95.23718966	92.96180536	90.75373993
231226A00024	12/26/2023	4.03	12/26/2028	110.65837	107.9056499	105.2364614	102.6477299	100.1365204	97.70002627	95.33556234	93.0405589	90.81255574
231226A00095	12/26/2023	4.22	12/28/2026	102.91622	102.2371258	101.5670036	100.9056767	100.2529725	99.60872314	98.97276491	98.34493839	97.72508821
231227A00005	12/27/2023	4.17	12/28/2026	102.88259	102.2036198	101.5336231	100.8724204	100.2198394	99.57571205	98.93987472	98.312168	97.69243654
231227A00023	12/27/2023	3.98	12/27/2028	110.5341	107.7803226	105.1101805	102.5205966	100.0086298	97.57146729	95.20641851	92.9109085	90.6824722
231228A00024	12/28/2023	4.15	12/28/2026	102.86913	102.1902173	101.5202708	100.8591179	100.2065862	99.56250761	98.92671865	98.29905985	97.67937587
231228A00025	12/28/2023	4.05	12/28/2027	106.74702	105.0484648	103.38546	101.7569565	100.1619448	98.59945478	97.06855389	95.56834514	94.0979655
231215A00026	1/17/2025	3.71	1/15/2027	102.75558	102.0270778	101.3089215	100.6008903	99.90277096	99.21435592	98.53544355	97.86583776	97.20534782
231228A00026	12/28/2023	3.96	12/28/2028	110.49061	107.7346799	105.0625148	102.4710342	99.95728951	97.51846151	95.15185324	92.85488389	90.62508287
240102A00055	1/2/2024	4.23	1/4/2027	103.00394	102.3050448	101.6156465	100.935553	100.2645766	99.60253472	98.94924948	98.30454781	97.66826117
240103A00005	1/3/2024	4.28	1/4/2027	103.03855	102.339517	101.6499866	100.9697622	100.2986562	99.63648582	98.98307335	98.33824564	97.70183413
240103A00010	1/3/2024	4.84	1/18/2039	148.89731	134.4785949	121.7059406	110.3781677	100.3198661	91.37796123	83.41875628	76.32537984	69.99558211
240103A00011	1/3/2024	4.84	1/18/2039	148.89731	134.4785949	121.7059406	110.3781677	100.3198661	91.37796123	83.41875628	76.32537984	69.99558211
240103A00018	1/3/2024	4.28	1/4/2027	103.03855	102.339517	101.6499866	100.9697622	100.2986562	99.63648582	98.98307335	98.33824564	97.70183413
240103A00026	1/3/2024	4.28	1/4/2027	103.03855	102.339517	101.6499866	100.9697622	100.2986562	99.63648582	98.98307335	98.33824564	97.70183413
240103A00054	6/28/2024	3.94	6/29/2026	100.68677	100.5196714	100.3531311	100.1871421	100.0217018	99.8568075	99.69245643	99.52864596	99.36537344
240103A00056	6/28/2024	3.94	6/29/2026	100.68677	100.5196714	100.3531311	100.1871421	100.0217018	99.8568075	99.69245643	99.52864596	99.36537344
240103A00057	6/28/2024	3.94	6/29/2026	100.68677	100.5196714	100.3531311	100.1871421	100.0217018	99.8568075	99.69245643	99.52864596	99.36537344
240103A00058	6/28/2024	3.94	6/29/2026	100.68677	100.5196714	100.3531311	100.1871421	100.0217018	99.8568075	99.69245643	99.52864596	99.36537344
240103A00059	6/28/2024	3.94	6/29/2026	100.68677	100.5196714	100.3531311	100.1871421	100.0217018	99.8568075	99.69245643	99.52864596	99.36537344
240104A00070	12/13/2024	3.83	3/5/2027	103.35936	102.4919522	101.639119	100.8004953	99.97572796	99.16447515	98.36640638	97.58120183	96.80855197
240105A00017	1/5/2024	4.29	1/5/2027	103.05722	102.3553372	101.6630314	100.9801071	100.3063742	99.64164783	98.9857481	98.33849979	97.69973231
240108A00023	1/8/2024	4.27	1/8/2027	103.07841	102.3681011	101.6676004	100.9767071	100.2952242	99.62296003	98.95972819	98.30534719	97.65964044
240108A00038	1/8/2024	4.13	1/8/2029	111.06985	108.2758456	105.5674683	102.9415328	100.394998	97.92495751	95.52863252	93.20336531	90.94661288

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240108A00040	1/8/2024	4.13	1/8/2029	111.06985	108.2758456	105.5674683	102.9415328	100.394998	97.92495751	95.52863252	93.20336531	90.94661288
240108A00041	1/9/2024	4.13	1/9/2029	111.08072	108.2838272	105.5727141	102.9441918	100.395211	97.92285774	95.5243459	93.197011	90.93830366
240109A00042	1/9/2024	3.99	1/9/2029	110.86815	108.0704395	105.3586331	102.7295323	100.1800807	97.70735771	95.30857108	92.98105054	90.72224129
240109A00048	1/9/2024	4.12	1/9/2029	111.05337	108.2568518	105.5461059	102.9179423	100.369312	97.89730111	95.49912389	93.17211605	90.91372848
240110A00021	1/10/2024	4.13	1/10/2028	107.0239	105.2875465	103.588086	101.9244073	100.2954443	98.70017334	97.13761148	95.60681399	94.10687264
240111A00025	1/11/2024	4.19	1/11/2027	103.05658	102.3380025	101.6294726	100.9307758	100.2417079	99.56207061	98.89167085	98.2303209	97.57783806
240111A00031	1/11/2024	4.19	1/11/2027	103.05658	102.3380025	101.6294726	100.9307758	100.2417079	99.56207061	98.89167085	98.2303209	97.57783806
240111A00046	12/13/2024	3.68	3/19/2027	103.37398	102.4675722	101.5770756	100.7020774	99.84217524	98.9969803	98.16611717	97.34922307	96.54594743
240112A00036	1/12/2024	4.07	1/12/2027	102.98233	102.2612654	101.550322	100.8492846	100.1579468	99.47610786	98.80357268	98.14015141	97.48565938
240112A00052	1/12/2024	4.07	1/12/2027	102.98233	102.2612654	101.550322	100.8492846	100.1579468	99.47610786	98.80357268	98.14015141	97.48565938
240117A00021	1/17/2024	4.06	1/17/2029	111.14665	108.3230865	105.5867659	102.9344121	100.3629004	97.86924615	95.45059699	93.10422616	90.82752579
240117A00023	1/17/2024	4.13	1/19/2027	103.14826	102.4064598	101.6753563	100.954716	100.2443152	99.54393617	98.85336768	98.17240423	97.50084605
240117A00054	1/17/2024	4.22	1/18/2028	107.26839	105.508059	103.7854779	102.0995007	100.4490248	98.83299219	97.25038746	95.70023515	94.18159799
240118A00020	1/18/2024	4.25	2/18/2027	103.54349	102.7170225	101.9037765	101.1034375	100.3156996	99.54026645	98.77685089	98.02517473	97.28496829
240119A00007	1/19/2024	4.23	1/19/2029	111.46576	108.63606	105.8938246	103.235767	100.6587522	98.15978573	95.73600618	93.38467818	91.10318578
240119A00029	1/19/2024	4.3	1/13/2027	103.15841	102.433864	101.7195237	101.0151721	100.3206003	99.63560533	98.95998961	98.29356112	97.63613301
240119A00044	1/23/2024	4.23	1/23/2029	111.51036	108.6690335	105.9158087	103.2473664	100.6605381	98.15229788	95.71975486	93.36014604	91.07082946
240122A00050	1/22/2024	4.25	1/22/2027	103.22732	102.4774174	101.7384379	101.0101402	100.2922935	99.58467365	98.88706287	98.19924953	97.52102797
240123A00037	1/23/2024	4.2	1/17/2029	111.36073	108.5379959	105.8023724	103.1505989	100.5795581	98.08627189	95.66789433	93.32170455	91.04510023
240125A00007	1/25/2024	4.27	1/25/2027	103.27725	102.5187765	101.7714682	101.0350765	100.3093632	99.59409693	98.88905301	98.19401313	97.50876517
240125A00040	1/25/2024	4.24	12/15/2026	102.77916	102.136788	101.5024683	100.8760473	100.257378	99.64631681	99.04272364	98.44646192	97.85739837
240125A00068	1/25/2024	4.11	1/25/2028	107.26054	105.479278	103.736567	102.0312207	100.3621025	98.72812226	97.12823385	95.56143315	94.02675566
240125A00069	1/25/2024	4.11	1/25/2028	107.26054	105.479278	103.736567	102.0312207	100.3621025	98.72812226	97.12823385	95.56143315	94.02675566
240130A00044	1/30/2024	4.14	1/30/2029	111.33701	108.4788504	105.7098335	103.0265812	100.4258684	97.9046164	95.45988468	93.08886375	90.78886812
240130A00047	1/30/2024	4.01	1/30/2029	111.14802	108.2886481	105.5185565	102.8343581	100.2328202	97.71085662	95.26552019	92.89399502	90.5935896
240130A00057	1/30/2024	4.15	1/29/2027	103.27823	102.5079874	101.7492476	101.0017544	100.2652587	99.53951898	98.82430071	98.11937609	97.42452389
240130A00068	1/30/2024	4.17	1/30/2029	111.42081	108.561475	105.7913101	103.1069371	100.5051298	97.98280875	95.53703262	93.16499115	90.86399811
240130A00089	1/30/2024	4.17	1/30/2029	111.42081	108.561475	105.7913101	103.1069371	100.5051298	97.98280875	95.53703262	93.16499115	90.86399811
240131A00013	1/31/2024	4.13	2/1/2027	103.25143	102.4735701	101.7074406	100.9527782	100.2093266	99.47683736	98.75506907	98.04378751	97.3427652
240131A00014	1/31/2024	4.04	1/31/2029	111.0683	108.2111718	105.4432532	102.7611604	100.1616629	97.64167657	95.19825625	92.82858803	90.52998231
240131A00015	1/31/2024	4.02	1/31/2029	108.1817	106.0711365	104.0189733	102.0231113	100.0815422	98.19234665	96.35368967	94.56381603	92.8210461
240131A00022	3/1/2024	4.13	3/1/2027	103.57104	102.7137649	101.870701	101.041495	100.2258072	99.4233087	98.63368126	97.85661682	97.09181707
240131A00034	1/31/2024	4	1/29/2027	103.16396	102.394199	101.6359354	100.8889133	100.1528839	99.42760562	98.71284403	98.00837141	97.31396662

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240131A00039	1/31/2024	4.22	7/31/2026	101.12427	100.8676204	100.6122655	100.3581997	100.1054134	99.85389693	99.60364075	99.35463546	99.10687172
240131A00080	1/31/2024	4.16	1/29/2027	103.24025	102.4707799	101.71279	100.9660276	100.2302445	99.50519954	98.7906588	98.08639503	97.3921875
240201A00027	2/1/2024	3.83	2/1/2029	110.66626	107.8078794	105.038953	102.3560819	99.7560255	97.23569007	94.79212089	92.42249482	90.12411333
240201A00040	2/1/2024	4.08	2/1/2030	115.10445	111.1534035	107.3622086	103.7234439	100.2300826	96.87546679	93.65328602	90.55755619	87.58260064
240201A00042	2/1/2024	4.24	2/1/2033	126.15881	118.8326671	111.9965873	105.6149167	99.65478696	94.08588445	88.88023815	84.012026	79.45739844
240201A00043	2/1/2024	4.27	2/1/2034	129.46172	120.9956361	113.1673816	105.9250348	99.22117609	93.0124776	87.25932872	81.92549805	76.97782778
240202A00016	2/2/2024	4.25	2/2/2027	103.35557	102.574485	101.8052219	101.0475132	100.3010998	99.56573026	98.84116069	98.12715422	97.42348087
240202A00017	2/2/2024	4.23	8/3/2026	101.17927	100.9140161	100.6501599	100.3876871	100.1265868	99.86684819	99.60846069	99.3514137	99.09569678
240202A00029	2/2/2024	4.15	2/2/2029	111.39975	108.5318937	105.7537119	103.0618032	100.4529246	97.92397955	95.47201026	93.0941902	90.7878172
240202A00030	2/2/2024	4.32	2/3/2031	120.02608	114.9312527	110.0883499	105.4834735	101.1035698	96.93637649	92.97036976	89.19471537	85.59922331
240206A00017	2/6/2024	4.33	8/6/2027	105.61023	104.3045029	103.0290473	101.7828085	100.564782	99.37400937	98.20957531	97.07060543	95.95626388
240207A00006	2/7/2024	4.06	2/7/2029	111.38186	108.4951669	105.6992168	102.9905802	100.3659816	97.82229196	95.35652107	92.96581006	90.64742475
240207A00022	2/7/2024	4.25	2/7/2028	107.5511	105.7323371	103.9535208	102.2134373	100.5109246	98.84486694	97.21419245	95.61787075	94.05491107
240207A00025	2/8/2024	4.2	1/8/2029	111.26111	108.4644847	105.7535415	103.1251	100.5761169	98.10368424	95.7050214	93.37746898	91.1184824
240208A00055	2/8/2024	4.37	2/8/2027	103.52077	102.7222719	101.936121	101.1620315	100.399727	99.64893941	98.90940881	98.18088303	97.46311736
240209A00019	2/9/2024	4.39	2/9/2027	103.54869	102.747287	101.958317	101.1814934	100.416537	99.66317684	98.92115035	98.19020274	97.47008685
240213A00022	2/13/2024	4.6	8/13/2026	101.39422	101.10095	100.8093947	100.5195348	100.2313554	99.9448419	99.65997969	99.37675444	99.09515195
240214A00019	2/15/2024	4.41	1/26/2029	112.04462	109.187564	106.4192594	103.7363535	101.1356474	98.61408655	96.16875318	93.79685885	91.49573768
240215A00026	2/15/2024	4.48	2/10/2027	103.63237	102.8278166	102.0357859	101.2559896	100.4881453	99.73197933	98.98722629	98.25362876	97.53093704
240215A00033	2/15/2024	4.35	2/16/2027	103.65009	102.8280563	102.0190988	101.2229029	100.439168	99.66760275	98.90792475	98.1598604	97.42314441
240215A00046	4/1/2024	4.49	4/1/2027	104.26361	103.3165361	102.3867122	101.4736678	100.576951	99.69612643	98.83077378	97.98048758	97.14487638
240216A00012	2/16/2024	4.53	8/16/2027	105.98207	104.6517146	103.3492174	102.0737038	100.8243387	99.60032209	98.40088645	97.22529563	96.07284303
240221A00014	2/21/2024	4.53	2/22/2027	103.8224	102.9835125	102.1582157	101.346182	100.5470931	99.76064081	98.98652666	98.22446156	97.47416536
240221A00015	2/21/2024	4.48	2/22/2028	108.15468	106.2864878	104.4600651	102.6742004	100.9277281	99.21952494	97.54850783	95.91363224	94.31389048
240226A00010	2/26/2024	4.53	7/15/2027	105.6054	104.3575429	103.1393033	101.9496369	100.7875452	99.65207554	98.54231903	97.45740763	96.39651208
240226A00025	2/26/2024	4.43	2/26/2027	103.83934	102.9885055	102.1516415	101.3284069	100.5184706	99.72151171	98.93721996	98.16529475	97.40544497
240229A00027	2/29/2024	4.54	2/26/2027	103.88089	103.0305553	102.1941748	101.371405	100.5619153	99.76538583	98.98150677	98.20997818	97.45050952
240301A00023	3/1/2024	4.17	3/1/2029	111.95887	108.9971482	106.1302794	103.3547179	100.6670729	98.06409771	95.5426833	93.0998515	90.7327488
240301A00024	3/1/2024	4.17	3/1/2029	111.95887	108.9971482	106.1302794	103.3547179	100.6670729	98.06409771	95.5426833	93.0998515	90.7327488
240301A00025	3/1/2024	4.45	3/1/2027	103.84233	102.9837974	102.1394913	101.3090577	100.4921563	99.68845802	98.89764444	98.1194072	97.35344773
240305A00011	3/5/2024	4.55	9/4/2026	101.66885	101.3137589	100.9611516	100.6110028	100.2632868	99.91797822	99.57505216	99.23448394	98.89624925
240306A00010	3/6/2024	4.22	3/6/2029	111.977	109.0053558	106.1292034	103.3449644	100.6492133	98.03867105	95.51019803	93.06078722	90.68755795
240307A00022	3/7/2024	4.09	3/7/2029	111.79319	108.8173488	105.9373287	103.1495276	100.4505026	97.83695817	95.30573908	92.85382374	90.47831771

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240308A00031	3/8/2024	4.46	9/16/2026	101.79145	101.4026703	101.0168764	100.6340313	100.2541009	99.87705207	99.50285184	99.13146792	98.76286848
240311A00009	3/11/2024	4.38	3/11/2027	103.90491	103.0182249	102.146715	101.2899939	100.4476867	99.61943136	98.80487767	98.00368709	97.21553216
240312A00015	3/12/2024	4.13	3/12/2029	111.96343	108.9713454	106.0759956	103.2737343	100.5610712	97.93466643	95.39132288	92.9279794	90.54170423
240318A00015	3/18/2024	4.47	2/20/2029	112.5271	109.5884602	106.7430462	103.9873715	101.3180974	98.73202952	96.22611116	93.79741611	91.44314239
240318A00020	3/18/2024	4.48	3/19/2029	112.12015	109.2783715	106.5289517	103.8683342	101.2931211	98.80006534	96.38606247	94.04814393	91.78347011
240319A00004	3/19/2024	4.47	3/19/2027	104.13763	103.2267363	102.3318319	101.4524947	100.5883203	99.73891833	98.90391161	98.08293575	97.27563863
240319A00014	3/19/2024	4.44	3/19/2029	112.7632	109.7442679	106.823348	103.9967241	101.2608439	98.61230881	96.04786633	93.56440304	91.15893777
240320A00010	3/20/2024	4.77	3/20/2036	140.63849	129.509184	119.407307	110.2309983	101.8890451	94.29971587	87.38972812	81.09333451	75.3515114
240322A00013	3/22/2024	4.18	3/22/2029	112.21913	109.1957056	106.2708451	103.4407952	100.7019711	98.05094374	95.4844322	92.99929614	90.59252918
240322A00014	3/22/2024	4.51	5/22/2026	100.29168	100.2304206	100.1692488	100.1081661	100.0471725	99.98626767	99.92545146	99.86472366	99.80408408
240322A00018	3/22/2024	4.34	3/22/2027	104.05763	103.1387406	102.2361269	101.3493566	100.4780145	99.62169983	98.78002572	97.95261841	97.13911677
240322A00029	3/22/2024	4.36	3/22/2027	104.07576	103.1567798	102.2540781	101.3672208	100.4957928	99.63939327	98.79763534	97.97014519	97.15656169
240325A00040	3/25/2024	4.46	4/30/2027	104.59305	103.5632924	102.5538661	101.5641723	100.5936358	99.64170382	98.70784448	97.79154612	96.89231622
240327A00025	3/27/2024	4.35	3/26/2027	104.1158	103.1854423	102.2717489	101.374279	100.4926027	99.62630516	98.77498607	97.93825886	97.11575019
240327A00028	3/27/2024	4.4	3/27/2028	108.40921	106.4442957	104.525239	102.6506953	100.8193651	99.02999505	97.28137685	95.57234462	93.90177342
240328A00018	3/28/2024	4.39	3/29/2027	104.18968	103.2505476	102.3283894	101.4227434	100.5331682	99.65923864	98.80054398	97.95668798	97.12728796
240328A00022	3/28/2024	4.3	3/28/2028	108.34643	106.3772007	104.4540277	102.5755582	100.7404845	98.94754559	97.19552566	95.48325177	93.80959229
240328A00023	3/28/2024	4.22	3/28/2029	112.40341	109.3606877	106.417641	103.5704571	100.8154934	98.14926638	95.56844374	93.06983679	90.65039353
240328A00027	3/28/2024	4.39	3/29/2027	104.18968	103.2505476	102.3283894	101.4227434	100.5331682	99.65923864	98.80054398	97.95668798	97.12728796
240328A00052	3/28/2024	4.34	3/28/2029	112.57211	109.5311439	106.5896798	103.743921	100.9902343	98.32514476	95.74532836	93.24760414	90.82892736
240328A00061	3/28/2024	4.35	3/28/2029	112.60163	109.5602206	106.6183308	103.7721567	101.0180647	98.35257979	95.77237746	93.27427647	90.8552318
240328A00063	3/28/2024	4.47	3/28/2030	117.24783	113.0950317	109.1159549	105.3023994	101.6465972	98.14118546	94.77918383	91.55397228	88.45927062
240328A00064	3/28/2024	4.48	3/28/2031	121.38234	116.0995659	111.0849319	106.3233752	101.8007543	97.50379009	93.42000951	89.53769208	85.84582092
240328A00065	7/16/2024	4.46	7/16/2032	125.87899	119.1215833	112.7838672	106.837331	101.25556	96.0140667	91.09013972	86.46270535	82.11220073
240401A00006	4/1/2024	4.32	4/2/2029	112.38244	109.408186	106.5327156	103.7521594	101.0628253	98.46118742	95.94387735	93.50767611	91.14950669
240402A00015	4/2/2024	4.61	11/15/2027	107.16319	105.5798002	104.0281008	102.5072149	101.0162953	99.55452519	98.12111744	96.71531264	95.33637816
240403A00008	4/3/2024	4.67	4/2/2027	104.44463	103.4938541	102.560442	101.6439197	100.7438314	99.85973721	98.99121311	98.13784986	97.29925245
240403A00010	4/3/2024	4.54	4/5/2027	104.41779	103.4579692	102.5158528	101.5909489	100.6827881	99.79091822	98.91490306	98.05432194	97.20876895
240403A00013	4/3/2024	4.58	4/17/2028	109.01757	106.9876355	105.0064062	103.0724102	101.1842289	99.34049584	97.53989507	95.78115833	94.06306316
240403A00018	4/3/2024	4.67	4/5/2027	104.48336	103.5240201	102.5823569	101.6578841	100.7501332	99.85865293	98.98300789	98.12277824	97.27755882
240403A00022	4/3/2024	4.53	4/3/2029	113.20437	110.1372183	107.1708822	104.301492	101.5253488	98.83891623	96.23881201	93.72180028	91.28478452
240404A00004	4/4/2024	4.45	4/4/2029	112.97874	109.912096	106.9463734	104.0776902	101.3023401	98.61677993	96.01762073	93.5016207	91.06567766
240404A00012	4/4/2024	4.46	4/4/2029	113.00844	109.9413611	106.9752073	104.1061035	101.3303433	98.64438276	96.0448329	93.52845153	91.09213617

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240404A00015	4/4/2024	4.6	4/5/2027	104.4172	103.458203	102.5168733	101.5927296	100.6853037	99.7941443	98.91881615	98.05889945	97.21398916
240404A00019	6/3/2024	4.55	6/1/2027	105.08613	103.964235	102.8663809	101.791796	100.7397453	99.70952448	98.70045822	97.71189892	96.74322514
240404A00020	6/3/2024	4.55	6/1/2027	105.08613	103.964235	102.8663809	101.791796	100.7397453	99.70952448	98.70045822	97.71189892	96.74322514
240404A00021	4/4/2024	4.57	4/1/2031	119.76466	114.9847053	110.44226	106.1240129	102.0174745	98.11092173	94.39334688	90.85440982	87.48439401
240404A00023	4/4/2024	4.51	4/24/2028	108.96351	106.9143292	104.9147846	102.9633567	101.0585866	99.19907009	97.38345477	95.61043801	93.87876467
240405A00006	4/5/2024	4.63	4/5/2027	104.44556	103.4864103	102.5449377	101.620653	100.7130878	99.82179086	98.9463269	98.08627607	97.2412333
240405A00017	4/5/2024	4.5	4/5/2027	104.37997	103.4203482	102.4784225	101.5537068	100.6457319	99.75404559	98.87821167	98.01780955	97.17243336
240408A00015	4/8/2024	4.54	4/5/2029	113.25815	110.1845059	107.2120659	104.3369397	101.5554078	98.86391433	96.2590584	93.73758689	91.29638695
240409A00035	4/9/2024	4.66	4/9/2027	104.52544	103.5547198	102.6020975	101.6670676	100.7491453	99.84786323	98.96277113	98.09343479	97.23943544
240410A00007	4/10/2024	4.64	4/10/2028	109.17138	107.1574016	105.1913287	103.2717213	101.397196	99.56642013	97.77810931	96.03102559	94.32397532
240410A00008	4/10/2024	4.56	4/10/2029	113.56693	110.4700794	107.4757157	104.5798764	101.778776	99.06879606	96.44647721	93.90851103	91.45173258
240416A00019	4/16/2024	4.91	4/16/2027	104.85952	103.8675035	102.8943369	101.9394904	101.0024489	100.0827167	99.17981658	98.2932884	97.42268886
240416A00020	4/16/2024	4.85	4/17/2028	109.55616	107.520731	105.5341208	103.5948478	101.7014905	99.85267982	98.04709688	96.28347085	94.56057677
240416A00030	4/16/2024	4.78	4/16/2027	104.79197	103.799453	102.8258187	101.8705278	100.9330645	100.0129321	99.10965221	98.22276407	97.35182345
240417A00015	4/17/2024	4.76	4/16/2027	104.77245	103.7800366	102.8065036	101.8513126	100.9139479	99.99391286	99.09072912	98.20393585	97.33308891
240417A00016	4/17/2024	4.63	4/17/2029	113.86365	110.7423058	107.7248737	104.8073102	101.9857541	99.2565159	96.61606927	94.06104283	91.58821233
240417A00017	4/17/2024	4.63	4/17/2029	113.86365	110.7423058	107.7248737	104.8073102	101.9857541	99.2565159	96.61606927	94.06104283	91.58821233
240418A00004	4/18/2024	4.87	4/18/2031	123.56509	118.1682083	113.0475762	108.1875156	103.5733237	99.191204	95.02820634	91.07217018	87.31167255
240422A00040	4/22/2024	4.85	10/22/2026	102.46966	101.9784044	101.4918745	101.0100037	100.5327249	100.0599726	99.5916824	99.12779117	98.66823696
240423A00027	4/23/2024	4.93	3/31/2027	104.66091	103.714624	102.7855052	101.8730921	100.9769363	100.0966058	99.2316835	98.38176691	97.54646748
240423A00034	4/23/2024	4.92	4/19/2027	104.9101	103.9094108	102.9279025	101.9650221	101.020242	100.0930542	99.18296966	98.28951734	97.41224333
240424A00030	4/24/2024	4.89	4/21/2027	104.90762	103.9013473	102.9144649	101.9464141	100.9966586	100.0646824	99.14998847	98.25209851	97.37055156
240425A00010	4/25/2024	4.83	4/26/2027	104.97606	103.9545381	102.952973	101.9707862	101.0074186	100.0623321	99.13500897	98.22495109	97.33167867
240425A00021	4/25/2024	4.83	4/26/2027	104.97606	103.9545381	102.952973	101.9707862	101.0074186	100.0623321	99.13500897	98.22495109	97.33167867
240425A00028	4/25/2024	4.9	4/25/2028	109.76234	107.702107	105.6918027	103.7299001	101.8149303	99.94547907	98.12018476	96.33773576	94.59686836
240425A00029	4/25/2024	4.85	4/25/2029	114.43811	111.2895693	108.2464275	105.3045572	102.460019	99.70905	97.04805466	94.47359651	91.98239004
240425A00030	4/25/2024	4.85	4/25/2029	114.43811	111.2895693	108.2464275	105.3045572	102.460019	99.70905	97.04805466	94.47359651	91.98239004
240425A00032	4/25/2024	4.92	4/25/2030	119.39018	115.114507	111.020581	107.0996669	103.3435016	99.74426191	96.29453833	92.98731113	89.81592763
240426A00024	4/26/2024	4.79	4/26/2029	113.85564	110.7968452	107.8409812	104.9839567	102.2218688	99.55099347	96.96777611	94.46882274	92.05089169
240426A00044	4/26/2024	4.78	4/26/2027	104.92588	103.904621	102.9033232	101.9214003	100.9582929	100.0134631	99.0863933	98.17658545	97.28355982
240429A00006	4/29/2024	4.86	10/29/2026	102.57237	102.0612357	101.5552005	101.0541904	100.558131	100.0669489	99.58057253	99.09893149	98.6219568
240429A00052	4/29/2024	4.91	5/3/2027	105.09028	104.0494333	103.0292927	102.0292428	101.0486933	100.0870769	99.14384823	98.21848258	97.31047511
240430A00034	4/30/2024	4.69	4/30/2029	114.20871	111.0448539	107.9874977	105.0324544	102.1757228	99.41348147	96.74208023	94.15803114	91.65800036

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240430A00035	4/30/2024	4.94	4/30/2027	105.08004	104.0476251	103.0355791	102.0433014	101.0702163	100.1157699	99.17942968	98.26068328	97.35903743
240501A00017	5/1/2024	5.13	5/1/2026	100.0204	100.0176187	100.0148365	100.0120567	100.0092793	100.0065044	100.0037318	100.0009617	99.9981939
240501A00018	12/23/2024	4.83	12/23/2026	103.26045	102.5940256	101.9362292	101.2868934	100.6458556	100.012957	99.38804305	98.7709631	98.1615702
240501A00054	5/6/2024	4.79	5/4/2029	114.37035	111.1973774	108.1313771	105.1681286	102.3036055	99.53396325	96.85552969	94.26479647	91.75841053
240502A00013	5/2/2024	4.68	5/2/2028	109.5334	107.4534707	105.4244218	103.4446781	101.5127284	99.6271189	97.78645028	95.98937514	94.23459583
240502A00017	5/2/2024	4.81	5/2/2028	109.67186	107.5928805	105.5647001	103.5857563	101.6545414	99.7696048	97.92954996	96.13303234	94.37875694
240502A00030	5/2/2024	4.75	5/2/2029	114.22328	111.0581207	107.9995468	105.0433629	102.185562	99.42231795	96.7499759	94.16504366	91.6641834
240503A00009	5/3/2024	4.61	5/3/2029	113.80859	110.6469794	107.5919601	104.6393288	101.785075	99.02536901	96.3565531	93.7751323	91.27776633
240503A00016	5/3/2024	4.72	5/3/2028	109.39597	107.3190855	105.2929782	103.3160766	101.3868731	99.50391703	97.66581219	95.87121415	94.11882809
240503A00035	5/3/2024	4.92	5/1/2026	100.01959	100.0168041	100.0140223	100.011243	100.0084661	100.0056916	100.0029196	100.0001499	99.99738262
240506A00011	5/6/2024	4.46	5/4/2029	113.55557	110.3905572	107.3324453	104.3770159	101.5202402	98.75827147	96.0874359	93.50422354	91.00528003
240506A00020	5/6/2024	4.73	5/6/2027	104.94533	103.89691	102.8695192	101.8625309	100.8753407	99.90736795	98.95805437	98.02686327	97.11327834
240507A00017	5/7/2024	4.51	5/8/2028	109.26037	107.1667804	105.1246727	103.1324435	101.1885536	99.29152285	97.43992672	95.63239424	93.86760542
240507A00019	5/7/2024	4.51	5/8/2028	109.26037	107.1667804	105.1246727	103.1324435	101.1885536	99.29152285	97.43992672	95.63239424	93.86760542
240507A00020	5/7/2024	4.6	5/7/2027	104.88683	103.8350201	102.804388	101.7942935	100.804126	99.83329905	98.88124914	97.94743431	97.03133338
240507A00021	5/7/2024	4.77	5/7/2026	100.1016	100.0821035	100.0626253	100.0431674	100.0237299	100.0043125	99.98491541	99.96553846	99.94618165
240507A00034	5/7/2024	4.9	5/7/2026	100.10301	100.0835247	100.0640572	100.0446098	100.0251826	100.0057754	99.98638839	99.96702138	99.94767438
240507A00042	5/7/2024	4.57	5/7/2029	113.73437	110.5627991	107.4984369	104.5370485	101.6745887	98.90719565	96.23118125	93.64302215	91.13935147
240507A00043	5/7/2024	4.9	5/7/2026	100.10301	100.0835247	100.0640572	100.0446098	100.0251826	100.0057754	99.98638839	99.96702138	99.94767438
240507A00048	5/7/2024	4.73	5/7/2027	104.95839	103.9071045	102.8769635	101.867334	100.8776065	99.90719587	98.95553945	98.0220964	97.10634647
240507A00049	5/7/2024	4.64	5/8/2028	109.40016	107.3075176	105.2662791	103.2748498	101.3316939	99.43533437	97.58434972	95.77737184	94.01308343
240507A00051	5/7/2024	4.57	5/7/2029	113.73437	110.5627991	107.4984369	104.5370485	101.6745887	98.90719565	96.23118125	93.64302215	91.13935147
240508A00005	5/8/2024	4.59	5/8/2031	122.7081	117.2645666	112.1030245	107.2072926	102.5622033	98.15353525	93.96794895	89.99292762	86.21672207
240508A00006	5/8/2024	4.92	5/8/2026	100.11739	100.0951188	100.0728706	100.0506461	100.0284453	100.006268	99.98411424	99.96198403	99.93987728
240509A00005	5/9/2024	4.62	5/9/2029	113.91167	110.7318244	107.6595856	104.6906953	101.821088	99.04688329	96.36437518	93.77002376	91.26044652
240509A00010	5/9/2024	4.6	5/10/2027	104.92543	103.8650203	102.8261315	101.8081082	100.8103252	99.83218206	98.87310207	97.93253079	97.00993517
240509A00022	5/9/2024	4.66	5/9/2028	109.45369	107.3577368	105.3133102	103.3188084	101.3726906	99.4734746	97.61973431	95.81009714	94.04324157
240509A00023	5/9/2024	4.6	5/9/2029	113.85032	110.6714123	107.6000914	104.6320956	101.7633607	98.99000651	96.30832805	93.71478603	91.20599857
240510A00020	5/10/2024	4.63	5/10/2027	104.95671	103.8961265	102.8570654	101.8388722	100.8409216	99.86261321	98.90337021	97.96263814	97.03988387
240513A00022	5/13/2024	4.92	5/13/2026	100.18725	100.1510595	100.1149128	100.0788096	100.0427498	100.0067333	99.97075999	99.93482982	99.8989427
240513A00024	5/13/2024	4.74	5/13/2027	105.04725	103.9787051	102.9319953	101.9064542	100.9014431	99.91634858	98.9505818	98.00357674	97.0747894
240513A00025	5/13/2024	4.67	5/12/2028	109.51174	107.4069231	105.3539809	103.351291	101.3972974	99.49050338	97.62946935	95.8128098	94.03919099
240513A00026	5/13/2024	4.6	5/14/2029	113.91051	110.7167903	107.6314958	104.6503211	101.7691564	98.98407909	96.29134408	93.68737461	91.16875364

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240513A00045	5/17/2024	4.73	6/17/2027	105.49222	104.3232189	103.1802523	102.0624521	100.9689923	99.89908239	98.85196606	97.826919	96.82324735
240514A00065	5/14/2024	4.59	5/14/2029	113.8797	110.68645	107.6016183	104.6208948	101.74017	98.95552164	96.26320495	93.65964356	91.14142075
240515A00002	5/15/2024	4.4	11/13/2028	111.30629	108.6614666	106.0943182	103.6020942	101.1821594	98.83198864	96.5491615	94.33135703	92.1763491
240515A00003	5/15/2024	4.36	5/15/2029	113.37702	110.1841885	107.0999892	104.1201023	101.2404029	98.45695425	95.76599826	93.16394597	90.64736897
240515A00023	5/15/2024	4.51	5/15/2029	113.64496	110.4525586	107.3686418	104.3888985	101.5092133	98.72565826	96.03448367	93.43210832	90.91511108
240515A00024	5/15/2024	4.59	5/15/2028	109.38343	107.2717177	105.2121839	103.2031934	101.2431757	99.33062091	97.46407658	95.64214524	93.86348185
240515A00026	5/15/2024	4.64	5/17/2027	104.99341	103.9139922	102.8568594	101.8213276	100.8067383	99.81245963	98.83788496	97.88243159	96.94553962
240515A00027	5/15/2024	4.5	5/19/2027	104.93445	103.8488244	102.785742	101.7445087	100.7244547	99.72493738	98.74533995	97.78507012	96.84355893
240515A00035	5/15/2024	4.57	5/15/2028	109.34198	107.2307069	105.1716023	103.1630324	101.2034272	99.29127692	97.4251293	95.60358712	93.82530554
240515A00036	5/17/2024	4.63	6/17/2027	105.37742	104.2091219	103.0668453	101.9497246	100.8569338	99.78768299	98.74121587	97.71680843	96.71376706
240515A00037	5/15/2024	4.5	5/15/2029	113.61412	110.4221913	107.3387383	104.359447	101.4802024	98.69707702	96.00632146	93.40435486	90.88775643
240515A00038	5/15/2024	4.5	5/15/2029	113.61412	110.4221913	107.3387383	104.359447	101.4802024	98.69707702	96.00632146	93.40435486	90.88775643
240515A00039	5/15/2024	4.57	5/15/2030	118.21178	113.9032628	109.7802097	105.8335998	102.0549052	98.4360576	94.96942102	91.64776611	88.46424617
240515A00041	7/1/2024	4.69	7/1/2027	105.62595	104.4169538	103.2357552	102.0813989	100.9529762	99.84961895	98.77049736	97.71481796	96.68182161
240515A00048	7/1/2024	4.55	7/2/2029	114.34853	111.009119	107.7868488	104.6768934	101.6746617	98.77578068	95.9760836	93.2715988	90.65853917
240515A00050	7/1/2024	4.55	7/2/2029	114.34853	111.009119	107.7868488	104.6768934	101.6746617	98.77578068	95.9760836	93.2715988	90.65853917
240515A00052	7/1/2024	4.79	7/3/2034	135.01913	125.9033183	117.5026901	109.7566169	102.6099382	96.01243893	89.9183805	84.28607918	79.07752607
240515A00066	6/28/2024	4.8	6/29/2026	100.83016	100.6628892	100.4961687	100.33	100.1643805	99.99930738	99.83477806	99.67078983	99.50734004
240515A00067	6/28/2024	4.8	6/29/2026	100.83016	100.6628892	100.4961687	100.33	100.1643805	99.99930738	99.83477806	99.67078983	99.50734004
240515A00068	6/28/2024	4.8	6/29/2026	100.83016	100.6628892	100.4961687	100.33	100.1643805	99.99930738	99.83477806	99.67078983	99.50734004
240515A00089	5/15/2024	4.5	5/15/2029	113.61412	110.4221913	107.3387383	104.359447	101.4802024	98.69707702	96.00632146	93.40435486	90.88775643
240516A00025	5/17/2024	4.55	10/16/2028	111.18831	108.6267047	106.1384036	103.7208789	101.37171	99.08857421	96.86924205	94.71157292	92.61351098
240516A00038	5/16/2024	4.9	5/18/2026	100.25628	100.2061683	100.1561272	100.1061532	100.0562462	100.006406	99.9566325	99.90692557	99.85728507
240517A00011	5/17/2024	4.61	5/17/2028	109.44953	107.3316241	105.2661269	103.2513986	101.2858583	99.36798609	97.49632036	95.66945479	93.88603599
240517A00017	5/17/2024	4.4	5/17/2029	113.52384	110.3231804	107.2315398	104.2445782	101.3581508	98.56830204	95.87125632	93.26340816	90.74131365
240517A00026	5/17/2024	4.68	5/17/2027	105.03588	103.9562235	102.8988529	101.8630866	100.8482662	99.85375974	98.87896039	97.92328541	96.98617485
240520A00016	5/20/2024	4.57	8/16/2027	106.11486	104.7823265	103.4777123	102.2001414	100.9487765	99.72281516	98.52148795	97.34405675	96.18981309
240520A00018	5/20/2024	4.84	10/15/2026	102.33946	101.8684592	101.4018094	100.9394522	100.4813285	100.02738	99.57754971	99.13178154	98.69002045
240520A00020	5/20/2024	4.79	1/15/2027	103.53609	102.8044605	102.0832106	101.3721167	100.6709647	99.97954694	99.29766111	98.62511067	97.96170442
240520A00025	5/20/2024	4.75	4/15/2027	104.69029	103.7019527	102.7323537	101.7809618	100.8472668	99.93077719	99.03101968	98.14753813	97.27989292
240520A00027	5/20/2024	4.7	10/15/2027	106.92421	105.4286318	103.9617643	102.5228547	101.1111721	99.72601057	98.36668802	97.0325454	95.72294559
240520A00041	5/20/2024	4.83	11/25/2026	102.88942	102.3023714	101.7220353	101.1482984	100.5810483	100.0201753	99.46557216	98.91713399	98.37475827
240521A00006	5/21/2024	4.9	5/21/2026	100.29806	100.239599	100.1812241	100.1229324	100.0647236	100.0065976	99.94855415	99.89059314	99.83271438

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240522A00012	5/22/2024	4.67	5/22/2028	109.63669	107.5030241	105.4223733	103.3930626	101.4134849	99.48209554	97.59740921	95.75799736	93.96248552
240522A00027	5/22/2024	4.62	5/21/2027	105.08843	103.9963169	102.926997	101.8797588	100.8539221	99.84883448	98.86386997	97.89842744	96.95192955
240522A00039	5/22/2024	4.76	5/24/2027	105.21282	104.1125597	103.0354105	101.98065	100.9475842	99.93554737	98.94390108	97.97203239	97.01935273
240523A00027	5/23/2024	4.49	5/24/2029	113.8856	110.6598339	107.5443941	104.5348645	101.6270321	98.81687726	96.10056431	93.47443136	90.93498147
240524A00011	5/24/2024	5.02	5/19/2026	100.27659	100.223691	100.1708665	100.1181144	100.0654343	100.0128263	99.96029013	99.90782566	99.85543274
240524A00027	5/24/2024	4.82	6/30/2027	105.76734	104.5602399	103.3808204	102.2281344	101.1012792	99.99939203	98.92164848	97.86725998	96.835472
240125A00058	1/16/2025	3.85	6/11/2027	104.41887	103.273118	102.1525547	101.0563587	99.98374042	98.93394421	97.90624639	96.89995363	95.91440138
240131A00019	1/16/2025	3.69	6/12/2026	100.46229	100.3426938	100.2233942	100.1043928	99.98568844	99.86727991	99.74916608	99.63134582	99.513818
240118A00057	3/14/2025	3.81	5/14/2027	104.0806	103.0147153	101.970698	100.9478823	99.94562601	98.96331314	98.0003519	97.05617376	96.13023231
240308A00010	5/22/2025	3.88	6/24/2026	100.6204	100.4672975	100.3146653	100.1625054	100.0108155	99.85959346	99.70883714	99.55854434	99.40871293
240503A00030	5/22/2025	4.46	7/17/2026	101.0053	100.7877924	100.5712344	100.3556219	100.1409483	99.92720767	99.71439373	99.50250041	99.29152166
240508A00008	5/8/2025	4.42	5/10/2027	104.67444	103.6163579	102.579743	101.563942	100.5683316	99.59231318	98.63531149	97.69677372	96.77616832
230831A00078	8/29/2025	3.91	8/30/2030	116.56004	111.9857263	107.6205667	103.4539002	99.47566444	95.67635825	92.04700745	88.57913299	85.26472119
230914A00143	9/15/2025	4.06	9/16/2030	117.39177	112.7509839	108.3242911	104.100681	100.0697659	96.22174241	92.54735602	89.0378672	85.68502027
ADV1006437	5/28/2024	4.799	6/28/2027	105.71634	104.5151464	103.3413771	102.1940983	101.0724193	99.97548848	98.90249209	97.85265154	96.82522173
ADV1006438	5/28/2024	4.644	5/29/2029	114.22867	110.9882632	107.8588968	104.836111	101.9156557	99.09347672	96.36570594	93.728651	91.1787864
ADV1006450	5/28/2024	5.047	5/28/2026	100.40699	100.3290426	100.2512199	100.173523	100.0959518	100.0185058	99.94118488	99.86398863	99.7869168
ADV1006474	5/28/2024	5.044	5/28/2026	100.40676	100.3288092	100.2509867	100.17329	100.095719	100.0182732	99.94095244	99.86375639	99.78668474
ADV1006478	5/28/2024	4.775	5/30/2028	109.9588	107.7996308	105.6944495	103.6415356	101.6392394	99.68597564	97.78022091	95.92051051	94.10543577
ADV1006508	5/29/2024	4.746	9/12/2028	111.24338	108.7763333	106.3773968	104.0443086	101.7748966	99.56707313	97.41883099	95.32824018	93.29344427
ADV1006512	5/29/2024	4.762	7/17/2028	110.55279	108.2521783	106.0117059	103.8293539	101.7031888	99.63135849	97.61208746	95.6436733	93.72448286
ADV1006538	5/29/2024	4.952	11/25/2026	102.96029	102.3730088	101.7924403	101.2184727	100.6509939	100.089894	99.53506576	98.98640431	98.44380708
ADV1006559	5/29/2024	4.894	7/30/2027	106.2482	104.9542048	103.6918987	102.4601246	101.2577825	100.0838247	98.93725284	97.81711481	96.72250226
ADV1006562	5/29/2024	4.768	6/29/2029	115.01221	111.6705572	108.4457854	105.3330915	102.3279059	99.4258756	96.62285239	93.91488167	91.29819211
ADV1006570	5/29/2024	4.908	5/28/2027	105.42706	104.3143455	103.2252259	102.1589563	101.114822	100.0921376	99.09024589	98.10851632	97.14634355
ADV1006582	5/30/2024	5.037	5/29/2026	100.42052	100.3397837	100.2591852	100.1787193	100.0983857	100.0181841	99.93811416	99.85817554	99.77836796
ADV1006583	5/30/2024	4.859	5/28/2027	105.37353	104.2611309	103.1723191	102.1063529	101.0625175	100.0401277	99.03852646	98.05708319	97.09519273
ADV1006595	5/30/2024	5.031	5/29/2026	100.42003	100.3393005	100.2587024	100.1782369	100.0979037	100.0177025	99.93763293	99.85769471	99.77788752
ADV1006596	5/30/2024	4.859	5/28/2027	105.37353	104.2611309	103.1723191	102.1063529	101.0625175	100.0401277	99.03852646	98.05708319	97.09519273
ADV1006598	5/30/2024	4.783	5/30/2028	109.97553	107.8161807	105.7108218	103.6577342	101.6552679	99.70183762	97.79591976	95.93604955	94.12081824
ADV1006599	5/30/2024	4.695	5/30/2029	114.40007	111.1542055	108.019618	104.9918347	102.0665941	99.23983129	96.50766796	93.86640226	91.31249974
ADV1006606	5/30/2024	4.579	5/30/2029	113.39369	110.3391445	107.3890314	104.5391043	101.7853213	99.12383086	96.55096175	94.06321304	91.65724515
ADV1006633	5/31/2024	4.653	5/28/2027	105.21495	104.1024849	103.0136364	101.9476554	100.9038259	99.88146152	98.87990414	97.89852222	96.93670963

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1006634	5/31/2024	4.572	5/31/2028	109.67293	107.5115718	105.4043604	103.349568	101.3455367	99.39067397	97.48344929	95.62239134	93.80608516
ADV1006650	5/31/2024	4.854	5/29/2026	100.41058	100.3298093	100.2491704	100.1686647	100.0882919	100.0080517	99.92794366	99.84796758	99.7681231
ADV1006652	5/31/2024	4.854	5/29/2026	100.41058	100.3298093	100.2491704	100.1686647	100.0882919	100.0080517	99.92794366	99.84796758	99.7681231
ADV1006656	5/31/2024	4.99	5/29/2026	100.41673	100.3359984	100.2554031	100.1749403	100.0946098	100.0144114	99.93434451	99.85440901	99.77460454
ADV1006657	5/31/2024	4.811	5/28/2027	105.3211	104.2090023	103.1204921	102.0548231	101.0112805	99.98917931	98.98786252	98.00669972	97.04508579
ADV1006659	5/31/2024	4.732	5/31/2028	109.88038	107.7193066	105.6123151	103.5576827	101.5537548	99.59894195	97.69171651	95.83060988	94.01420969
ADV1006680	6/3/2024	4.924	6/3/2026	100.48695	100.3922733	100.2977756	100.2034604	100.1093272	100.0153754	99.92160455	99.82801404	99.73460337
ADV1006681	6/3/2024	4.731	6/3/2027	105.3163	104.1874616	103.0829243	102.0019074	100.9436641	99.90747917	98.89266701	97.89857015	96.92455788
ADV1006683	6/3/2024	4.637	6/5/2028	109.74738	107.5735645	105.454416	103.3881781	101.3731689	99.40777339	97.49044	95.61967735	93.79405164
ADV1006724	6/4/2024	4.536	6/4/2027	105.17989	104.04805	102.9406611	101.8569332	100.7961126	99.75747752	98.74033618	97.74402535	96.76790884
ADV1006759	6/5/2024	4.502	6/5/2029	113.873	110.6183263	107.4757655	104.4407888	101.5090832	98.67653592	95.93922382	93.29340328	90.73550086
ADV1006780	6/5/2024	4.435	6/1/2029	113.61484	110.3756831	107.2478191	104.2267732	101.3082751	98.48825242	95.76281952	93.1282682	90.58105816
ADV1006793	6/6/2024	4.835	6/8/2026	100.54769	100.4390641	100.3306872	100.2225558	100.114669	100.0070259	99.89962576	99.79246764	99.6855507
ADV1006802	6/6/2024	4.287	6/6/2029	113.40702	110.1520973	107.0095389	103.9747989	101.0435471	98.21165456	95.47518308	92.8303751	90.27364409
ADV1006844	6/7/2024	4.772	6/7/2027	105.4136	104.2729819	103.157165	102.0653411	100.9967407	99.95062743	98.92629536	97.92306806	96.94029685
ADV1006845	6/7/2024	4.686	6/7/2028	109.87704	107.6961176	105.5701338	103.4973214	101.4759868	99.50450357	97.58130929	95.70490252	93.87383983
ADV1006846	6/7/2024	4.579	6/7/2029	114.13926	110.8746648	107.722641	104.6786393	101.7383233	98.89755838	96.1524008	93.49908762	90.9340272
ADV1006860	6/10/2024	4.684	6/10/2030	118.9967	114.5983314	110.3917427	106.3674862	102.5166306	98.83073346	95.30181163	91.92231343	88.68509276
ADV1006862	6/10/2024	4.698	6/12/2028	109.9665	107.7703891	105.6298473	103.5430811	101.5083682	99.52405513	97.58855383	95.70033868	93.85794342
ADV1006864	6/10/2024	4.684	6/10/2030	118.9967	114.5983314	110.3917427	106.3674862	102.5166306	98.83073346	95.30181163	91.92231343	88.68509276
ADV1006866	6/10/2024	4.751	6/10/2032	127.35168	120.6518718	114.3617016	108.4537486	102.9025746	97.68457048	92.77781447	88.16194302	83.81803181
ADV1006868	6/10/2024	4.737	6/10/2031	123.49024	117.9436286	112.6879655	107.7063356	102.9829019	98.50282898	94.25221458	90.21802535	86.38803798
ADV1006872	6/10/2024	4.778	6/10/2027	105.45889	104.309614	103.1855034	102.0857389	101.0095342	99.95613669	98.92482533	97.91490938	96.92572665
ADV1006873	6/10/2024	4.612	6/4/2029	114.20535	110.9483194	107.8033584	104.7659446	101.8317704	98.99672815	96.25689944	93.60854492	91.04809503
ADV1006874	6/11/2024	4.614	6/1/2029	114.17448	110.9265442	107.7901311	104.7607542	101.834136	99.00619678	96.27304447	93.6309643	91.07640978
ADV1006912	6/11/2024	4.816	6/11/2026	100.59335	100.4762495	100.3594412	100.2429191	100.1266821	100.0107291	99.89505898	99.7796707	99.66456318
ADV1006931	6/12/2024	4.404	6/12/2029	113.64638	110.3752224	107.2173239	104.1680871	101.2231329	98.37828636	95.62956641	92.97317526	90.40548875
ADV1006935	6/12/2024	4.796	6/12/2026	100.59758	100.4777738	100.3582678	100.2390606	100.1201509	100.0015376	99.88321962	99.76519571	99.64746477
ADV1006936	6/12/2024	4.561	6/14/2027	105.26367	104.1043945	102.9707638	101.8619285	100.7770801	99.71544478	98.67628193	97.65888206	96.66256532
ADV1006937	6/12/2024	4.656	6/12/2026	100.58798	100.4681061	100.3485375	100.2292686	100.1102982	99.99162512	99.87324827	99.75516645	99.63737852
ADV1006953	6/12/2024	4.55	6/14/2027	105.25112	104.0919275	102.9583718	101.8496104	100.7648347	99.70327106	98.6641788	97.64684848	96.65060029
ADV1006954	6/12/2024	4.466	6/12/2028	109.46735	107.2766907	105.1414916	103.0599608	101.030379	99.05109575	97.12052583	95.23714638	93.3994938
ADV1006955	6/12/2024	4.371	6/12/2029	113.54202	110.2725088	107.1162167	104.068545	101.1251157	98.28175547	95.5344844	92.87950596	90.31319718

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1006956	6/12/2024	4.382	6/12/2029	113.5768	110.3067467	107.1499191	104.1017257	101.1577881	98.31393244	95.5661784	92.91072906	90.34396104
ADV1006960	6/12/2024	4.668	6/12/2026	100.58942	100.4695464	100.3499763	100.2307058	100.1117338	99.99305925	99.87468085	99.7565975	99.63880803
ADV1006962	6/12/2024	4.822	6/12/2026	100.6007	100.4808943	100.361385	100.2421744	100.1232614	100.0046447	99.88632337	99.76829611	99.65056183
ADV1006965	6/17/2024	4.601	7/1/2027	105.52224	104.3139071	103.1333581	101.9796404	100.8518457	99.74910592	98.67059172	97.61550986	96.58310147
ADV1006966	6/12/2024	4.44	6/12/2029	113.76023	110.4872736	107.3276225	104.2766785	101.3300607	98.48359277	95.73329224	93.07535996	90.50617046
ADV1006967	6/12/2024	4.643	6/14/2027	105.35717	104.1973302	103.0631403	101.9537544	100.8683637	99.8061943	98.76650525	97.7485869	96.75175923
ADV1006980	6/13/2024	4.665	6/15/2026	100.62974	100.5014945	100.3735953	100.2460373	100.1188191	99.99193934	99.86539652	99.73918931	99.6133163
ADV1006988	6/13/2024	4.393	6/13/2029	113.62319	110.349543	107.1893174	104.1379116	101.1909366	98.34420869	95.59373823	92.93571958	90.36652119
ADV1007001	6/13/2024	4.268	6/13/2029	112.95507	109.7848444	106.7249021	103.7707023	100.9179216	98.16244307	95.50034496	92.92788988	90.44151485
ADV1007016	6/13/2024	4.324	6/13/2028	109.30691	107.1125933	104.9739316	102.8891281	100.8564541	98.8742501	96.94092271	95.05494114	93.21483434
ADV1007017	6/13/2024	4.543	8/4/2027	105.86414	104.5610968	103.2888466	102.0462957	100.8324054	99.64618521	98.48669004	97.35301757	96.24430588
ADV1007019	6/13/2024	4.42	6/14/2027	105.17204	104.0122753	102.8781835	101.7689174	100.6836669	99.62165694	98.58214539	97.56442153	96.56780432
ADV1007020	6/13/2024	4.251	2/2/2029	111.86059	108.9823852	106.1942029	103.4926336	100.8744197	98.33645111	95.87575688	93.48949812	91.17496092
ADV1007052	6/14/2024	4.323	6/14/2029	113.41304	110.1398538	106.9801852	103.92942	100.9831622	98.1372212	95.38760148	92.73049166	90.16225495
ADV1007060	6/14/2024	4.361	5/21/2029	113.25613	110.0531006	106.9593938	103.9706411	101.0826779	98.29153052	95.59340622	92.98468374	90.46190447
ADV1007063	6/14/2024	4.804	6/15/2026	100.63985	100.5116663	100.3838271	100.2563282	100.1291679	100.0023451	99.87585835	99.74970621	99.62388734
ADV1007066	6/14/2024	4.562	6/14/2027	105.26446	104.1051688	102.9715207	101.8626686	100.7778038	99.71615273	98.67697457	97.65955986	96.66322872
ADV1007068	6/18/2024	4.512	11/1/2027	106.84112	105.2997999	103.7889209	102.3076577	100.8552143	99.43082285	98.03374229	96.66325712	95.31867634
ADV1007096	6/17/2024	4.852	6/17/2026	100.67321	100.5394421	100.4060405	100.2730075	100.1403415	100.0080411	99.87610458	99.74453049	99.61331728
ADV1007098	6/17/2024	4.614	6/17/2027	105.36098	104.1927234	103.0504894	101.9334118	100.8406646	99.77145757	98.72503462	97.70067161	96.69767487
ADV1007099	6/17/2024	4.522	6/20/2028	109.68611	107.470354	105.3110987	103.2065012	101.1547954	99.15428638	97.20334733	95.3004159	93.44399117
ADV1007100	6/17/2024	4.415	6/18/2029	113.75115	110.4611615	107.2855454	104.2196382	101.2589993	98.3993963	95.63679447	92.9673456	90.38737833
ADV1007107	6/17/2024	4.278	6/18/2029	113.51641	110.2253585	107.0488557	103.9822253	101.0210156	98.16098427	95.39808688	92.7284664	90.14844314
ADV1007146	6/18/2024	4.482	6/20/2028	109.5992	107.3844059	105.2260913	103.1224154	101.0716128	99.07198898	97.12191772	95.21983712	93.36424677
ADV1007153	6/20/2024	4.502	2/25/2028	108.23483	106.3570826	104.5214707	102.7267798	100.9718436	99.25553713	97.57677492	95.9345095	94.32772965
ADV1007160	6/18/2024	4.638	1/19/2027	103.47905	102.7364336	102.0045079	101.2830441	100.5718184	99.8706136	99.17921859	98.49742811	97.82504261
ADV1007167	6/18/2024	4.805	6/18/2026	100.68077	100.5442023	100.4080234	100.2722275	100.1368131	100.0017784	99.86712185	99.73284183	99.59893671
ADV1007168	6/18/2024	4.556	6/18/2027	105.30685	104.1361313	102.991549	101.8722357	100.7773599	99.70612613	98.65777308	97.63157198	96.62682472
ADV1007173	6/18/2024	4.389	6/20/2034	118.25939	113.5683599	109.1450686	104.9714196	101.0306851	97.30739505	93.78723365	90.45694534	87.30424865
ADV1007211	6/20/2024	4.562	9/27/2027	106.51415	105.0709183	103.6545336	102.2643116	100.8995887	99.55972371	98.24409618	96.952106	95.68317245
ADV1007218	6/20/2024	4.777	8/20/2026	101.54401	101.2308908	100.9197203	100.6104756	100.3031387	99.99769199	99.69411791	99.3923992	99.09251877
ADV1007219	6/20/2024	4.682	12/21/2026	103.13894	102.4784945	101.8265322	101.1828899	100.5474088	99.91993409	99.30031475	98.68840365	98.08405731
ADV1007220	6/20/2024	4.59	6/21/2027	105.38337	104.2038083	103.0507605	101.923342	100.8207037	99.74203359	98.68655486	97.65352402	96.64222906

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1007227	6/20/2024	4.835	6/22/2026	100.74019	100.5924576	100.4451699	100.2983246	100.1519195	100.0059528	99.86042225	99.71532604	99.57066218
ADV1007228	6/20/2024	4.588	6/21/2027	105.38105	104.2015037	103.04847	101.9210654	100.8184408	99.73978407	98.68431859	97.65130079	96.64001869
ADV1007230	6/20/2024	4.494	6/20/2028	109.62493	107.4098417	105.2512384	103.14728	101.0962007	99.09630612	97.14596961	95.24362918	93.38778427
ADV1007267	6/21/2024	4.49	6/21/2028	109.6284	107.4104355	105.2490828	103.1424942	101.0888982	99.08659481	97.13395243	95.2294042	93.37144497
ADV1007329	6/25/2024	4.377	6/25/2029	113.7111	110.4017452	107.2079942	104.1251147	101.1485959	98.27414028	95.49765169	92.81522475	90.22313452
ADV1007352	6/25/2024	4.827	6/25/2026	100.77961	100.6235067	100.4678941	100.3127699	100.1581316	100.0039771	99.85030405	99.6971102	99.5443933
ADV1007353	6/25/2024	4.575	6/25/2027	105.41508	104.2241526	103.0602454	101.9224431	100.8098734	99.72170219	98.65713196	97.61539959	96.5957746
ADV1007378	6/26/2024	4.529	6/26/2030	118.5375	114.102347	109.8624097	105.8079741	101.9298705	98.21943624	94.66848465	91.26927581	88.01448951
ADV1007379	6/26/2024	4.573	6/26/2031	122.81102	117.2352688	111.9543781	106.9510788	102.2092064	97.71362719	93.45016635	89.40554213	85.56730448
ADV1007380	6/26/2024	4.622	6/28/2032	126.7274	119.9943655	113.6761986	107.7449246	102.1746098	96.94119838	92.02236654	87.3973884	83.04701325
ADV1007385	6/26/2024	4.302	6/26/2029	113.68512	110.3684666	107.1678666	104.0785584	101.0960069	98.215892	95.43409625	92.74669439	90.14994274
ADV1007406	6/27/2024	4.515	6/27/2028	109.75615	107.5197514	105.3407449	103.2172444	101.1474428	99.12960692	97.16207346	95.24324584	93.37159078
ADV1007413	6/27/2024	4.827	6/29/2026	100.83503	100.6677536	100.5010281	100.3348544	100.1692298	100.0041517	99.83961733	99.67562403	99.51216914
ADV1007421	7/1/2024	4.411	6/18/2029	113.74128	110.4515697	107.2762194	104.2105706	101.2501827	98.39082372	95.62845907	92.95924083	90.37949788
ADV1007425	6/27/2024	4.798	7/31/2026	101.27242	101.015513	100.7599085	100.5055941	100.2525601	100.0007968	99.75029477	99.50104451	99.25303671
ADV1007426	6/27/2024	4.473	6/28/2027	105.40409	104.2037639	103.0308714	101.8844801	100.7636981	99.66767291	98.59558974	97.54666914	96.52016522
ADV1007429	6/27/2024	4.826	6/29/2026	100.83487	100.667587	100.5008617	100.3346882	100.1690639	100.0039859	99.83945176	99.67545866	99.51200399
ADV1007447	6/28/2024	4.576	6/28/2027	105.45351	104.2539672	103.0818183	101.9361342	100.8160249	99.72063966	98.64916513	97.6008234	96.57486995
ADV1007449	6/28/2024	4.391	6/28/2029	113.79084	110.4716223	107.2685907	104.1769704	101.1922191	98.31000953	95.5262181	92.83691349	90.23834651
ADV1007452	6/28/2024	4.403	6/28/2029	113.82931	110.5094807	107.3058489	104.2136442	101.2283235	98.34555922	95.56122713	92.8713955	90.27231467
ADV1007489	6/28/2024	4.799	8/14/2026	101.46631	101.1701244	100.8756794	100.5829626	100.2919587	100.0026525	99.71502924	99.42907403	99.14477231
ADV1007522	7/1/2024	4.894	7/1/2026	100.87923	100.7063366	100.5340391	100.3623308	100.1912087	100.0206698	99.85071114	99.68132972	99.51252266
ADV1007585	7/2/2024	4.518	7/2/2029	114.24985	110.912085	107.6914127	104.5830133	101.5822969	98.68489169	95.88663239	93.18354853	90.57185415
ADV1007586	7/2/2024	4.518	7/2/2029	114.24985	110.912085	107.6914127	104.5830133	101.5822969	98.68489169	95.88663239	93.18354853	90.57185415
ADV1007610	7/3/2024	4.582	7/6/2027	105.56333	104.3408068	103.1467235	101.9800925	100.8399734	99.72546834	98.63571955	97.56990732	96.52724778
ADV1007622	7/3/2024	4.58	7/6/2027	105.56092	104.3384186	103.1443504	101.9777343	100.8376297	99.72313898	98.63340432	97.567606	96.52496017
ADV1007648	7/5/2024	4.367	7/5/2029	113.54643	110.2651319	107.1003487	104.0472143	101.101096	98.25758475	95.51248295	92.86179235	90.30170331
ADV1007651	7/5/2024	4.224	7/5/2029	113.54009	110.2005227	106.9785697	103.8693732	100.8683072	97.97096679	95.17315534	92.4708736	89.86030876
ADV1007660	7/5/2024	4.343	7/6/2029	113.73153	110.3910283	107.1681176	104.057945	101.0558861	98.15753742	95.35870385	92.65538744	90.04377668
ADV1007673	7/5/2024	4.194	7/5/2029	113.4432	110.1051957	106.8847635	103.7770479	100.7774244	97.88148926	95.08504722	92.38410018	89.77483648
ADV1007693	7/8/2024	4.357	4/9/2029	112.76364	109.6859866	106.7101022	103.8320538	101.0480871	98.35461322	95.74820102	93.22556864	90.78357639
ADV1007695	7/8/2024	4.378	1/10/2029	111.77408	108.9648948	106.2418686	103.601797	101.0416154	98.55839565	96.14933806	93.8117653	91.54311581
ADV1007696	7/8/2024	4.411	9/13/2028	110.45317	107.9929032	105.6006857	103.2742584	101.011448	98.81016592	96.66840423	94.58423222	92.5557929

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1007703	7/8/2024	4.366	7/8/2027	105.39983	104.1716298	102.9721548	101.8004069	100.6554314	99.53631669	98.44219244	97.37222691	96.32562496
ADV1007723	7/9/2024	4.593	7/9/2026	100.94285	100.7474965	100.5529078	100.3590835	100.1660191	99.97371016	99.78215207	99.59134038	99.40127067
ADV1007736	7/9/2024	4.517	7/9/2027	105.52019	104.2895586	103.087753	101.9137673	100.7666418	99.64546073	98.54934944	97.47747229	96.42903048
ADV1007761	7/10/2024	4.57	7/10/2026	100.95171	100.7535576	100.5561929	100.359615	100.1638193	99.96880104	99.77455543	99.58107786	99.38836368
ADV1007770	7/10/2024	4.353	7/12/2027	105.43074	104.1911768	102.980874	101.7987985	100.6439695	99.51545114	98.41235026	97.33381356	96.27902568
ADV1007786	7/11/2024	4.084	7/11/2029	113.15135	109.801442	106.5700713	103.4523165	100.4434944	97.53914642	94.73502643	92.02708873	89.41147734
ADV1007787	7/11/2024	4.357	7/12/2027	105.36147	104.1234977	102.9147306	101.7341396	100.580746	99.45361644	98.35185949	97.27462387	96.22109602
ADV1007788	7/11/2024	4.292	7/11/2028	109.43099	107.1595877	104.9472805	102.792101	100.6921602	98.64564766	96.65082757	94.7060349	92.80967188
ADV1007789	7/11/2024	4.221	7/11/2029	113.39121	110.0423556	106.8118589	103.6948086	100.686533	97.78258426	94.97872618	92.27092247	89.6553259
ADV1007793	7/11/2024	4.233	5/9/2029	112.72735	109.5656788	106.5111524	103.5595271	100.7067526	97.94896247	95.28246453	92.70373197	90.20939487
ADV1007797	7/11/2024	4.612	6/30/2026	100.81528	100.6452532	100.4757974	100.3069095	100.1385866	99.97082591	99.80362469	99.63698015	99.47088953
ADV1007827	7/12/2024	4.093	7/12/2029	113.19116	109.8378372	106.6032533	103.4824722	100.4707995	97.5637663	94.75711679	92.04679621	89.42894008
ADV1007828	7/12/2024	4.233	7/12/2029	113.44092	110.0884949	106.8546323	103.7344066	100.723135	97.81635909	95.00983294	92.29951108	89.6815377
ADV1007829	7/12/2024	4.234	7/12/2029	113.44416	110.091688	106.8577741	103.7374986	100.7261784	97.81935522	95.01278298	92.30241621	89.68439906
ADV1007830	7/12/2024	4.234	7/12/2029	113.44416	110.091688	106.8577741	103.7374986	100.7261784	97.81935522	95.01278298	92.30241621	89.68439906
ADV1007874	7/15/2024	4.332	7/15/2027	105.36499	104.1186361	102.9018784	101.7136709	100.5530156	99.41896045	98.31059707	97.22705793	96.16751426
ADV1007889	7/15/2024	4.252	3/12/2027	103.86008	102.9700415	102.0952989	101.2354584	100.3901409	99.55898004	98.74162181	97.93772383	97.146955
ADV1007906	7/16/2024	4.081	7/16/2029	113.1941	109.8296763	106.5847136	103.4542371	100.4335102	97.51802448	94.70348737	91.98580975	89.36109503
ADV1007923	7/16/2024	4.075	7/16/2029	113.17455	109.8104365	106.5657836	103.4356087	100.4151755	97.49997593	94.68571756	91.96831156	89.3438616
ADV1007924	7/16/2024	4.075	7/16/2029	113.17455	109.8104365	106.5657836	103.4356087	100.4151755	97.49997593	94.68571756	91.96831156	89.3438616
ADV1007925	7/16/2024	4.545	7/16/2026	101.01252	100.797726	100.583857	100.3709104	100.1588801	99.94776009	99.73754449	99.52822739	99.31980297
ADV1007927	7/16/2024	4.54	7/16/2026	101.01145	100.7966556	100.5827882	100.3698432	100.1578145	99.94669613	99.73648212	99.52716661	99.31874378
ADV1007928	7/16/2024	4.295	1/18/2028	107.40105	105.6394775	103.9156768	102.2285024	100.576851	98.95966421	97.37592581	95.82465981	94.30492836
ADV1007939	7/16/2024	4.527	7/16/2026	101.00866	100.7938725	100.5800094	100.3670686	100.1550441	99.94392983	99.73371997	99.52440859	99.31598987
ADV1007941	7/16/2024	4.12	7/17/2028	109.25086	106.9623073	104.7337077	102.563047	100.4483952	98.38790343	96.37979952	94.42238428	92.51402774
ADV1007944	7/16/2024	4.512	7/16/2026	101.00545	100.7906613	100.5768031	100.3638671	100.1518474	99.94073794	99.73053286	99.52122626	99.31281229
ADV1007957	7/17/2024	4.221	7/19/2027	105.3486	104.0900607	102.8616869	101.6624065	100.4911932	99.34706852	98.229099	97.13639372	96.06810186
ADV1008000	7/23/2024	4.195	7/2/2029	113.20688	109.8858208	106.681417	103.5888607	100.6035766	97.72120716	94.93760031	92.24879852	89.65102819
ADV1008001	7/18/2024	4.526	7/20/2026	101.0607	100.8347123	100.6097443	100.3857933	100.1628523	99.94091437	99.71997277	99.50002071	99.28105148
ADV1008031	7/19/2024	4.252	7/19/2027	105.38681	104.1280155	102.899391	101.6998641	100.5284085	99.38404552	98.26584166	97.17290587	96.1043872
ADV1008099	7/23/2024	4.563	7/23/2026	101.10716	100.8727698	100.6394816	100.4072828	100.1761658	99.94612304	99.71714699	99.48923018	99.26236524
ADV1008102	7/23/2024	4.373	7/23/2027	105.50672	104.2371878	102.9983218	101.7890218	100.6082368	99.4549653	98.3282521	97.22718587	96.15089656
ADV1008104	7/23/2024	4.563	7/23/2026	101.10716	100.8727698	100.6394816	100.4072828	100.1761658	99.94612304	99.71714699	99.48923018	99.26236524

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1008109	7/23/2024	4.252	7/23/2029	113.11644	109.8558236	106.7117405	103.6793478	100.754034	97.93140464	95.20727139	92.57764068	90.03870364
ADV1008134	7/24/2024	4.357	7/24/2026	101.08565	100.8483638	100.6121995	100.3771514	100.1432117	99.91037242	99.6786258	99.4479641	99.21837965
ADV1008145	7/24/2024	4.328	7/26/2027	105.48516	104.2073982	102.9607055	101.7439548	100.5560753	99.39604669	98.2628963	97.15569631	96.07356122
ADV1008146	7/24/2024	4.302	11/29/2027	106.8431	105.2228208	103.6354221	102.0799729	100.5555756	99.06136628	97.59651239	96.16021191	94.75169172
ADV1008198	7/25/2024	4.133	7/25/2029	113.46008	110.0664241	106.7939945	103.6377063	100.5927232	97.65444393	94.81848874	92.08068728	89.43706694
ADV1008216	7/26/2024	4.284	7/26/2029	113.18791	109.8787153	106.6886036	103.6126015	100.6459712	97.78419955	95.02298517	92.35822784	89.78601765
ADV1008218	7/26/2024	4.53	7/26/2033	129.75734	121.8106337	114.4267608	107.5624635	101.1780445	95.23705406	89.70600674	84.55412487	79.75310548
ADV1008219	7/26/2024	4.588	7/26/2035	136.83558	126.5492832	117.1607055	108.5855742	100.7479887	93.57954475	87.01855527	81.00935706	75.50169204
ADV1008220	7/26/2024	4.464	7/26/2032	125.9931	119.2043734	112.8388304	106.8676197	101.2640154	96.00324905	91.06235579	86.42003301	82.05651107
ADV1008221	7/26/2024	4.2	7/26/2029	113.48366	110.0918875	106.8212448	103.6666491	100.6232685	97.68650594	94.85198561	92.11554101	89.47320315
ADV1008223	7/26/2024	4.252	7/26/2028	109.50902	107.1956098	104.9432671	102.7499177	100.6135791	98.5323533	96.50442168	94.5280414	92.60154131
ADV1008224	7/26/2024	4.252	7/26/2028	109.50902	107.1956098	104.9432671	102.7499177	100.6135791	98.5323533	96.50442168	94.5280414	92.60154131
ADV1008225	7/26/2024	4.588	7/26/2035	136.83558	126.5492832	117.1607055	108.5855742	100.7479887	93.57954475	87.01855527	81.00935706	75.50169204
ADV1008226	7/26/2024	4.2	7/26/2029	113.48366	110.0918875	106.8212448	103.6666491	100.6232685	97.68650594	94.85198561	92.11554101	89.47320315
ADV1008228	7/26/2024	4.498	7/26/2034	125.19086	118.4341757	112.1588508	106.3261624	100.9007649	95.8503777	91.14550205	86.75916471	82.66668694
ADV1008231	7/26/2024	4.099	11/26/2029	114.69865	110.9351342	107.3180208	103.8407878	100.4972405	97.28149521	94.18796113	91.2113244	88.34653254
ADV1008233	7/26/2024	4.475	7/27/2026	101.13829	100.8927244	100.6483522	100.4051682	100.163164	99.92233083	99.68266027	99.44414389	99.20677336
ADV1008245	7/29/2024	4.292	7/29/2027	105.47374	104.1877135	102.9331534	101.7089126	100.5139005	99.34707787	98.20745446	97.09408591	96.00607116
ADV1008247	7/29/2024	4.465	7/29/2026	101.16113	100.9099628	100.6600479	100.4113718	100.1639251	99.9176989	99.67268406	99.42887171	99.18625301
ADV1008250	7/29/2024	4.466	7/29/2026	101.16138	100.9102125	100.6602972	100.4116207	100.1641736	99.91794694	99.67293169	99.42911893	99.18649983
ADV1008251	7/29/2024	4.752	7/29/2026	100.81757	100.6511523	100.4853772	100.3202432	100.1557464	99.99188267	99.828648	99.66603844	99.50405007
ADV1008257	7/29/2024	4.184	7/30/2029	113.47391	110.0712747	106.7904959	103.6264474	100.5742545	97.62928019	94.78711175	92.04354792	89.39458737
ADV1008260	7/29/2024	4.444	7/29/2032	125.89303	119.0990561	112.7291305	106.754307	101.1477754	95.88469187	90.94202362	86.29840716	81.93401811
ADV1008263	7/31/2024	4.308	5/25/2027	104.73597	103.6356729	102.5585618	101.5039102	100.4710201	99.45922195	98.46787357	97.49635862	96.54408531
ADV1008275	7/30/2024	4.123	7/31/2028	109.41172	107.082933	104.8159686	102.6087178	100.4591619	98.3653687	96.32548743	94.33774494	92.40044154
ADV1008320	7/31/2024	4.126	7/30/2027	105.35186	104.0626652	102.8051063	101.5780275	100.3803292	99.21096425	98.06893476	96.95328923	95.86311989
ADV1008323	7/31/2024	4.191	7/31/2028	109.42565	107.0995288	104.8351058	102.630278	100.4830324	98.39144169	96.35366016	94.3679193	92.4325238
ADV1008348	8/1/2024	4.031	2/1/2029	111.05903	108.1990448	105.4284427	102.7438326	100.1419793	97.61979441	95.17432804	92.80276159	90.50240073
ADV1008361	8/1/2024	4.307	8/3/2026	101.18854	100.9234359	100.659725	100.3973947	100.1364343	99.87683298	99.61858015	99.3616653	99.10607803
ADV1008387	8/2/2024	3.946	8/3/2026	101.10804	100.84289	100.5791323	100.3167578	100.0557554	99.79611459	99.53782454	99.28087473	99.02525472
ADV1008389	8/2/2024	3.794	8/2/2029	112.22178	108.8315418	105.5631563	102.411492	99.37166895	96.4390448	93.60920134	90.87793204	88.24123029
ADV1008391	8/2/2024	3.99	9/16/2026	101.61368	101.2253093	100.8399193	100.4574758	100.0779449	99.70129324	99.32748804	98.95649699	98.58828827
ADV1008396	8/2/2024	3.86	8/2/2028	108.69311	106.3700506	104.1087691	101.9071684	99.76323679	97.67504802	95.64075665	93.65859401	91.72686421

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1008398	8/2/2024	3.791	8/2/2029	112.21187	108.821793	105.5535664	102.4020568	99.36238444	96.42990698	93.60020641	90.8690763	88.2325102
ADV1008404	8/2/2024	3.886	8/2/2027	105.00389	103.711073	102.4494394	101.2178661	100.0152836	98.84067286	97.69306215	96.57152437	95.47517455
ADV1008405	8/2/2024	4.049	8/3/2026	101.11969	100.85469	100.5910814	100.3288531	100.0679943	99.80849421	99.55034227	99.29352797	99.0380409
ADV1008407	8/2/2024	3.891	8/2/2027	105.01027	103.7174138	102.4557379	101.2241231	100.0214997	98.84684881	97.69919857	96.57762189	95.48123381
ADV1008411	8/2/2024	3.804	8/2/2029	112.25482	108.8640378	105.5951225	102.4429424	99.40261729	96.46950418	93.63918446	90.90745117	88.27029728
ADV1008413	8/2/2024	4.029	8/3/2026	101.11439	100.8494001	100.5858007	100.3235815	100.0627318	99.80324084	99.54509796	99.28829267	99.03281459
ADV1008416	8/2/2024	3.874	8/2/2027	104.98857	103.695855	102.4343228	101.2028493	100.0003649	98.82585059	97.67833475	96.5568903	95.46063232
ADV1008417	8/2/2024	3.857	8/2/2028	108.68624	106.363253	104.1020497	101.9005256	99.75666902	97.66855372	95.63433434	93.65224223	91.72058156
ADV1008418	8/2/2024	3.791	8/2/2029	112.21187	108.821793	105.5535664	102.4020568	99.36238444	96.42990698	93.60020641	90.8690763	88.2325102
ADV1008419	8/2/2024	3.865	8/2/2027	104.97708	103.6844415	102.4229854	101.1915867	99.98917583	98.81473389	97.6672892	96.54591475	95.44972565
ADV1008424	8/2/2024	3.748	8/2/2028	108.57762	106.2530703	103.9904003	101.7875058	99.64237028	97.55306286	95.51773389	93.53461068	91.60199354
ADV1008426	8/2/2024	3.679	8/2/2029	112.04888	108.6564237	105.3860386	102.2325803	99.19115573	96.25711022	93.42601414	90.69365021	88.05600176
ADV1008432	8/5/2024	3.693	8/5/2027	104.78469	103.4867525	102.2192321	100.9810595	99.7712165	98.58873151	97.43267732	96.30216835	95.19635845
ADV1008441	8/5/2024	3.734	8/6/2029	112.06175	108.6631468	105.3870598	102.2283349	99.18206827	96.24359323	93.40846751	90.67246063	88.03154237
ADV1008442	8/5/2024	3.826	8/7/2028	108.66572	106.3293122	104.0553368	101.8416864	99.68634028	97.58736189	95.54289483	93.55115863	91.61044502
ADV1008443	8/5/2024	3.838	9/7/2027	105.28631	103.9081864	102.5548175	101.2255946	99.91992616	98.63723976	97.37698092	96.13861265	94.92161466
ADV1008444	8/5/2024	3.836	10/5/2027	105.55322	104.0952605	102.6648207	101.2611878	99.8836733	98.53161131	97.20435836	95.90129217	94.62181084
ADV1008448	8/5/2024	3.892	8/5/2027	105.04042	103.7407465	102.471522	101.2316742	100.020184	98.83607905	97.67843146	96.54635492	95.43900256
ADV1008449	8/5/2024	3.821	8/6/2029	112.35016	108.9467912	105.6660643	102.5028234	99.45216034	96.50940431	93.67010906	90.93004035	88.28516428
ADV1008450	8/5/2024	3.892	8/5/2027	105.04042	103.7407465	102.471522	101.2316742	100.020184	98.83607905	97.67843146	96.54635492	95.43900256
ADV1008451	8/5/2024	4.008	8/5/2031	120.21506	114.594927	109.2784213	104.2474195	99.48498413	94.97527697	90.7034809	86.65572853	82.81903584
ADV1008452	8/5/2024	3.976	8/5/2026	101.13928	100.868506	100.5991843	100.3313075	100.0648642	99.79984255	99.53623132	99.27401915	99.01319486
ADV1008462	8/7/2024	3.893	8/2/2027	105.01238	103.7195086	102.4578179	101.2261884	100.0235507	98.8488856	97.70122135	96.57963087	95.48322916
ADV1008468	8/5/2024	4.047	8/5/2026	101.14252	100.8719086	100.6027544	100.3350421	100.0687603	99.80389743	99.5404421	99.27838308	99.01770925
ADV1008472	8/5/2024	3.867	8/5/2027	105.00829	103.7088377	102.4398273	101.2001899	99.98890663	98.80500524	97.64755782	96.51567822	95.40851963
ADV1008502	8/6/2024	4.121	8/6/2026	101.17434	100.9008882	100.6289254	100.3584359	100.0894076	99.82182866	99.55568733	99.29097199	99.02767115
ADV1008503	10/4/2024	3.864	10/4/2027	105.58456	104.1290696	102.7010062	101.2996575	99.92433802	98.57438561	97.24915997	95.94804193	94.67043255
ADV1008506	10/4/2024	3.867	10/4/2027	105.58891	104.1333919	102.7052961	101.3039154	99.92856466	98.57858145	97.25332553	95.9521777	94.67453903
ADV1008509	8/6/2024	4.127	8/6/2026	101.17598	100.9025246	100.6305589	100.3600664	100.0910352	99.8234534	99.55730919	99.29259098	99.02928728
ADV1008510	8/6/2024	3.806	8/6/2029	112.5085	109.0973991	105.8093129	102.6390632	99.58172324	96.63260529	93.78724692	91.04139867	88.39101231
ADV1008511	8/6/2024	3.955	8/6/2027	105.13107	103.828584	102.5563052	101.3131845	100.0982193	98.91045279	97.74897147	96.61290248	95.50141154
ADV1008512	8/6/2024	3.806	8/6/2029	112.5085	109.0973991	105.8093129	102.6390632	99.58172324	96.63260529	93.78724692	91.04139867	88.39101231
ADV1008522	8/6/2024	4.109	8/7/2026	101.18298	100.9067445	100.632022	100.3588039	100.0870778	99.81683137	99.54805251	99.2807292	99.01484959

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1008523	8/6/2024	3.939	8/6/2027	105.11047	103.8081191	102.5359779	101.2929924	100.0781602	98.89052455	97.72917187	96.59322945	95.48186305
ADV1008546	8/7/2024	4.17	8/7/2026	101.19966	100.9233856	100.6486255	100.3753701	100.1036068	99.83332335	99.5645077	99.2971478	99.03123179
ADV1008547	8/7/2024	3.99	8/9/2027	105.20583	103.8962364	102.616121	101.3644878	100.1403847	98.94290202	97.77117028	96.62435775	95.50166857
ADV1008557	8/7/2024	4.096	8/7/2026	101.17924	100.9030012	100.628278	100.3550592	100.0833324	99.81308541	99.54430599	99.27698217	99.01110208
ADV1008570	8/8/2024	3.887	8/8/2029	112.79738	109.3759599	106.0780535	102.8984652	99.83225066	96.87470441	94.0213468	91.2679114	88.61033334
ADV1008577	8/8/2024	4.076	8/10/2026	101.22587	100.9410201	100.6577891	100.3761602	100.0961197	99.81765426	99.54075037	99.26539485	98.99157462
ADV1008595	8/9/2024	3.986	8/9/2027	105.20004	103.8904724	102.6103859	101.3587801	100.1347031	98.9372452	97.76553698	96.61874681	95.49607887
ADV1008616	8/12/2024	4.385	8/12/2026	100.74799	100.5860885	100.4249035	100.2644281	100.104657	99.94558494	99.78720683	99.62951757	99.47251215
ADV1008646	8/13/2024	3.838	8/13/2029	112.47449	109.049751	105.7490059	102.5670483	99.49892109	96.53990484	93.68550497	90.93143953	88.27362764
ADV1008647	8/13/2024	3.885	8/13/2027	105.10746	103.7897196	102.5004635	101.2387651	100.0037413	98.79454659	97.61037148	96.45044044	95.31401008
ADV1008648	8/15/2024	3.881	8/16/2027	105.13086	103.8063651	102.5096178	101.2397491	99.99592731	98.77735528	97.58326855	96.41293377	95.26564703
ADV1008670	8/14/2024	4.054	8/14/2026	101.24899	100.9531489	100.6590467	100.3666714	100.0760079	99.78704098	99.49975573	99.21413739	98.93017138
ADV1008686	8/14/2024	3.893	8/16/2027	105.14679	103.8221918	102.5253405	101.2553701	100.0114487	98.79277913	97.59859683	96.42816838	95.28078981
ADV1008713	8/15/2024	3.965	8/15/2029	112.64132	109.2746898	106.0311563	102.9055357	99.89289357	96.98852896	94.18796187	91.48692182	88.88133682
ADV1008720	8/15/2024	4.228	8/17/2026	101.33696	101.0326132	100.7301052	100.4294222	100.1305477	99.83346522	99.53815862	99.24461189	98.95280923
ADV1008766	8/26/2024	4.144	8/26/2026	101.41796	101.0884195	100.7610224	100.4357514	100.1125857	99.79150483	99.47248873	99.15551745	98.84057134
ADV1008768	8/26/2024	3.971	8/26/2027	105.34648	103.9984833	102.6758081	101.3777734	100.1037213	98.85301773	97.62505093	96.41923046	95.23498635
ADV1008771	8/19/2024	3.982	8/19/2027	105.29286	103.9606323	102.6554376	101.3764592	100.1229171	98.89406214	97.68917506	96.50756469	95.34856661
ADV1008800	8/20/2024	3.845	8/20/2029	112.56608	109.1205267	105.8003078	102.60017	99.5151069	96.54035028	93.67135699	90.90379711	88.2335426
ADV1008819	8/20/2024	4.106	8/20/2026	101.33492	101.0222225	100.7114674	100.4026361	100.0957107	99.79067361	99.4875072	99.18619427	98.88671775
ADV1008829	8/21/2024	4.056	8/21/2026	101.33097	101.0154962	100.7020026	100.390466	100.080868	99.77319055	99.46741562	99.16352555	98.86150287
ADV1008832	8/21/2024	3.867	8/23/2027	105.17878	103.8385632	102.5243824	101.2354996	99.97120492	98.73081523	97.51367278	96.31914412	95.14661896
ADV1008842	8/21/2024	4.074	8/21/2026	101.32113	101.0058536	100.6925507	100.3812016	100.071788	99.76429164	99.45869484	99.15497991	98.85312943
ADV1008861	8/22/2024	4.111	8/24/2026	101.3839	101.0599856	100.7381526	100.4183774	100.1006404	99.78492198	99.47120294	99.15946426	98.84968716
ADV1008862	8/22/2024	3.953	8/23/2027	105.29339	103.952368	102.6373933	101.3477301	100.0826679	98.84152323	97.6236381	96.42837869	95.25513441
ADV1008905	8/23/2024	3.952	8/24/2026	101.35108	101.0270321	100.7050642	100.3851577	100.0672929	99.75145009	99.43761	99.12575353	98.81586185
ADV1008938	8/26/2024	3.994	8/26/2026	101.36876	101.0393135	100.7120177	100.3868474	100.0637819	99.74280085	99.42388403	99.10701155	98.79216376
ADV1008945	8/26/2024	3.761	8/26/2027	105.14598	103.7981194	102.4755955	101.17773	99.90386413	98.65336307	97.42561419	96.22002636	95.03602892
ADV1008946	8/26/2024	3.841	8/26/2027	105.17194	103.8251773	102.5037136	101.2068697	99.93398844	98.68443627	97.45760189	96.2528954	95.06974732
ADV1009003	8/26/2024	3.951	8/26/2026	101.37407	101.0443944	100.7168717	100.3914786	100.0681943	99.74699842	99.42787061	99.1107909	98.79573959
ADV1009013	8/26/2024	4.034	8/26/2026	101.38188	101.0524084	100.7250856	100.3998884	100.0767962	99.75578858	99.43684528	99.11994646	98.80507245
ADV1009014	8/26/2024	3.869	8/26/2027	105.20954	103.8625048	102.5407802	101.2436797	99.97054628	98.72074612	97.49366783	96.28872141	95.10533727
ADV1009074	8/27/2024	3.885	8/27/2027	105.24052	103.8910751	102.566694	101.2667152	99.99049934	98.73742904	97.50690838	96.29836186	95.11123346

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1009082	8/27/2024	4.187	8/26/2033	127.51165	119.5590465	112.1770504	105.321409	98.95152775	93.03014848	87.52305953	82.39883184	77.62857924
ADV1009084	8/27/2024	3.811	8/27/2029	112.51968	109.0556244	105.7181977	102.5020912	99.40225072	96.41386028	93.53232954	90.75328184	88.07254315
ADV1009085	8/27/2024	3.854	8/25/2028	108.91098	106.5224598	104.1988358	101.9379663	99.73779299	97.59633804	95.51170069	93.48205352	91.50563921
ADV1009086	8/27/2024	3.817	8/1/2029	111.79627	108.5423137	105.4054671	102.3808668	99.46387588	96.65007404	93.93524639	91.31537277	88.78661764
ADV1009087	10/1/2024	3.806	10/1/2027	105.47266	104.0261536	102.6067527	101.2137634	99.84651171	98.50434623	97.18663705	95.89277495	94.62217047
ADV1009097	8/27/2024	3.831	8/28/2028	108.88726	106.4908224	104.1596773	101.89168	99.6847659	97.5369505	95.44632566	93.4110562	91.42937667
ADV1009134	8/28/2024	3.914	8/28/2026	101.38473	101.0494732	100.7164365	100.3855979	100.0569357	99.73042852	99.40605507	99.08379451	98.7636262
ADV1009154	8/29/2024	3.884	8/30/2027	105.26783	103.9116018	102.5797095	101.2715476	99.98652964	98.7240883	97.48367444	96.26475645	95.06681949
ADV1009155	8/29/2024	3.862	8/29/2028	108.97048	106.5703143	104.2355965	101.9641807	99.75399946	97.60306544	95.50946736	93.47136681	91.48699504
ADV1009156	8/29/2024	3.808	8/29/2029	112.52886	109.0591478	105.7164452	102.4954276	99.39102668	96.39841252	93.51298072	90.73034089	88.04630541
ADV1009169	8/29/2024	3.827	8/29/2029	112.59303	109.1222461	105.7784921	102.5564515	99.45105521	96.45747211	93.57109697	90.7875385	88.10260826
ADV1009199	8/30/2024	4.049	8/31/2026	101.44514	101.1016468	100.7604744	100.4216002	100.0850009	99.75065377	99.41853633	99.08862634	98.76090189
ADV1009202	8/30/2024	3.898	8/30/2027	105.28678	103.9304174	102.5983927	101.2901006	100.0049546	98.74238732	97.50184964	96.28280985	95.08475305
ADV1009206	8/30/2024	4.054	8/31/2026	101.44685	101.1033523	100.7621763	100.4232985	100.0866957	99.75234499	99.42022401	99.0903105	98.76258255
ADV1009228	9/3/2024	3.768	9/3/2027	105.23498	103.8671001	102.5236313	101.2039775	99.90755923	98.63381529	97.38220218	96.15219336	94.94327859
ADV1009240	9/3/2024	3.792	9/4/2029	112.53788	109.0512502	105.6928068	102.4571691	99.33920734	96.33403322	93.43698698	90.64362559	87.94971151
ADV1009244	9/3/2024	3.868	9/3/2027	105.28873	103.9217716	102.5791924	101.2603938	99.96479756	98.69184361	97.44098956	96.21170991	95.00349541
ADV1009248	9/3/2024	3.937	12/16/2026	102.60077	101.9562626	101.3198645	100.6914274	100.070802	99.45784326	98.85240932	98.25436199	97.6635664
ADV1009249	9/3/2024	3.843	12/15/2027	106.2705	104.6114563	102.9866707	101.3951495	99.83593618	98.30811107	96.81078911	95.34311841	93.90427868
ADV1009291	9/5/2024	3.683	12/5/2028	109.52176	106.8418469	104.2420546	101.719488	99.27137843	96.89507541	94.58804093	92.34784378	90.17215425
ADV1009297	9/5/2024	3.631	9/5/2029	112.21368	108.7243977	105.3636762	102.1261029	99.00652477	96.00003147	93.10194272	90.30779629	87.61333669
ADV1009298	9/5/2024	3.617	9/5/2029	112.16605	108.6775819	105.3176453	102.0808355	98.96200036	95.95623012	93.05884524	90.26538416	87.571592
ADV1009308	9/5/2024	3.871	9/8/2026	101.47764	101.1118151	100.7486356	100.3880731	100.0300993	99.67468639	99.32180676	98.97143335	98.62353942
ADV1009336	9/6/2024	3.698	9/8/2026	101.43595	101.0699585	100.7066217	100.3459063	99.98778398	99.63222659	99.27920659	98.92869677	98.58067031
ADV1009337	9/6/2024	3.786	9/4/2026	101.40251	101.0479731	100.6959141	100.3463109	99.99913789	99.65436969	99.31198135	98.97194825	98.6342461
ADV1009353	9/9/2024	3.541	9/10/2029	111.95416	108.4551138	105.0855205	101.8399099	98.71307337	95.70004888	92.79610768	89.99674223	87.29765465
ADV1009354	9/9/2024	3.541	9/10/2029	111.95416	108.4551138	105.0855205	101.8399099	98.71307337	95.70004888	92.79610768	89.99674223	87.29765465
ADV1009355	9/9/2024	3.541	9/10/2029	111.95416	108.4551138	105.0855205	101.8399099	98.71307337	95.70004888	92.79610768	89.99674223	87.29765465
ADV1009390	9/10/2024	3.564	9/10/2029	111.81898	108.3275599	104.9652139	101.7264886	98.60619468	95.59938809	92.70135708	89.90761015	87.2138645
ADV1009394	9/10/2024	3.563	9/10/2029	111.81556	108.3242062	104.9619165	101.7232461	98.60300558	95.59625094	92.6982705	89.90457279	87.2108751
ADV1009407	9/10/2024	3.95	9/10/2026	101.52847	101.1569421	100.7881454	100.4220478	100.0586195	99.69783129	99.33965438	98.98406036	98.63102126
ADV1009409	9/10/2024	3.95	9/10/2026	101.52847	101.1569421	100.7881454	100.4220478	100.0586195	99.69783129	99.33965438	98.98406036	98.63102126
ADV1009420	9/11/2024	3.627	3/11/2027	103.24809	102.3644902	101.4960331	100.642329	99.80300377	98.97769589	98.16605591	97.36774591	96.58243903

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1009446	9/12/2024	3.779	9/14/2026	101.50888	101.126277	100.7465676	100.3697208	99.9957043	99.62448614	99.25603487	98.89031949	98.5273095
ADV1009447	9/12/2024	3.644	9/13/2027	105.07306	103.679693	102.3116284	100.9682367	99.64890722	98.35304907	97.08009019	95.82947671	94.60067221
ADV1009462	9/12/2024	3.629	9/13/2027	105.05216	103.6589486	102.2910339	100.9477896	99.62860508	98.33288941	97.06007065	95.809595	94.5809261
ADV1009463	9/12/2024	3.626	9/12/2028	108.55184	106.1175044	103.7505732	101.4488047	99.210047	97.03223207	94.91337174	92.85155419	90.8449405
ADV1009481	9/13/2024	4.073	9/13/2034	129.69585	120.5952433	112.2285255	104.5320898	97.44816269	90.9242443	84.91260213	79.36981545	74.25636548
ADV1009482	9/13/2024	4.294	9/13/2039	143.44759	128.7360916	115.7900261	104.383503	94.32082248	85.43229284	77.57064668	70.60796694	64.43304821
ADV1009487	9/13/2024	3.722	9/14/2026	101.487	101.1044426	100.724779	100.347978	99.97400696	99.60283409	99.23442789	98.86875739	98.50579205
ADV1009492	9/13/2024	3.58	9/13/2029	111.90152	108.4002293	105.0286561	101.7813113	98.6529684	95.63864859	92.73360752	89.93332313	87.233484
ADV1009493	9/13/2024	3.602	9/13/2028	108.50375	106.0671932	103.698173	101.3944456	99.15385245	96.97431932	94.85385205	92.79053317	90.78251844
ADV1009494	9/13/2024	3.577	9/13/2027	104.97958	103.5868922	102.219493	100.8767553	99.5580689	98.2628431	96.99050617	95.7405045	94.51230195
ADV1009496	9/13/2024	3.583	9/13/2027	104.98794	103.5951897	102.2277305	100.8849339	99.56618949	98.2709067	96.99851371	95.74845691	94.52020011
ADV1009502	9/13/2024	3.563	9/13/2027	104.96008	103.5675314	102.2002721	100.857672	99.53912084	98.24402804	96.9718219	95.72194889	94.49387291
ADV1009506	9/13/2024	3.587	6/14/2027	104.15289	103.000359	101.8733658	100.7710665	99.69265522	98.63736069	97.60444463	96.59319989	95.60294887
ADV1009507	9/13/2024	3.566	9/13/2027	104.96426	103.5716801	102.2043908	100.8617613	99.54318114	98.24805984	96.97582567	95.72592509	94.49782199
ADV1009508	9/13/2024	3.569	12/13/2027	105.79809	104.148442	102.5327993	100.9501749	99.39962188	97.88022972	96.39112206	94.93145526	93.50041686
ADV1009545	9/16/2024	3.674	9/16/2026	101.48935	101.1012311	100.7160875	100.3338893	99.95460261	99.57819407	99.20463092	98.83388084	98.46591202
ADV1009546	9/16/2024	3.542	9/16/2027	104.95671	103.555816	102.1804999	100.8301204	99.50405706	98.20170979	96.92249765	95.66585828	94.43124713
ADV1009547	9/16/2024	3.57	9/18/2028	108.47452	106.0242686	103.6422984	101.3263275	99.07416243	96.88369572	94.7529018	92.67983343	90.66261814
ADV1009550	9/16/2024	3.67	9/16/2026	101.48781	101.0996878	100.7145479	100.3323533	99.95307017	99.57666521	99.20310561	98.83235906	98.46439375
ADV1009552	9/16/2024	3.676	9/16/2026	101.49013	101.1020027	100.7168574	100.3346573	99.95536882	99.57895851	99.20539358	98.83464173	98.46667116
ADV1009590	9/17/2024	3.63	9/17/2026	101.50601	101.1147931	100.7266049	100.3414093	99.95917166	99.57985775	99.20343402	98.82986739	98.45912526
ADV1009591	9/17/2024	3.571	9/17/2029	111.9076	108.3949202	105.0127717	101.7556162	98.61817922	95.59543693	92.68260292	89.87511572	87.16862697
ADV1009613	9/18/2024	3.635	9/20/2027	105.12346	103.7101734	102.3228688	100.960894	99.62361474	98.31041712	97.02070734	95.75391065	94.50947064
ADV1009621	9/18/2024	3.762	9/18/2026	101.54524	101.1514082	100.7606463	100.372914	99.98817615	99.60639795	99.22754524	98.85158436	98.47848217
ADV1009625	9/18/2024	3.596	9/18/2029	112.00283	108.4856914	105.099339	101.838214	98.69702835	95.67074552	92.75456713	89.94392048	87.23444664
ADV1009629	9/18/2024	3.639	9/18/2026	101.52027	101.1262301	100.7352629	100.3473304	99.96239724	99.58042852	99.20138997	98.82524784	98.45196887
ADV1009638	9/18/2024	3.651	9/18/2026	101.52498	101.130927	100.7399486	100.3520049	99.96706067	99.58508092	99.20603142	98.82987838	98.45658858
ADV1009641	9/18/2024	3.641	9/18/2026	101.52105	101.1270129	100.7360439	100.3481095	99.96317448	99.58120392	99.20216355	98.8260196	98.45273882
ADV1009662	9/19/2024	3.613	9/20/2027	105.09225	103.6791904	102.2921089	100.9303537	99.59329022	98.28030488	96.99080394	95.72421272	94.47997491
ADV1009663	9/19/2024	3.613	9/20/2027	105.09225	103.6791904	102.2921089	100.9303537	99.59329022	98.28030488	96.99080394	95.72421272	94.47997491
ADV1009675	9/19/2024	3.692	11/19/2026	102.16833	101.6003099	101.0386158	100.483142	99.93378529	99.39044489	98.85302216	98.32142062	97.79554588
ADV1009678	9/19/2024	3.707	10/19/2026	101.85427	101.3734069	100.8970974	100.4252747	99.95787544	99.49483746	99.03609974	98.58160242	98.13128673
ADV1009728	9/20/2024	3.503	9/20/2027	105.02239	103.6084622	102.2205565	100.8580124	99.52019411	98.20648676	96.91629544	95.64904436	94.40417614

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1009752	9/23/2024	3.597	9/23/2027	105.09572	103.6742676	102.2790911	100.9095219	99.56491536	98.24464804	96.94811678	95.67473794	94.42394656
ADV1009770	9/23/2024	3.596	9/23/2027	105.0943	103.6728578	102.2776916	100.9081326	99.56353614	98.24327868	96.94675711	95.6733878	94.4226058
ADV1009789	9/24/2024	3.584	9/24/2027	105.08622	103.6620442	102.2642391	100.8921342	99.54508145	98.2224541	96.92364588	95.64807015	94.39515912
ADV1009834	9/25/2024	3.664	9/25/2026	101.58023	101.1668658	100.7568663	100.3501935	99.94680705	99.5466671	99.14973454	98.75597088	98.36533822
ADV1009841	9/25/2024	3.577	9/25/2026	101.56891	101.1552811	100.7450292	100.3381096	99.93448183	99.53410596	99.13694275	98.74295357	98.35210042
ADV1009842	9/25/2024	3.585	9/25/2026	101.5722	101.158565	100.7483049	100.3413773	99.93774151	99.53735768	99.14018654	98.74618949	98.3553285
ADV1009857	9/25/2024	3.597	9/25/2026	101.57714	101.1634908	100.7532186	100.3462789	99.94263104	99.54223525	99.14505223	98.75104336	98.36017063
ADV1009867	9/26/2024	3.668	9/26/2029	112.32616	108.7808884	105.3681897	102.0823989	98.91812585	95.87023831	92.93384832	90.10429916	87.37715315
ADV1009868	9/26/2024	3.558	9/27/2027	105.16278	103.7282445	102.3204351	100.9386635	99.58226955	98.25061471	96.94308155	95.65907272	94.39801017
ADV1009872	9/26/2024	3.719	9/28/2026	101.63528	101.2134283	100.795081	100.3801904	99.96871404	99.56060978	99.1558363	98.75435297	98.35611978
ADV1009875	9/26/2024	3.644	9/27/2027	105.19901	103.76561	102.3588893	100.9781658	99.62278062	98.29209683	96.98549826	95.70238882	94.4421917
ADV1009876	9/26/2024	3.64	9/28/2026	101.6271	101.2049759	100.7863618	100.3712105	99.95947909	99.55112539	99.14610797	98.74438603	98.34591947
ADV1009880	9/26/2024	3.727	9/28/2026	101.63863	101.2167782	100.7984224	100.3835235	99.97203882	99.5639263	99.15914463	98.75765315	98.35941186
ADV1009882	9/26/2024	3.658	9/1/2027	105.13914	103.7267385	102.3407563	100.9805149	99.64535637	98.33464472	97.04776514	95.78412302	94.54314313
ADV1009896	9/26/2024	3.656	9/27/2027	105.21619	103.7826592	102.375812	100.9949643	99.63945701	98.30865316	97.00193652	95.71871097	94.45839962
ADV1009897	9/26/2024	3.687	9/26/2028	108.83704	106.3598491	103.9522453	101.611885	99.33651472	97.12397024	94.97217223	92.87912245	90.84290003
ADV1009908	9/27/2024	3.634	9/27/2027	105.18456	103.751263	102.3446469	100.9640263	99.60874252	98.27815845	96.97165803	95.68864523	94.42854325
ADV1009916	9/27/2024	3.624	9/27/2029	112.18351	108.6378749	105.2249468	101.9390528	98.77479308	95.7270262	92.79085573	89.961617	87.23486498
ADV1009921	9/27/2024	3.546	9/27/2028	108.65279	106.1719375	103.7609245	101.4173922	99.13907509	96.92379728	94.76946846	92.67407998	90.63570116
ADV1009930	9/27/2024	3.605	9/27/2027	105.14304	103.7100621	102.3037514	100.9234311	99.56844238	98.23814845	96.93193335	95.64920116	94.38937522
ADV1009933	9/27/2024	3.522	9/27/2027	105.11108	103.6769394	102.2695089	100.88811	99.53208231	98.20078773	96.89360892	95.60994868	94.34922914
ADV1009935	9/27/2024	3.525	9/27/2027	105.11538	103.6812035	102.2737414	100.8923113	99.53625307	98.20492844	96.89772008	95.61403078	94.35328265
ADV1009937	9/27/2024	3.522	9/27/2027	105.11108	103.6769394	102.2695089	100.88811	99.53208231	98.20078773	96.89360892	95.60994868	94.34922914
ADV1009938	9/27/2024	3.676	9/29/2028	108.71398	106.2325002	103.8209053	101.4768364	99.1980249	96.98229237	94.8275459	92.73177444	90.69304504
ADV1009939	9/27/2024	3.676	9/22/2028	108.64505	106.1840694	103.7918968	101.4662245	99.20483472	97.0055969	94.86646362	92.78546689	90.76071459
ADV1009941	9/27/2024	3.675	9/15/2028	108.57371	106.1332493	103.7605298	101.453291	99.20936523	97.02666933	94.90320084	92.83703436	90.82631817
ADV1009942	9/27/2024	3.674	9/8/2028	108.5024	106.0824415	103.7291602	101.4403475	99.21388521	97.04773709	94.93994499	92.8886256	90.89196709
ADV1009970	9/30/2024	3.7	11/3/2028	109.10839	106.5265012	104.0199367	101.5860556	99.22232511	96.92631717	94.69570296	92.5282483	90.42180923
ADV1009971	9/30/2024	3.7	11/10/2028	109.17857	106.5760766	104.0499036	101.5973587	99.21586026	96.90293396	94.6562076	92.47340615	90.35234707
ADV1009973	9/30/2024	3.7	11/17/2028	109.24875	106.6256269	104.079831	101.6086155	99.20934926	96.87951146	94.61668601	92.41855654	90.28290157
ADV1009975	9/30/2024	3.7	11/17/2028	109.24875	106.6256269	104.079831	101.6086155	99.20934926	96.87951146	94.61668601	92.41855654	90.28290157
ADV1009987	9/30/2024	3.6	9/30/2027	105.25007	103.8065044	102.3899629	100.9997549	99.63520921	98.29567719	96.98053146	95.68916524	94.42099145
ADV1009989	9/30/2024	3.6	9/30/2027	105.25007	103.8065044	102.3899629	100.9997549	99.63520921	98.29567719	96.98053146	95.68916524	94.42099145

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1010009	10/1/2024	3.613	10/1/2026	101.65107	101.2205434	100.7936661	100.370387	99.95066097	99.53444328	99.12169011	98.71235832	98.3064055
ADV1010014	10/1/2024	3.62	10/2/2028	108.73503	106.2424759	103.8203928	101.4663911	99.17817493	96.95353949	94.79036724	92.68662372	90.64035382
ADV1010017	10/1/2024	3.694	10/1/2026	101.66033	101.230089	100.8034822	100.3804676	99.96100005	99.54503512	99.13252906	98.72343887	98.31772228
ADV1010023	10/1/2024	3.703	10/1/2026	101.6642	101.2339408	100.8073242	100.3842999	99.9648227	99.54884816	99.13633255	98.72723287	98.32150684
ADV1010032	10/30/2024	3.564	10/29/2027	105.36324	103.8418508	102.350409	100.8881025	99.45415226	98.04780647	96.66833939	95.3150502	93.98726198
ADV1010033	10/30/2024	3.564	10/29/2027	105.36324	103.8418508	102.350409	100.8881025	99.45415226	98.04780647	96.66833939	95.3150502	93.98726198
ADV1010040	10/2/2024	3.63	10/18/2027	105.36929	103.8776174	102.4147599	100.9799497	99.57245027	98.19155005	96.8365619	95.50682184	94.2016881
ADV1010084	10/3/2024	3.638	10/4/2027	105.34458	103.8894831	102.4618244	101.0608962	99.68601232	98.33650974	97.01174743	95.71110555	94.43398452
ADV1010086	10/3/2024	3.641	10/3/2029	112.5201	108.9465302	105.5073924	102.1969055	99.00957216	95.94016015	92.98368768	90.13541016	87.39080753
ADV1010107	10/3/2024	3.82	10/5/2026	101.75764	101.31601	100.8782192	100.4442161	100.0139517	99.58737778	99.16444685	98.74511233	98.3293284
ADV1010108	10/3/2024	3.82	10/5/2026	101.75764	101.31601	100.8782192	100.4442161	100.0139517	99.58737778	99.16444685	98.74511233	98.3293284
ADV1010118	10/4/2024	4.004	10/5/2026	101.83861	101.3967738	100.9587729	100.5245612	100.0940894	99.66730934	99.2441736	98.82463554	98.40864935
ADV1010124	10/4/2024	3.91	10/4/2027	105.65134	104.1953442	102.7667836	101.3649462	99.98914644	98.63872181	97.31303182	96.01145712	94.73339855
ADV1010129	10/4/2024	3.951	10/5/2026	101.84146	101.3993006	100.9609893	100.5264736	100.0957043	99.66863293	99.24521196	98.82539462	98.40913494
ADV1010130	10/4/2024	3.864	10/4/2028	109.50826	106.9974358	104.5577539	102.1867921	99.88222654	97.64182631	95.46344881	93.34503584	91.28460971
ADV1010146	10/7/2024	3.988	10/7/2027	105.79376	104.3285492	102.8910904	101.4806632	100.0965704	98.73813851	97.40471652	96.09567493	94.81040496
ADV1010149	10/7/2024	4.086	10/8/2026	101.90921	101.4588256	101.0124307	100.5699732	100.1314011	99.69666304	99.26570893	98.83848934	98.41495575
ADV1010157	10/7/2024	4.119	7/10/2026	100.85132	100.6534445	100.4563627	100.2600654	100.0645477	99.8698051	99.67583278	99.48262615	99.29018062
ADV1010172	10/8/2024	4.484	10/8/2036	139.3456	127.7204388	117.223161	107.7365377	99.15615756	91.38896209	84.35195665	77.97107309	72.18016638
ADV1010179	10/8/2024	3.997	10/8/2027	105.81665	104.3485555	102.9083135	101.4952029	100.108523	98.74759648	97.41176892	96.10040752	94.81290034
ADV1010211	10/9/2024	4.122	8/14/2026	101.26953	100.9736639	100.6795384	100.3871399	100.0964531	99.80746292	99.52015441	99.23451281	98.95052355
ADV1010218	10/9/2024	4	10/9/2029	113.60975	110.0063042	106.5387055	103.2010986	99.98791193	96.89384314	93.91384485	91.04311076	88.27706288
ADV1010225	10/10/2024	4.003	10/10/2029	113.29809	109.7771123	106.3899563	103.1307555	99.99393839	96.97420873	94.06652998	91.26611116	88.56839336
ADV1010250	10/11/2024	3.987	10/13/2026	101.94863	101.4838892	101.0233982	100.5671004	100.1149383	99.66685587	99.22279775	98.78270973	98.34653853
ADV1010259	10/11/2024	3.99	4/11/2029	111.6886	108.6213505	105.6558338	102.7881148	100.0144315	97.33118839	94.73494795	92.22242273	89.790468
ADV1010330	10/15/2024	3.881	10/15/2027	105.80318	104.3147327	102.8549017	101.4229316	100.0180935	98.63968353	97.28702187	95.9594514	94.65633694
ADV1010339	10/16/2024	3.955	1/18/2028	106.8076	105.0513656	103.3328045	101.6507742	100.0041743	98.39194875	96.81308383	95.26660594	93.75157951
ADV1010403	10/18/2024	4.038	10/19/2026	102.01278	101.531479	101.0547298	100.5824704	100.1146374	99.65116855	99.19200282	98.73708031	98.28634224
ADV1010449	10/21/2024	3.958	10/21/2027	105.97624	104.4701647	102.9933472	101.5450045	100.1243842	98.73076025	97.36343113	96.02171938	94.70497025
ADV1010450	10/21/2024	4.021	10/21/2026	102.05596	101.5686203	101.0859444	100.6078689	100.1343278	99.66525687	99.20059272	98.7402733	98.28423771
ADV1010455	10/21/2024	4.042	10/21/2027	106.01088	104.5060332	103.0303964	101.5831889	100.1636602	98.77108568	97.40476549	96.0640236	94.74820667
ADV1010487	10/23/2024	4.191	7/23/2026	101.02027	100.7860264	100.5528755	100.3208135	100.0898329	99.85992606	99.63108541	99.40330351	99.17657299
ADV1010488	10/23/2024	4.143	10/23/2026	102.10903	101.6163353	101.1284071	100.6451748	100.1665707	99.69252844	99.22298283	98.75787	98.29712725

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1010522	10/25/2024	4.07	10/15/2027	105.99142	104.5030336	103.0432319	101.6112659	100.2064079	98.82795527	97.47522898	96.14757297	94.84435298
ADV1010530	10/25/2024	4.072	10/25/2027	106.09551	104.5791723	103.0924638	101.6345916	100.2047897	98.8023183	97.42646341	96.07653529	94.75186755
ADV1010541	10/25/2024	4.141	10/25/2029	107.39219	105.5473381	103.7542244	102.0109703	100.31578	98.66693622	97.06279595	95.50178684	93.98240356
ADV1010543	10/25/2024	4.153	10/26/2026	102.14946	101.6482804	101.1520259	100.6606233	100.1740015	99.69209109	99.21482369	98.74213235	98.27395142
ADV1010586	10/29/2024	4.219	10/29/2026	102.21791	101.7081809	101.20354	100.7039086	100.2092123	99.71937831	99.23433516	98.75401277	98.27834244
ADV1010587	10/29/2024	4.204	10/29/2027	106.33617	104.8070847	103.3080799	101.8383424	100.3970893	98.9835655	97.59704183	96.23681428	94.9022028
ADV1010594	10/29/2024	4.246	10/1/2029	113.28925	109.9710661	106.7760252	103.6988119	100.734371	97.87789397	95.12480537	92.47075032	89.91158247
ADV1010598	10/29/2024	4.188	10/29/2031	113.09881	109.7608056	106.5679697	103.5126783	100.5877632	97.78648282	95.10249454	92.52982802	90.06286101
ADV1010603	10/30/2024	4.18	10/30/2029	114.46016	110.7839423	107.2483372	103.8471887	100.5746454	97.42514336	94.39339068	91.4743522	88.66323575
ADV1010604	10/30/2024	4.127	10/30/2026	102.21346	101.700591	101.192874	100.6902271	100.1925746	99.69984224	99.21195734	98.7288486	98.25044611
ADV1010613	10/30/2024	4.207	10/30/2028	110.4863	107.8951562	105.3792985	102.9360938	100.5630198	98.25765799	96.01768838	93.8408849	91.72511096
ADV1010632	10/31/2024	4.195	10/31/2029	114.4159	110.8083587	107.3395397	104.0032906	100.7937667	97.70541662	94.73296496	91.87139728	89.11594541
ADV1010655	10/31/2024	4.239	10/30/2026	102.24011	101.727535	101.2201007	100.7177287	100.2203436	99.72787117	99.24023909	98.75737619	98.27921276
ADV1010656	11/1/2024	4.228	11/1/2029	114.65717	110.9719244	107.4277903	104.0185824	100.7384216	97.58171801	94.54315517	91.61767514	88.80046438
ADV1010704	11/4/2024	4.171	12/15/2026	102.77731	102.1344588	101.4996714	100.8727951	100.2536824	99.6421895	99.03817592	98.44150475	97.8520424
ADV1010711	11/8/2024	4.255	6/15/2027	104.92703	103.7670459	102.6327898	101.5234143	100.438106	99.37608658	98.33661104	97.31896587	96.32246741
ADV1010761	11/7/2024	4.317	11/9/2026	102.40346	101.8625363	101.3273439	100.7977882	100.2737802	99.75523284	99.24206095	98.73418105	98.2315114
ADV1010774	11/7/2024	4.321	11/9/2026	102.40561	101.8646787	101.3294797	100.7999175	100.275903	99.75734916	99.24417087	98.73628461	98.23360865
ADV1010775	11/7/2024	4.274	11/8/2027	106.55957	105.0007616	103.4729573	101.9753033	100.5069798	99.06719623	97.65519017	96.27022575	94.91159267
ADV1010794	11/8/2024	4.27	11/8/2027	106.55321	104.9944457	103.4666833	101.9690705	100.5007875	99.06104381	97.64907692	96.26415102	94.90555583
ADV1010815	11/13/2024	4.286	10/1/2029	114.5202	110.923037	107.4605243	104.1268936	100.9166575	97.82459189	94.84572228	91.9753101	89.20884042
ADV1010859	11/12/2024	4.402	11/12/2027	106.80442	105.2323541	103.6916654	102.1814914	100.7009971	99.24937749	97.82585614	96.42968418	95.06013887
ADV1010939	11/15/2024	4.383	11/15/2027	106.80972	105.2291444	103.6802137	102.1620478	100.6738008	99.21465731	97.78383121	96.38056432	95.00412514
ADV1010947	11/15/2024	4.391	10/20/2026	102.19469	101.7101036	101.2301271	100.7546946	100.2837414	99.81720432	99.3550213	98.89713139	98.44347482
ADV1011013	11/19/2024	4.412	5/19/2026	100.24424	100.1913695	100.1385717	100.0858461	100.0331927	99.9806112	99.92810153	99.87566353	99.82329704
ADV1011018	11/19/2024	4.357	11/19/2026	102.5438	101.9745625	101.4116606	100.8549886	100.3044432	99.75992357	99.22133082	98.6885684	98.16154179
ADV1011019	11/19/2024	4.313	11/19/2027	106.74577	105.154443	103.5951019	102.066851	100.5688299	99.10020974	97.66019164	96.2480052	94.86290734
ADV1011077	11/21/2024	4.823	12/15/2042	145.23913	131.9184215	120.2341774	109.959834	100.9025037	92.89770994	85.80497911	79.50414501	73.89224624
ADV1011108	11/25/2024	4.464	10/26/2026	102.30422	101.802593	101.3058919	100.814046	100.3269841	99.84463651	99.36693507	98.89381272	98.42520376
ADV1011109	11/25/2024	4.439	1/25/2027	103.40458	102.6455618	101.8977069	101.1607746	100.4345265	99.71873115	99.01316374	98.31760588	97.63184535
ADV1011110	11/25/2024	4.414	5/25/2027	104.85138	103.7503935	102.6726012	101.6172788	100.5837279	99.57127873	98.57928887	97.60714172	96.65424528
ADV1011163	11/25/2024	4.303	11/24/2027	106.78677	105.1810423	103.607742	102.0659585	100.5548132	99.07345948	97.62108191	96.19689433	94.80013874
ADV1011238	11/27/2024	4.257	11/29/2027	106.77065	105.1509735	103.5641657	102.0092971	100.4854704	98.99182178	97.5275191	96.09176055	94.68377324

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1011274	11/29/2024	4.275	11/30/2026	102.62629	102.0261698	101.4330653	100.8468575	100.2674268	99.6946561	99.12843105	98.56863991	98.01517348
ADV1011275	11/29/2024	4.209	11/29/2027	106.69323	105.0741913	103.4880145	101.9337658	100.4105485	98.91749895	97.45378527	96.01860595	94.61118834
ADV1011292	12/2/2024	4.237	12/4/2028	110.97269	108.2762562	105.6602438	103.1217492	100.6579976	98.26633258	95.94421037	93.68919399	91.4989481
ADV1011392	12/18/2024	4.187	12/20/2027	106.89159	105.213557	103.5703489	101.9609446	100.3843655	98.83967086	97.32595583	95.84234963	94.38801404
ADV1011393	12/18/2024	4.187	12/20/2027	106.89159	105.213557	103.5703489	101.9609446	100.3843655	98.83967086	97.32595583	95.84234963	94.38801404
ADV1011513	12/12/2024	4.263	12/14/2026	102.78491	102.1452545	101.5135813	100.8897405	100.2735868	99.6649782	99.06377659	98.469847	97.88305778
ADV1011514	12/12/2024	4.239	12/13/2027	106.90089	105.2418572	103.6170007	102.0253267	100.465884	98.93775759	97.44006688	95.97196425	94.53263334
ADV1011537	12/13/2024	4.483	12/6/2030	119.92269	115.003439	110.3202717	105.8605322	101.6123146	97.56441309	93.70627747	90.02797051	86.52012916
ADV1011538	12/13/2024	4.486	12/13/2030	120.01187	115.0709982	110.3680268	105.8901623	101.6253694	97.56232367	93.69036499	89.99945512	86.48013777
ADV1011539	12/13/2024	4.486	12/13/2030	120.01187	115.0709982	110.3680268	105.8901623	101.6253694	97.56232367	93.69036499	89.99945512	86.48013777
ADV1011540	12/13/2024	4.487	12/20/2030	120.09181	115.1295627	110.4070362	105.9112906	101.6301612	97.55220433	93.66665011	89.96335917	86.43278198
ADV1011571	12/16/2024	4.316	12/16/2026	102.84113	102.1956976	101.5583924	100.9290566	100.3075411	99.69370048	99.08739288	98.48847992	97.89682662
ADV1011714	12/19/2024	4.391	12/10/2026	102.81695	102.1883349	101.5674266	100.9540823	100.3481642	99.74953768	99.15807138	98.57363715	97.99610984
ADV1011739	12/20/2024	4.365	12/21/2026	102.93177	102.272085	101.6208778	100.9779838	100.3432441	99.71650417	99.09761303	98.48642367	97.88279268
ADV1011862	12/27/2024	4.32	6/29/2026	100.76037	100.5930841	100.4263498	100.2601686	100.0945378	99.92945458	99.76491629	99.60092024	99.43746375
ADV1011868	12/27/2024	4.326	6/29/2026	100.76138	100.5940838	100.4273483	100.2611658	100.0955338	99.93044929	99.76590976	99.60191247	99.43845475
ADV1011882	12/30/2024	4.383	12/31/2029	116.13444	112.2468733	108.5134504	104.9271574	101.4813439	98.16970149	94.98624356	91.92528696	88.98143452
ADV1011906	12/30/2024	4.43	12/29/2028	111.7723	108.9961795	106.3043812	103.693801	101.1614705	98.70455158	96.32032905	94.0062049	91.75969208
ADV1011916	12/30/2024	4.291	12/30/2027	107.27983	105.5693783	103.89482	102.2550903	100.6491668	99.07606716	97.53484741	96.02459959	94.54445028
ADV1011920	12/30/2024	4.273	6/30/2026	100.76474	100.5946662	100.4251661	100.2562353	100.087871	99.92007043	99.7528307	99.58614905	99.42002269
ADV1011926	12/30/2024	4.262	12/30/2026	103.00836	102.3228224	101.6464167	100.9789627	100.3202834	99.67020655	99.02856428	98.39519312	97.76993381
ADV1011927	12/30/2024	4.291	12/30/2027	107.27983	105.5693783	103.89482	102.2550903	100.6491668	99.07606716	97.53484741	96.02459959	94.54445028
ADV1011953	12/31/2024	4.577	9/13/2030	119.41145	114.7419868	110.2868297	106.0350014	101.9761402	98.10046587	94.39874351	90.86225076	87.48274655
ADV1011954	12/31/2024	4.577	9/13/2030	119.41145	114.7419868	110.2868297	106.0350014	101.9761402	98.10046587	94.39874351	90.86225076	87.48274655
ADV1011955	12/31/2024	4.579	9/20/2030	119.50058	114.8090343	110.3336739	106.0633755	101.9876474	98.09658885	94.38085365	90.83161623	87.44054004
ADV1011956	12/31/2024	4.579	9/20/2030	119.50058	114.8090343	110.3336739	106.0633755	101.9876474	98.09658885	94.38085365	90.83161623	87.44054004
ADV1011974	12/31/2024	4.248	12/31/2026	103.01063	102.3222999	101.643174	100.9730697	100.311808	99.65921468	99.01512005	98.3793588	97.75176991
ADV1009328	1/16/2025	3.548	2/5/2027	102.84398	102.0567367	101.2815475	100.5181385	99.76624237	99.02559999	98.29595986	97.57707796	96.86871743
ADV1009593	1/17/2025	3.43	1/19/2027	102.5921	101.8531017	101.1247559	100.4068355	99.69911752	99.00138535	98.31342842	97.63504205	96.96602726
ADV1011076	1/30/2025	4.562	1/30/2032	124.92038	118.6709082	112.7842485	107.2372252	102.0082743	97.07732141	92.42567022	88.03590009	83.8917719
ADV1011669	1/2/2025	4.337	1/2/2030	115.75204	111.8722607	108.1464358	104.5675513	101.1289607	97.82435951	94.64776519	91.59349861	88.65616668
ADV1011670	1/2/2025	4.337	1/2/2030	115.75204	111.8722607	108.1464358	104.5675513	101.1289607	97.82435951	94.64776519	91.59349861	88.65616668
ADV1011671	1/2/2025	4.337	1/2/2030	115.75204	111.8722607	108.1464358	104.5675513	101.1289607	97.82435951	94.64776519	91.59349861	88.65616668

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1012847	1/31/2025	4.294	1/29/2027	103.34231	102.5724058	101.8139909	101.066808	100.3306087	99.60515191	98.89020357	98.18553636	97.49092948
ADV1012768	1/29/2025	4.263	1/31/2028	107.59948	105.798725	104.0372107	102.3137172	100.6270789	98.97617853	97.35994425	95.77734758	94.22740102
ADV1012395	1/16/2025	4.377	1/19/2027	103.28742	102.5455813	101.8144291	101.0937308	100.383263	99.68280849	98.99215631	98.31110132	97.6394441
ADV1012153	1/10/2025	4.442	1/10/2028	107.56445	105.8232586	104.1190482	102.4507058	100.8171629	99.21739364	97.65041278	96.11527342	94.61106526
ADV1012650	1/24/2025	4.503	1/24/2030	116.62247	112.6652675	108.8670658	105.2205292	101.718704	98.35499975	95.12316822	92.01728281	89.03172
ADV1012226	1/10/2025	4.459	1/11/2027	103.25104	102.5316365	101.8222863	101.122778	100.4329073	99.75247572	99.08129006	98.41916241	97.76590995
ADV1012826	2/3/2025	4.332	2/3/2028	107.65398	105.8459291	104.0773855	102.3471391	100.6540275	98.99693513	97.3747915	95.78656848	94.2312783
ADV1012846	1/31/2025	4.301	7/31/2026	101.14498	100.8882947	100.632905	100.3788045	100.1259836	99.87443265	99.62414214	99.37510266	99.12730487
ADV1012401	1/16/2025	4.532	1/16/2030	116.64016	112.7048943	108.9269727	105.2991671	101.8146296	98.46686831	95.24972626	92.15736171	89.18423
ADV1012221	1/10/2025	4.524	10/25/2027	106.78027	105.2585818	103.766619	102.3035831	100.8687055	99.46124417	98.08048278	96.72572937	95.39631545
ADV1012152	1/10/2025	4.442	1/10/2028	107.56445	105.8232586	104.1190482	102.4507058	100.8171629	99.21739364	97.65041278	96.11527342	94.61106526
ADV1012398	1/16/2025	4.544	1/16/2030	116.68535	112.7492372	108.9704957	105.3418943	101.8565843	98.50807281	95.29020206	92.19712953	89.22330979
ADV1012427	1/16/2025	4.327	7/16/2026	100.96578	100.7510567	100.5372582	100.3243819	100.1124216	99.90137134	99.69122528	99.48197748	99.27362214
ADV1012550	1/22/2025	4.357	1/22/2027	103.30788	102.5576054	101.818251	101.0895828	100.3713699	99.663388	98.96541937	98.27725225	97.59868089
ADV1012611	1/23/2025	4.289	7/23/2026	101.05701	100.822554	100.5891971	100.3569319	100.1257506	99.89564551	99.66660918	99.43863408	99.21171277
ADV1012706	1/28/2025	4.292	1/28/2027	103.32919	102.5621256	101.8064665	101.0619606	100.3283621	99.60543237	98.89293965	98.19065891	97.49837153
ADV1012228	1/10/2025	4.541	1/10/2028	107.73508	105.9923697	104.2866708	102.6168669	100.9818888	99.38070981	97.81234404	96.27584391	94.77029848
ADV1012087	1/3/2025	4.464	1/3/2030	116.23693	112.3453912	108.608278	105.0185522	101.5695446	98.25492965	95.0687048	92.00517218	89.05892107
ADV1012397	1/16/2025	4.504	1/16/2029	112.18892	109.3574289	106.613171	103.9528794	101.3734365	98.87186393	96.4453152	94.09106876	91.80652152
ADV1012775	1/30/2025	4.239	1/31/2028	107.55671	105.7563474	103.9952181	102.2721024	100.5858352	98.93529917	97.31942273	95.73717757	94.18757638
ADV1012566	1/22/2025	4.364	7/23/2026	101.06135	100.8270138	100.5937783	100.3616322	100.1305677	99.90057728	99.67165344	99.44378869	99.21697566
ADV1012302	1/14/2025	4.461	11/16/2026	102.56625	102.0053059	101.450516	100.901778	100.358993	99.82206418	99.29089697	98.76539873	98.24547884
ADV1012396	1/16/2025	4.443	1/18/2028	107.65938	105.8954791	104.1693977	102.479984	100.8261338	99.20678741	97.62092761	96.06757737	94.54579786
ADV1012774	1/30/2025	4.391	1/30/2030	116.26557	112.2984109	108.4913126	104.8368594	101.3280245	97.95814978	94.72092447	91.61036403	88.6207913
ADV1012825	2/3/2025	4.332	2/3/2028	107.65398	105.8459291	104.0773855	102.3471391	100.6540275	98.99693513	97.3747915	95.78656848	94.2312783
ADV1012117	1/6/2025	4.52	1/7/2030	116.49211	112.5847004	108.8326823	105.2289573	101.7667992	98.43982872	95.24199382	92.16755031	89.21104429
ADV1012374	1/15/2025	4.371	12/10/2026	102.80515	102.1765699	101.555692	100.942378	100.3364901	99.73789359	99.14645726	98.56205288	97.98455531
ADV1012672	1/27/2025	4.303	7/27/2026	101.09605	100.8505463	100.6062422	100.3631263	100.1211898	99.88042412	99.64082085	99.40237153	99.16506783
ADV1009275	2/10/2025	3.681	6/12/2026	100.46375	100.3440931	100.2247372	100.1056797	99.98691948	99.86845526	99.75028596	99.63241042	99.51482751
ADV1011667	2/3/2025	4.647	2/1/2035	135.80009	126.0545445	117.1207929	108.9259681	101.4041357	94.49560329	88.1462968	82.30720354	76.93387259
ADV1011668	2/3/2025	4.647	2/1/2035	135.80009	126.0545445	117.1207929	108.9259681	101.4041357	94.49560329	88.1462968	82.30720354	76.93387259
ADV1012737	2/28/2025	4.332	3/1/2028	107.97907	106.089345	104.2422939	102.4366997	100.6713919	98.94524009	97.25715301	95.60607639	93.99099171
ADV1012740	2/28/2025	4.418	3/1/2030	116.73805	112.6703117	108.7699197	105.0291121	101.4405244	97.99716958	94.69241721	91.5199733	88.47386149

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1012739	2/28/2025	4.418	3/1/2030	116.73805	112.6703117	108.7699197	105.0291121	101.4405244	97.99716958	94.69241721	91.5199733	88.47386149
ADV1013278	2/20/2025	4.355	2/25/2028	107.96276	106.0875972	104.2545212	102.4623189	100.7098253	98.99591666	97.3195089	95.67955565	94.07504682
ADV1013496	2/26/2025	4.15	2/28/2028	107.61754	105.7369096	103.8986528	102.1015598	100.3444666	98.62624985	96.94582475	95.30214372	93.6941948
ADV1012934	2/5/2025	4.277	3/5/2027	103.74719	102.8779564	102.0233151	101.1829048	100.3563719	99.54337424	98.74358084	97.95667153	97.18233637
ADV1013487	2/26/2025	4.205	2/28/2028	107.71978	105.8381744	103.9989607	102.2009285	100.4429136	98.72379206	97.04247859	95.39792518	93.78911946
ADV1012996	2/10/2025	4.395	2/10/2028	107.85237	106.0220294	104.2320263	102.4811492	100.7682347	99.09216522	97.45186588	95.84630303	94.27448202
ADV1013100	2/12/2025	4.52	9/27/2028	110.88779	108.3824665	105.9474366	103.58033	101.2788701	99.04087038	96.86423013	94.74693068	92.6870316
ADV1012993	2/10/2025	4.426	2/12/2029	112.30305	109.3919874	106.5726565	103.8416081	101.1955434	98.63130978	96.14589229	93.73640712	91.40009481
ADV1012953	2/5/2025	4.289	2/7/2028	107.62524	105.8057819	104.0262853	102.2855343	100.5823668	98.91566674	97.28436178	95.6874213	94.12385424
ADV1012991	2/10/2025	4.39	2/10/2027	103.56383	102.7595212	101.9677344	101.1881801	100.420576	99.66464825	98.9201316	98.18676861	97.46430959
ADV1013002	2/7/2025	4.296	4/7/2027	104.21481	103.2504079	102.3039055	101.3748033	100.4626241	99.56690773	98.68721094	97.82310607	96.97418064
ADV1012997	2/11/2025	4.395	2/11/2028	107.86476	106.0313853	104.2384591	102.4847755	100.769171	99.0905276	97.44776993	95.83986352	94.26581275
ADV1012992	2/10/2025	4.408	2/10/2028	107.87589	106.0453346	104.2551168	102.5040289	100.7909076	99.11463502	97.47413622	95.86837745	94.29636397
ADV1013280	2/20/2025	4.352	8/2/2027	105.59622	104.2994064	103.0338465	101.7984139	100.5920373	99.41369586	98.26241601	97.137269	96.03736822
ADV1013135	2/14/2025	4.46	2/14/2029	112.42436	109.5054549	106.6786798	103.9405725	101.2878241	98.71727053	96.2258861	93.8107758	91.46916902
ADV1013121	2/13/2025	4.42	2/16/2027	101.91384	101.4907311	101.0723105	100.658494	100.2491969	99.84433636	99.44383191	99.04760508	98.65557939
ADV1012994	2/11/2025	4.38	2/11/2027	103.56798	102.7608601	101.9663499	101.1841566	100.4139951	99.65558865	98.90866931	98.17297707	97.44825975
ADV1013489	2/26/2025	4.135	2/26/2027	103.59211	102.7423886	101.9066242	101.084477	100.2756158	99.47972029	98.69648018	97.92559515	97.16677428
ADV1012951	2/5/2025	4.288	2/5/2027	103.4244	102.6346435	101.8569692	101.0911024	100.3367753	99.59372824	98.86170922	98.14047377	97.42978459
ADV1013005	2/7/2025	4.416	12/17/2029	115.86288	112.0255609	108.3390404	104.7965177	101.3915432	98.11799526	94.97006162	91.94222147	89.02922914
ADV1013096	2/12/2025	4.498	2/12/2030	117.08493	113.0560077	109.1910599	105.4824787	101.9230554	98.50595627	95.22470061	92.07314039	89.04544106
ADV1012952	2/5/2025	4.29	10/5/2026	101.96431	101.5221382	101.0838028	100.6492586	100.2184566	99.79134845	99.36788672	98.94802476	98.53171673
ADV1013000	2/7/2025	4.3	8/7/2026	101.25185	100.975296	100.7002646	100.4267413	100.1547135	99.88416906	99.61509565	99.34748125	99.08131392
ADV1012998	2/11/2025	4.426	2/12/2029	112.30305	109.3919874	106.5726565	103.8416081	101.1955434	98.63130978	96.14589229	93.73640712	91.40009481
ADV1012995	2/11/2025	4.395	2/11/2028	107.86476	106.0313853	104.2384591	102.4847755	100.769171	99.0905276	97.44776993	95.83986352	94.26581275
ADV1013136	2/14/2025	4.486	2/14/2030	116.81727	112.7938395	108.9342753	105.2309778	101.676747	98.26475657	94.98853201	91.84193042	88.81912147
ADV1012976	2/6/2025	4.28	2/6/2030	116.17435	112.1812896	108.3502661	104.6737616	101.1446505	97.75617992	94.50194781	91.37588217	88.37222204
ADV1013277	2/20/2025	4.352	3/25/2027	104.0515	103.1250096	102.2150639	101.3212189	100.4430494	99.58014504	98.73210977	97.89856111	97.07912962
ADV1012950	2/5/2025	4.283	4/5/2027	104.12153	103.1640093	102.2241433	101.3014453	100.3954474	99.50569865	98.63176419	97.77322454	96.92967496
ADV1013494	2/26/2025	4.199	2/26/2030	115.85307	111.8112664	107.9356039	104.2183701	100.6522553	97.23032584	93.94600177	90.79303756	87.76550308
ADV1013134	2/14/2025	4.46	2/14/2029	112.42436	109.5054549	106.6786798	103.9405725	101.2878241	98.71727053	96.2258861	93.8107758	91.46916902
ADV1013055	2/11/2025	4.462	9/25/2029	115.06049	111.4710788	108.0153337	104.6875595	101.4823336	98.39449225	95.41911721	92.55152253	89.78724231
ADV1013328	2/21/2025	4.304	2/21/2030	116.44813	112.4036189	108.5248379	104.8040991	101.2341098	97.80795397	94.51907014	91.36123171	88.32852772

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1013398	4/1/2025	4.341	4/1/2030	116.78576	112.6309265	108.6504498	104.8360758	101.1799867	97.67477395	94.31341478	91.08924994	87.99596302
ADV1013399	4/1/2025	4.267	3/31/2028	108.20139	106.2276527	104.3002204	102.4177281	100.578857	98.78233582	97.02693889	95.31148395	93.63483045
ADV1013400	4/1/2025	4.267	3/31/2028	108.20139	106.2276527	104.3002204	102.4177281	100.578857	98.78233582	97.02693889	95.31148395	93.63483045
ADV1013401	4/1/2025	4.253	3/31/2028	108.17411	106.2006433	104.2734776	102.3912467	100.552632	98.75636249	97.00121255	95.28600005	93.60958455
ADV1013465	3/17/2025	4.172	3/17/2028	107.85908	105.926863	104.0391942	102.194782	100.3923791	98.63078228	96.90883068	95.22540379	93.57941989
ADV1013466	3/17/2025	4.214	3/19/2029	112.10358	109.0943001	106.1827935	103.3653535	100.6384352	97.99864709	95.44274354	92.96761768	90.57029466
ADV1013468	3/17/2025	4.216	3/18/2030	116.13642	112.0331589	108.1006911	104.3310024	100.7164962	97.24996972	93.92459217	90.73388315	87.67169299
ADV1013478	3/17/2025	4.219	3/18/2030	116.14822	112.0447316	108.1120407	104.3421357	100.7274196	97.26068953	93.93511444	90.74421369	87.68183741
ADV1013479	3/17/2025	4.216	3/19/2029	112.10943	109.1000678	106.1884775	103.3709557	100.6439577	98.00409171	95.44811218	92.97291213	90.57551666
ADV1014920	4/25/2025	3.88	4/26/2027	103.96219	102.9469961	101.9516563	100.9755927	100.0182485	99.07908873	98.15759821	97.25328126	96.36566057
ADV1014411	4/4/2025	3.676	4/4/2028	107.20895	105.2316401	103.3010586	101.4158171	99.5745764	97.77604577	96.01898103	94.30218248	92.62449297
ADV1014618	4/15/2025	3.954	4/15/2027	103.91799	102.9336467	101.9679862	101.0204821	100.0906252	99.17792495	98.28190913	97.40212259	96.53812665
ADV1014795	4/22/2025	3.888	10/22/2026	102.00272	101.5127409	101.0274832	100.5468759	100.0708524	99.599347	99.13229552	98.66963488	98.21130323
ADV1014210	3/28/2025	4.011	3/28/2028	107.66666	105.7063655	103.7919156	101.9219576	100.0951908	98.31036092	96.56625854	94.86171696	93.19561041
ADV1014361	4/3/2025	3.853	4/2/2027	103.68299	102.7360665	101.8064605	100.8936962	99.99731872	99.11688923	98.2519846	97.40219652	96.56713089
ADV1014746	4/21/2025	4.441	4/23/2035	124.95933	118.2057113	111.9528463	106.1583116	100.7835968	95.79372225	91.15689245	86.84418617	82.82927826
ADV1014374	4/3/2025	3.746	4/3/2028	107.33593	105.3601545	103.4310073	101.5470989	99.70709489	97.90970935	96.15370247	94.43787872	92.76108495
ADV1015013	4/29/2025	3.821	4/30/2029	111.37165	108.2554823	105.2444811	102.334501	99.52158813	96.80196658	94.17202953	91.6283305	89.16757524
ADV1013958	3/18/2025	4.13	3/18/2027	103.76823	102.862636	101.9728836	101.0985611	100.239269	99.39462163	98.56424618	97.7477826	96.94488281
ADV1014364	4/3/2025	4.11	3/28/2031	119.27969	114.0568401	109.0995562	104.3929068	99.922878	95.67631103	91.64084557	87.80486737	84.15745941
ADV1014934	4/25/2025	3.933	10/26/2026	102.03998	101.5391204	101.0431817	100.5520927	100.0657824	99.58418115	99.10722078	98.63483435	98.1669562
ADV1014646	4/16/2025	3.89	11/16/2026	102.2811	101.7206622	101.1663759	100.6181441	100.0758677	99.53944993	99.00879586	98.48381275	97.96440983
ADV1013830	3/12/2025	4.026	9/14/2026	101.62571	101.2425729	100.862336	100.4849685	100.1104378	99.73871183	99.369759	99.00354823	98.64004888
ADV1013641	3/4/2025	4.098	3/4/2027	103.53894	102.6740545	101.8236445	100.9873451	100.1648068	99.35569168	98.55967277	97.77643364	97.00566796
ADV1014200	3/28/2025	3.988	9/28/2026	101.7729	101.3504104	100.9314295	100.5159137	100.10382	99.69510629	99.2897311	98.88765362	98.48883371
ADV1013927	3/17/2025	4.13	5/31/2029	112.64641	109.4252318	106.3147784	103.3105995	100.4084475	97.60427126	94.89420574	92.27456195	89.74181797
ADV1013596	3/14/2025	4.111	3/14/2029	111.74949	108.7591446	105.8655856	103.0651567	100.3543626	97.72985857	95.18844317	92.72705112	90.34274691
ADV1014142	3/27/2025	4.266	3/22/2030	116.16488	112.0556765	108.1178008	104.3432015	100.7242452	97.2536951	93.92468859	90.73071588	87.66559998
ADV1014358	4/3/2025	3.849	4/3/2028	107.41759	105.4432237	103.5154067	101.6327568	99.79394282	97.9976817	96.2427365	94.52791442	92.85206484
ADV1014377	4/3/2025	3.828	4/5/2027	103.69125	102.7359411	101.7982543	100.8777074	99.97383318	99.08618119	98.21431712	97.35782208	96.51629186
ADV1014860	4/24/2025	3.975	10/26/2026	102.06088	101.5599601	101.0639611	100.5728122	100.0864424	99.60478214	99.12776315	98.65531851	98.18738256
ADV1014391	4/4/2025	3.661	4/4/2028	107.05957	105.085979	103.1589998	101.2772452	99.43938031	97.64411871	95.89022018	94.17648879	92.50177102
ADV1014470	4/8/2025	3.82	4/10/2028	107.43243	105.4382657	103.4915687	101.5909173	99.73494124	97.92232013	96.15178165	94.4220993	92.73209042

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1015016	4/29/2025	4.101	4/29/2031	119.80487	114.4695675	109.4102483	104.6111229	100.0573871	95.73515703	91.63140625	87.73390879	84.03118569
ADV1014413	4/4/2025	3.784	4/4/2030	114.85407	110.7218192	106.7639253	102.9720993	99.33849272	95.85566981	92.51658321	89.31455173	86.2432394
ADV1014917	4/25/2025	4.902	4/25/2040	153.10052	137.1738584	123.2139415	110.9607766	100.190316	90.70930506	82.35089257	74.97088727	68.44456227
ADV1015079	4/30/2025	3.7	7/30/2027	104.73482	103.4509706	102.198631	100.976655	99.78394717	98.61946448	97.48221287	96.37124448	95.28565502
ADV1015048	4/30/2025	3.727	4/30/2027	103.84938	102.8236759	101.8182503	100.8325022	99.86585782	98.91776549	97.98769459	97.07513458	96.17959404
ADV1014203	3/28/2025	3.94	3/29/2027	103.77318	102.8361393	101.9160458	101.0124382	100.124876	99.25293429	98.39620305	97.55428647	96.72680237
ADV1014369	4/3/2025	3.869	4/3/2030	114.92966	110.8056831	106.8554014	103.0705762	99.44340051	95.96647695	92.63279402	89.43570399	86.36890205
ADV1013727	3/7/2025	4.007	3/7/2028	107.43997	105.5390851	103.6814815	101.8659177	100.0911973	98.35616511	96.65970634	95.00074431	93.37823911
ADV1013630	3/18/2025	4.037	9/18/2029	113.51706	109.9740175	106.5624758	103.2768519	100.1118334	97.06236011	94.12361123	91.29099251	88.56012444
ADV1013689	3/6/2025	4.101	4/15/2027	104.06249	103.0774324	102.1110706	101.1628736	100.2323321	99.3189554	98.42227111	97.54182395	96.67717508
ADV1014145	3/27/2025	4.031	3/27/2028	107.81395	105.8527243	103.9373379	102.0664399	100.2387302	98.45295546	96.70790679	95.00241816	93.33536441
ADV1013756	3/17/2025	4.041	9/17/2026	101.64298	101.251711	100.8634616	100.4782013	100.0958955	99.71651026	99.34001202	98.96636779	98.59554508
ADV1014855	4/24/2025	3.917	1/18/2028	106.74009	104.9844952	103.2665623	101.5851484	99.93915347	98.32752186	96.74924018	95.20333512	93.68887142
ADV1014346	4/3/2025	3.906	4/3/2030	115.07689	110.9500077	106.9969132	103.2093617	99.57954271	96.10005558	92.76388581	89.56438274	86.49523877
ADV1014293	4/1/2025	3.972	4/15/2027	103.93763	102.9532576	101.9875679	101.040034	100.1101465	99.19741534	98.30136806	97.42154963	96.55752139
ADV1014916	4/25/2025	4.82	4/25/2039	149.31957	134.6104915	121.6113368	110.1093709	99.91957195	90.88088099	82.85297817	75.71350725	69.35568446
ADV1014852	4/24/2025	3.938	2/16/2027	103.26722	102.4475404	101.6408961	100.8469755	100.0654788	99.29611581	98.538605	97.7926737	97.05805751
ADV1014331	4/3/2025	3.804	10/5/2026	101.77676	101.3347675	100.8966241	100.4622753	100.0316718	99.60476523	99.18150801	98.76185339	98.34575543
ADV1014992	4/29/2025	3.756	10/12/2027	105.49811	104.0216534	102.573413	101.1526507	99.75865174	98.39072598	97.04820639	95.73044824	94.43682821
ADV1013867	3/13/2025	4.102	3/15/2027	102.11921	101.613326	101.113781	100.6204459	100.1331924	99.65189604	99.17643577	98.70669407	98.24255673
ADV1014076	3/24/2025	4.156	3/26/2029	112.00799	108.9808569	106.0526726	103.2196662	100.4782292	97.82491079	95.25640909	92.76956443	90.36135218
ADV1014245	3/31/2025	4.363	6/1/2032	124.87205	118.2729074	112.0770659	106.2575815	100.7894501	95.6494605	90.8160567	86.26921107	81.99030819
ADV1014831	4/23/2025	3.882	4/23/2027	103.99226	102.9844011	101.9961106	101.0268207	100.0759869	99.14308495	98.2276106	97.32907823	96.44702015
ADV1014140	3/27/2025	4.265	3/15/2030	116.08624	111.9979246	108.0793291	104.3225059	100.7199246	97.26444471	93.94929329	90.76804393	87.71459737
ADV1013774	3/17/2025	4.096	3/15/2030	115.63322	111.5480803	107.6327584	103.8793003	100.280164	96.82819815	93.51661979	90.33899338	87.28921125
ADV1015012	4/29/2025	3.756	4/28/2028	107.48535	105.4401391	103.4448024	101.4978044	99.59767106	97.74298391	95.93237721	94.16453568	92.43819226
ADV1014252	3/31/2025	4.271	3/31/2031	120.37353	115.1070766	110.1086853	105.3632599	100.8566343	96.57550885	92.50739202	88.64054776	84.96394576
ADV1013629	3/18/2025	4.037	9/18/2029	113.51706	109.9740175	106.5624758	103.2768519	100.1118334	97.06236011	94.12361123	91.29099251	88.56012444
ADV1014775	4/22/2025	4.147	4/19/2030	115.99067	111.8059833	107.7990663	103.9614039	100.2849337	96.76202081	93.38543268	90.14831584	87.04417388
ADV1013764	3/18/2025	4.011	9/20/2027	105.65451	104.2372873	102.8461233	101.4803553	100.1393469	98.8224828	97.52916732	96.25882413	95.01089526
ADV1013897	3/14/2025	4.089	3/14/2028	107.66883	105.7466426	103.8686137	102.0334633	100.2399596	98.48691441	96.77318092	95.0976522	93.45925944
ADV1014260	3/31/2025	4.005	3/31/2028	107.68659	105.7179376	103.7954997	101.9179062	100.0838411	98.29203559	96.54126663	94.83035437	93.15816058
ADV1015045	4/30/2025	4.595	4/30/2037	141.93096	129.609966	118.5374798	108.5779943	99.61145418	91.53142098	84.2434619	77.66373655	71.71775663

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014748	4/21/2025	3.844	4/21/2027	103.87372	102.8729131	101.8914179	100.9286831	99.98417377	99.05737549	98.14779281	97.25494872	96.37838368
ADV1013875	3/13/2025	4.103	9/5/2029	113.60332	110.0958003	106.7171692	103.4620093	100.3251624	97.30171304	94.38697569	91.57648288	88.86597386
ADV1013777	3/12/2025	4.022	8/31/2028	109.37308	106.9626374	104.6180243	102.3370786	100.1177258	97.9579708	95.85589462	93.80965086	91.81746263
ADV1014367	4/3/2025	3.84	2/5/2027	103.07422	102.2859789	101.509804	100.7454204	99.99256045	99.2509649	98.52038204	97.80056765	97.0912847
ADV1014405	4/4/2025	3.679	2/4/2028	106.60461	104.8013635	103.0376338	101.3122115	99.623936	97.97169377	96.35441563	94.77107469	93.22068419
ADV1014396	4/4/2025	3.643	4/4/2030	114.29195	110.1708005	106.2236628	102.4422623	98.81876348	95.34574287	92.0161648	88.82335929	85.76100105
ADV1014259	3/31/2025	3.999	9/30/2027	105.73709	104.2912708	102.8724945	101.4800678	100.1133196	98.77160085	97.45428428	96.16076296	94.89044968
ADV1014793	4/22/2025	3.968	10/22/2026	102.01268	101.5230233	101.0380789	100.5577774	100.0820523	99.61083824	99.14407111	98.68168804	98.22362734
ADV1014616	4/15/2025	3.87	4/15/2027	103.89506	102.9099907	101.943638	100.995468	100.0649703	99.15165356	98.25504442	97.37468686	96.51014131
ADV1014044	3/21/2025	4.047	10/10/2028	109.86836	107.3398018	104.8832544	102.4962493	100.1764219	97.92150269	95.72931253	93.59775859	91.52483044
ADV1013765	3/18/2025	4.018	3/20/2028	107.5969	105.6590765	103.7661185	101.9167142	100.1096027	98.34356813	96.6174375	94.93007873	93.28039911
ADV1013728	3/7/2025	4.081	3/7/2029	111.5892	108.6204494	105.7472212	102.9659348	100.27316	97.6656132	95.14015082	92.69376206	90.32356279
ADV1013631	3/14/2025	3.983	9/14/2027	105.5551	104.1554091	102.781175	101.4317656	100.1065655	98.8049789	97.52642912	96.27035793	95.0362247
ADV1013699	3/6/2025	4.07	3/6/2028	107.54793	105.6487292	103.7927132	101.9786428	100.2053257	98.47161096	96.77638756	95.1185825	93.49715938
ADV1014868	4/24/2025	3.835	4/26/2027	103.97776	102.9616017	101.9653341	100.9883732	100.0301615	99.09016239	98.16785984	97.26275703	96.37437564
ADV1014292	4/1/2025	3.976	4/1/2027	103.78779	102.8431312	101.9156857	101.0049897	100.1105922	99.23205815	98.36896801	97.52091681	96.68751369
ADV1014375	4/3/2025	3.845	4/5/2027	103.70734	102.7519412	101.8141733	100.8935464	99.98959306	99.101863	98.22992184	97.37335066	96.53174524
ADV1014492	4/9/2025	3.963	5/1/2028	107.93924	105.8810093	103.8731217	101.9140209	100.0022139	98.136264	96.31478832	94.53645516	92.79998185
ADV1014857	4/24/2025	3.935	7/14/2028	108.66352	106.3926343	104.1810573	102.0267984	99.92795552	97.88270592	95.88930232	93.94606899	92.0513982
ADV1015058	4/30/2025	3.648	4/30/2027	103.83058	102.8040972	101.7979158	100.8114408	99.84409721	98.8953322	97.96461405	97.05143118	96.15529117
ADV1014247	3/31/2025	4.102	3/29/2030	115.80034	111.6732033	107.719133	103.9299514	100.297908	96.81565778	93.47623736	90.27304325	87.19981138
ADV1014851	4/24/2025	3.948	1/13/2027	102.90643	102.1828742	101.4695151	100.766135	100.0725253	99.38848306	98.7138109	98.04831694	97.39181448
ADV1014299	4/1/2025	3.996	10/30/2026	102.12077	101.6085596	101.1014876	100.5994753	100.1024471	99.61032903	99.12304872	98.64053504	98.1627183
ADV1014574	4/14/2025	4.189	6/14/2030	116.97722	112.6089941	108.4321425	104.4371977	100.6152181	96.95775299	93.45681297	90.10484179	86.89469034
ADV1014472	4/8/2025	3.997	4/8/2030	115.48997	111.3406975	107.3666534	103.5594986	99.91133421	96.41467723	93.06243639	89.84788953	86.76466238
ADV1014370	4/3/2025	3.82	4/5/2027	103.68368	102.7284116	101.790763	100.8702538	99.96641677	99.07880151	98.20697373	97.35051451	96.50901968
ADV1014372	4/3/2025	3.873	4/3/2030	114.94558	110.8212858	106.8707	103.08558	99.45811859	95.98091788	92.64696611	89.44961521	86.38256008
ADV1013599	3/14/2025	4.101	3/14/2029	111.72036	108.7304391	105.8372951	103.0372712	100.3268722	97.70275396	95.16171513	92.7006908	90.31674571
ADV1014861	4/24/2025	3.924	4/26/2027	104.00635	102.9909139	101.9953389	101.019043	100.0614699	99.12208414	98.20037064	97.29583363	96.40799575
ADV1013771	3/18/2025	4.009	3/20/2028	107.57964	105.6419886	103.7491969	101.8999556	100.0930041	98.32712661	96.60115012	94.91394269	93.26441166
ADV1015021	4/29/2025	3.755	4/29/2027	103.86742	102.8443968	101.841545	100.8582696	99.89400108	98.94819187	98.02031531	97.10986457	96.2163518
ADV1015072	4/30/2025	3.71	4/28/2028	107.39218	105.34794	103.3535477	101.4074757	99.50825048	97.65445406	95.84472118	94.07773704	92.35223502
ADV1015043	4/30/2025	3.791	12/16/2026	102.50369	101.8595271	101.2234732	100.5953771	99.97508993	99.36246636	98.75736474	98.15964687	97.56917795

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1015020	4/29/2025	3.81	12/29/2026	102.65081	101.9699347	101.2980897	100.6351002	99.98079199	99.33499524	98.6975446	98.06827896	97.44704134
ADV1013772	3/18/2025	4.095	3/15/2030	115.6293	111.5442306	107.6289828	103.8755966	100.27653	96.8246317	93.51311893	90.33555618	87.28583587
ADV1013753	3/10/2025	4.022	3/10/2027	103.58301	102.7006054	101.8332615	100.9805974	100.1422422	99.31783735	98.50703621	97.70950359	96.92491521
ADV1015060	4/30/2025	3.707	4/30/2029	111.21492	108.0967002	105.0838302	102.1721558	99.35771256	96.63671495	94.0055469	91.46075328	88.99903172
ADV1014402	4/4/2025	3.778	4/3/2030	114.56756	110.4507228	106.5073587	102.7292388	99.10856431	95.63794572	92.31037908	89.11922384	86.05818202
ADV1013956	3/18/2025	4.148	11/18/2026	102.41445	101.8484148	101.288651	100.7350543	100.1875228	99.64595708	99.11025979	98.58033569	98.05609161
ADV1015092	4/30/2025	3.784	10/30/2026	102.00868	101.49679	100.9900343	100.4883359	99.99161955	99.49981119	99.01283839	98.5306301	98.05311666
ADV1014448	4/7/2025	3.876	4/7/2027	103.75762	102.7963938	101.8530002	100.9269502	100.0177682	99.12499588	98.24819132	97.38692842	96.54079613
ADV1013755	3/14/2025	4.101	3/14/2030	115.64309	111.5605265	107.6475622	103.8962597	100.2990909	96.84891792	93.53896997	90.36282299	87.31437997
ADV1014796	4/22/2025	3.832	4/22/2027	103.93231	102.9275429	101.9422304	100.9758129	100.0277502	99.0975224	98.18462907	97.28858841	96.40893631
ADV1014967	4/28/2025	3.855	10/28/2026	102.02291	101.5165338	101.0151893	100.518798	100.0272867	99.54058377	99.05861878	98.58132277	98.1086281
ADV1014373	4/3/2025	3.761	4/5/2027	103.68493	102.7288447	101.7904088	100.8691387	99.96456604	99.07623954	98.20372396	97.34659949	96.5044611
ADV1014745	4/21/2025	4.258	4/23/2035	118.2295	113.349135	108.7644094	104.4540101	100.3983467	96.57939945	92.98058154	89.58661462	86.38341593
ADV1013768	3/17/2025	4.018	3/17/2028	107.56507	105.6357279	103.7508798	101.9092351	100.1095477	98.35061609	96.63128063	94.95042218	93.30696032
ADV1013671	3/5/2025	4.087	3/5/2027	103.58383	102.715358	101.8614733	101.0218108	100.1960169	99.38374973	98.58467847	97.79848308	97.02485379
ADV1013972	3/18/2025	4.1	3/15/2028	107.69995	105.7747465	103.8938208	102.0558933	100.2597272	98.50412945	96.78794882	95.11007399	93.46943201
ADV1013598	3/14/2025	4.061	3/14/2028	107.6156	105.6939334	103.8164131	101.9817617	100.1887477	98.43618304	96.72292133	95.0478558	93.40991788
ADV1015073	4/30/2025	3.79	4/30/2029	111.27732	108.1625935	105.1529928	102.244378	99.4327964	96.71447328	94.08580287	91.54333971	89.08379057
ADV1014643	4/16/2025	3.921	4/16/2027	103.89625	102.9092436	101.9410251	100.9910621	100.058841	99.14386763	98.24566572	97.3637766	96.49775815
ADV1014913	4/25/2025	4.617	4/25/2036	139.42738	128.2557926	118.1264191	108.9349074	100.5879181	93.00190785	86.10205283	79.82129629	74.09950437
ADV1013633	3/4/2025	4.006	3/4/2027	103.50319	102.6378786	101.7870608	100.9503697	100.1274553	99.31797888	98.52161303	97.73804074	96.9669552
ADV1014047	3/21/2025	3.942	3/21/2028	107.57897	105.6364295	103.7389571	101.8852341	100.0739918	98.30400626	96.57409697	94.88312479	93.22999023
ADV1013621	3/4/2025	4.006	9/17/2026	101.63148	101.2402833	100.852112	100.4669289	100.0846997	99.70539015	99.32896689	98.95539689	98.58464769
ADV1013895	3/14/2025	4.113	9/14/2026	101.63596	101.2530459	100.8730309	100.4958805	100.1215621	99.75004378	99.3812941	99.01528206	98.65197711
ADV1013766	3/18/2025	4.072	3/19/2029	111.68797	108.6847922	105.7792336	102.9675964	100.2463405	97.6120788	95.06157017	92.59171186	90.19953306
ADV1014430	4/7/2025	3.734	10/7/2026	101.76721	101.3196659	100.876066	100.4363586	100.0004925	99.56841742	99.14008391	98.71544338	98.29444809
ADV1013896	3/14/2025	4.097	3/15/2027	103.70509	102.8081631	101.9267891	101.060563	100.2090959	99.37201232	98.54894952	97.73955676	96.94349494
ADV1013715	3/7/2025	3.924	3/8/2027	103.52854	102.6512528	101.7888541	100.9409707	100.1072381	99.28730358	98.48082628	97.6874764	96.90693488
ADV1013775	3/18/2025	4.095	3/15/2030	115.6293	111.5442306	107.6289828	103.8755966	100.27653	96.8246317	93.51311893	90.33555618	87.28583587
ADV1014423	4/7/2025	3.683	4/7/2027	103.63138	102.6699832	101.7264438	100.8002662	99.89097415	98.99810835	98.12122619	97.25990081	96.41372046
ADV1015053	4/30/2025	3.77	4/30/2030	115.05154	110.8413687	106.8119044	102.9544101	99.26061527	95.72269261	92.33323109	89.0852118	85.97198495
ADV1015093	4/30/2025	3.784	10/30/2026	102.00868	101.49679	100.9900343	100.4883359	99.99161955	99.49981119	99.01283839	98.5306301	98.05311666
ADV1015009	4/29/2025	3.761	4/29/2027	103.87349	102.8504344	101.8475501	100.8642426	99.89994231	98.95410183	98.0261944	97.11571322	96.22217039

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1013634	3/4/2025	3.989	3/6/2028	107.39603	105.4983086	103.6437444	101.8310985	100.0591792	98.32683642	96.63295982	94.97647709	93.35635249
ADV1013754	3/14/2025	4.021	3/15/2027	103.63766	102.7410565	101.8600042	100.9940958	100.1429426	99.30616931	98.48341307	97.67432328	96.87856092
ADV1014409	4/4/2025	3.767	4/15/2027	103.73755	102.7542036	101.7895328	100.8430045	99.9141098	99.00235856	98.10727878	97.22841565	96.36533077
ADV1015011	4/29/2025	3.757	4/29/2027	103.86944	102.8464093	101.8435467	100.8602606	99.89598149	98.95016186	98.02227501	97.11181412	96.21829133
ADV1013752	3/10/2025	4.046	9/10/2026	101.56402	101.1924116	100.8235343	100.4573565	100.0938485	99.73298096	99.37472516	99.01905268	98.66593554
ADV1013672	3/5/2025	4.085	3/6/2028	107.57627	105.6768082	103.8205329	102.006208	100.2326411	98.49868107	96.8032168	95.14517516	93.52351966
ADV1013971	3/18/2025	4.103	9/9/2027	105.66994	104.2834378	102.9219302	101.5847985	100.2714433	98.98128454	97.71376055	96.46832738	95.24445813
ADV1014566	4/14/2025	4.11	4/1/2030	114.40587	110.6565743	107.0621877	103.6153629	100.3091415	97.13693311	94.09249409	91.16990726	88.36356293
ADV1013812	3/11/2025	4.062	6/25/2026	100.66278	100.5068389	100.3513844	100.1964177	100.0419364	99.88793842	99.73442136	99.58138298	99.42882104
ADV1013807	3/11/2025	4.024	9/11/2026	101.56752	101.1931219	100.821491	100.4526004	100.0864199	99.72291937	99.36206948	99.00384116	98.64820578
ADV1014912	4/25/2025	4.561	4/25/2035	135.78901	125.8055186	116.6737303	108.3154851	100.6602071	93.64413376	87.20962473	81.3045444	75.88170936
ADV1014772	4/22/2025	4.144	4/5/2030	115.83072	111.6890128	107.7216436	103.920337	100.2772568	96.78497806	93.43646335	90.22504051	87.14438165
ADV1013767	3/17/2025	4.011	9/17/2027	105.62404	104.2154441	102.8326056	101.4748793	100.1416392	98.83227958	97.54621439	96.28287627	95.0417159
ADV1015069	4/30/2025	3.633	4/30/2027	103.81536	102.7889569	101.7828575	100.7964633	99.82919946	98.8805131	97.94987255	97.03676625	96.14070181
ADV1014141	3/27/2025	4.05	9/28/2026	101.79908	101.3765253	100.9574798	100.5418997	100.1297421	99.72096481	99.3155264	98.91338605	98.5145036
ADV1013814	3/11/2025	4.034	3/11/2027	103.60473	102.719426	101.8492868	100.9939206	100.1529531	99.32602219	98.51277817	97.7128827	96.92600857
ADV1014390	4/4/2025	3.661	4/4/2028	107.05957	105.085979	103.1589998	101.2772452	99.43938031	97.64411871	95.89022018	94.17648879	92.50177102
ADV1013954	3/18/2025	4.214	5/18/2026	100.22166	100.1715784	100.1215658	100.0716203	100.0217417	99.97192985	99.92218471	99.87250608	99.82289384
ADV1015098	4/30/2025	3.629	4/30/2027	103.8113	102.7849195	101.7788419	100.7924693	99.82522673	98.87656134	97.94594148	97.0328556	96.13681132
ADV1014877	4/24/2025	4.048	4/19/2030	115.8059	111.6190376	107.6102241	103.7709262	100.0930624	96.56897995	93.1914299	89.95354341	86.84880978
ADV1013770	3/18/2025	4.019	3/18/2027	103.66884	102.7637249	101.8744508	101.0006007	100.1417754	99.29758907	98.46766924	97.65165589	96.84920106
ADV1013776	3/18/2025	4.095	3/15/2030	115.6293	111.5442306	107.6289828	103.8755966	100.27653	96.8246317	93.51311893	90.33555618	87.28583587
ADV1013906	3/14/2025	4.05	9/14/2026	101.63456	101.2513905	100.8711226	100.4937243	100.119163	99.74740674	99.37842389	99.01218335	98.64865448
ADV1014294	4/1/2025	4.009	9/17/2029	113.41291	109.8746028	106.4675344	103.1861408	100.0251234	96.9794351	94.04426738	91.21503753	88.48737689
ADV1014862	4/24/2025	3.927	4/24/2028	107.78969	105.7525657	103.7648398	101.8250011	99.93159718	98.08323008	96.27855345	94.51627042	92.79513143
ADV1013579	3/3/2025	4.126	9/3/2026	101.51119	101.1592009	100.8096498	100.4625159	100.1177743	99.77540021	99.43536939	99.09765776	98.76224164
ADV1013757	3/17/2025	4.021	3/17/2028	107.5708	105.6413993	103.7564964	101.9147977	100.1150574	98.35607388	96.63668745	94.95577897	93.31226797
ADV1015081	4/30/2025	3.756	4/30/2027	103.82768	102.8028374	101.7982417	100.8132968	99.84742993	98.90009039	97.97074855	97.0588948	96.16403857
ADV1014822	4/23/2025	3.953	4/23/2027	104.0027	102.9956529	102.0081432	101.0396057	100.0894971	99.15729418	98.24249378	97.34461128	96.46317993
ADV1013760	3/17/2025	4.089	9/17/2029	113.68479	110.1417277	106.7300386	103.4441518	100.2787639	97.22882367	94.28951837	91.45626129	88.72467994
ADV1014249	3/31/2025	4.102	3/29/2030	115.80034	111.6732033	107.719133	103.9299514	100.297908	96.81565778	93.47623736	90.27304325	87.19981138
ADV1013644	3/4/2025	4.088	3/5/2029	111.58875	108.6255194	105.7574682	102.9810358	100.2928098	97.68952369	95.16804976	92.72539227	90.35868126
ADV1014964	4/28/2025	3.796	4/28/2028	107.5665	105.5204465	103.52428	101.5764683	99.67553721	97.82006758	96.00869331	94.24009869	92.51301626

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1013593	3/3/2025	4.105	3/1/2030	115.52533	111.4810488	107.6034042	103.8846573	100.3174699	96.89487997	93.61028117	90.45740235	87.43028901
ADV1013576	3/3/2025	4.019	3/3/2027	103.55471	102.6912419	101.8421951	101.0072082	100.1859338	99.37803574	98.58318897	97.80107872	97.03140036
ADV1014365	4/3/2025	4.112	4/3/2031	119.34579	114.1044917	109.1305129	104.4087748	99.92513031	95.66629816	91.61980563	87.77393519	84.11767496
ADV1014378	4/3/2025	3.808	4/4/2028	107.34763	105.3711598	103.4413508	101.5568206	99.71623282	97.91829953	96.1617791	94.44547426	92.76823017
ADV1014363	4/3/2025	3.852	4/5/2027	103.71396	102.7585295	101.8207282	100.9000683	99.99608243	99.10832022	98.23634732	97.37974479	96.5381084
ADV1013769	3/17/2025	4.085	9/17/2029	113.67107	110.1282389	106.7167779	103.4311129	100.2659409	97.21621065	94.27710975	91.44405167	88.71266409
ADV1015084	4/30/2025	3.699	4/30/2027	103.82097	102.7954232	101.7901504	100.804553	99.83805729	98.89011163	97.96018545	97.04776825	96.15236863
ADV1014953	4/28/2025	3.812	4/28/2027	103.91471	102.89421	101.8937765	100.9128203	99.95077621	99.00710081	98.08127127	97.17278445	96.28115599
ADV1014388	4/4/2025	3.661	4/4/2028	107.05957	105.085979	103.1589998	101.2772452	99.43938031	97.64411871	95.89022018	94.17648879	92.50177102
ADV1014204	3/28/2025	3.947	3/29/2027	103.77966	102.8425883	101.9224626	101.0188233	100.1312298	99.25925713	98.40249534	97.56054858	96.73303466
ADV1013626	3/14/2025	4.024	9/14/2028	109.531	107.0791053	104.695167	102.3769273	100.122213	97.92893535	95.79508674	93.71873668	91.69802849
ADV1014360	4/3/2025	3.842	4/3/2028	107.40389	105.4296627	103.5019801	101.619462	99.7807773	97.98464305	96.22982237	94.5151225	92.8393929
ADV1014354	4/3/2025	3.769	4/3/2028	107.38096	105.4047386	103.4751492	101.5908072	99.75037776	97.9525748	96.19615828	94.47993246	92.80274397
ADV1014081	3/24/2025	4.114	3/24/2028	107.82322	105.8722819	103.9667276	102.1052301	100.2865078	98.50932483	96.77248901	95.07485017	93.41529832
ADV1014615	4/15/2025	3.923	10/15/2026	101.9412	101.4708953	101.004943	100.5432843	100.0858597	99.63261095	99.18348095	98.73841348	98.29735341
ADV1014395	4/4/2025	3.57	4/4/2028	107.00111	105.0258771	103.0973389	101.2141016	99.37482691	97.57822534	95.82305369	94.10811323	92.43224776
ADV1014400	4/4/2025	3.729	4/5/2027	103.5976	102.6427637	101.7055493	100.7854688	99.88205505	98.99485769	98.12344258	97.26739093	96.42629865
ADV1014368	4/3/2025	3.816	7/1/2027	104.59223	103.389772	102.2149991	101.0669663	99.94476755	98.84753725	97.77444818	96.72470928	95.69756374
ADV1014639	4/16/2025	3.954	4/14/2028	107.73846	105.7299518	103.769502	101.8556599	99.98703093	98.16227176	96.38008809	94.63923253	92.93850255
ADV1015075	4/30/2025	3.706	4/30/2027	103.82807	102.8024864	101.7971754	100.8115403	99.84500742	98.8970251	97.96706274	97.05460983	96.15917498
ADV1013928	3/17/2025	4.092	3/17/2028	107.70635	105.775624	103.8894205	102.0464459	100.2454537	98.4852414	96.76464884	95.0825562	93.43788245
ADV1014389	4/4/2025	3.661	4/4/2028	107.05957	105.085979	103.1589998	101.2772452	99.43938031	97.64411871	95.89022018	94.17648879	92.50177102
ADV1014036	3/21/2025	4.005	3/21/2028	107.58208	105.6416774	103.7462515	101.894492	100.0851335	98.31695528	96.58877991	94.89947114	93.24793226
ADV1014380	4/3/2025	3.876	4/4/2030	114.9675	110.839932	106.8863235	103.098414	99.46838007	95.98880869	92.65267403	89.45331497	86.38441424
ADV1013786	3/10/2025	4.395	3/1/2035	125.76665	118.6009024	111.9752698	105.8438351	100.164908	94.90061054	90.0165059	85.48126497	81.26636746
ADV1014043	3/21/2025	4.043	9/12/2028	109.55372	107.1072081	104.7283655	102.4149402	100.1647728	97.975788	95.84599061	93.77346202	91.75635685
ADV1013759	3/17/2025	4.076	3/19/2029	111.69968	108.6963277	105.7906015	102.9788009	100.2573854	97.62296805	95.07230745	92.60230076	90.20997705
ADV1014401	4/4/2025	3.693	4/4/2028	107.12228	105.1480592	103.220464	101.3381051	99.49964752	97.70380433	95.94933504	94.23504345	92.55977573
ADV1014218	3/31/2025	4.03	3/30/2029	111.67805	108.6448186	105.7111097	102.8731175	100.1272003	97.46987602	94.89781349	92.40782547	89.99686144
ADV1013773	3/17/2025	4.096	3/15/2030	115.63322	111.5480803	107.6327584	103.8793003	100.280164	96.82819815	93.51661979	90.33899338	87.28921125
ADV1014300	4/1/2025	3.979	5/3/2027	104.1422	103.1065774	102.0915875	101.0966173	100.1210781	99.16440414	98.22605155	97.30549714	96.40223749
ADV1014342	4/3/2025	3.856	4/3/2028	107.43129	105.4567847	103.5288334	101.6460517	99.80710834	98.01072034	96.25565064	94.54070634	92.86473678
ADV1013595	3/14/2025	4.07	3/14/2028	107.63271	105.7108756	103.8331919	101.9983801	100.2052087	98.45248955	96.7390762	95.06386178	93.42577766

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1013597	3/14/2025	4.091	3/15/2027	103.69976	102.8028652	101.9215166	101.0553155	100.2038732	99.36681418	98.54377559	97.73440675	96.93836857
ADV1013670	3/7/2025	4.134	3/7/2030	115.7004	111.6361163	107.7399046	104.0039324	100.4207717	96.98337694	93.68506379	90.51948846	87.48062869
ADV1014914	4/25/2025	4.677	4/27/2037	142.80385	130.4449966	119.3363882	109.3424901	100.3432141	92.23207822	84.91459836	78.30687714	72.33436555
ADV1014774	4/22/2025	4.147	4/19/2030	115.99067	111.8059833	107.7990663	103.9614039	100.2849337	96.76202081	93.38543268	90.14831584	87.04417388
ADV1015076	4/30/2025	3.797	4/30/2029	111.29862	108.1835684	105.1736514	102.2647284	99.45284615	96.73422983	94.1052734	91.56253118	89.10270969
ADV1013779	3/14/2025	4.017	7/31/2028	109.03017	106.7086594	104.4487459	102.2483326	100.1054092	98.01805107	95.98441522	94.00273556	92.0713192
ADV1013758	3/17/2025	4.047	9/18/2028	109.62996	107.1655527	104.7697358	102.4402165	100.1747924	97.9713475	95.8278479	93.7423384	91.71293886
ADV1013622	3/4/2025	4.008	3/4/2030	115.17856	111.1326713	107.2538842	103.5344196	99.96690386	96.54434232	93.26009822	90.10787235	87.08168419
ADV1014848	4/24/2025	4.062	4/24/2030	114.89356	110.9641393	107.200751	103.595379	100.1404403	96.82875965	93.6535458	90.60836833	87.68713647
ADV1013714	3/7/2025	3.924	3/8/2027	103.52854	102.6512528	101.7888541	100.9409707	100.1072381	99.28730358	98.48082628	97.6874764	96.90693488
ADV1015096	4/30/2025	3.629	4/30/2027	103.8113	102.7849195	101.7788419	100.7924693	99.82522673	98.87656134	97.94594148	97.0328556	96.13681132
ADV1013594	3/14/2025	4.091	3/15/2027	103.69976	102.8028652	101.9215166	101.0553155	100.2038732	99.36681418	98.54377559	97.73440675	96.93836857
ADV1013577	3/3/2025	4.099	3/3/2027	103.57148	102.7086443	101.8602057	101.0258063	100.2050995	99.39775003	98.60343332	97.82183535	97.05265212
ADV1013673	3/5/2025	4.165	3/5/2030	115.80065	111.739971	107.8469806	104.1138718	100.533243	97.09807334	93.80170139	90.63780461	87.60038049
ADV1013970	3/18/2025	4.123	3/18/2027	103.76196	102.8563983	101.9666761	101.0923834	100.2331208	99.38850245	98.55815574	97.74172055	96.93884883
ADV1014410	4/4/2025	3.73	4/4/2029	111.02877	107.9869022	105.0454618	102.2005826	99.44856982	96.78589123	94.20916885	91.71517137	89.30080693
ADV1015022	4/29/2025	3.747	10/29/2027	105.64143	104.1178474	102.624243	101.1598117	99.72377332	98.31537507	96.93389024	95.57861712	94.24887787
ADV1014371	4/3/2025	3.805	4/3/2028	107.33149	105.3579831	103.4310108	101.5491894	99.71118814	97.9157245	96.16156195	94.44750807	92.77241262
ADV1013762	3/18/2025	4.021	3/18/2027	103.67063	102.7655071	101.8762243	101.0023658	100.143532	99.29933741	98.46940937	97.65338791	96.85092506
ADV1014915	4/25/2025	4.745	4/26/2038	145.98881	132.4596744	120.4025487	109.6459751	100.039438	91.45070473	83.76351465	76.87556994	70.696789
ADV1013632	3/18/2025	4.037	9/18/2029	113.51706	109.9740175	106.5624758	103.2768519	100.1118334	97.06236011	94.12361123	91.29099251	88.56012444
ADV1014143	3/27/2025	4.047	9/28/2026	101.79782	101.375269	100.9562267	100.5406497	100.1284952	99.71972105	99.31428572	98.91214843	98.51326902
ADV1013933	3/17/2025	4.166	8/31/2029	113.76143	110.2654639	106.897439	103.6520058	100.5240628	97.50874762	94.60142443	91.7976723	89.093274
ADV1014491	4/9/2025	3.958	4/17/2028	107.77954	105.7622034	103.7933302	101.8714516	99.99515554	98.16308227	96.3739219	94.62641217	92.91933643
ADV1015017	4/29/2025	4.2	4/29/2032	123.59372	117.1247649	111.0469397	105.3344024	99.96314805	94.91087307	90.15684594	85.6817885	81.46776679
ADV1014921	4/25/2025	3.873	4/26/2028	107.70183	105.6599868	103.6677911	101.7237211	99.82631332	97.97415917	96.16590227	94.40023623	92.67590242
ADV1014151	3/27/2025	4.117	4/5/2028	107.9607	105.9752727	104.0367586	102.1437629	100.2949405	98.48899505	96.72467697	95.00078134	93.31614603
ADV1014264	3/31/2025	3.924	3/31/2027	103.7804	102.8377547	101.912252	101.003425	100.1108258	99.2340222	98.37259754	97.52614951	96.69428976
ADV1014163	3/31/2025	4.207	3/29/2030	116.2166	112.0812786	108.1192804	104.3224135	100.6829182	97.19344031	93.84700797	90.63700949	87.55717295
ADV1014901	4/25/2025	3.911	4/26/2027	103.9933	102.9779382	101.9824327	101.0062054	100.0487	99.10938095	98.18773333	97.28326134	96.39548763
ADV1014317	4/2/2025	4.027	4/3/2028	107.76591	105.7880607	103.8568267	101.9708252	100.1287232	98.32923579	96.57112446	94.85319468	93.17429426
ADV1015015	4/29/2025	3.904	4/29/2030	115.3268	111.121068	107.0954902	103.2413707	99.55047793	96.01502028	92.62761995	89.38128886	86.26940585
ADV1014471	4/8/2025	3.91	4/9/2029	111.42918	108.3714764	105.4150445	102.5559671	99.79050579	97.11508697	94.52629393	92.02085887	89.59565554

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014575	4/14/2025	4.214	7/30/2030	117.57223	113.0624391	108.7551405	104.6400611	100.7075106	96.94834623	93.35393859	89.91613919	86.62725068
ADV1015059	4/30/2025	3.646	4/28/2028	107.3868	105.3402717	103.3436897	101.3955212	99.49428868	97.63857047	95.8269977	94.05825217	92.33106404
ADV1014379	4/3/2025	3.852	4/4/2029	111.20589	108.1656567	105.2256862	102.3821205	99.63127428	96.96962399	94.39379992	91.90057856	89.48687533
ADV1015044	4/30/2025	3.876	4/29/2030	115.2134	111.0099423	106.9865682	103.1345838	99.44576032	95.91230853	92.52685319	89.28240853	86.17235564
ADV1013930	3/17/2025	4.029	3/17/2027	103.7205	102.8171728	101.929618	101.0574207	100.2001844	99.3575257	98.5290746	97.71447336	96.91337622
ADV1014366	4/3/2025	3.84	4/5/2027	103.7026	102.7472353	101.8094913	100.8888879	99.9849578	99.0972507	98.22533222	97.36878343	96.52720013
ADV1014647	4/16/2025	3.9	4/17/2028	107.66276	105.64659	103.6788562	101.7580953	99.88289604	98.05189919	96.26379541	94.517323	92.8112658
ADV1014154	3/27/2025	4.111	3/29/2027	103.87571	102.9389438	102.019104	101.1157312	100.2283858	99.35664348	98.50009509	97.65834553	96.83101331
ADV1014924	4/25/2025	3.886	7/26/2028	108.67737	106.3735535	104.1305989	101.9464428	99.81910857	97.74670354	95.72741453	93.75950376	91.84130498
ADV1013627	3/14/2025	4.038	9/14/2029	113.47839	109.9473894	106.5470456	103.2718358	100.116496	97.07601175	94.14560517	91.32072206	88.59702049
ADV1014853	4/24/2025	3.914	10/15/2027	105.76032	104.2737108	102.8156627	101.38542	99.98225582	98.60546823	97.2543791	95.92833306	94.62669655
ADV1014773	4/22/2025	4.146	4/12/2030	115.91267	111.7494467	107.7622737	103.9427565	100.2829464	96.77531373	93.412724	90.18841465	87.09597385
ADV1014045	3/21/2025	4.051	11/14/2028	110.25831	107.6276654	105.0743572	102.5956494	100.1889167	97.85164349	95.58141828	93.37592898	91.23295791
ADV1014350	5/19/2025	3.87	5/21/2029	111.73255	108.5531323	105.482426	102.5160893	99.64997713	96.88013476	94.20278742	91.61433116	89.11132395
ADV1014357	5/19/2025	3.916	5/17/2030	115.55541	111.2951999	107.219171	103.3183487	99.5842416	96.00881712	92.58447394	89.30401641	86.16063058
ADV1014348	5/2/2025	3.91	5/2/2030	115.38466	111.1694666	107.1351308	103.2729053	99.57451305	96.03212032	92.63831036	89.38605881	86.26871084
ADV1014355	5/2/2025	3.88	5/2/2029	111.57494	108.4502278	105.4310824	102.5133356	99.69301366	96.9663218	94.3296355	91.77949162	89.31258025
ADV1014352	5/19/2025	3.823	5/19/2028	107.8359	105.7295812	103.6755591	101.672187	99.71788352	97.81112839	95.95045963	94.13447089	92.36180885
ADV1014571	6/2/2025	3.994	6/1/2028	108.33292	106.1857382	104.0924234	102.0512558	100.0605848	98.11882459	96.22445127	94.37599997	92.57206197
ADV1014345	5/2/2025	3.831	5/2/2028	107.6819	105.6236204	103.615738	101.6566952	99.74499567	97.87919944	96.05792049	94.27982431	92.54362557
ADV1013790	6/5/2025	4.53	6/5/2036	138.88962	127.6310727	117.4336447	108.1900652	99.80449131	92.19123271	85.27362628	78.98304056	73.25799468
ADV1014359	5/19/2025	3.916	5/17/2030	115.55541	111.2951999	107.219171	103.3183487	99.5842416	96.00881712	92.58447394	89.30401641	86.16063058
ADV1014573	6/2/2025	3.994	6/1/2028	108.33292	106.1857382	104.0924234	102.0512558	100.0605848	98.11882459	96.22445127	94.37599997	92.57206197
ADV1013783	5/1/2025	3.979	5/1/2028	107.9733	105.9147302	103.906511	101.947086	100.0349622	98.16870265	96.3469241	94.56829471	92.83153162
ADV1014244	6/20/2025	4.285	6/20/2031	121.25002	115.7315535	110.5046959	105.5523915	100.858679	96.40861225	92.18819054	88.18429312	84.3846192
ADV1014356	5/19/2025	3.874	5/21/2029	111.74496	108.5653452	105.4944513	102.5279319	99.66164163	96.8916256	94.21410891	91.62548747	89.12231912
ADV1014347	5/2/2025	3.876	5/2/2029	111.56274	108.4382169	105.4192528	102.5016828	99.68153324	96.95500951	94.31848721	91.76850334	89.30174813
ADV1013780	5/1/2025	4.084	5/1/2030	116.08106	111.8546634	107.8093473	103.9363656	100.2274387	96.67472958	93.27081845	90.00867756	86.88164857
ADV1014567	6/2/2025	4.172	5/31/2030	116.75602	112.4325526	108.2970808	104.3403825	100.5537373	96.92889913	93.45806843	90.13386482	86.94930234
ADV1014353	5/2/2025	3.914	5/2/2030	115.4009	111.1853773	107.1507255	103.2881938	99.58950475	96.04682438	92.6527355	89.40021346	86.28260308
ADV1014568	6/2/2025	4.172	5/31/2030	116.75602	112.4325526	108.2970808	104.3403825	100.5537373	96.92889913	93.45806843	90.13386482	86.94930234
ADV1013781	5/1/2025	3.979	5/1/2028	107.9733	105.9147302	103.906511	101.947086	100.0349622	98.16870265	96.3469241	94.56829471	92.83153162
ADV1014349	5/2/2025	3.834	5/3/2027	103.99329	102.9584642	101.9442636	100.9500718	99.97530055	99.01938432	98.08177943	97.1619629	96.25943153

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1014569	6/2/2025	3.994	6/1/2028	108.33292	106.1857382	104.0924234	102.0512558	100.0605848	98.11882459	96.22445127	94.37599997	92.57206197
ADV1014572	6/2/2025	3.994	6/1/2028	108.33292	106.1857382	104.0924234	102.0512558	100.0605848	98.11882459	96.22445127	94.37599997	92.57206197
ADV1013784	5/1/2025	3.985	5/1/2028	107.9855	105.9268115	103.9184681	101.9589214	100.0466782	98.18030154	96.35840812	94.57966602	92.84279234
ADV1016245	7/1/2025	4.108	7/1/2030	116.82165	112.4081253	108.1898127	104.1569662	100.3003824	96.61136863	93.08171171	89.70364825	86.4698374
ADV1015450	5/13/2025	4.148	1/15/2027	103.07464	102.3448103	101.6253392	100.9160069	100.2165998	99.52691019	98.84673628	98.17588169	97.51415548
ADV1016190	6/4/2025	4.48	6/6/2033	128.94385	121.1666485	113.9317175	107.1980362	100.927902	95.08664651	89.64237575	84.56573415	79.82968976
ADV1016844	6/27/2025	3.926	12/28/2026	102.71876	102.0404005	101.3710085	100.7104049	100.0584173	99.41487797	98.77962325	98.15249384	97.53333446
ADV1016660	6/23/2025	3.991	12/23/2026	102.70821	102.0438024	101.3880067	100.7406535	100.1015803	99.47062889	98.84764479	98.23247759	97.62498062
ADV1015141	5/1/2025	3.883	11/2/2026	102.0958	101.5753148	101.0601354	100.5501817	100.0453744	99.545636	99.05089026	98.56106266	98.0760801
ADV1016020	5/29/2025	4.043	6/29/2027	104.83623	103.6377669	102.4667667	101.3222901	100.2034423	99.10936881	98.0392525	96.99231191	95.96779925
ADV1017491	7/22/2025	4.223	6/22/2026	100.69445	100.5417955	100.3896024	100.2378668	100.0865865	99.93575954	99.78538379	99.63545724	99.48597783
ADV1016243	7/1/2025	3.987	6/30/2028	108.63563	106.4033087	104.2284973	102.1092994	100.0438977	98.03054954	96.06758287	94.15339298	92.28643902
ADV1016006	5/29/2025	4.023	8/30/2027	105.45598	104.0984142	102.7652067	101.4557519	100.1694628	98.90577147	97.66412824	96.44400091	95.24487412
ADV1015607	5/16/2025	4.227	5/18/2026	100.22231	100.1722339	100.1222207	100.0722747	100.0223955	99.97258319	99.92283751	99.87315835	99.82354557
ADV1017243	7/11/2025	4.189	7/13/2026	100.90093	100.6946402	100.4892078	100.284628	100.0808954	99.87800469	99.67595053	99.4747277	99.274331
ADV1016861	6/27/2025	3.858	12/28/2026	102.71323	102.0343732	101.3644954	100.7034196	100.0509729	99.40698716	98.77129837	98.14374683	97.52417689
ADV1016523	6/27/2025	3.998	6/27/2028	108.623	106.3992258	104.2325871	102.1212028	100.0632734	98.05707256	96.10094376	94.19329694	92.33260507
ADV1015592	5/16/2025	4.047	5/16/2028	108.27055	106.167824	104.1171549	102.1169078	100.1655137	98.26146427	96.40330846	94.58965036	92.81914647
ADV1017699	7/30/2025	4.239	7/30/2026	101.11687	100.8630011	100.6104094	100.3590814	100.1090076	99.86017865	99.61258536	99.36621852	99.12106906
ADV1016363	6/11/2025	4.03	12/13/2027	106.55708	104.9009805	103.2790044	101.6901594	100.1334957	98.60809958	97.11309186	95.64762616	94.21088735
ADV1017647	7/29/2025	4.059	1/26/2027	103.13	102.3693563	101.6199458	100.8815235	100.1538488	99.4366881	98.72981441	98.03300731	97.34605266
ADV1016859	6/27/2025	3.825	12/27/2027	106.35776	104.6653055	103.0082436	101.3855331	99.79616994	98.23918944	96.71366405	95.21870165	93.7534438
ADV1016695	6/24/2025	3.904	6/26/2028	108.40641	106.1878735	104.0262916	101.9197975	99.8665985	97.86497521	95.91327758	94.00992157	92.15338595
ADV1016187	6/4/2025	4.008	6/4/2029	112.30961	109.0823451	105.9663777	102.9572145	100.0505731	97.24236977	94.52870916	91.90587402	89.37031597
ADV1016370	6/13/2025	4.12	6/13/2030	116.67841	112.3192355	108.1509979	104.1642619	100.350109	96.70011034	93.20629656	89.86113038	86.65748038
ADV1016016	5/29/2025	4.043	5/28/2027	104.48214	103.3749451	102.2912602	101.2303456	100.1914882	99.17400464	98.1772396	97.20056421	96.24337487
ADV1015680	5/20/2025	4.141	11/24/2026	102.4791	101.896172	101.3198809	100.7501178	100.186772	99.62973533	99.07890215	98.5341691	97.9954351
ADV1016303	6/10/2025	4.187	6/10/2030	116.92581	112.5701384	108.4048748	104.4206275	100.6085178	96.96015376	93.46760015	90.12335095	86.92030364
ADV1015859	5/27/2025	4.005	5/27/2027	104.49593	103.3904428	102.3083955	101.2490443	100.2116799	99.19562211	98.20021878	97.22484405	96.26889714
ADV1016205	6/4/2025	4.058	12/4/2026	102.54537	101.9343918	101.3307011	100.7341679	100.1446655	99.56206983	98.98625997	98.41711773	97.85452765
ADV1016073	5/30/2025	4.033	11/16/2026	102.35898	101.798342	101.24386	100.6954336	100.1529638	99.61635356	99.08550814	98.56033477	98.04074265
ADV1016112	6/2/2025	3.955	6/2/2027	104.51115	103.3888662	102.290727	101.2159588	100.1638208	99.133603	98.12462494	97.13623407	96.16780435
ADV1016864	6/27/2025	4.101	6/29/2026	100.71392	100.5467957	100.3802223	100.2142002	100.0487269	99.88379958	99.71941559	99.55557227	99.39226697

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017615	7/28/2025	3.961	7/28/2028	108.8685	106.5570212	104.3067117	102.1154934	99.98137589	97.90245338	95.8769004	93.90296758	91.97897773
ADV1016242	7/1/2025	3.987	6/30/2028	108.63563	106.4033087	104.2284973	102.1092994	100.0438977	98.03054954	96.06758287	94.15339298	92.28643902
ADV1016693	6/24/2025	3.834	6/26/2028	108.38809	106.1671167	104.0032092	101.8944962	99.83918013	97.83553701	95.88191249	93.97671845	92.11842977
ADV1016886	6/30/2025	4.027	6/30/2026	100.72303	100.5530138	100.3835664	100.2146882	100.0463764	99.87862809	99.71144052	99.54481087	99.37873639
ADV1017326	7/15/2025	4.155	7/15/2026	100.92989	100.7178497	100.506719	100.2964891	100.0871543	99.87870871	99.67114659	99.46446226	99.25865007
ADV1017337	7/15/2025	4.237	7/14/2026	100.96798	100.7512893	100.5355144	100.320648	100.1066845	99.8936179	99.68144264	99.47015302	99.25974342
ADV1015205	5/5/2025	4.159	5/5/2026	100.06418	100.0502689	100.036371	100.0224868	100.0086162	99.99475917	99.98091572	99.96708581	99.95326943
ADV1015990	5/29/2025	4.007	5/1/2028	108.14936	106.0563976	104.0156403	102.0254296	100.0841687	98.19032398	96.34242147	94.53904416	92.77882937
ADV1015333	5/8/2025	4.077	11/9/2026	102.27436	101.7338283	101.1990257	100.6698568	100.1462327	99.62806657	99.11527306	98.60776878	98.10547204
ADV1017529	7/23/2025	3.967	1/25/2027	103.09519	102.3368573	101.5896943	100.8534575	100.1279083	99.41281484	98.70795204	98.01310122	97.32804989
ADV1015773	5/22/2025	4.095	9/22/2028	109.79025	107.3125752	104.9041397	102.5626192	100.2857816	98.07148251	95.91766148	93.82233794	91.78360771
ADV1015722	5/21/2025	4.092	5/21/2027	104.45792	103.3703447	102.3054719	101.2625965	100.2410413	99.24015637	98.25931795	97.29792731	96.35540932
ADV1015921	5/28/2025	4.051	1/26/2028	107.05932	105.2790534	103.5373389	101.8329867	100.1648591	98.53186549	96.93295909	95.36713518	93.83342876
ADV1017118	7/8/2025	3.939	7/8/2027	104.88419	103.6592862	102.4630604	101.2945092	100.1526793	99.03666043	97.94558362	96.87861838	95.83497078
ADV1015448	5/13/2025	4.146	1/22/2027	103.15266	102.4030452	101.6643513	100.9363361	100.2187691	99.51142615	98.81408946	98.12654748	97.44859458
ADV1017642	7/29/2025	4.132	7/29/2026	101.09267	100.8414549	100.5914945	100.342775	100.0952872	99.84902192	99.60397015	99.36012293	99.11747138
ADV1016566	6/18/2025	4.019	6/18/2027	104.68867	103.5217397	102.3808887	101.2652491	100.1739907	99.10631957	98.06147588	97.03873211	96.03739143
ADV1016760	6/25/2025	3.877	9/25/2029	113.25577	109.6918802	106.26113	102.9578342	99.77658179	96.71222076	93.75984417	90.91477719	88.17256484
ADV1017028	7/2/2025	3.976	1/4/2027	102.83192	102.1336686	101.4449046	100.7654397	100.0950864	99.43366205	98.78098895	98.13689409	97.501209
ADV1016436	6/13/2025	4.056	12/14/2026	102.69136	102.0515528	101.4197355	100.7957601	100.1794808	99.57075562	98.96944596	98.37541658	97.78853555
ADV1015923	5/28/2025	4.048	3/29/2028	107.7491	105.7852728	103.8674216	101.9941938	100.164283	98.37642992	96.6294201	94.92208216	93.25328585
ADV1015622	5/19/2025	4.184	5/19/2026	100.23526	100.1823693	100.1295478	100.076799	100.0241226	99.97151863	99.91898681	99.86652701	99.81413908
ADV1015257	7/1/2025	4.033	7/1/2030	116.50476	112.0978574	107.8859501	103.8593027	100.0087201	96.32551763	92.80148964	89.42887996	86.20035465
ADV1016690	6/24/2025	4.017	6/24/2030	116.36094	111.9768596	107.7860537	103.778909	99.9463441	96.27977956	92.77110718	89.4126611	86.19719103
ADV1016250	6/5/2025	4.672	6/15/2035	137.25021	127.0597792	117.748833	109.235691	101.4467008	94.31540679	87.78181124	81.79171429	76.29612506
ADV1015716	5/21/2025	4.107	11/23/2026	102.4823	101.9017069	101.3277032	100.7601778	100.1990212	99.64412645	99.09538894	98.55270646	98.01597901
ADV1016856	6/27/2025	3.926	12/28/2026	102.71876	102.0404005	101.3710085	100.7104049	100.0584173	99.41487797	98.77962325	98.15249384	97.53333446
ADV1015259	5/6/2025	4.011	5/1/2030	115.78417	111.5637198	107.5241619	103.6567576	99.95323445	96.40576247	93.00692822	89.74971021	86.62745605
ADV1016173	6/4/2025	3.966	6/4/2027	104.54537	103.417299	102.3136209	101.2335482	100.1763286	99.14124175	98.12759712	97.13473272	96.16201357
ADV1017203	7/10/2025	3.994	5/10/2027	104.23313	103.1774729	102.1432493	101.1298068	100.1365229	99.1627995	98.20806221	97.27175885	96.3533585
ADV1015602	5/16/2025	4.132	12/16/2026	102.72342	102.0784149	101.4415306	100.8126121	100.1915102	99.57807942	98.9721781	98.37366789	97.78241385
ADV1016023	5/29/2025	4.018	10/29/2027	106.05341	104.5265636	103.0297568	101.5621789	100.1230482	98.71161053	97.32713768	95.96892659	94.63629812
ADV1016602	6/20/2025	3.899	6/20/2028	108.46614	106.2612446	104.1126881	102.0186317	99.97731215	97.98703745	96.04618354	94.15319082	92.30656114

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016688	6/24/2025	3.925	10/24/2028	109.70905	107.1442452	104.6535629	102.2344314	99.88438133	97.60104405	95.38214691	93.22550867	91.12903523
ADV1015501	5/14/2025	4.215	11/16/2026	102.42936	101.8688528	101.3144973	100.7661901	100.2238326	99.68732802	99.15658173	98.63150118	98.11199578
ADV1015920	5/28/2025	4.122	2/24/2027	103.50738	102.6643344	101.8350418	101.0191683	100.2163897	99.42639239	98.64887252	97.8835359	97.13009751
ADV1016797	6/26/2025	3.929	12/28/2026	102.72093	102.0425613	101.3731622	100.7125516	100.0605571	99.41701069	98.78174899	98.15461261	97.53544626
ADV1017235	7/11/2025	3.927	7/12/2027	104.91161	103.6754015	102.4683976	101.2895672	100.1379311	99.01255474	97.9125463	96.8370538	95.78526314
ADV1017662	7/30/2025	3.999	7/29/2030	116.63452	112.1473859	107.8618627	103.7677154	99.85529568	96.11550022	92.53973669	89.11989156	85.84830041
ADV1015739	5/21/2025	4.182	11/23/2026	102.49106	101.9108712	101.3372573	100.7701116	100.2093248	99.65479023	99.1064037	98.56406315	98.02766885
ADV1015209	5/5/2025	4.156	5/5/2026	100.06414	100.0502244	100.0363266	100.0224424	100.0085718	99.99471482	99.9808714	99.96704153	99.95322518
ADV1017275	7/14/2025	4.065	1/15/2027	103.01445	102.2848581	101.5656214	100.8565213	100.1573441	99.46788232	98.78793401	98.1173029	97.45579807
ADV1016890	6/30/2025	3.814	1/12/2028	106.49959	104.7624665	103.0623502	101.3981273	99.76872527	98.17311452	96.61030629	95.07935056	93.57933409
ADV1016651	6/23/2025	3.956	6/25/2029	112.36475	109.0769037	105.9041008	102.8416245	99.8849826	97.0298953	94.27228361	91.60825851	89.03411078
ADV1016051	5/30/2025	4.151	10/30/2026	102.19535	101.6829074	101.1756044	100.6733627	100.1761068	99.68376287	99.1962583	98.713522	98.23548429
ADV1015461	5/15/2025	4.208	5/15/2030	116.73186	112.4533359	108.3593184	104.4408327	100.6893869	97.09694701	93.65590985	90.3590773	87.1996325
ADV1015283	5/7/2025	3.886	5/8/2028	107.85543	105.7789557	103.7535655	101.7776734	99.84975248	97.96833413	96.13200511	94.33940512	92.58922445
ADV1015800	5/23/2025	3.993	5/24/2027	104.44946	103.3526227	102.2788684	101.2274746	100.1977473	99.18902101	98.20065716	97.23204297	96.28259
ADV1016515	6/17/2025	4.38	6/13/2031	121.39084	115.8980155	110.6941961	105.7625522	101.0873234	96.65374747	92.44799236	88.4570918	84.66888668
ADV1016003	5/29/2025	4.704	7/13/2035	137.79062	127.4973664	118.0984238	109.5101736	101.6572677	94.47177179	87.8923981	81.86382176	76.33607061
ADV1016240	7/1/2025	3.987	6/30/2028	108.63563	106.4033087	104.2284973	102.1092994	100.0438977	98.03054954	96.06758287	94.15339298	92.28643902
ADV1015254	5/6/2025	3.881	5/1/2028	107.77316	105.7166661	103.7104749	101.7530378	99.84286275	97.97851388	96.1586091	94.38181757	92.64685744
ADV1016938	6/30/2025	3.748	12/29/2028	110.09557	107.3386014	104.6656066	102.0734908	99.55929299	97.12018217	94.7534504	92.45650659	90.22687051
ADV1015561	5/15/2025	4.166	4/15/2030	116.23914	112.0550427	108.0483091	104.2104608	100.5334703	97.00973452	93.63205044	90.39359154	87.28788628
ADV1015633	5/19/2025	4.236	5/19/2026	100.23488	100.1820133	100.1292232	100.0765053	100.0238596	99.97128577	99.91878378	99.86635344	99.8139946
ADV1017153	7/9/2025	4.236	5/12/2026	100.19485	100.1603746	100.125943	100.0915519	100.0572012	100.0228908	99.98862056	99.95439049	99.9202005
ADV1015267	5/6/2025	4.295	5/1/2035	119.19409	113.9966503	109.1235106	104.5508382	100.2567551	96.22116162	92.42557945	88.85300882	85.48779975
ADV1016015	5/29/2025	4.251	5/29/2026	100.35716	100.2764803	100.1959344	100.115521	100.0352398	99.95509047	99.87507274	99.79518626	99.71543073
ADV1017200	7/10/2025	4.177	7/10/2026	100.86218	100.6642718	100.4671579	100.2708285	100.075279	99.88050469	99.68650084	99.49326283	99.30078607
ADV1015595	5/16/2025	4.191	8/17/2026	101.32526	101.0209268	100.718438	100.4177743	100.1189189	99.82185558	99.52656806	99.23304036	98.94125667
ADV1017580	7/25/2025	4.208	7/27/2026	101.07297	100.8275056	100.5832407	100.3401638	100.0982661	99.85753908	99.61797429	99.37956328	99.14229772
ADV1017693	7/30/2025	3.977	7/30/2027	105.08592	103.7997108	102.5450591	101.32081	100.1258671	98.95918625	97.81977239	96.70667671	95.61899395
ADV1016768	6/25/2025	3.988	12/28/2026	102.76062	102.0821051	101.4125578	100.7518004	100.0996604	99.45596997	98.8205655	98.19328764	97.57398111
ADV1015883	5/28/2025	4.118	2/19/2030	115.45759	111.444841	107.5963412	103.9044731	100.3620121	96.96210656	93.69825712	90.56429608	87.55436873
ADV1016873	6/27/2025	3.824	12/27/2029	114.01235	110.1751026	106.4900385	102.950246	99.54916584	96.28057535	93.13856875	90.11753899	87.21216073
ADV1015871	5/27/2025	4.07	5/27/2027	104.50072	103.3961917	102.3150596	101.2565889	100.2200719	99.20482984	98.21021191	97.23559354	96.28037517

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016054	5/30/2025	3.973	5/28/2027	104.47186	103.3637431	102.2791715	101.2174044	100.1777274	99.1594557	98.1619325	97.1845277	96.2266365
ADV1016219	6/5/2025	3.94	3/5/2027	103.50933	102.6404886	101.7862582	100.9462678	100.120163	99.30760131	98.50825123	97.7217921	96.94791356
ADV1016644	6/23/2025	4.815	6/23/2039	150.5965	135.5928272	122.3527582	110.6544936	100.3054346	91.13819394	83.0071671	75.78558648	69.36298748
ADV1017336	7/15/2025	4.038	7/15/2027	105.00445	103.7604385	102.5459854	101.3600447	100.2016194	99.06975859	97.9635547	96.88214119	95.82469014
ADV1016004	5/29/2025	4.695	5/15/2035	137.17317	127.073293	117.838175	109.3881219	101.6512095	94.56248777	88.06327086	82.10050172	76.62618478
ADV1015932	5/28/2025	4.284	5/28/2026	100.34758	100.2696805	100.1919071	100.1142594	100.0367373	99.95934039	99.8820684	99.80492103	99.727898
ADV1016252	6/5/2025	4.103	12/7/2026	102.60612	101.9865904	101.3745566	100.7698806	100.1724302	99.58207622	98.99869253	98.42215603	97.85234648
ADV1015604	5/16/2025	4.108	2/16/2027	103.40647	102.5861321	101.778839	100.9842773	100.2021472	99.43215806	98.67402846	97.9274855	97.19226463
ADV1015596	5/16/2025	4.16	5/16/2030	116.54543	112.2678986	108.1749753	104.2576695	100.5074796	96.91636294	93.47670837	90.18131046	87.02334567
ADV1016185	6/4/2025	4.008	6/4/2029	112.30961	109.0823451	105.9663777	102.9572145	100.0505731	97.24236977	94.52870916	91.90587402	89.37031597
ADV1016732	6/24/2025	3.886	10/24/2028	109.6107	107.0471464	104.557688	102.1397534	99.79087396	97.50868189	95.29090529	93.13536363	91.03996353
ADV1016663	6/23/2025	3.993	12/23/2026	102.70953	102.0451153	101.3893147	100.7419567	100.1028789	99.4719227	98.84893395	98.23376214	97.62626059
ADV1016192	6/4/2025	4.65	6/4/2035	136.94981	126.804006	117.5315996	109.0516891	101.2913022	94.18457798	87.67203846	81.69993845	76.21968468
ADV1016980	7/1/2025	4.042	7/1/2026	100.74176	100.5689432	100.3967149	100.2250769	100.0540262	99.88355962	99.7136743	99.54436725	99.37563552
ADV1017187	7/10/2025	4.22	6/10/2026	100.54898	100.430874	100.3130532	100.1955135	100.0782541	99.96127369	99.84457142	99.7281462	99.61199701
ADV1015266	5/6/2025	3.883	5/1/2028	107.77723	105.7206928	103.7144602	101.7569826	99.8467677	97.98237979	96.16243672	94.38560763	92.65061062
ADV1016340	6/10/2025	4.186	6/10/2030	116.92165	112.5660575	108.4008771	104.4167102	100.6046785	96.95639002	93.46390958	90.11973131	86.91675275
ADV1017652	7/29/2025	4.06	1/29/2027	103.16409	102.3949396	101.6372669	100.8908184	100.1553458	99.43060821	98.71637166	98.01240896	97.31849946
ADV1016791	6/26/2025	3.847	6/28/2027	104.59461	103.4004515	102.2336002	101.09313	99.97815291	98.88782028	97.82132091	96.77787881	95.75675141
ADV1015497	5/14/2025	4.171	5/14/2030	115.24571	111.3728643	107.6636642	104.1101637	100.7048501	97.44061882	94.31074888	91.3088795	88.42898876
ADV1017408	7/17/2025	4.068	1/19/2027	103.06054	102.3196297	101.5893931	100.8696013	100.1600307	99.46046451	98.77069177	98.09050753	97.41971252
ADV1015786	5/22/2025	4.18	5/22/2026	100.27141	100.2101662	100.1490111	100.0879452	100.0269683	99.96608019	99.90528064	99.84456948	99.78394651
ADV1016218	6/5/2025	3.866	12/6/2027	106.31622	104.6795257	103.0763356	101.5056846	99.96664832	98.45833748	96.97989579	95.53049861	94.10935141
ADV1017384	7/16/2025	3.971	1/19/2027	103.03322	102.2918348	101.5611445	100.8409138	100.1309189	99.43094239	98.74077292	98.06020507	97.38903911
ADV1016078	5/30/2025	4.146	8/31/2026	101.4783	101.1347344	100.793492	100.4545481	100.1178795	99.78346348	99.45127743	99.12129917	98.7935068
ADV1015874	5/27/2025	4.125	5/28/2030	116.52644	112.2159191	108.0926007	104.1473079	100.3713686	96.75658249	93.29519187	89.97985557	86.80362412
ADV1016862	6/27/2025	4.031	6/29/2026	100.71216	100.5449306	100.3782569	100.2121362	100.0465656	99.88154243	99.71706405	99.55312774	99.38973083
ADV1016845	6/27/2025	3.853	6/28/2027	104.60154	103.4073319	102.2404366	101.0999232	99.98490361	98.89452925	97.82798887	96.78450648	95.76333946
ADV1015606	5/16/2025	4.099	3/16/2027	103.71765	102.8178795	101.9337569	101.0648753	100.2108425	99.37127953	98.54582038	97.7341112	96.93580994
ADV1016222	6/5/2025	4.055	6/5/2030	116.32414	111.9951917	107.8551096	103.8945946	100.1048603	96.4776004	93.00495942	89.67950562	86.49420565
ADV1015581	5/16/2025	4.138	5/18/2026	100.22081	100.1707023	100.1206611	100.0706873	100.0207808	99.97094144	99.92116911	99.87146363	99.82182489
ADV1016659	6/23/2025	4.132	6/23/2026	100.64743	100.4970469	100.3471269	100.197664	100.048656	99.90010098	99.75199677	99.60434132	99.45713256
ADV1015258	7/1/2025	4.033	7/1/2030	116.50476	112.0978574	107.8859501	103.8593027	100.0087201	96.32551763	92.80148964	89.42887996	86.20035465

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1015992	5/29/2025	4.109	5/1/2030	115.67118	111.5748592	107.6540457	103.9001922	100.3052135	96.86146288	93.56170576	90.39909477	87.36714693
ADV1016522	6/27/2025	4.104	6/27/2030	116.75856	112.3576098	108.1509	104.1287563	100.2820399	96.60211805	93.08083273	89.71047187	86.48374208
ADV1016118	6/3/2025	4.124	4/25/2030	116.17905	111.9677152	107.9361083	104.0755759	100.3779311	96.8354231	93.44071177	90.18684336	87.0672282
ADV1017754	7/31/2025	4.035	7/24/2030	116.73931	112.2637909	107.9887825	103.9041357	100.0002806	96.26818632	92.6993272	89.28565124	86.01955079
ADV1016019	5/29/2025	4.167	8/31/2026	101.48548	101.1418977	100.8006401	100.4616812	100.1249976	99.79056661	99.45836571	99.12837268	98.8005656
ADV1017721	7/31/2025	4.241	7/31/2026	101.12964	100.8729804	100.6176165	100.3635417	100.1107464	99.859221	99.60895592	99.35994177	99.11216921
ADV1017089	7/7/2025	4.2	7/7/2026	100.8309	100.6413754	100.4525764	100.2644955	100.0771285	99.89047114	99.7045195	99.51926947	99.33471705
ADV1015462	5/15/2025	4.1	10/25/2027	106.13949	104.6228262	103.1357977	101.6776104	100.2474981	98.84472091	97.46856475	96.11833973	94.79337938
ADV1015263	7/1/2025	4.035	7/1/2030	116.51321	112.1061312	107.8940531	103.8672404	100.0164978	96.33314032	92.80896222	89.43620712	86.20754086
ADV1015383	5/9/2025	4.029	5/9/2030	116.1989	111.9406349	107.8657412	103.9653114	100.2309215	96.65460079	93.22880481	89.94639012	86.80059074
ADV1017035	7/2/2025	3.94	4/2/2027	103.76456	102.8172313	101.8872172	100.97405	100.0772746	99.19645216	98.3311595	97.48098815	96.64554394
ADV1016100	6/2/2025	4.108	12/2/2026	102.55329	101.9478572	101.349575	100.7583186	100.1739648	99.59639309	99.02548583	98.46112808	97.90320755
ADV1017486	7/22/2025	4.155	7/22/2026	101.00047	100.76901	100.5386222	100.3092992	100.0810335	99.85381781	99.62764483	99.40250733	99.17839815
ADV1015785	5/22/2025	4.032	3/29/2027	103.85928	102.9218192	102.0013047	101.0972811	100.2093078	99.33695966	98.47982663	97.63751279	96.8096359
ADV1016774	6/25/2025	4.048	6/25/2026	100.66753	100.511464	100.3558923	100.20081	100.0462147	99.89210407	99.73847589	99.58532784	99.43265767
ADV1016796	6/26/2025	4.091	6/26/2026	100.67684	100.5180811	100.3598265	100.2020756	100.0448259	99.88807497	99.73182055	99.57606024	99.4207917
ADV1017460	7/21/2025	3.89	7/21/2028	108.63565	106.3459551	104.1164587	101.9451338	99.83003531	97.7693	95.76114249	93.80385121	91.89578457
ADV1015917	5/28/2025	4.088	5/28/2027	104.53146	103.4239613	102.3399847	101.2787826	100.2396421	99.22187972	98.22483988	97.24789367	96.2904374
ADV1015774	5/22/2025	4.149	5/22/2029	112.60814	109.4123602	106.3258135	103.3441287	100.4631403	97.67887437	94.9875377	92.38550896	89.86932957
ADV1016518	6/27/2025	4.037	6/28/2027	104.81841	103.622841	102.4546088	101.3127796	100.1964648	99.10481519	98.0370191	96.99230001	95.96991482
ADV1017497	7/22/2025	3.955	7/22/2027	104.91212	103.6502473	102.4188065	101.2167043	100.0429001	98.89640172	97.77626321	96.68158174	95.61149537
ADV1015137	5/1/2025	4.039	5/1/2026	100.01617	100.0133863	100.0106066	100.0078293	100.0050545	100.002282	99.99951197	99.99674433	99.99397909
ADV1015243	5/6/2025	4.04	8/26/2026	101.38692	101.0574675	100.730165	100.4049879	100.0819153	99.76092697	99.44200264	99.12512244	98.81026672
ADV1017766	7/31/2025	4.144	11/19/2026	102.42196	101.853176	101.2907234	100.7344965	100.1843923	99.64030983	99.10215034	98.56981731	98.04321631
ADV1016639	6/23/2025	4.586	6/23/2036	140.30056	128.8861082	118.5520322	109.188635	100.6979572	92.99246327	85.99387995	79.63217039	73.84462643
ADV1017325	7/15/2025	4.125	7/15/2030	117.03499	112.5781342	108.3198869	104.2502538	100.3598023	96.63962784	93.0813213	89.67693813	86.41896982
ADV1016241	7/1/2025	3.987	6/30/2028	108.63563	106.4033087	104.2284973	102.1092994	100.0438977	98.03054954	96.06758287	94.15339298	92.28643902
ADV1017614	7/28/2025	4.068	1/28/2027	103.15921	102.3928529	101.6378996	100.8940921	100.1611848	99.43893907	98.72712336	98.02551274	97.33388869
ADV1016926	7/2/2025	3.908	7/2/2030	115.98584	111.5870024	107.3830432	103.3642193	99.52133344	95.8456994	92.32911044	88.96380981	85.74246328
ADV1017210	7/10/2025	4.104	7/10/2026	100.85944	100.6614161	100.4641834	100.2677372	100.0720727	99.87718524	99.68307003	99.48972244	99.29713783
ADV1017071	7/7/2025	3.976	1/8/2029	110.65237	107.8641042	105.1613265	102.5408607	99.99966971	97.53485095	95.14362942	92.82335096	90.57147602
ADV1015634	5/19/2025	4.191	5/20/2030	116.71496	112.4228522	108.3163279	104.3863308	100.6242988	97.02213238	93.57216795	90.2671512	87.10021317
ADV1015598	5/16/2025	4.174	9/16/2026	101.68272	101.29414	100.9085424	100.5258928	100.1461572	99.76930229	99.39529527	99.0241038	98.65569604

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017091	7/7/2025	3.955	7/7/2028	108.63772	106.386229	104.1931421	102.0565158	99.97449074	97.94528434	95.96718724	94.03855943	92.15782682
ADV1017239	7/11/2025	3.966	7/11/2028	108.70362	106.4404496	104.236212	102.0889364	99.99673876	97.95781324	95.97042851	94.03292384	92.14370564
ADV1016565	6/18/2025	4.051	6/18/2030	116.4421	112.0734861	107.8968132	103.9025635	100.0817471	96.42586899	92.92689918	89.57724404	86.36972019
ADV1017201	7/10/2025	4.091	10/13/2026	101.96919	101.5047231	101.0444975	100.5884582	100.1365483	99.68871155	99.24489296	98.80503843	98.36909483
ADV1017244	7/11/2025	3.997	1/11/2029	110.74068	107.9429549	105.2312131	102.6022483	100.0529982	97.58053661	95.18206628	92.85491217	90.59651512
ADV1015262	5/6/2025	4.311	4/30/2032	124.27885	117.7868409	111.6871897	105.953972	100.5631082	95.49222527	90.72052772	86.22867795	81.99868698
ADV1015586	5/16/2025	4.221	5/18/2026	100.22201	100.1719314	100.1219185	100.0719726	100.0220937	99.97228165	99.92253622	99.8728573	99.82324477
ADV1016691	6/24/2025	3.834	6/26/2028	108.38809	106.1671167	104.0032092	101.8944962	99.83918013	97.83553701	95.88191249	93.97671845	92.11842978
ADV1015922	5/28/2025	4.049	2/23/2028	107.3723	105.5085887	103.6866198	101.90519	100.1631372	98.45934142	96.79272245	95.16223826	93.56688335
ADV1016769	6/25/2025	3.838	6/25/2027	104.62355	103.4364682	102.2763729	101.1423471	100.0335184	98.9490529	97.88815335	96.85005681	95.83403303
ADV1017658	7/29/2025	4.184	7/29/2026	101.09084	100.8397985	100.5900006	100.341441	100.0941105	99.84799984	99.60310019	99.35940258	99.1168982
ADV1017426	7/18/2025	4.118	7/20/2026	100.98205	100.7560339	100.5310469	100.3070788	100.0841226	99.86217123	99.64121794	99.4212559	99.20227839
ADV1016248	6/5/2025	4.4	8/13/2032	125.75032	118.9189679	112.5165188	106.5135822	100.8829396	95.59937034	90.63949493	85.98163089	81.60566088
ADV1016882	6/30/2025	3.862	12/31/2026	102.74771	102.0603781	101.3822441	100.7131223	100.0528339	99.40120473	98.75806532	98.12325048	97.49659932
ADV1016892	6/30/2025	3.845	1/10/2029	110.31129	107.5222402	104.8188785	102.1980122	99.65659174	97.19170255	94.80055857	92.48049533	90.22896367
ADV1015246	5/6/2025	4.119	5/6/2026	100.07536	100.0586705	100.0419943	100.0253348	100.0086922	99.9920663	99.97545715	99.95886472	99.94228897
ADV1017142	7/9/2025	4.183	7/9/2026	100.85125	100.6561471	100.4618086	100.2682323	100.0754137	99.88334825	99.69203151	99.50145902	99.3116264
ADV1016238	7/1/2025	3.987	6/30/2028	108.63563	106.4033087	104.2284973	102.1092994	100.0438977	98.03054954	96.06758287	94.15339298	92.28643902
ADV1016703	6/24/2025	4.123	6/24/2026	100.65802	100.5048476	100.3521487	100.1999224	100.0481663	99.89687822	99.74605608	99.59569767	99.44580083
ADV1015724	5/22/2025	4.091	5/24/2027	104.49054	103.3944246	102.3213618	101.2706286	100.2415323	99.23340886	98.24562089	97.27755681	96.3286293
ADV1016860	6/27/2025	3.816	6/27/2028	108.22409	106.0047661	103.8424812	101.7353623	99.68161226	97.67950727	95.72739327	93.82368243	91.96684994
ADV1016807	6/26/2025	3.906	12/28/2026	102.70545	102.0271459	101.3578046	100.6972512	100.0453134	99.40182318	98.76661714	98.1395359	97.52042421
ADV1016888	6/30/2025	3.82	11/17/2027	105.94544	104.3663376	102.8189262	101.3023236	99.81568015	98.35817674	96.92902391	95.52746032	94.15275148
ADV1015256	5/6/2025	3.881	5/1/2028	107.77316	105.7166661	103.7104749	101.7530378	99.84286275	97.97851388	96.1586091	94.38181757	92.64685744
ADV1017094	7/7/2025	4.274	7/7/2031	121.35976	115.7903293	110.5174384	105.5236155	100.7925139	96.30883506	92.05825588	88.02736081	84.20357922
ADV1015593	5/16/2025	4.227	5/18/2026	100.22231	100.1722339	100.1222207	100.0722747	100.0223955	99.97258319	99.92283751	99.87315835	99.82354557
ADV1015766	5/22/2025	4.232	5/22/2030	116.90449	112.6029451	108.4875431	104.54919	100.7792903	97.16971396	93.7127684	90.40117263	87.22803272
ADV1015717	5/21/2025	4.028	5/21/2027	104.45426	103.3657473	102.2999716	101.2562272	100.233835	99.23214388	98.25052885	97.28838989	96.3451507
ADV1017646	7/29/2025	3.943	1/25/2028	106.85789	105.0821938	103.3449038	101.6448435	99.98088097	98.35193045	96.75695019	95.19494004	93.66493939
ADV1016188	6/4/2025	4.06	6/4/2030	116.33453	112.008234	107.8705819	103.9122904	100.1245882	96.49918283	93.02823183	89.70431535	86.5204111
ADV1016636	6/23/2025	4.049	12/23/2026	102.74642	102.0818755	101.4259397	100.7784478	100.1392372	99.50814948	98.88503036	98.26972935	97.66209975
ADV1017070	7/7/2025	3.946	7/7/2028	108.61773	106.3664717	104.1736055	102.0371953	99.95538195	97.92638302	95.94848925	94.02006075	92.13952356
ADV1015654	5/19/2025	4.05	7/21/2028	108.99734	106.7034989	104.4699512	102.2946585	100.1756731	98.1111297	96.09924047	94.13829168	92.22663967

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016300	6/9/2025	4.241	6/9/2026	100.49425	100.3828902	100.2717926	100.1609535	100.0503719	99.94004685	99.82997743	99.72016273	99.61060183
ADV1017661	7/30/2025	3.999	7/25/2030	116.59486	112.1196449	107.8450659	103.7609686	99.85777077	96.12643035	92.55841139	89.14565252	85.88053756
ADV1016642	6/23/2025	4.731	6/23/2038	147.05423	133.2566567	120.9782835	110.0400982	100.2852044	91.57598142	83.79161952	76.82598141	70.58574616
ADV1015253	5/6/2025	3.88	5/1/2028	107.77113	105.7146527	103.7084823	101.7510655	99.84091028	97.97658092	96.15669529	94.37992255	92.64498084
ADV1016540	6/17/2025	4.243	6/17/2026	100.59172	100.4580401	100.3247311	100.1917905	100.0592168	99.92700826	99.7951635	99.66368094	99.53255904
ADV1015286	5/7/2025	3.896	4/10/2028	107.58277	105.5870896	103.6389112	101.7368068	99.87940531	98.06538564	96.29347473	94.56244533	92.87111412
ADV1015725	5/21/2025	4.181	11/21/2029	114.71069	110.9671798	107.3687265	103.9088872	100.5815472	97.38089732	94.30141636	91.33785544	88.48522278
ADV1017274	7/14/2025	4.191	7/15/2026	100.92513	100.7132397	100.5022532	100.2921654	100.0829705	99.87466276	99.66723642	99.46068584	99.25500541
ADV1016254	6/5/2025	4.022	6/7/2027	104.57314	103.4375623	102.3267079	101.2397715	100.1759856	99.13461532	98.11495679	97.1163352	96.1381035
ADV1015744	5/21/2025	4.106	11/23/2026	102.48172	101.901133	101.3271313	100.7596077	100.198453	99.64356001	99.09482433	98.55214365	98.01541799
ADV1016516	6/17/2025	4.384	6/20/2031	121.48189	115.9666305	110.7424562	105.7923588	101.1004193	96.65173014	92.43232599	88.42911863	84.62983714
ADV1016000	5/29/2025	4.707	5/29/2035	137.40837	127.2591143	117.9817117	109.4955496	101.7279031	94.61312275	88.09191063	82.11067481	76.62095196
ADV1015997	5/29/2025	4.411	5/14/2032	125.00637	118.4535443	112.2984627	106.5147189	101.0778011	95.96494393	91.15499429	86.62828938	82.36654397
ADV1015255	7/1/2025	4.033	7/1/2030	116.50476	112.0978574	107.8859501	103.8593027	100.0087201	96.32551763	92.80148964	89.42887996	86.20035465
ADV1016846	6/27/2025	3.807	6/27/2028	108.20437	105.9852599	103.8231902	101.7162823	99.6627389	97.66083646	95.70892099	93.80540479	91.94876315
ADV1017268	7/14/2025	4.253	5/6/2026	100.12086	100.1036422	100.0864419	100.0692588	100.0520931	100.0349447	100.0178136	100.0006997	99.98360296
ADV1016002	5/29/2025	4.698	5/29/2035	137.32673	127.1810724	117.9070436	109.4240461	101.6593703	94.54738075	88.02879256	82.05002563	76.5626276
ADV1017095	7/7/2025	4.356	7/7/2032	125.15319	118.4430434	112.1485929	106.2416855	100.696228	95.48802462	90.59462896	85.99520808	81.67041794
ADV1016183	6/4/2025	3.966	10/4/2028	109.60721	107.0983256	104.6604621	102.2912006	99.98822333	97.74930488	95.57230799	93.45517949	91.39594643
ADV1015594	5/16/2025	4.118	5/16/2029	112.44832	109.2715931	106.2030461	103.2383716	100.3734601	97.60439021	94.92741806	92.33896855	89.83562651
ADV1017581	7/25/2025	3.997	7/26/2027	105.06926	103.7942681	102.5502935	101.3362153	100.150964	98.99352046	97.86291323	96.75821562	95.67854321
ADV1016777	6/25/2025	3.853	6/26/2028	108.29477	106.0774746	103.9171098	101.811808	99.7597774	97.75929914	95.80872389	93.90646824	92.05101159
ADV1017030	7/2/2025	3.871	7/3/2028	108.41063	106.1726267	103.9924618	101.868222	99.79807347	97.78025789	95.81308868	93.89494735	92.02428012
ADV1017199	7/10/2025	4.241	5/11/2026	100.18262	100.1510246	100.1194671	100.0879458	100.0564606	100.0250114	99.99359828	99.96222108	99.93087974
ADV1015872	5/27/2025	4.016	5/30/2028	108.35437	106.212476	104.1242242	102.0879023	100.10187	98.1645515	96.27443237	94.43005654	92.63002364
ADV1016392	6/12/2025	3.89	6/12/2028	108.36099	106.1798653	104.0540688	101.9818087	99.96136786	97.99109784	96.0694157	94.19480072	92.36579141
ADV1016317	6/9/2025	4.246	6/9/2026	100.49481	100.3834489	100.2723508	100.1615111	100.0509289	99.94060326	99.83053328	99.72071801	99.61115655
ADV1016399	6/12/2025	4.168	7/13/2026	100.89644	100.6901505	100.484719	100.2801402	100.0764086	99.87351887	99.67146574	99.47024396	99.26984833
ADV1016655	6/23/2025	3.885	6/25/2029	112.33856	109.0463098	105.8693685	102.8030034	99.84270833	96.98419043	94.22335841	91.55631171	88.9793302
ADV1016251	6/5/2025	4.209	6/5/2026	100.44291	100.3427087	100.2427169	100.1429323	100.0433541	99.94398175	99.84481456	99.74585188	99.64709305
ADV1015984	5/29/2025	4.189	5/29/2026	100.35698	100.2762484	100.195654	100.1151928	100.0348643	99.95466838	99.8746046	99.79467266	99.71487225
ADV1016733	6/24/2025	3.903	1/24/2029	110.61396	107.7823729	105.0387458	102.3797622	99.8022545	97.30319764	94.87970192	92.52900551	90.24846784
ADV1015603	5/16/2025	4.118	1/19/2027	103.09725	102.3561914	101.6258067	100.9058682	100.1961525	99.4964425	98.80652746	98.12620232	97.45526779

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016022	5/29/2025	4.03	8/30/2027	105.46546	104.107822	102.7745483	101.4650284	100.1786753	98.91492098	97.67321584	96.45302761	95.2538409
ADV1015745	5/21/2025	4.106	11/23/2026	102.48172	101.901133	101.3271313	100.7596077	100.198453	99.64356001	99.09482433	98.55214365	98.01541799
ADV1015599	5/16/2025	4.011	5/17/2027	104.39155	103.3145588	102.2598378	101.2267043	100.2144996	99.22259161	98.25037327	97.2972617	96.36269682
ADV1015658	5/19/2025	4.045	11/26/2027	106.39873	104.7905873	103.2149955	101.6710335	100.1578167	98.67449322	97.22024231	95.79427294	94.39582249
ADV1017092	7/7/2025	4.009	7/9/2029	112.68366	109.3517921	106.1376106	103.0362432	100.0430491	97.15360982	94.36371656	91.66935898	89.06671427
ADV1016366	6/11/2025	3.987	6/11/2027	104.64521	103.4970106	102.3740657	101.2755479	100.2006657	99.1486611	98.11880838	97.11041224	96.12280624
ADV1015269	5/6/2025	4.453	5/1/2035	126.49914	119.1944054	112.4482591	106.2125172	100.4434945	95.10155948	90.15073405	85.55833421	81.29464837
ADV1017186	7/10/2025	4.248	5/11/2026	100.18291	100.1513153	100.119756	100.0882329	100.0567459	100.0252949	99.99387998	99.96250098	99.93115785
ADV1016772	6/25/2025	3.854	5/25/2027	104.30989	103.211067	102.1354331	101.0822586	100.0508446	99.04052103	98.05064521	97.08060023	96.12979381
ADV1015131	5/1/2025	3.81	5/3/2027	103.96915	102.9344771	101.920424	100.9263776	99.95174951	98.99597435	98.05850848	97.13882898	96.23643269
ADV1015119	5/1/2025	4.022	5/1/2026	100.0161	100.0133204	100.0105407	100.0077635	100.0049886	100.0022162	99.99944621	99.99667861	99.99391341
ADV1016871	6/27/2025	3.766	12/27/2028	110.12431	107.3724305	104.7042427	102.1166637	99.60674734	97.17167644	94.8087562	92.5154078	90.28916257
ADV1016714	6/24/2025	3.953	9/24/2026	101.71201	101.3008163	100.8929583	100.4883917	100.0870768	99.68897443	99.29404598	98.90225354	98.51355978
ADV1017495	7/22/2025	3.914	7/24/2028	108.60438	106.3091807	104.0744616	101.8981771	99.77836813	97.71315857	95.70075077	93.73942165	91.82751883
ADV1016327	6/10/2025	4.173	12/10/2026	102.6824	102.0542426	101.4337831	100.8208841	100.2154077	99.61721955	99.02618821	98.44218557	97.86508655
ADV1016249	6/5/2025	4.672	6/15/2035	137.25021	127.0597792	117.748833	109.235691	101.4467008	94.31540679	87.78181124	81.79171429	76.29612506
ADV1016808	6/26/2025	3.859	6/26/2029	112.06483	108.7789398	105.6081417	102.5477169	99.59316724	96.74020753	93.98475373	91.32291221	88.75096951
ADV1015991	5/29/2025	4.007	5/1/2028	108.14936	106.0563976	104.0156403	102.0254296	100.0841687	98.19032398	96.34242147	94.53904416	92.77882937
ADV1016832	6/27/2025	3.751	6/27/2028	108.2166	105.9947107	103.8299789	101.7205224	99.66453909	97.66030059	95.7061484	93.80049054	91.94179826
ADV1015206	5/5/2025	4.044	11/5/2026	102.21223	101.6830296	101.1593131	100.6409974	100.127999	99.62023627	99.11762934	98.62009981	98.12757094
ADV1015260	7/1/2025	4.033	7/1/2030	116.50476	112.0978574	107.8859501	103.8593027	100.0087201	96.32551763	92.80148964	89.42887996	86.20035465
ADV1015624	5/19/2025	4.184	5/19/2026	100.23526	100.1823693	100.1295478	100.076799	100.0241226	99.97151863	99.91898681	99.86652701	99.81413908
ADV1015613	5/16/2025	4.068	1/7/2028	106.88651	105.1595204	103.4691005	101.8141493	100.1936145	98.60648542	97.05179129	95.52859896	94.03601116
ADV1017343	7/15/2025	4.267	6/15/2026	100.61602	100.4834621	100.3512609	100.2194117	100.0879131	99.95676372	99.82596206	99.69550671	99.56539626
ADV1015335	5/8/2025	4.101	11/9/2026	102.28725	101.7466819	101.2118397	100.6826314	100.1589683	99.64076341	99.12793143	98.62038897	98.11805432
ADV1015600	5/16/2025	4.143	11/16/2026	102.38866	101.8282865	101.27406	100.7258809	100.1836504	99.64727179	99.11665057	98.59169413	98.07231191
ADV1016236	7/1/2025	3.99	6/30/2028	108.64223	106.4098381	104.2349545	102.1156858	100.0502147	98.03679855	96.07376524	94.15951001	92.29249199
ADV1016021	5/29/2025	4.036	7/29/2027	105.14997	103.8661146	102.6136826	101.3915342	100.1985794	99.03378021	97.89614723	96.784737	95.69864933
ADV1017577	7/25/2025	4	1/25/2027	103.11997	102.3615302	101.6142653	100.8779276	100.1522786	99.43708626	98.73212563	98.03717796	97.35203075
ADV1016246	7/1/2025	4.108	7/1/2030	116.82165	112.4081253	108.1898127	104.1569662	100.3003824	96.61136863	93.08171171	89.70364825	86.4698374
ADV1016689	6/24/2025	3.969	6/25/2029	112.40632	109.1178133	105.9443635	102.8812572	99.92400154	97.06831617	94.31012158	91.64552825	89.07082647
ADV1017451	7/21/2025	3.939	1/21/2027	103.03115	102.2842056	101.5481109	100.82263	100.1075342	99.40260122	98.7076153	98.02236658	97.34665113
ADV1016868	6/27/2025	3.855	6/28/2027	104.6039	103.4096744	102.2427646	101.1022369	99.98720319	98.89681497	97.83026094	96.7867651	95.76558484

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016894	6/30/2025	3.852	2/14/2029	110.69818	107.8038774	105.0011157	102.2864477	99.65658257	97.10837431	94.63881398	92.24502297	89.92424631
ADV1017147	7/9/2025	3.978	7/9/2027	104.8681	103.6416549	102.443964	101.2740264	100.1308842	99.01362339	97.921371	96.85329299	95.80859209
ADV1016524	6/27/2025	4.055	6/27/2029	112.70286	109.4039219	106.2205237	103.147926	100.1816117	97.31727742	94.55082233	91.87833672	89.29609193
ADV1017290	7/14/2025	4.224	6/15/2026	100.6102	100.4776851	100.3455198	100.2137065	100.0822437	99.95112997	99.82036389	99.68994402	99.55986895
ADV1015207	5/5/2025	3.969	5/5/2027	104.15324	103.1119647	102.091547	101.091365	100.1108206	99.14933875	98.20636703	97.28137397	96.37384835
ADV1015587	5/16/2025	4.038	5/16/2028	108.25187	106.1493411	104.0988657	102.0988085	100.1476007	98.24373377	96.38575704	94.57227461	92.80194307
ADV1016269	6/6/2025	4.082	6/6/2029	112.76145	109.5166854	106.3840223	103.3589231	100.4370661	97.61433067	94.88678659	92.25068385	89.70244322
ADV1016186	6/4/2025	3.95	6/5/2028	108.28294	106.1250139	104.0214258	101.9704366	99.9703737	98.01963057	96.11666387	94.25999028	92.4481837
ADV1017296	7/15/2025	3.965	7/17/2028	108.76389	106.4836504	104.2631308	102.1003204	99.99329778	97.94022227	95.93932955	93.98892789	92.0873944
ADV1016191	6/4/2025	4.582	6/5/2034	133.05717	124.0995219	115.8404868	108.2212454	101.1882394	94.69267775	88.6900879	83.13991244	78.00514481
ADV1016786	6/26/2025	3.848	6/18/2027	104.49065	103.3249709	102.1853509	101.0709224	99.98085582	98.91435775	97.87066882	96.84906204	95.84884103
ADV1016072	5/30/2025	4.059	9/30/2026	101.82639	101.3981978	100.9736054	100.5525659	100.1350349	99.72096874	99.31032438	98.90305958	98.49913276
ADV1015181	5/2/2025	4.006	11/2/2026	102.15906	101.6383789	101.1230036	100.6128554	100.107855	99.6079249	99.11298883	98.62297225	98.13780205
ADV1016981	7/1/2025	3.882	1/4/2027	102.8086	102.1099238	101.4207488	100.740886	100.0701474	99.40835011	98.75531591	98.11087145	97.47484789
ADV1017682	7/30/2025	4.193	7/30/2026	101.10523	100.8513876	100.5988154	100.3475067	100.0974523	99.8486426	99.60106848	99.35472074	99.1095903
ADV1015723	5/21/2025	4.077	5/22/2028	108.39745	106.276967	104.2092301	102.1925774	100.2254089	98.30618688	96.43343289	94.60572487	92.82169461
ADV1016891	6/30/2025	3.811	2/16/2028	106.85764	105.0191496	103.2215114	101.4635159	99.74400441	98.06186187	96.41601464	94.8054287	93.22910779
ADV1017171	7/10/2025	4.106	7/10/2026	100.85984	100.6618115	100.4645783	100.2681315	100.0724665	99.87757844	99.68346267	99.49011452	99.29752936
ADV1016640	6/23/2025	4.655	6/23/2037	143.7341	131.1263176	119.8103543	109.6444322	100.5031253	92.27539241	84.86285524	78.17829132	72.14431308
ADV1017700	7/30/2025	4.021	7/30/2027	105.14169	103.8551064	102.6000874	101.3754772	100.1801793	99.01314927	97.87339196	96.75995836	95.6719431
ADV1017612	7/28/2025	4.201	7/28/2026	101.0831	100.8348392	100.5878051	100.3419841	100.0973671	99.85394548	99.61171035	99.37065309	99.13076512
ADV1016098	6/2/2025	4.234	6/2/2026	100.40884	100.3170147	100.2253563	100.1338681	100.0425497	99.95140059	99.86042029	99.76960833	99.67896426
ADV1016712	6/24/2025	3.988	12/24/2026	102.71711	102.0498847	101.3913416	100.7413103	100.0996262	99.46612916	98.84066296	98.22307539	97.61321806
ADV1016365	6/11/2025	4.006	6/11/2029	112.57578	109.3196602	106.1764499	103.1415631	100.2106311	97.37948901	94.64416567	92.00087258	89.44599455
ADV1017240	7/11/2025	3.994	7/12/2027	104.91928	103.684166	102.4782069	101.3003782	100.1497024	99.02524737	97.92612281	96.85147854	95.80050208
ADV1015730	5/21/2025	4.257	5/21/2026	100.26032	100.201896	100.1435523	100.0852917	100.0271139	99.96901894	99.9110065	99.85307642	99.79522854
ADV1017093	7/7/2025	4.065	7/8/2030	116.70974	112.2791422	108.0453059	103.9983626	100.1290005	96.42842708	92.88833672	89.50088083	86.25863981
ADV1016189	6/4/2025	4.281	6/4/2031	121.0729	115.605055	110.4241002	105.5133791	100.8572914	96.44122193	92.25147262	88.27520029	84.50035848
ADV1016775	6/25/2025	3.956	12/28/2026	102.73909	102.0606576	101.3911907	100.7305129	100.0784518	99.43483951	98.79951248	98.17231135	97.55308085
ADV1015463	5/15/2025	4.098	5/15/2028	108.36596	106.2649591	104.2159208	102.2172189	100.2672887	98.36462598	96.50778364	94.69536948	92.9260435
ADV1016301	6/9/2025	4.175	12/9/2026	102.67225	102.0469139	101.4292076	100.8189946	100.2161389	99.62050769	99.03197148	98.45040378	97.87568112
ADV1015966	5/29/2025	4.253	5/29/2026	100.35732	100.2766414	100.1960953	100.1156818	100.0354005	99.95525101	99.87523315	99.79534654	99.71559088
ADV1016071	5/30/2025	4.014	5/28/2027	104.45046	103.3434507	102.2599481	101.199213	100.1605325	99.14322331	98.14663014	97.1701242	96.21310193

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1017492	7/22/2025	4.223	6/22/2026	100.69445	100.5417955	100.3896024	100.2378668	100.0865865	99.93575954	99.78538379	99.63545724	99.48597783
ADV1016519	6/27/2025	3.998	6/27/2028	108.623	106.3992258	104.2325871	102.1212028	100.0632734	98.05707256	96.10094376	94.19329694	92.33260507
ADV1016934	6/30/2025	4.083	6/30/2026	100.72244	100.5525313	100.383189	100.2144144	100.0462046	99.87855685	99.71146836	99.54493636	99.3789581
ADV1015252	6/2/2025	4.019	5/31/2030	116.12269	111.8121941	107.6892797	103.7447411	99.96987365	96.35644658	92.89667464	89.58319125	86.40902357
ADV1017516	7/23/2025	4.089	7/23/2026	101.0103	100.7759134	100.5426304	100.3104388	100.0793309	99.84929893	99.62033544	99.39243292	99.16558393
ADV1016884	6/30/2025	3.862	12/31/2026	102.74771	102.0603781	101.3822441	100.7131223	100.0528339	99.40120473	98.75806532	98.12325048	97.49659932
ADV1015775	5/22/2025	4.253	5/22/2026	100.27224	100.2110338	100.1499142	100.0888834	100.0279411	99.96708717	99.90632138	99.84564354	99.78505346
ADV1016839	6/27/2025	4.103	6/29/2026	100.71426	100.5471289	100.3805551	100.2145326	100.0490589	99.88413113	99.71974673	99.55590299	99.39259728
ADV1016234	7/1/2025	3.99	6/30/2028	108.64223	106.4098381	104.2349545	102.1156858	100.0502147	98.03679855	96.07376524	94.15951001	92.29249199
ADV1016001	5/29/2025	4.187	5/29/2026	100.35682	100.2760874	100.1954931	100.115032	100.0347037	99.95450783	99.87444418	99.79451238	99.7147121
ADV1016244	7/1/2025	3.988	6/30/2028	108.63783	106.4054851	104.2306497	102.1114282	100.0460034	98.03263254	96.06964366	94.15543199	92.28845668
ADV1017075	7/7/2025	3.989	7/7/2027	104.86083	103.6399876	102.4476394	101.2827967	100.1445146	99.03189102	97.9440644	96.88021132	95.83954452
ADV1017701	7/30/2025	3.977	7/31/2028	108.93645	106.6159954	104.3571256	102.1577354	100.0158152	97.92944094	95.89677014	93.91603729	91.98555
ADV1016857	6/27/2025	3.846	12/27/2028	110.17271	107.4238258	104.7584657	102.1735535	99.66615126	97.23344973	94.87276141	92.58151446	90.35724673
ADV1016847	6/27/2025	3.868	6/27/2029	112.10381	108.8144569	105.6403949	102.5768901	99.61943383	96.76373074	94.00568752	91.34140181	88.76715197
ADV1015747	5/21/2025	4.106	11/23/2026	102.48172	101.901133	101.3271313	100.7596077	100.198453	99.64356001	99.09482433	98.55214365	98.01541799
ADV1015508	5/14/2025	4.179	5/14/2026	100.17441	100.1354353	100.0965076	100.057628	100.0187965	99.98001296	99.94127726	99.90258933	99.86394907
ADV1017074	7/7/2025	4.059	1/7/2027	102.92231	102.215353	101.5181188	100.830412	100.1520379	99.48280728	98.82253586	98.17104435	97.52815822
ADV1017202	7/10/2025	4.021	3/10/2027	103.58214	102.699736	101.8323963	100.9797363	100.1413851	99.31698416	98.50618694	97.70865819	96.92407365
ADV1015261	5/6/2025	4.011	4/30/2030	115.774	111.5565282	107.5197292	103.6548789	99.95371903	96.40843272	93.01161873	89.75626691	86.63573537
ADV1017659	7/29/2025	3.959	7/29/2027	105.05259	103.7693837	102.5175918	101.2960727	100.1037367	98.93954615	97.80251185	96.69169066	95.60618261
ADV1016424	6/13/2025	4.212	6/15/2026	100.56399	100.4358953	100.3081455	100.1807358	100.0536646	99.92693061	99.80053242	99.67446864	99.54873793
ADV1017090	7/7/2025	3.989	7/7/2027	104.86083	103.6399876	102.4476394	101.2827967	100.1445146	99.03189102	97.9440644	96.88021132	95.83954452
ADV1016638	6/23/2025	4.525	6/25/2035	136.6259	126.404452	117.0694637	108.5382729	100.7363727	93.59656394	87.05820158	81.06652299	75.57204798
ADV1016471	6/16/2025	4.148	6/16/2026	100.57472	100.4437583	100.3131565	100.18291	100.0530171	99.92347643	99.7942865	99.66544582	99.53695294
ADV1015468	5/13/2025	4.234	5/13/2026	100.16203	100.1258605	100.0897344	100.0536517	100.0176125	99.98161644	99.94566362	99.90975391	99.87388722
ADV1016074	5/30/2025	4.01	12/30/2026	102.83741	102.1525229	101.4767601	100.8099429	100.1518944	99.50244247	98.86141936	98.22866167	97.60401022
ADV1017651	7/29/2025	4.202	7/29/2026	101.09535	100.844293	100.5944877	100.3459206	100.0985826	99.85246455	99.60755752	99.36385256	99.12134085
ADV1015873	5/27/2025	4.086	5/29/2029	112.48612	109.2729299	106.1700802	103.1731326	100.27786	97.48023016	94.77639591	92.16268505	89.63559144
ADV1017530	7/23/2025	3.897	7/23/2027	104.98839	103.7211021	102.4844714	101.2773969	100.098827	98.94775959	97.82323886	96.72435305	95.65023167
ADV1015740	5/21/2025	4.181	5/22/2026	100.27163	100.2103887	100.1492361	100.0881727	100.0271983	99.96631263	99.90551556	99.84480687	99.78418636
ADV1016716	6/24/2025	3.913	12/21/2026	102.67454	102.0153285	101.3645955	100.7221798	100.0879222	99.46166769	98.84326534	98.23256782	97.62943153
ADV1015721	5/22/2025	4.171	11/23/2026	102.48457	101.9043988	101.3308034	100.7636761	100.2029077	99.64839141	99.10002305	98.55770058	98.02132427

	Parallel-Shift Sensitivity Analysis											
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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	112.62495	109.2863279	106.0658393	102.9585782	99.95987945	97.0653015	94.27061422	91.57178712	88.96497853
ADV1016052	5/30/2025	4.064	4/30/2027	104.19128	103.1637179	102.1564529	101.1688908	100.200457	99.25059935	98.3187867	97.40450796	96.50727122
ADV1017120	7/8/2025	3.989	6/16/2028	108.48581	106.2946461	104.1592133	102.077704	100.0483825	98.06958287	96.13970549	94.25721398	92.4206321
ADV1016593	6/20/2025	4.149	6/22/2026	100.64765	100.4999364	100.3526695	100.2058458	100.0594634	99.91352022	99.76801428	99.62294358	99.47830613
ADV1016734	6/24/2025	3.927	6/25/2029	112.27201	108.9856438	105.8142839	102.7532131	99.79794036	96.94418721	94.18787583	91.52511831	88.95220653
ADV1016810	6/26/2025	4.075	6/26/2026	100.67431	100.5155479	100.3572965	100.1995486	100.042302	99.88555424	99.72930292	99.5735457	99.41828023
ADV1016181	6/4/2025	4.203	6/4/2026	100.4303	100.3328899	100.2356763	100.1386574	100.0418325	99.94520123	99.84876283	99.75251673	99.65646236
ADV1016239	7/1/2025	3.987	6/30/2028	108.63563	106.4033087	104.2284973	102.1092994	100.0438977	98.03054954	96.06758287	94.15339298	92.28643902
ADV1017088	7/7/2025	4.196	7/7/2026	100.83014	100.6406172	100.4518193	100.2637394	100.0763734	99.88971714	99.70376654	99.51851755	99.33396616
ADV1017295	7/14/2025	4.057	1/14/2027	102.99756	102.2708131	101.5543428	100.8479324	100.1513705	99.46445203	98.78697725	98.11875203	97.45958754
ADV1017029	7/2/2025	3.899	7/2/2027	104.70117	103.4952399	102.3171419	101.1659175	100.040654	98.94047977	97.86456159	96.81210292	95.78234178
ADV1016795	6/26/2025	3.856	12/28/2026	102.71203	102.0331798	101.3633076	100.7022372	100.0497959	99.40581533	98.77013166	98.14258513	97.52302012
ADV1016773	6/25/2025	4.124	6/25/2026	100.67012	100.5141533	100.3586735	100.2036817	100.0491755	99.89515276	99.7416111	99.58854831	99.43596212
ADV1016053	5/30/2025	4.004	5/30/2028	108.32869	106.1870764	104.0990932	102.0630349	100.0772613	98.14019683	96.25032706	94.40619608	92.60640366
ADV1015965	5/29/2025	4.13	5/29/2030	116.55727	112.2433405	108.116851	104.168609	100.3899275	96.77259189	93.3088315	89.99129308	86.81301588
ADV1016853	6/27/2025	3.86	6/28/2027	104.60979	103.4155307	102.2485845	101.108021	99.99295213	98.90252926	97.83594111	96.79241167	95.7711983
ADV1016942	6/30/2025	4.078	6/30/2026	100.7216	100.5516848	100.3823435	100.21357	100.0453613	99.87771458	99.71062716	99.54409622	99.378119
ADV1016265	6/6/2025	4.178	6/6/2030	116.84568	112.503142	108.3500431	104.3770544	100.5753609	96.93662956	93.45297966	90.11695588	86.9215027
ADV1015804	5/23/2025	4.242	5/26/2026	100.32006	100.247728	100.175507	100.1033988	100.0314033	99.95952003	99.88774884	99.81608944	99.74454159
ADV1016851	6/27/2025	3.909	6/27/2030	115.937	111.5531718	107.3630322	103.3569264	99.52573692	95.86085155	92.35413186	88.99788435	85.78483338
ADV1017502	7/22/2025	4.162	7/22/2026	101.00209	100.7706239	100.5402335	100.3109079	100.0826397	99.85542147	99.62924596	99.40410593	99.17999423
ADV1017269	7/14/2025	4.118	9/17/2026	101.6736	101.2822643	100.8939505	100.5086261	100.1262565	99.74680766	99.37024612	98.99653887	98.62565341
ADV1016521	6/27/2025	4.055	6/27/2029	112.70286	109.4039219	106.2205237	103.147926	100.1816117	97.31727742	94.55082233	91.87833672	89.29609193
ADV1016184	6/4/2025	4.001	6/4/2027	104.51693	103.3900317	102.2874882	101.2085111	100.1523499	99.1182857	98.10562947	97.11372065	96.14192563
ADV1016723	6/25/2025	3.875	9/27/2027	105.52968	104.0938056	102.6846518	101.3015369	99.94380109	98.61080614	97.30193487	96.01659019	94.75419426
ADV1016017	5/29/2025	4.251	5/29/2026	100.35716	100.2764803	100.1959344	100.115521	100.0352398	99.95509047	99.87507274	99.79518626	99.71543073
ADV1015681	5/20/2025	4.07	5/21/2027	104.43447	103.347027	102.2822904	101.2395494	100.2181264	99.21737166	98.23666155	97.27539734	96.33300394
ADV1015385	5/9/2025	3.931	5/10/2027	104.23055	103.1739904	102.1388922	101.1246071	100.1305109	99.15600447	98.20051216	97.26348063	96.34437787
ADV1016193	6/4/2025	4.77	6/4/2037	144.08911	131.5582251	120.3033582	110.1852208	101.080507	92.87998104	85.48680157	78.81505354	72.7884609
ADV1015393	5/12/2025	4.106	5/12/2027	104.37244	103.310427	102.2700837	101.2507492	100.2517909	99.27260134	98.31259701	97.37121719	96.44792284
ADV1015317	5/8/2025	4.08	5/8/2026	100.09942	100.0771536	100.0549063	100.0326829	100.0104833	99.98830735	99.96615514	99.94402657	99.92192161
ADV1013785	9/30/2025	4.156	9/30/2030	117.96417	113.2707602	108.7954877	104.5270503	100.4547862	96.56863878	92.85911858	89.31726857	85.93463151
ADV1015177	8/4/2025	3.835	8/4/2027	104.9578	103.6608917	102.3946659	101.1580367	99.9499682	98.76947277	97.61560799	96.48747414	95.3842118

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016801	8/21/2025	3.955	8/21/2026	101.29922	100.9838112	100.670381	100.3589076	100.0493725	99.7417576	99.43604495	99.13221687	98.83025588
ADV1017829	8/4/2025	3.905	2/4/2027	103.11427	102.3286291	101.5549753	100.7930316	100.0425333	99.30322362	98.5748536	97.8571815	97.14997267
ADV1018720	9/11/2025	3.675	9/11/2030	115.64042	111.0521684	106.6754341	102.499362	98.51370661	94.70879726	91.07550336	87.60520137	84.28974409
ADV1018132	8/14/2025	4.03	8/14/2026	101.24191	100.9460788	100.6519901	100.3596283	100.0689781	99.78002455	99.49275258	99.20714745	98.9231946
ADV1018425	8/26/2025	3.734	6/26/2028	108.03427	105.8198772	103.6623522	101.5598326	99.51052816	97.51272165	95.56476527	93.66507714	91.81213807
ADV1018687	9/5/2025	3.552	9/7/2027	104.97596	103.5987449	102.2462961	100.9179974	99.61325672	98.33150131	97.07217638	95.83474461	94.61868545
ADV1017824	8/4/2025	4.044	8/4/2026	101.13011	100.8623095	100.5959292	100.33096	100.0673908	99.80521024	99.54440752	99.2849717	99.02689204
ADV1017792	8/1/2025	3.917	8/1/2030	116.31497	111.8264371	107.5399861	103.4453496	99.53284286	95.79332893	92.21818409	88.79926569	85.52888219
ADV1019963	10/27/2025	3.591	12/31/2027	106.00122	104.3010236	102.6365495	101.0067326	99.41055468	97.84703743	96.31524052	94.81425973	93.34322518
ADV1019821	10/20/2025	3.498	10/20/2027	105.27814	103.7802272	102.3113709	100.8707976	99.45776139	98.07154221	96.71144451	95.37679637	94.06694844
ADV1018784	9/10/2025	3.905	6/10/2026	100.50017	100.3831632	100.2664371	100.1499896	100.0338196	99.91792617	99.80230825	99.68696481	99.57189484
ADV1017948	8/7/2025	3.967	8/7/2026	101.15994	100.8835565	100.608691	100.3353329	100.0634697	99.79308907	99.5241788	99.25672686	98.99072131
ADV1019844	10/21/2025	3.579	4/21/2027	103.61141	102.6120034	101.6318893	100.6705171	99.72735237	98.8018809	97.89360772	97.00205619	96.12676712
ADV1018830	9/12/2025	3.968	8/29/2031	119.91306	114.2438632	108.8840797	103.8151631	99.01977365	94.4816921	90.18574193	86.11771707	82.26431515
ADV1018628	9/4/2025	3.764	3/20/2030	114.37899	110.3046013	106.4003992	102.6583769	99.07094773	95.63091967	92.33147243	89.16613636	86.12877264
ADV1017929	8/6/2025	4.036	8/6/2026	101.15111	100.8777059	100.6057847	100.3353365	100.0663494	99.79881145	99.53271097	99.2680363	99.00477596
ADV1017838	8/4/2025	3.782	8/4/2028	108.53433	106.2076456	103.9429649	101.7381874	99.59129906	97.5003704	95.46355261	93.47907327	91.54523245
ADV1019528	10/6/2025	3.85	10/7/2030	116.66236	111.9785079	107.5136009	103.2562324	99.19565168	95.32172064	91.624876	88.09609346	84.72685467
ADV1019707	10/15/2025	4.105	10/17/2033	127.32454	119.234178	111.7348495	104.779917	98.32666096	92.33593248	86.77183714	81.60144887	76.7945501
ADV1019649	10/14/2025	3.826	7/14/2026	100.86407	100.6502565	100.4373425	100.2253251	100.0141984	99.80395689	99.59459485	99.38610669	99.1784869
ADV1019499	10/3/2025	3.634	4/5/2027	103.56475	102.6092783	101.671449	100.7507777	99.84679631	98.9590536	98.08711448	97.23055933	96.38898325
ADV1020006	10/29/2025	3.648	4/29/2027	103.75916	102.7367254	101.7344547	100.7517524	99.78804919	98.84279772	97.91547147	97.00556378	96.11258696
ADV1019308	9/29/2025	3.656	9/29/2027	105.32139	103.8800783	102.4657048	101.077579	99.71503304	98.37742128	97.06411935	95.77452328	94.50804874
ADV1019596	10/9/2025	3.728	4/9/2027	103.63682	102.6706509	101.7225158	100.7919157	99.87836701	98.98140359	98.10057625	97.23545191	96.38561287
ADV1019422	10/1/2025	3.634	4/1/2027	103.52435	102.5802264	101.6533263	100.7431847	99.84934991	98.97138637	98.10887388	97.26140697	96.42859427
ADV1018657	9/5/2025	3.667	8/28/2030	115.47872	110.933463	106.5960882	102.4559994	98.50319157	94.72821856	91.12215867	87.67658305	84.38352589
ADV1019044	9/19/2025	3.81	9/21/2026	101.59709	101.1948014	100.7957065	100.3997681	100.0069489	99.61721179	99.23052069	98.84683983	98.46613406
ADV1018004	8/11/2025	3.852	8/12/2030	116.41507	111.8858349	107.5619267	103.4328928	99.48887149	95.72055598	92.11916024	88.67638663	85.38439586
ADV1017915	8/6/2025	4.029	8/6/2026	101.1492	100.8757968	100.603879	100.3334342	100.0644505	99.79691592	99.5308188	99.26614748	99.00289047
ADV1018548	8/29/2025	3.697	8/29/2028	108.58002	106.1845326	103.8543931	101.5874584	99.38166397	97.23502509	95.14563323	93.11165257	91.13131683
ADV1017957	8/7/2025	4.746	12/17/2038	147.52429	133.2731915	120.6419309	109.4335061	99.47601917	90.61934816	82.73227895	75.70002807	69.42210171
ADV1018676	9/5/2025	3.623	9/7/2027	104.99031	103.6143246	102.2630552	100.935896	99.63225655	98.35156521	97.09326851	95.8568303	94.64173116
ADV1017878	8/5/2025	3.792	8/4/2028	108.55717	106.2302159	103.9652742	101.7602411	99.61310214	97.52192791	95.48486941	93.50015405	91.56608177

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1019238	9/26/2025	3.84	9/28/2026	101.68607	101.2640945	100.8456201	100.4306032	100.0190013	99.61077227	99.20587477	98.80426815	98.40591241
ADV1017893	8/5/2025	4.141	7/25/2031	120.53756	114.9489225	109.6603146	104.6539136	99.91305756	95.42216229	91.16664536	87.13285597	83.30800998
ADV1017923	8/6/2025	3.796	5/14/2027	104.13294	103.0658142	102.0205995	100.9966232	99.99324213	99.00983856	98.04581943	97.10061494	96.17367743
ADV1018380	8/25/2025	3.79	8/25/2028	108.76038	106.3736473	104.0517762	101.7926225	99.59412892	97.45431889	95.37129259	93.34322358	91.36835549
ADV1018637	9/4/2025	3.68	1/21/2028	106.35862	104.5983444	102.8759781	101.190364	99.54039032	97.9249904	96.34314061	94.79385792	93.27619794
ADV1019599	10/9/2025	3.837	10/9/2030	116.62149	111.9330195	107.4639731	103.2029063	99.13903281	95.2621817	91.56275933	88.03171345	84.66049991
ADV1019447	10/1/2025	3.604	10/2/2028	108.84752	106.3504041	103.9239455	101.5657415	99.27348843	97.04497441	94.87807507	92.77074947	90.72103635
ADV1018836	9/12/2025	3.975	9/12/2031	120.06841	114.3555656	108.9565395	103.8524054	99.02547689	94.45921679	90.1381569	86.04782362	82.1746692
ADV1018705	9/8/2025	3.887	6/8/2026	100.47566	100.364373	100.2533389	100.1425565	100.0320249	99.92174307	99.81171027	99.70192558	99.59238813
ADV1018262	8/20/2025	4.049	8/19/2026	101.34464	101.0246811	100.7066932	100.3906613	100.0765673	99.76439323	99.45412148	99.14573462	98.83921542
ADV1018138	10/1/2025	3.787	10/2/2028	109.14615	106.6484812	104.2214001	101.8625092	99.56950929	97.34019247	95.17243814	93.06420892	91.0135469
ADV1019345	9/30/2025	3.717	9/30/2027	105.3311	103.8883321	102.4725584	101.0830827	99.71923521	98.38036842	97.06585623	95.77509301	94.50749277
ADV1018084	8/15/2025	4.08	5/15/2026	100.21764	100.1747639	100.1319445	100.089179	100.0464672	100.003809	99.96120438	99.91865319	99.87615534
ADV1018272	8/20/2025	4.012	8/20/2026	101.30563	100.9929903	100.6822933	100.37352	100.0666523	99.76167252	99.45856323	99.15730714	98.8578872
ADV1018091	10/1/2025	3.728	10/2/2028	109.0009	106.5050422	104.0797268	101.7225633	99.43125344	97.20359052	95.037455	92.93081056	90.88170024
ADV1019600	10/9/2025	4.315	10/10/2034	131.95091	122.6831694	114.1668089	106.3362666	99.132044	92.50011293	86.39138583	80.76124037	75.56909177
ADV1020089	10/31/2025	3.626	10/29/2027	105.54982	104.0254344	102.5310686	101.065915	99.62919187	98.22014491	96.83804602	95.48219213	94.15190414
ADV1017982	8/8/2025	3.796	8/8/2029	112.49491	109.0785031	105.7854752	102.6106348	99.54904217	96.59599627	93.7470216	90.99785572	88.3444376
ADV1017864	8/5/2025	3.894	2/5/2027	103.1163	102.3278703	101.5515084	100.7869399	100.0338971	99.29212081	98.56135916	97.84136794	97.13191007
ADV1017892	8/5/2025	4.141	7/25/2031	120.53756	114.9489225	109.6603146	104.6539136	99.91305756	95.42216229	91.16664536	87.13285597	83.30800998
ADV1019960	10/27/2025	3.783	8/31/2026	101.38218	101.0306046	100.6814065	100.3345657	99.99005844	99.64786124	99.30795101	98.97030496	98.63490057
ADV1018710	9/8/2025	3.72	9/7/2028	108.72795	106.3055558	103.9498582	101.6586572	99.42983475	97.26135449	95.15125836	93.09766305	91.09875668
ADV1018364	8/25/2025	4.013	8/25/2026	101.36333	101.0366819	100.7121492	100.389708	100.069338	99.75101937	99.43473228	99.12045732	98.80817528
ADV1019418	10/1/2025	3.596	10/15/2027	105.38259	103.8974658	102.4408998	101.0121377	99.61045233	98.23514134	96.88552626	95.56095142	94.26078302
ADV1018450	8/27/2025	3.712	8/27/2029	112.39748	108.9302457	105.5898883	102.3710902	99.26878277	96.27813635	93.39454778	90.61362841	87.93119291
ADV1019319	9/29/2025	3.66	9/29/2027	105.32714	103.8857853	102.4713693	101.0832018	99.72061478	98.38296266	97.06962105	95.77998596	94.51347302
ADV1018677	9/5/2025	3.624	9/7/2027	104.99169	103.6156914	102.2644123	100.9372435	99.63359455	98.35289393	97.0945881	95.85814092	94.64303295
ADV1019455	10/1/2025	3.648	10/1/2027	105.24458	103.7997931	102.3820809	100.9907512	99.62513093	98.28456936	96.96843735	95.67612638	94.40704768
ADV1019299	9/29/2025	4.032	9/28/2035	118.98553	113.5473199	108.4618339	103.7021917	99.24379433	95.06411189	91.14249436	87.46000117	83.99924725
ADV1018273	8/20/2025	3.893	2/22/2027	103.29609	102.459552	101.6365767	100.8268386	100.0300199	99.24581283	98.47391942	97.71405098	96.96592783
ADV1017868	8/5/2025	4.278	8/5/2033	128.00869	120.096623	112.7479951	105.9193335	99.57075215	93.66563686	88.17035997	83.05402127	78.28821277
ADV1018092	10/1/2025	3.795	10/1/2029	112.81825	109.2505214	105.8166258	102.5108237	99.32765559	96.26192439	93.30868125	90.4632123	87.72102622
ADV1018000	8/8/2025	3.862	8/8/2030	116.42023	111.902017	107.5881884	103.4683394	99.53265878	95.771889	92.17729118	88.74061298	85.45405852

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1020088	10/31/2025	3.678	4/30/2027	103.86103	102.8343777	101.8280324	100.8413957	99.87389271	98.9249704	97.99409705	97.08076103	96.18446988
ADV1018236	8/19/2025	3.744	8/21/2028	108.75796	106.3792585	104.0650103	101.8130769	99.62140361	97.48801734	95.41102293	93.38859942	91.41899659
ADV1018451	8/27/2025	3.712	8/27/2029	112.39748	108.9302457	105.5898883	102.3710902	99.26878277	96.27813635	93.39454778	90.61362841	87.93119291
ADV1020062	10/30/2025	3.773	10/30/2026	102.03337	101.5210353	101.0138467	100.5117243	100.0145926	99.52237722	99.03500565	98.5524066	98.0745102
ADV1018419	8/26/2025	3.775	8/26/2030	116.21049	111.6467158	107.2914677	103.1341122	99.16461266	95.3734938	91.75180726	88.29109956	84.98338217
ADV1018735	9/9/2025	3.618	9/9/2027	105.00073	103.6190605	102.2623062	100.9298471	99.62108602	98.33544504	97.07236456	95.83130262	94.61173418
ADV1017798	8/1/2025	3.922	2/1/2027	103.09546	102.3182633	101.5527902	100.7987774	100.0559689	99.32411611	98.60297791	97.89232013	97.1919154
ADV1019343	9/30/2025	3.749	3/31/2027	103.5612	102.6204556	101.6968105	100.7898018	99.8989828	99.02392264	98.16420568	97.31943079	96.4892107
ADV1018699	9/8/2025	3.776	9/9/2026	101.4535	101.0849321	100.7190505	100.3558263	99.99523061	99.63723475	99.2818106	98.92893042	98.57856685
ADV1018679	9/5/2025	3.588	9/5/2028	108.39309	105.9803637	103.6339573	101.3516798	99.13142949	96.97118568	94.86900506	92.82301836	90.83142706
ADV1018680	9/5/2025	3.65	9/5/2029	112.0652	108.5837352	105.230443	101.9999344	98.88707536	95.88697357	92.99496579	90.2066058	87.51765322
ADV1018339	8/22/2025	3.799	8/22/2030	116.27825	111.7241224	107.3776143	103.2281412	99.26571658	95.48091327	91.86482934	88.40905588	85.105647
ADV1019955	10/27/2025	3.737	10/27/2026	101.95299	101.4496046	100.95119	100.457675	99.96898783	99.48505767	99.0058153	98.53119279	98.0611235
ADV1018347	8/26/2025	3.74	8/15/2028	108.54361	106.1867758	103.893411	101.6613886	99.4886734	97.3733126	95.3134321	93.30723252	91.3529857
ADV1018951	9/17/2025	3.585	9/18/2028	108.51086	106.060158	103.6777524	101.3613554	99.10877344	96.9178986	94.78670514	92.71324554	90.6956471
ADV1019522	10/6/2025	3.797	9/8/2026	101.47853	101.1029757	100.7301431	100.3600032	99.9925269	99.62768534	99.26545022	98.90579361	98.54868799
ADV1017821	8/4/2025	3.966	8/4/2026	101.12504	100.8570681	100.5905255	100.3253969	100.061671	99.79933677	99.53838303	99.2787989	99.02057358
ADV1019662	10/14/2025	3.698	11/16/2026	102.14166	101.5820795	101.0286367	100.4812351	99.93977609	99.404163	98.87430133	98.3500986	97.83146431
ADV1019668	10/14/2025	3.594	10/14/2027	105.27909	103.7988666	102.3470401	100.922859	99.52560192	98.15457225	96.80909677	95.4885249	94.19222769
ADV1019598	10/9/2025	3.709	10/10/2028	109.03044	106.5123861	104.066107	101.6891463	99.3791462	97.1338435	94.95106536	92.82872498	90.76481766
ADV1018668	9/5/2025	3.682	3/5/2027	103.23561	102.3687665	101.5164946	100.678426	99.85420752	99.04349749	98.24596552	97.46129191	96.68916722
ADV1018137	10/1/2025	3.787	10/2/2028	109.14615	106.6484812	104.2214001	101.8625092	99.56950929	97.34019247	95.17243814	93.06420892	91.0135469
ADV1018700	9/8/2025	3.888	6/8/2026	100.47578	100.3644896	100.2534547	100.1426715	100.032139	99.92185638	99.81182277	99.70203727	99.59249901
ADV1018659	9/5/2025	3.59	9/7/2027	104.94488	103.5692202	102.2182731	100.8914307	99.58810261	98.30771749	97.04972195	95.81357999	94.5987723
ADV1017830	8/4/2025	4.11	6/4/2026	100.4597	100.3593177	100.2591329	100.1591488	100.0593647	99.95978013	99.86039438	99.76120685	99.66221695
ADV1018675	9/5/2025	3.712	3/5/2027	103.2614	102.3944399	101.5420486	100.703862	99.87952673	99.06870135	98.27105537	97.48626903	96.71403289
ADV1018865	9/15/2025	3.787	9/15/2026	101.5225	101.1370668	100.7545759	100.3749894	99.9982741	99.62439746	99.25332731	98.88503202	98.51948039
ADV1018738	9/9/2025	3.64	9/9/2027	105.03113	103.6492454	102.2922746	100.9596026	99.65063229	98.36478553	97.10150267	95.86024165	94.64047736
ADV1018087	8/13/2025	3.756	8/14/2028	108.57275	106.2182866	103.9271617	101.697256	99.52653578	97.41305041	95.35492788	93.35037112	91.39765438
ADV1018458	8/27/2025	3.837	2/26/2027	103.29105	102.4434137	101.6096953	100.7895572	99.98266942	99.18871257	98.40737743	97.63836457	96.88138399
ADV1018165	8/15/2025	4.039	8/14/2026	101.28349	100.9779522	100.6742154	100.3722655	100.0720866	99.77366311	99.47697957	99.18202068	98.88877133
ADV1019988	10/28/2025	3.638	8/1/2029	111.69372	108.3148865	105.0574878	101.9164091	98.88678475	95.96398659	93.14361015	90.42146225	87.79354928
ADV1017930	8/6/2025	3.909	2/8/2027	103.16027	102.3633114	101.5786791	100.8060923	100.0452748	99.29595885	98.55788473	97.83080053	97.11446181

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1018202	8/18/2025	3.963	9/3/2030	116.83393	112.2423912	107.8612052	103.6796324	99.68753584	95.87534485	92.23402022	88.75502215	85.43028016
ADV1017810	8/1/2025	3.852	4/21/2027	103.88458	102.8837763	101.9022905	100.9395641	99.99506224	99.06827048	98.15869349	97.26585425	96.3892933
ADV1017870	8/5/2025	4.058	8/5/2031	120.48141	114.8543114	109.5311119	104.4936768	99.72505636	95.20940054	90.93188112	86.87862017	83.03662376
ADV1019193	9/25/2025	3.866	6/25/2026	100.66196	100.5022217	100.3429855	100.1842494	100.0260112	99.86826839	99.71101874	99.55425991	99.39798958
ADV1018681	9/5/2025	3.69	9/5/2030	115.65254	111.0810478	106.7195516	102.5573136	98.58419558	94.79062611	91.16756644	87.70647794	84.39929199
ADV1017788	8/1/2025	3.863	8/2/2027	104.97497	103.6823542	102.420921	101.1895456	99.98715878	98.81274136	97.66532164	96.5439726	95.4478093
ADV1018125	8/14/2025	3.952	8/14/2026	101.23634	100.9403214	100.6460522	100.3535134	100.0626896	99.77356549	99.48612624	99.20035696	98.91624301
ADV1018311	8/21/2025	3.92	8/21/2029	112.82754	109.3748475	106.0478035	102.8411349	99.74982455	96.76909327	93.89438749	91.12136705	88.44589389
ADV1018496	8/28/2025	4.063	6/29/2026	100.74587	100.573881	100.4024621	100.2316112	100.0613255	99.8916021	99.72243837	99.55383153	99.38577883
ADV1017863	8/5/2025	4.033	8/5/2026	101.13873	100.8681286	100.5989811	100.3312755	100.0650004	99.80014409	99.53669536	99.27464291	99.01397563
ADV1018179	8/15/2025	3.877	8/16/2027	105.1256	103.8011406	102.5044291	101.2345956	99.99080849	98.77227051	97.57821729	96.40791546	95.26066115
ADV1017895	8/5/2025	4.145	8/1/2031	120.62079	115.0106351	109.7025874	104.6786455	99.92198731	95.416882	91.14861257	87.1034048	83.26836133
ADV1019546	10/7/2025	3.711	4/7/2027	103.60063	102.6402092	101.6976123	100.7723488	99.86394323	98.97193743	98.09588977	97.23537433	96.38998025
ADV1019437	10/1/2025	3.671	9/7/2027	105.05697	103.680525	102.3288121	101.0012168	99.69714852	98.41603546	97.15732393	95.92047761	94.70497693
ADV1018089	8/13/2025	4.086	5/13/2026	100.19455	100.1573872	100.1202727	100.0832028	100.0461774	100.0091966	99.97226004	99.93536781	99.89851979
ADV1019161	9/24/2025	3.831	7/28/2026	101.02421	100.7696233	100.5162945	100.2642115	100.0133652	99.76374647	99.51534639	99.26815601	99.02216653
ADV1017883	8/5/2025	3.908	2/5/2027	103.12725	102.3387709	101.5623624	100.7977477	100.0446593	99.30283782	98.5720315	97.85199606	97.14249445
ADV1019101	9/22/2025	3.813	9/22/2026	101.60892	101.2038187	100.8019517	100.4032838	100.007777	99.61539366	99.22609673	98.83984984	98.45661716
ADV1019385	9/30/2025	3.738	9/29/2028	104.93264	103.5943333	102.2858912	101.0063953	99.75496519	98.53075461	97.33294985	96.16076817	95.01345644
ADV1017869	8/5/2025	4.162	8/5/2032	124.1747	117.4144458	111.0781671	105.1368395	99.56357906	94.33347683	89.42344266	84.81206282	80.47946932
ADV1017828	8/4/2025	4.038	8/4/2026	101.12851	100.8607059	100.5943284	100.3293621	100.0657956	99.80361784	99.54281789	99.28338484	99.02530793
ADV1019602	10/9/2025	3.625	10/12/2027	105.39707	103.9198976	102.4709782	101.0495727	99.6549649	98.28646332	96.94339964	95.62512793	94.33102371
ADV1018686	9/5/2025	3.641	3/5/2027	103.25217	102.3845396	101.5315011	100.6926885	99.86774781	99.05633674	98.2581241	97.47278946	96.7000227
ADV1017875	8/5/2025	3.784	8/7/2028	108.56886	106.2335782	103.9607108	101.7481453	99.59386155	97.4959237	95.45247598	93.46173853	91.52200368
ADV1018524	8/29/2025	3.707	2/29/2028	106.8041	104.9283305	103.0949002	101.3026082	99.55029435	97.83683858	96.1611591	94.52221091	92.91898436
ADV1017961	8/7/2025	3.786	8/7/2028	108.57318	106.237834	103.9649014	101.7522722	99.59792617	97.49992753	95.45642043	93.465625	91.52583352
ADV1019116	9/23/2025	3.702	8/18/2027	104.91218	103.5848356	102.2847202	101.0110075	99.76290105	98.53963638	97.34047987	96.16472696	95.01170076
ADV1017840	8/4/2025	4.02	8/4/2026	101.12369	100.855895	100.589526	100.3245681	100.06101	99.79884063	99.538049	99.27862424	99.02055558
ADV1017827	8/4/2025	3.894	2/10/2027	103.17023	102.3676775	101.5776312	100.7997979	100.0338956	99.27965108	98.5367992	97.80508292	97.08425291
ADV1019715	10/15/2025	3.715	10/15/2026	101.81615	101.3465225	100.8812387	100.4202389	99.96346401	99.5108559	99.06235757	98.61791306	98.1774674
ADV1018694	9/26/2025	3.588	9/26/2028	108.59507	106.120865	103.7161859	101.3786868	99.10611633	96.89631199	94.74719624	92.65677254	90.62312166
ADV1018274	8/20/2025	3.819	8/20/2027	105.08646	103.7534791	102.4472556	101.166998	99.91194398	98.68136167	97.47454755	96.29082535	95.12954463
ADV1018085	8/15/2025	3.988	8/17/2026	101.26413	100.9599262	100.6575595	100.3570173	100.0582829	99.76133989	99.46617213	99.17276362	98.88109855

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1018090	10/1/2025	3.795	10/1/2029	112.81825	109.2505214	105.8166258	102.5108237	99.32765559	96.26192439	93.30868125	90.4632123	87.72102622
ADV1019601	10/9/2025	3.714	10/9/2026	101.77931	101.3261668	100.8770672	100.4319588	99.99078851	99.55350396	99.12005384	98.6903877	98.26445601
ADV1018955	9/17/2025	3.638	9/17/2027	105.10035	103.6956001	102.3165475	100.9625423	99.63296026	98.32719751	97.04466958	95.78481072	94.54707312
ADV1018633	9/4/2025	3.774	5/4/2027	103.94226	102.9049296	101.8883329	100.8918486	99.91488359	98.956868	98.01725387	97.09551423	96.19114206
ADV1020066	10/30/2025	3.815	10/21/2030	116.62896	111.9072939	107.4081343	103.1197923	99.03125822	95.13215509	91.41269923	87.863663	84.47634035
ADV1017927	8/6/2025	3.965	8/6/2026	101.14785	100.8742706	100.60218	100.3315656	100.0624151	99.79471678	99.52845873	99.26362929	99.00021692
ADV1018683	9/5/2025	3.816	9/8/2026	101.45757	101.0917858	100.7286509	100.3681329	100.0102033	99.65483432	99.30199843	98.95166852	98.60381786
ADV1019927	10/24/2025	3.621	10/25/2027	105.33856	103.8294258	102.3497757	100.8988181	99.4757913	98.07995969	96.7106132	95.36706594	94.04865518
ADV1019575	10/8/2025	3.609	10/8/2027	105.3379	103.8720127	102.4339653	101.0230348	99.63852029	98.2797447	96.94605351	95.63681399	94.35141427
ADV1018077	8/13/2025	3.783	8/13/2030	116.12435	111.5985609	107.2781363	103.1526126	99.21212326	95.44735712	91.84952366	88.41032091	85.12190538
ADV1018832	9/12/2025	3.975	9/12/2031	120.06841	114.3555656	108.9565395	103.8524054	99.02547689	94.45921679	90.1381569	86.04782362	82.1746692
ADV1017809	8/1/2025	3.809	8/1/2030	116.12467	111.6322878	107.3424139	103.2447514	99.32958574	95.58775268	92.01060299	88.58997044	85.3181416
ADV1019456	10/1/2025	3.654	10/2/2028	108.81873	106.3251357	103.902035	101.5470379	99.25784779	97.03225926	94.86815413	92.76349735	90.71633325
ADV1019348	9/30/2025	3.751	3/30/2029	110.85309	107.8320777	104.9102908	102.0839273	99.34935545	96.70310205	94.14184493	91.66240531	89.26174081
ADV1018540	8/29/2025	3.946	9/15/2026	101.58145	101.1959438	100.8133771	100.4337149	100.0569239	99.68297165	99.31182594	98.94345515	98.5778281
ADV1018549	8/29/2025	3.963	8/31/2026	101.41574	101.0723114	100.7312011	100.3923886	100.0558507	99.72156475	99.38950813	99.05965867	98.73199444
ADV1018459	8/27/2025	3.72	11/29/2027	105.90805	104.2955534	102.7157993	101.1678595	99.6508401	98.16388059	96.70615202	95.27685563	93.87522148
ADV1018977	9/18/2025	3.677	9/20/2027	105.18278	103.7690531	102.3813174	101.018919	99.68122312	98.36761595	97.0775034	95.81031056	94.56548083
ADV1017894	8/5/2025	4.145	8/1/2031	120.62079	115.0106351	109.7025874	104.6786455	99.92198731	95.416882	91.14861257	87.1034048	83.26836133
ADV1019355	9/30/2025	3.816	9/30/2026	101.69771	101.270142	100.8461665	100.4257358	100.0088056	99.59533236	99.18527332	98.77858632	98.37522994
ADV1018682	9/5/2025	3.907	9/5/2031	119.93497	114.2358317	108.8490476	103.7558341	98.93862714	94.3810012	90.06758969	85.98401163	82.11680356
ADV1019128	9/23/2025	3.753	9/25/2029	112.60999	109.0626635	105.6478418	102.3598663	99.19335438	96.14318086	93.20446412	90.37255335	87.64301629
ADV1018300	8/21/2025	3.847	8/21/2028	108.85458	106.477647	104.165062	101.9146877	99.72447442	97.59245406	95.51673596	93.49550351	91.52701059
ADV1019680	10/14/2025	3.557	10/14/2027	105.22436	103.7445609	102.2931492	100.8693758	99.47251945	98.1018837	96.75679554	95.43660455	94.14068195
ADV1018690	9/5/2025	3.513	9/5/2028	108.36092	105.9455839	103.5966926	101.3120554	99.08956477	96.9271944	94.82299583	92.77509482	90.78168814
ADV1018689	9/5/2025	3.749	9/8/2026	101.4547	101.0886791	100.7253071	100.3645566	100.0063992	99.650807	99.29775231	98.94720794	98.59914707
ADV1018126	8/14/2025	4.028	8/14/2026	101.24132	100.9454896	100.651402	100.3590413	100.0683923	99.77943985	99.49216898	99.20656496	98.9226132
ADV1018140	8/14/2025	4.212	8/1/2035	119.31474	113.9538053	108.9361872	104.2360326	99.82965621	95.69534264	91.81316877	88.16484266	84.73355813
ADV1019669	10/14/2025	3.604	10/16/2028	108.8258	106.2939916	103.8348221	101.4457892	99.12449151	96.86862506	94.67597824	92.54442766	90.47193405
ADV1019245	9/26/2025	3.841	9/26/2030	116.51649	111.8664288	107.4323846	103.2031801	99.16827102	95.31771025	91.6421107	88.13261107	84.78084359
ADV1019708	10/15/2025	4.184	10/16/2034	130.88818	121.6478752	113.159027	105.3559046	98.17886942	91.57377839	85.49145063	79.88718898	74.72034967
ADV1017831	8/4/2025	4.034	8/4/2026	101.12743	100.8596368	100.5932612	100.3282967	100.0647321	99.80255624	99.54175814	99.28232693	99.02425185
ADV1019324	9/29/2025	3.658	9/29/2027	105.32427	103.8829318	102.468537	101.0803904	99.71782391	98.38019197	97.0668702	95.77725462	94.51076088

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1018316	8/21/2025	3.778	8/21/2028	108.83745	106.457792	104.1426112	101.8897652	99.69719872	97.56293808	95.48508759	93.46182574	91.49140183
ADV1017876	8/5/2025	3.829	8/5/2027	104.95946	103.6603363	102.3916513	101.1523339	99.94136511	98.75777304	97.6006299	96.46904963	95.36218558
ADV1019754	10/16/2025	3.635	11/16/2026	102.10605	101.5465825	100.9932525	100.445963	99.90461512	99.36911232	98.83936009	98.31526596	97.79673945
ADV1018670	9/5/2025	3.667	9/5/2030	115.55118	110.9818868	106.6225227	102.4623459	98.49122098	94.69957938	91.07838502	87.61910182	84.31366357
ADV1019577	10/8/2025	4.389	10/11/2035	135.62158	125.176648	115.6632855	106.9923301	99.08362124	91.86505028	85.2717128	79.24515407	73.73269711
ADV1018663	9/5/2025	3.587	9/7/2027	104.94075	103.5651198	102.214202	100.8873884	99.58408861	98.30373134	97.04576317	95.80964814	94.59486695
ADV1017852	8/4/2025	4.01	8/4/2028	109.05829	106.725499	104.4548449	102.2442188	100.0916027	97.99506382	95.95274989	93.96288518	92.02376662
ADV1018180	8/15/2025	3.833	8/15/2028	108.76168	106.4022456	104.106335	101.8718211	99.69666692	97.5789182	95.51669938	93.50820966	91.55171952
ADV1019848	10/21/2025	3.695	10/21/2026	101.86939	101.3829236	100.9011138	100.423893	99.95119567	99.48295756	99.01911566	98.55960809	98.10437417
ADV1018737	9/9/2025	3.624	9/9/2027	105.00902	103.6272927	102.2704794	100.9379622	99.62914409	98.34344699	97.08031132	95.83919508	94.61957323
ADV1017867	8/5/2025	4.378	8/7/2034	131.94033	122.8513408	114.4853663	106.7804059	99.68010435	93.133211	87.09309138	81.51728818	76.36712616
ADV1018319	8/21/2025	4.06	8/21/2026	101.33222	101.016751	100.7032549	100.3917158	100.0821154	99.77443542	99.46865802	99.1647655	98.86274037
ADV1019674	10/15/2025	3.68	11/15/2029	112.84377	109.1508158	105.6007785	102.1873314	98.90446418	95.74646584	92.70790757	89.78362733	86.96871507
ADV1018088	8/13/2025	3.756	8/14/2028	108.57275	106.2182866	103.9271617	101.697256	99.52653578	97.41305041	95.35492788	93.35037112	91.39765438
ADV1017834	8/4/2025	4.001	9/4/2026	101.47889	101.124182	100.7719545	100.4221838	100.0748442	99.72991028	99.38735717	99.0471602	98.70929509
ADV1017796	8/1/2025	3.756	8/1/2028	108.58628	106.2643739	104.0042175	101.8037088	99.66083307	97.57366146	95.54034642	93.55911754	91.62827758
ADV1018498	8/28/2025	4.043	7/28/2026	101.08274	100.826966	100.5724498	100.3191853	100.0671632	99.81637457	99.56681023	99.31846127	99.07131883
ADV1018110	8/13/2025	3.755	8/14/2028	108.57043	106.2159885	103.9248905	101.695011	99.52431652	97.41085633	95.35275845	93.34822585	91.39553279
ADV1018688	9/5/2025	3.637	3/5/2027	103.24873	102.3811156	101.528093	100.6892961	99.86437102	99.05297534	98.25477791	97.46945832	96.69670644
ADV1017873	8/5/2025	3.822	8/6/2029	112.35348	108.9500515	105.6692712	102.5059785	99.45526485	96.51245961	93.67311644	90.93300103	88.28807947
ADV1018334	8/22/2025	4.082	6/22/2026	100.66723	100.5152907	100.3638045	100.2127736	100.062196	99.91206954	99.76239223	99.61316203	99.4643769
ADV1018424	8/26/2025	3.735	5/26/2028	107.72083	105.5966571	103.5255322	101.5057769	99.53577511	97.61397393	95.73888051	93.90905935	92.12312955
ADV1019295	9/29/2025	3.815	9/28/2026	101.70805	101.2740152	100.8435867	100.4167238	99.99338227	99.57351882	99.15709074	98.74405604	98.33437342
ADV1019882	10/22/2025	3.542	10/23/2028	108.73448	106.184791	103.7087937	101.3039325	98.96775378	96.69790393	94.49212464	92.34824838	90.2641941
ADV1019962	10/27/2025	3.594	10/29/2027	105.40912	103.8873697	102.395573	100.9329176	99.49862425	98.09194099	96.71214195	95.35852615	94.03041653
ADV1017797	8/1/2025	3.854	9/1/2027	105.25061	103.889531	102.5526334	101.23933	99.94904887	98.68123653	97.43535659	96.21088939	95.00733124
ADV1019446	10/1/2025	3.811	8/11/2026	101.17358	100.8788401	100.5857929	100.2944208	100.0047093	99.71664427	99.43021151	99.14539712	98.86218732
ADV1019387	9/30/2025	3.667	4/26/2027	103.80869	102.7934659	101.7981203	100.8220686	99.86475349	98.92563876	98.00420858	97.09996645	96.2124343
ADV1018143	8/14/2025	3.825	12/18/2028	110.0268	107.3045627	104.6644784	102.1035503	99.61890934	97.20781069	94.86762762	92.59584536	90.39005551
ADV1018532	10/30/2025	3.846	10/30/2026	102.04022	101.5282322	101.021384	100.5195939	100.0227863	99.5308875	99.04382486	98.56152737	98.08392536
ADV1017837	8/4/2025	3.832	8/4/2028	108.53128	106.2069952	103.944605	101.7420156	99.59721711	97.50828482	95.47337405	93.49071635	91.55861555
ADV1019867	10/22/2025	3.638	10/22/2026	101.88103	101.3914031	100.9064907	100.4262264	99.95054333	99.47937611	99.01266046	98.55033335	98.09233295
ADV1017951	8/7/2025	3.83	8/7/2029	112.38956	108.9827711	105.6988282	102.5325666	99.4790705	96.53366211	93.69188797	90.94950676	88.30247763

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1019665	10/14/2025	3.673	10/15/2029	112.52322	108.922243	105.4578101	102.1240085	98.9152101	95.82606029	92.85146309	89.98656725	87.22675309
ADV1018108	8/13/2025	3.798	8/13/2027	104.99375	103.6767955	102.3883094	101.127368	99.89308854	98.68462582	97.5011707	96.34194796	95.20621453
ADV1019421	10/1/2025	3.812	10/1/2026	101.71097	101.2805909	100.8538557	100.4307135	100.0111193	99.59502833	99.18239705	98.7731824	98.3673421
ADV1018495	8/28/2025	4.085	5/28/2026	100.37024	100.2902162	100.2103188	100.1305505	100.0509112	99.97140056	99.89201824	99.81276395	99.73363738
ADV1019682	10/14/2025	3.55	4/14/2027	103.57364	102.5930451	101.6310384	100.6870916	99.76069904	98.85137381	97.95864687	97.08206625	96.22119628
ADV1018685	9/5/2025	4.503	9/8/2037	141.75463	129.087932	117.7412326	107.5674156	98.43656324	90.23386569	82.85779147	76.21848717	70.23637745
ADV1017981	8/8/2025	4.05	8/10/2026	101.20168	100.9170654	100.634062	100.3526574	100.0728379	99.79459006	99.51790056	99.24275625	98.9691441
ADV1017790	8/1/2025	3.888	8/1/2029	112.52279	109.1303539	105.8597231	102.7057652	99.66360213	96.72859396	93.89632487	91.16259084	88.52338787
ADV1019930	10/24/2025	3.719	10/26/2026	101.93349	101.4329375	100.9373061	100.4465221	99.96051466	99.4792142	99.0025525	98.53046265	98.06287903
ADV1017826	8/4/2025	3.897	2/4/2027	103.10803	102.3224219	101.5487947	100.7868771	100.0364047	99.29712063	98.56877598	97.85112897	97.14394497
ADV1019961	10/27/2025	3.663	1/29/2027	102.86201	102.0941333	101.3377201	100.5925178	99.85827822	99.13476079	98.42173173	97.7189641	97.02623742
ADV1018129	8/14/2025	3.917	8/14/2030	116.43854	111.9112373	107.5891828	103.4619334	99.5196368	95.75299408	92.15322575	88.71203955	85.4216006
ADV1018111	8/13/2025	3.865	8/13/2030	116.20317	111.6837004	107.3690698	103.2488593	99.3132358	95.55291913	91.9591476	88.52364605	85.23859593
ADV1019876	10/23/2025	3.649	10/23/2030	115.89409	111.1833768	106.6951122	102.4175974	98.33980805	94.45135476	90.7424427	87.20383461	83.8268161
ADV1019650	10/14/2025	3.645	10/14/2026	101.80077	101.3336322	100.8707985	100.4122056	99.95779501	99.50750965	99.06129328	98.61909074	98.18084784
ADV1018003	8/11/2025	3.852	8/12/2030	116.41507	111.8858349	107.5619267	103.4328928	99.48887149	95.72055598	92.11916024	88.67638663	85.38439586
ADV1019323	9/29/2025	3.743	9/29/2026	101.68095	101.2559147	100.8344265	100.4164455	100.0019279	99.59083082	99.18311211	98.77873023	98.37764433
ADV1018107	8/13/2025	3.991	8/13/2026	101.21895	100.925945	100.6346485	100.3450465	100.0571243	99.77086714	99.48626047	99.20328996	98.92194142
ADV1018684	9/5/2025	4.354	9/5/2035	135.00742	124.6901719	115.2849693	106.7053162	98.87336881	91.7190299	85.17914132	79.19676398	73.72053589
ADV1019497	10/3/2025	3.682	10/3/2028	108.89688	106.3995758	103.9729403	101.6145735	99.32217077	97.09351922	94.92649346	92.81905163	90.76923159
ADV1017871	8/5/2025	3.866	8/5/2030	116.13259	111.6368274	107.3439676	103.2436911	99.32626788	95.58251747	92.00377402	88.5818544	85.30902827
ADV1020040	10/30/2025	3.843	10/30/2026	102.03869	101.5267108	101.0198671	100.5180814	100.0212783	99.5293838	99.04232551	98.56003234	98.08243461
ADV1019379	9/30/2025	3.713	9/30/2027	105.32534	103.8826167	102.4668856	101.0774517	99.71364536	98.37481902	97.06034662	95.76962252	94.50206076
ADV1019054	9/19/2025	3.821	7/20/2026	100.93344	100.701807	100.4712253	100.2416875	100.0131866	99.78571543	99.55926699	99.33383433	99.10941058
ADV1018610	9/3/2025	3.787	8/30/2030	116.02367	111.4610764	107.1072389	102.9515174	98.98386529	95.19479617	91.57535005	88.11706138	84.81192929
ADV1017866	8/5/2025	3.749	8/5/2027	104.93456	103.6343858	102.3646938	101.1244134	99.91252351	98.72805019	97.5700638	96.43767651	95.33004004
ADV1019420	10/1/2025	3.715	10/2/2028	108.9689	106.473437	104.0485107	101.6917278	99.40079028	97.17349178	95.00771296	92.9014177	90.85264928
ADV1018203	8/18/2025	3.886	8/18/2027	105.1563	103.827227	102.525412	101.2500243	100.0002667	98.77537437	97.5746132	96.39727814	95.24269183
ADV1019796	10/20/2025	3.711	10/20/2026	101.86666	101.3829797	100.9039064	100.4293709	99.95930896	99.49365728	99.03235385	98.57533782	98.12254946
ADV1019046	9/19/2025	3.854	6/22/2026	100.62725	100.4760334	100.3252681	100.1749559	100.0250949	99.87568287	99.72671786	99.57819782	99.43012073
ADV1017990	8/8/2025	3.837	8/8/2028	108.70082	106.3612492	104.0842527	101.8677206	99.70962996	97.6080421	95.56109803	93.56701465	91.6240809
ADV1019877	10/24/2025	3.64	8/20/2030	115.28634	110.7672338	106.4539753	102.336076	98.4036393	94.64732368	91.05830805	87.62826002	84.34930613
ADV1018232	8/19/2025	3.817	8/21/2028	108.78453	106.4084421	104.0966792	101.8471095	99.65768374	97.52643422	95.45147082	93.43097738	91.46320824

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1019316	9/29/2025	3.719	9/28/2029	112.73919	109.1756847	105.7456928	102.4434962	99.26365552	96.20099259	93.25057612	90.40770864	87.66791415
ADV1018658	9/5/2025	3.59	9/7/2027	104.94488	103.5692202	102.2182731	100.8914307	99.58810261	98.30771749	97.04972195	95.81357999	94.5987723
ADV1019597	10/9/2025	3.698	10/12/2027	105.41519	103.9393354	102.4916899	101.0715125	99.67808877	98.31072869	96.96876552	95.65155478	94.35847332
ADV1018661	9/5/2025	3.685	3/5/2027	103.23819	102.3713338	101.51905	100.6809696	99.85673944	99.04601787	98.2484745	97.46378962	96.69165378
ADV1019200	9/25/2025	3.765	9/27/2027	105.37222	103.937522	102.5295268	101.1475507	99.7909342	98.4590398	97.15125077	95.86697049	94.60562161
ADV1019419	10/1/2025	3.598	10/1/2027	105.26	103.8136701	102.3944727	101.0017059	99.6346947	98.29278692	96.97535186	95.68177953	94.41147978
ADV1018739	9/9/2025	3.606	9/11/2028	108.49405	106.0632338	103.6996526	101.4010769	99.16536244	96.99044817	94.87435264	92.81517037	90.81106847
ADV1019298	9/29/2025	3.763	9/30/2030	115.42906	111.0645858	106.9016495	102.9297419	99.13896316	95.51998171	92.06399817	88.76271218	85.60829139
ADV1018678	9/5/2025	3.624	9/7/2027	104.99169	103.6156914	102.2644123	100.9372435	99.63359455	98.35289393	97.0945881	95.85814092	94.64303295
ADV1019687	10/14/2025	3.517	10/16/2028	108.76245	106.2282116	103.766748	101.3755522	99.05221652	96.79443066	94.59997726	92.46672746	90.39263679
ADV1019423	10/1/2025	3.699	10/1/2026	101.68797	101.2573553	100.8303844	100.4070123	99.9871938	99.57088422	99.15803971	98.74861715	98.3425741
ADV1018283	8/20/2025	3.954	8/20/2026	101.30599	100.9931428	100.6822418	100.3732681	100.0662038	99.76103091	99.45773205	99.15628983	98.85668715
ADV1019370	9/30/2025	3.828	9/30/2026	101.70281	101.2752318	100.8512434	100.4307999	100.013857	99.6003711	99.19029949	98.78359999	98.38023119
ADV1019317	9/29/2025	3.692	3/29/2027	103.54341	102.6075226	101.6885675	100.7860841	99.89963216	99.02878707	98.17313903	97.33229252	96.50586565
ADV1019983	10/28/2025	3.777	9/15/2026	101.54463	101.1497216	100.7578281	100.3689172	99.9829549	99.59990764	99.21974241	98.84242664	98.46792831
ADV1020087	10/31/2025	3.793	10/30/2026	102.07256	101.5464674	101.0256748	100.5101004	99.99966605	99.49429542	98.99391348	98.49844675	98.00782316
ADV1018426	8/26/2025	3.778	5/25/2029	111.48528	108.2987022	105.2214004	102.2489917	99.3772981	96.60233415	93.92029636	91.32755393	88.82063971
ADV1018133	8/14/2025	3.855	8/16/2027	105.09681	103.7725575	102.4760465	101.2064107	99.96281832	98.74447224	97.55060814	96.38049272	95.23342215
ADV1018664	9/5/2025	3.554	9/5/2028	108.31194	105.900194	103.5547461	101.2734068	99.0540748	96.89473	94.79342971	92.74830517	90.7575584
ADV1017799	8/1/2025	3.848	10/1/2027	105.53329	104.0863254	102.6664756	101.2730451	99.90535977	98.56276792	97.2446395	95.95036507	94.67935501
ADV1018139	8/14/2025	4.142	5/14/2026	100.20898	100.1689453	100.1289608	100.0890255	100.0491393	100.0093021	99.96951383	99.92977433	99.89008354
ADV1018831	9/12/2025	3.968	8/29/2031	119.91306	114.2438632	108.8840797	103.8151631	99.01977365	94.4816921	90.18574193	86.11771707	82.26431515
ADV1019500	10/3/2025	3.592	10/4/2027	105.27777	103.8231788	102.3960179	100.9955789	99.62117592	98.27214609	96.94784865	95.64766394	94.3709926
ADV1019778	10/17/2025	3.521	4/19/2027	103.59439	102.5997761	101.6242784	100.6673471	99.72845515	98.80709548	97.90277983	97.01503796	96.14341677
ADV1019509	10/3/2025	3.693	10/3/2028	108.92399	106.4263472	103.9993816	101.6406921	99.34797357	97.11901298	94.95168473	92.84394678	90.79383681
ADV1019744	10/16/2025	3.723	10/16/2026	101.83011	101.3576737	100.8896291	100.4259189	99.96648299	99.51126223	99.06019863	98.61323524	98.17031618
ADV1019346	9/30/2025	3.72	9/29/2028	108.94764	106.4606431	104.0437238	101.6945106	99.41072766	97.19018941	95.03079635	92.9305311	90.88745467
ADV1018536	11/28/2025	3.808	11/30/2026	102.34866	101.7494745	101.1573015	100.5720174	99.99350259	99.4216402	98.85631596	98.29741823	97.74483791
ADV1018717	11/3/2025	3.552	11/1/2028	108.84611	106.2704769	103.7699524	101.3419029	98.98380549	96.69324129	94.46789019	92.30552627	90.20401331
ADV1018537	12/31/2025	3.758	12/31/2026	102.63617	101.9497922	101.272593	100.604388	99.94499888	99.29425201	98.65197831	98.01801306	97.39219579
ADV1020578	11/24/2025	3.803	8/31/2026	101.38494	101.0343057	100.6860503	100.3401458	99.99656844	99.65529497	99.3163023	98.97956769	98.6450687
ADV1021164	12/19/2025	3.515	12/20/2027	105.87386	104.202847	102.5665576	100.9639796	99.39413628	97.85608857	96.34893336	94.87180161	93.42385679
ADV1021186	12/19/2025	3.58	1/5/2028	106.03068	104.3166875	102.6389183	100.9962903	99.38776371	97.81233968	96.26905857	94.75699789	93.27527048

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1020257	11/7/2025	3.811	10/30/2026	102.04967	101.5243379	101.0042872	100.4894426	99.97972648	99.47506248	98.97537594	98.4805936	97.99064365
ADV1020243	11/7/2025	3.976	6/1/2032	122.49562	115.9680837	109.8406668	104.0865954	98.68102592	93.60089773	88.82479631	84.33282706	80.10649968
ADV1021000	12/12/2025	3.6	12/14/2026	102.40218	101.7634088	101.1326237	100.5096712	99.89440582	99.2866856	98.68637208	98.09333015	97.50742803
ADV1020984	12/12/2025	3.785	6/12/2026	100.49385	100.3723907	100.2512338	100.1303798	100.0098276	99.88957618	99.76962422	99.64997061	99.5306142
ADV1021424	12/30/2025	3.65	1/31/2029	109.97781	107.136001	104.3830334	101.7155379	99.13029535	96.62423248	94.19441452	91.83803756	89.55242161
ADV1021430	12/30/2025	3.621	12/30/2026	102.53301	101.8498059	101.1756989	100.5105129	99.85407143	99.206203	98.56674041	97.93552082	97.31238556
ADV1020606	11/28/2025	3.691	1/29/2027	102.8832	102.1152299	101.3587278	100.6134374	99.87911084	99.15550733	98.44239315	97.73954131	97.04673133
ADV1021128	12/18/2025	3.735	6/17/2026	100.54128	100.4057531	100.2705982	100.135817	100.0014079	99.86736945	99.73370002	99.60039804	99.46746197
ADV1021435	12/30/2025	3.553	12/30/2027	105.92726	104.2304175	102.569191	100.9425201	99.34939102	97.78882936	96.25989867	94.76169836	93.29336202
ADV1020204	11/5/2025	3.658	11/5/2027	105.66997	104.1251756	102.6110583	101.1267758	99.67152041	98.24451319	96.84500249	95.47226293	94.12559413
ADV1020526	11/21/2025	3.667	5/21/2027	104.0018	102.9168407	101.8545512	100.814222	99.79517632	98.7967653	97.81836609	96.85938071	95.91923482
ADV1021438	12/30/2025	3.571	6/30/2028	107.71617	105.4940869	103.3292978	101.219918	99.16413623	97.16021554	95.20648946	93.30135855	91.44328709
ADV1021325	12/29/2025	3.607	2/26/2027	103.09769	102.2509529	101.4181259	100.5988689	99.79285192	98.99975587	98.21927169	97.45110016	96.69495145
ADV1021268	12/23/2025	3.746	5/26/2026	100.302	100.2287676	100.1556478	100.0826422	100.0097506	99.93697277	99.86430834	99.79175711	99.7193188
ADV1020314	11/12/2025	3.93	5/12/2026	100.16227	100.1283454	100.0944576	100.0606097	100.0268015	99.99303295	99.959304	99.92561456	99.89196456
ADV1020241	11/7/2025	3.58	11/8/2027	105.57874	104.0262595	102.5046938	101.013196	99.55094803	98.11716107	96.7110742	95.3319532	93.97908933
ADV1020813	12/4/2025	3.817	6/4/2026	100.41023	100.311339	100.2126462	100.1141511	100.0158531	99.91775159	99.81984596	99.72213561	99.62461994
ADV1021405	12/30/2025	3.71	10/20/2026	101.88341	101.3902864	100.9018682	100.4180897	99.93888496	99.46418932	98.99393925	98.52807243	98.06652772
ADV1020250	11/7/2025	3.588	5/8/2028	107.36929	105.2955135	103.2728244	101.2996324	99.3744091	97.49568473	95.66204485	93.87212815	92.12462392
ADV1020860	12/8/2025	3.747	12/8/2026	102.39689	101.7752938	101.1612543	100.5546333	99.95529675	99.36311372	98.77795653	98.19970046	97.62822376
ADV1020477	11/19/2025	3.797	11/19/2026	102.22761	101.6594024	101.0975176	100.5418546	99.99231023	99.44878363	98.91117616	98.37939132	97.85333471
ADV1021085	12/16/2025	3.634	12/16/2026	102.40484	101.7609867	101.1252419	100.4974526	99.87746985	99.26514848	98.6603468	98.06292664	97.47275322
ADV1021315	12/26/2025	3.514	11/15/2027	105.54094	103.9691398	102.4288509	100.9192025	99.43935124	97.98848475	96.56581956	95.17060011	93.80209742
ADV1021245	12/23/2025	3.758	5/19/2026	100.22629	100.1728062	100.1193945	100.066056	100.0127904	99.95959761	99.90647748	99.85342984	99.80045455
ADV1020652	11/26/2025	3.581	11/27/2028	109.17294	106.5197308	103.945387	101.4470827	99.02211004	96.66787589	94.38189624	92.16179071	90.00527753
ADV1020944	12/11/2025	3.598	12/11/2026	102.37117	101.7408453	101.1182981	100.503381	99.89595399	99.29588056	98.7030275	98.11726481	97.53846559
ADV1021322	12/29/2025	3.607	2/26/2027	103.09769	102.2509529	101.4181259	100.5988689	99.79285192	98.99975587	98.21927169	97.45110016	96.69495145
ADV1020608	11/28/2025	3.691	1/29/2027	102.8832	102.1152299	101.3587278	100.6134374	99.87911084	99.15550733	98.44239315	97.73954131	97.04673133
ADV1020374	11/14/2025	3.998	3/12/2032	121.9936	115.7062644	109.7920149	104.2266827	98.98778395	94.05439597	89.4070412	85.02758038	80.89911414
ADV1021298	12/24/2025	3.54	12/24/2027	105.9522	104.2696531	102.6222197	101.0088678	99.42860457	97.88047586	96.36356413	94.87698672	93.4198942
ADV1020313	11/13/2025	3.714	10/5/2029	112.57311	108.998641	105.558695	102.2474899	99.05952121	95.98954975	93.03258736	90.18388355	87.43891281
ADV1021086	12/16/2025	3.605	6/16/2027	104.19241	103.0340811	101.9015422	100.7939342	99.71043963	98.65027638	97.61269595	96.59698155	95.60244647
ADV1020144	11/3/2025	3.818	11/1/2030	116.74662	111.9920217	107.4628395	103.1471595	99.03376294	95.11208004	91.37214914	87.80457836	84.40051004

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1020616	11/25/2025	3.508	11/27/2028	109.14364	106.4873412	103.9100742	101.4090022	98.98140961	96.62469601	94.33637048	92.11404613	89.95543502
ADV1020537	11/21/2025	3.946	5/21/2026	100.26492	100.2055434	100.1462525	100.087046	100.0279238	99.96888569	99.90993144	99.85106089	99.79227388
ADV1020936	12/11/2025	3.605	12/13/2027	105.85761	104.207469	102.5913397	101.0082373	99.45721464	97.93736096	96.44779969	94.98768701	93.55621023
ADV1020609	11/28/2025	3.691	1/29/2027	102.8832	102.1152299	101.3587278	100.6134374	99.87911084	99.15550733	98.44239315	97.73954131	97.04673133
ADV1021299	12/24/2025	3.54	12/24/2027	105.9522	104.2696531	102.6222197	101.0088678	99.42860457	97.88047586	96.36356413	94.87698672	93.4198942
ADV1020375	11/14/2025	4.068	11/12/2032	124.35495	117.3127652	110.7294122	104.5723817	98.81163943	93.4194224	88.37005514	83.63978249	79.20661641
ADV1021414	12/30/2025	3.714	6/30/2026	100.67727	100.5050654	100.3334347	100.1623799	99.99189805	99.82198633	99.65264191	99.48386198	99.31564374
ADV1020248	11/7/2025	3.859	7/31/2026	101.05838	100.7962785	100.5355104	100.276061	100.0179203	99.7610784	99.5055256	99.25125224	98.99824878
ADV1020249	11/7/2025	3.859	7/31/2026	101.05838	100.7962785	100.5355104	100.276061	100.0179203	99.7610784	99.5055256	99.25125224	98.99824878
ADV1021214	12/22/2025	3.65	12/22/2026	102.47415	101.8133686	101.1611197	100.5172372	99.88156067	99.25393383	98.63420421	98.02222323	97.417846
ADV1021029	12/15/2025	3.693	11/16/2026	102.13874	101.5791615	101.0257236	100.4783271	99.93687304	99.40126497	98.87140833	98.34721064	97.8285814
ADV1021446	12/30/2025	3.485	12/30/2027	105.91512	104.216605	102.5537641	100.9255404	99.33091757	97.76891889	96.2386057	94.73907531	93.2694593
ADV1021437	12/30/2025	3.561	6/30/2027	104.27654	103.0788214	101.9086295	100.7650247	99.64710819	98.55402101	97.48494224	96.43908678	95.41570344
ADV1020628	11/25/2025	3.913	5/26/2026	100.31909	100.2455892	100.172199	100.0989234	100.0257622	99.95271515	99.87978198	99.80696241	99.73425618
ADV1021328	12/29/2025	3.607	2/26/2027	103.09769	102.2509529	101.4181259	100.5988689	99.79285192	98.99975587	98.21927169	97.45110016	96.69495145
ADV1020277	11/10/2025	3.83	11/10/2028	109.64739	107.0359911	104.501191	102.0402837	99.65067706	97.32988689	95.0755315	92.88532681	90.7570817
ADV1020315	11/12/2025	3.774	11/12/2026	102.14239	101.5939173	101.0513465	100.5145816	99.98352955	99.4580994	98.93820197	98.42375	97.91465807
ADV1020199	11/5/2025	3.976	5/5/2026	100.08435	100.0702099	100.0560832	100.0419703	100.0278713	100.0137861	99.99971467	99.98565702	99.97161312
ADV1020251	11/7/2025	3.859	7/31/2026	101.05838	100.7962785	100.5355104	100.276061	100.0179203	99.7610784	99.5055256	99.25125224	98.99824878
ADV1021316	12/26/2025	3.67	12/18/2026	102.44674	101.7972093	101.155925	100.5227326	99.8974794	99.28001651	98.6701987	98.06788437	97.47293539
ADV1020749	12/2/2025	3.625	12/2/2027	105.78728	104.1675803	102.5808799	101.0262339	99.50273796	98.00952112	96.54574483	95.11060122	93.70331167
ADV1020246	11/7/2025	4.313	11/6/2035	135.10428	124.6120943	115.0626003	106.3649279	98.43745177	91.20680227	84.60699046	78.57862971	73.06824312
ADV1020727	12/1/2025	3.821	9/30/2026	101.72317	101.2861132	100.8527318	100.4229832	99.99682196	99.57420335	99.15508348	98.73941911	98.32716774
ADV1020440	11/18/2025	3.725	11/18/2026	102.21029	101.6445001	101.0849848	100.5316413	99.98436754	99.44306385	98.9076327	98.37797869	97.85400847
ADV1020618	11/25/2025	3.581	11/27/2028	109.17294	106.5197308	103.945387	101.4470827	99.02211004	96.66787589	94.38189624	92.16179071	90.00527753
ADV1020810	12/4/2025	3.817	6/4/2026	100.41023	100.311339	100.2126462	100.1141511	100.0158531	99.91775159	99.81984596	99.72213561	99.62461994
ADV1020316	11/12/2025	3.672	11/12/2027	105.66583	104.1029851	102.5713568	101.0700843	99.5983368	98.15531347	96.74024203	95.35237743	93.99100069
ADV1020223	11/6/2025	3.719	5/6/2027	103.906	102.8633102	101.8415679	100.8401501	99.8584543	98.89590139	97.9519349	97.0260197	96.11764107
ADV1021266	12/23/2025	3.669	12/26/2028	109.6854	106.9458665	104.2895552	101.7134037	99.21448622	96.79000508	94.43728373	92.1537607	89.93698372
ADV1020862	12/8/2025	3.704	12/8/2028	109.60612	106.9168751	104.3082067	101.7771978	99.32105681	96.93711211	94.62280558	92.37568711	90.19340923
ADV1021083	12/16/2025	3.708	9/16/2026	101.52119	101.125559	100.732976	100.3434021	99.9568026	99.5731435	99.19239123	98.81451275	98.43947551
ADV1021302	12/24/2025	3.54	12/24/2027	105.9522	104.2696531	102.6222197	101.0088678	99.42860457	97.88047586	96.36356413	94.87698672	93.4198942
ADV1020888	12/9/2025	3.863	12/9/2030	117.3131	112.4379597	107.7981113	103.3808894	99.17438453	95.16739014	91.34935721	87.71035181	84.24101581

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1021249	12/23/2025	3.731	9/30/2026	101.68106	101.2452845	100.8131785	100.3846946	99.9597875	99.53841262	99.12052618	98.70608507	98.29504692
ADV1021205	12/22/2025	3.639	12/29/2026	102.53628	101.8558436	101.1844328	100.5218731	99.86799036	99.22261481	98.58558119	97.95672846	97.33589969
ADV1020965	12/11/2025	3.711	9/11/2026	101.46913	101.0876999	100.7090986	100.3332957	99.96026017	99.58996135	99.22236915	98.85745389	98.49518631
ADV1021053	12/15/2025	3.732	7/15/2026	100.84558	100.630396	100.4161332	100.2027843	99.99034331	99.77880447	99.56816191	99.35840988	99.14954265
ADV1021084	12/16/2025	4.68	12/16/2030	121.20662	116.2221136	111.4778155	106.9607857	102.6588563	98.56057937	94.65517996	90.93251263	87.38302112
ADV1020255	11/7/2025	3.841	8/31/2026	101.40076	101.0494112	100.7004423	100.353829	100.0095478	99.66757515	99.32788796	98.99046346	98.65527916
ADV1020463	11/19/2025	4.051	11/19/2032	124.29852	117.2382537	110.6391739	104.4685287	98.69606238	93.29381256	88.23592464	83.49848236	79.05935274
ADV1021178	12/19/2025	3.554	12/21/2026	102.4409	101.7825231	101.1326202	100.4910271	99.85758481	99.23213855	98.61453734	98.00463399	97.402285
ADV1020947	12/11/2025	3.642	6/11/2027	104.18605	103.0416553	101.9224294	100.8275515	99.75623257	98.70771728	97.68128242	96.67623506	95.69191102
ADV1020178	11/4/2025	3.622	11/4/2027	105.60474	104.0632875	102.5524092	101.071275	99.61908114	98.19505222	96.79844005	95.42852247	94.08460223
ADV1021327	12/29/2025	3.607	2/26/2027	103.09769	102.2509529	101.4181259	100.5988689	99.79285192	98.99975587	98.21927169	97.45110016	96.69495145
ADV1020373	11/14/2025	3.713	11/12/2027	105.7295	104.166141	102.6340109	101.1322452	99.66001293	98.2165131	96.80097315	95.41264784	94.05081799
ADV1020176	11/4/2025	3.625	11/4/2027	105.60936	104.0678663	102.5569516	101.0757819	99.62355301	98.19948968	96.80284369	95.43289286	94.08893993
ADV1021329	12/29/2025	3.606	2/26/2027	103.09685	102.2501173	101.4172942	100.5980409	99.79202763	98.99893526	98.21845472	97.45028679	96.69414163
ADV1020467	11/19/2025	3.715	5/19/2027	104.03312	102.9535449	101.8964088	100.8610168	99.8467021	98.85282517	97.87877205	96.92395321	95.98780229
ADV1021169	12/19/2025	3.748	6/1/2026	100.36824	100.2780219	100.1879606	100.0980598	100.0083188	99.91873744	99.82931516	99.74005157	99.65094627
ADV1020464	11/19/2025	4.344	11/19/2035	135.50143	124.9542941	115.3574029	106.6189055	98.65631472	91.3955104	84.76984977	78.71937666	73.19011793
ADV1020247	11/7/2025	3.764	11/1/2030	115.78759	111.2431664	106.9133541	102.7867546	98.85263898	95.10090548	91.52203915	88.1070744	84.84756022
ADV1020617	11/25/2025	3.601	11/26/2027	105.68812	104.0858482	102.5160242	100.9777287	99.4700797	97.99222809	96.54335566	95.12267387	93.72942248
ADV1020391	11/18/2025	3.964	5/18/2026	100.23197	100.1810691	100.1302382	100.0794755	100.0287809	99.97815411	99.92759508	99.87710367	99.82667972
ADV1020967	12/11/2025	3.752	6/18/2026	100.55558	100.4171015	100.2790149	100.1413171	100.0040064	99.86708099	99.73053935	99.59437979	99.45860067
ADV1020567	11/24/2025	3.601	10/25/2028	108.9014	106.3441495	103.8609504	101.4492271	99.10650923	96.83042749	94.61870863	92.46917095	90.37972002
ADV1020457	11/19/2025	3.657	11/20/2028	109.30233	106.6671644	104.109907	101.6277825	99.21813146	96.8784065	94.60616656	92.39907166	90.25487809
ADV1020861	12/8/2025	3.69	12/8/2027	105.94965	104.3122924	102.7085011	101.1373111	99.59779447	98.08905802	96.6102421	95.16051885	93.73909072
ADV1021439	12/30/2025	3.55	12/30/2027	105.92218	104.2253849	102.564202	100.9375739	99.34448684	97.78396644	96.25507629	94.75691583	93.28861866
ADV1021215	12/22/2025	3.808	12/11/2030	117.0728	112.1976565	107.5581015	103.1414427	98.93574299	94.92977065	91.1129536	87.47533692	84.00754335
ADV1020653	11/26/2025	3.676	11/26/2030	116.32337	111.5071086	106.9221235	102.5560375	98.39720572	94.43466649	90.65809698	87.05777255	83.62452881
ADV1020990	12/12/2025	4.112	12/13/2032	124.89619	117.7495235	111.0732993	104.8338456	99.00007939	93.54329292	88.43695974	83.65655783	79.17940792
ADV1020909	12/10/2025	3.815	6/10/2026	100.4757	100.3598717	100.2443162	100.1290365	100.0140317	99.89930052	99.78484213	99.67065547	99.55673953
ADV1020806	12/4/2025	3.761	12/4/2030	116.79331	111.9439598	107.3282437	102.933613	98.74826514	94.76109241	90.96163717	87.34005016	83.88705172
ADV1020542	11/21/2025	3.623	11/22/2027	105.68516	104.0941277	102.5351831	101.0074294	99.5099994	98.04205793	96.60279996	95.19144949	93.80725814
ADV1020671	11/28/2025	3.604	11/29/2030	116.31278	111.4793026	106.8785117	102.4979284	98.32581142	94.35110945	90.56341704	86.95293309	83.51042248
ADV1020256	11/7/2025	3.811	10/30/2026	102.04967	101.5243379	101.0042872	100.4894426	99.97972648	99.47506248	98.97537594	98.4805936	97.99064365

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1020923	12/10/2025	3.811	6/10/2026	100.47523	100.3593965	100.2438434	100.128566	100.0135634	99.89883453	99.78437841	99.67019401	99.55628033
ADV1021434	12/30/2025	3.621	12/30/2026	102.53301	101.8498059	101.1756989	100.5105129	99.85407143	99.206203	98.56674041	97.93552082	97.31238556
ADV1021241	12/23/2025	3.586	6/23/2027	104.30859	103.1290494	101.9762075	100.8491682	99.74707163	98.66909574	97.61445427	96.58239485	95.57219712
ADV1020678	11/28/2025	3.585	11/28/2028	109.19299	106.5366957	103.959416	101.4583171	99.03068405	96.67391674	94.38552465	92.1631213	90.00441915
ADV1020945	12/11/2025	3.598	12/11/2026	102.37117	101.7408453	101.1182981	100.503381	99.89595399	99.29588056	98.7030275	98.11726481	97.53846559
ADV1021165	12/19/2025	3.549	12/19/2028	109.4629	106.7419004	104.103205	101.5438065	99.06082514	96.65150616	94.31321354	92.04342383	89.83972056
ADV1021177	12/19/2025	3.736	6/22/2026	100.59567	100.4459702	100.2967203	100.147919	99.9995643	99.85165409	99.70418639	99.5571592	99.4105705
ADV1020547	11/21/2025	3.55	11/22/2027	105.66579	104.0732829	102.512927	100.9838153	99.4850785	98.01587938	96.57541112	95.16289593	93.77758376
ADV1020561	11/24/2025	3.913	5/26/2026	100.31924	100.2457317	100.1723336	100.0990502	100.0258813	99.95282641	99.87988546	99.80705813	99.73434416
ADV1020533	11/21/2025	4.317	1/15/2036	135.68001	124.96874	115.2358515	106.3854889	98.33170782	90.99739913	84.31333616	78.21732973	72.65347766
ADV1020300	11/12/2025	3.802	10/7/2026	101.79403	101.3358865	100.8817887	100.4316822	99.98551473	99.54323454	99.10479096	98.67013419	98.23921526
ADV1020208	11/5/2025	3.772	11/5/2026	102.1004	101.5711531	101.0473998	100.5290535	100.0160306	99.50824932	99.00562951	98.50809263	98.01556175
ADV1020210	11/5/2025	3.712	5/5/2027	103.95091	102.9098482	101.8896598	100.889723	99.90943853	98.94823075	98.00554619	97.08085267	96.17363823
ADV1020964	12/11/2025	3.759	6/11/2026	100.47981	100.3611902	100.2428577	100.1248145	100.0070595	99.88959153	99.77240958	99.65551254	99.53889933
ADV1020849	12/8/2025	3.787	9/8/2026	101.4653	101.092182	100.7217692	100.3540316	99.98894026	99.62646658	99.26658243	98.90926005	98.55447211
ADV1021210	12/22/2025	3.649	12/22/2026	102.47349	101.8127148	101.1604682	100.5165881	99.88091399	99.25328948	98.63356218	98.02158349	97.41720854
ADV1020462	11/19/2025	3.81	11/18/2026	102.22439	101.658975	101.0998251	100.5468372	99.9999098	99.45894331	98.9238405	98.39450621	97.87084733
ADV1021410	12/30/2025	3.697	11/18/2026	102.1595	101.5943396	101.0354458	100.4827117	99.93603552	99.39531794	98.8604617	98.33137169	97.80795482
ADV1020254	11/7/2025	3.838	8/31/2026	101.39971	101.0483732	100.6994127	100.3528078	100.0085348	99.66657035	99.32689131	98.98947491	98.65429865
ADV1020372	11/14/2025	3.725	8/13/2027	104.8982	103.5819059	102.2940694	101.033767	99.80011609	98.59227182	97.40942531	96.2508016	95.11565786
ADV1020530	11/21/2025	3.672	5/21/2027	104.00716	102.9221761	101.8598562	100.819497	99.80042179	98.80198167	97.82355376	96.86454008	95.92436629
ADV1021145	12/18/2025	3.68	10/20/2026	101.87062	101.3770217	100.8881381	100.4038986	99.92423732	99.44908939	98.97839126	98.51208057	98.0500961
ADV1020346	11/13/2025	3.737	11/13/2030	116.78135	111.9828922	107.4135038	103.0609943	98.91389156	94.96139176	91.19331718	87.60007635	84.1726271
ADV1021047	12/15/2025	3.624	6/15/2028	107.68579	105.5061874	103.382016	101.3114788	99.29285056	97.32447557	95.40476385	93.53218821	91.70528114
ADV1021306	12/24/2025	3.537	12/24/2027	105.94717	104.2646668	102.6172762	101.0039663	99.42374437	97.87565621	96.35878433	94.87224608	93.41519205
ADV1021415	12/30/2025	3.674	12/16/2026	102.42889	101.7849979	101.1492101	100.5213778	99.90135211	99.28898771	98.68414299	98.0866798	97.49646336
ADV1020541	11/21/2025	3.672	5/21/2027	104.00716	102.9221761	101.8598562	100.819497	99.80042179	98.80198167	97.82355376	96.86454008	95.92436629
ADV1020465	11/19/2025	4.49	11/19/2037	142.03884	129.1622375	117.6477634	107.3413063	98.10704726	89.82519968	82.39003786	75.70817705	69.69707173
ADV1020386	11/17/2025	3.804	11/17/2026	102.21062	101.6480268	101.0916406	100.5413567	99.99707493	99.45869727	98.92612781	98.39927271	97.87804017
ADV1021423	12/30/2025	3.561	12/30/2027	105.94079	104.2438375	102.5824949	100.95571	99.36246886	97.80179715	96.27275833	94.77445177	93.30601101
ADV1020576	11/24/2025	3.912	5/29/2026	100.3533	100.2712826	100.1893988	100.1076497	100.026035	99.94455431	99.86320743	99.78199399	99.70091367
ADV1020729	12/1/2025	3.768	12/31/2026	102.64699	101.9605832	101.2833504	100.6151122	99.95569013	99.30491071	98.66260481	98.02860769	97.40275889
ADV1020278	11/10/2025	3.72	11/10/2026	102.1246	101.5813552	101.0439003	100.5121431	99.98599322	99.46536206	98.95016292	98.4403109	97.93572288

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1020252	11/7/2025	3.838	8/31/2026	101.39971	101.0483732	100.6994127	100.3528078	100.0085348	99.66657035	99.32689131	98.98947491	98.65429865
ADV1021448	12/30/2025	3.711	6/30/2026	100.67675	100.5045454	100.3329172	100.161865	99.99138565	99.82147646	99.65213456	99.48335714	99.31514141
ADV1020245	11/7/2025	3.724	1/14/2030	113.58016	109.7076496	105.9903717	102.4211908	98.99334705	95.70043143	92.53636562	89.4953825	86.57200814
ADV1020748	12/2/2025	3.672	6/2/2027	104.13076	103.0117262	101.9167612	100.8450982	99.79599873	98.76875513	97.76268912	96.77715022	95.81151438
ADV1020441	11/18/2025	3.625	11/18/2027	105.74577	104.1638327	102.6137055	101.0944986	99.60535685	98.14545673	96.7140042	95.31023368	93.93340665
ADV1020305	11/12/2025	3.703	7/25/2029	111.84407	108.4819633	105.240077	102.1133707	99.0970472	96.18654246	93.37751218	90.66581972	88.0475245
ADV1021115	12/17/2025	3.506	12/17/2027	105.83106	104.1685604	102.5404989	100.945875	99.38372397	97.85311802	96.35316469	94.88300507	93.44181219
ADV1020538	11/21/2025	3.738	11/23/2026	102.23547	101.6561193	101.0833402	100.5170225	99.95705703	99.40333727	98.855759	98.3142203	97.77862153
ADV1021163	12/19/2025	3.63	12/21/2026	102.45156	101.7936423	101.1441883	100.5030315	99.8700132	99.24497906	98.62777845	98.01826452	97.41629412
ADV1021079	12/16/2025	3.63	12/17/2026	102.41216	101.7655019	101.1270188	100.4965593	99.87397255	99.25911144	98.65183257	98.05199605	97.45946542
ADV1020624	11/25/2025	3.717	11/25/2026	102.24329	101.6583516	101.0801149	100.5084603	99.94327587	99.38445202	98.83188174	98.28546038	97.74508563
ADV1021137	12/18/2025	3.55	12/18/2026	102.40894	101.7590171	101.1173536	100.4837942	99.85818583	99.2403792	98.63022874	98.0275925	97.43233203
ADV1021413	12/30/2025	3.759	5/29/2026	100.33485	100.2531941	100.1716754	100.0902908	100.00904	99.92792272	99.8469386	99.76608732	99.68536856
ADV1020244	11/7/2025	3.729	3/1/2030	114.06307	110.0469647	106.1966405	102.5043901	98.96290671	95.56525875	92.30486854	89.17549246	86.17120227
ADV1021447	12/30/2025	3.485	12/30/2027	105.91512	104.216605	102.5537641	100.9255404	99.33091757	97.76891889	96.2386057	94.73907531	93.2694593
ADV1020607	11/28/2025	3.691	1/29/2027	102.8832	102.1152299	101.3587278	100.6134374	99.87911084	99.15550733	98.44239315	97.73954131	97.04673133
ADV1020577	11/24/2025	3.873	6/30/2026	100.7104	100.5373957	100.3649772	100.1931371	100.0218726	99.85118089	99.68105908	99.51150434	99.34251387
ADV1021431	12/30/2025	3.595	12/30/2027	103.35241	102.4229274	101.5105405	100.6147664	99.73514323	98.87122659	98.0225888	97.18881809	96.36951783
ADV1020633	11/25/2025	3.913	5/26/2026	100.31909	100.2455892	100.172199	100.0989234	100.0257622	99.95271515	99.87978198	99.80696241	99.73425618
ADV1021068	12/16/2025	3.561	12/16/2026	102.39633	101.7520187	101.1158293	100.4876077	99.86720445	99.25447408	98.64927457	98.05146741	97.46091749
ADV1021240	12/23/2025	3.614	12/23/2026	102.49917	101.835028	101.1795051	100.5324309	99.89364271	99.26298181	98.64029359	98.02542734	97.41823615
ADV1015802	1/20/2026	3.971	1/29/2027	103.09767	102.3288048	101.5714164	100.8252488	100.0900537	99.36559024	98.65162461	97.94792965	97.25428476
ADV1018220	2/18/2026	3.812	2/18/2027	103.18715	102.3622226	101.5505006	100.7516693	99.9654231	99.19146583	98.42951072	97.67927979	96.94050362
ADV1017924	2/6/2026	3.689	2/7/2028	106.54423	104.7347789	102.9650935	101.2339731	99.54026031	97.88284406	96.26065675	94.67267225	93.11790387
ADV1018221	2/18/2026	3.758	2/18/2028	106.78371	104.9400645	103.1374791	101.3747548	99.65073323	97.96429894	96.3143775	94.69993362	93.1199694
ADV1017926	2/6/2026	3.737	2/6/2029	110.28909	107.4247886	104.6504786	101.9627605	99.35838489	96.8342476	94.3873825	92.01495401	89.71425035
ADV1021108	2/2/2026	3.814	1/31/2031	117.55985	112.5328212	107.7547352	103.2118419	98.89122992	94.78077229	90.8690737	87.14542196	83.59974285
ADV1020987	3/26/2026	3.639	3/27/2028	106.93596	104.9856326	103.0808892	101.220386	99.40283126	97.62697907	95.89162809	94.19561932	92.53783441
ADV1020985	3/5/2026	3.655	3/5/2027	103.21239	102.3456604	101.4934961	100.6555337	99.83142023	99.020814	98.22338466	97.4388125	96.66678811
ADV1020986	3/6/2026	3.644	9/7/2027	105.01908	103.6428799	102.2913993	100.9640325	99.66018888	98.37929688	97.12080286	95.88417059	94.66888056
ADV1021494	12/31/2025	3.762	5/29/2026	100.33496	100.2533124	100.1718011	100.0904239	100.0091805	99.92807058	99.84709379	99.76624983	99.68553839
ADV1021493	12/31/2025	3.762	5/29/2026	100.33496	100.2533124	100.1718011	100.0904239	100.0091805	99.92807058	99.84709379	99.76624983	99.68553839
ADV1021498	12/31/2025	3.727	6/30/2026	100.67939	100.5071915	100.3355672	100.1645187	99.99404315	99.82413774	99.6547996	99.48602594	99.31781394

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1021497	12/31/2025	3.728	6/30/2026	100.67957	100.5073648	100.3357396	100.1646903	99.99421393	99.82430768	99.65496871	99.48619421	99.31798139
ADV1021984	1/22/2026	3.79	6/22/2026	100.5989	100.449686	100.3009196	100.1526004	100.0047263	99.85729531	99.71030537	99.5637545	99.41764071
ADV1021672	1/8/2026	3.632	1/8/2029	109.71201	106.9366504	104.2464803	101.6383285	99.10916717	96.65610271	94.27636861	91.96731893	89.72642202
ADV1022518	2/11/2026	3.575	2/11/2027	102.97309	102.1679313	101.3753794	100.595135	99.82691267	99.07043575	98.32543605	97.5916535	96.86883584
ADV1022296	2/3/2026	3.695	2/3/2027	102.94042	102.1583168	101.3880989	100.6295	99.88225845	99.14612047	98.42083974	97.70617721	97.00190079
ADV1022328	2/4/2026	3.842	5/29/2026	100.3366	100.2552297	100.1739916	100.0928872	100.0119161	99.931078	99.85037264	99.76979967	99.68935877
ADV1022034	1/23/2026	3.873	4/23/2030	115.14186	110.9568623	106.9504662	103.1140786	99.43956916	95.9192405	92.54580231	89.31234781	86.21233146
ADV1022539	2/12/2026	3.839	5/12/2026	100.14515	100.1115686	100.0780221	100.044515	100.0110472	99.97761871	99.94422939	99.91087919	99.87756802
ADV1022487	2/10/2026	3.841	5/8/2026	100.10086	100.0784741	100.0561111	100.0337718	100.0114564	99.98916465	99.96689658	99.94465215	99.9224313
ADV1022024	1/23/2026	4.335	3/15/2034	130.34881	121.7259116	113.7610271	106.4000079	99.59343644	93.2961913	87.46705301	82.06834804	77.06562693
ADV1022901	2/26/2026	3.576	2/26/2027	103.12267	102.2751094	101.4414795	100.6214422	99.81466675	99.02083331	98.23963211	97.47076323	96.71393616
ADV1022404	2/10/2026	3.66	2/12/2029	110.13522	107.2549516	104.4656748	101.7639637	99.14654288	96.61028155	94.15218606	91.76939296	89.45916231
ADV1022107	1/27/2026	3.653	1/29/2029	110.1405	107.2980096	104.5443102	101.8760287	99.28995125	96.78300954	94.35227332	91.99494284	89.70834194
ADV1022216	1/30/2026	3.762	7/30/2026	101.00954	100.7527079	100.4971668	100.242906	99.98991623	99.73818783	99.48771145	99.23847781	98.99047769
ADV1022613	2/17/2026	3.545	8/17/2027	104.69724	103.3735575	102.0773237	100.8076913	99.56384735	98.34501209	97.15043759	95.97940588	94.83122754
ADV1022822	2/24/2026	3.565	2/26/2029	110.00875	107.0880051	104.2606811	101.5232915	98.8724958	96.30509606	93.81803029	91.40836572	89.07329268
ADV1022868	2/25/2026	3.703	2/24/2031	117.25093	112.1581628	107.3210099	102.7252822	98.35765467	94.20560562	90.25736431	86.50186198	82.92868652
ADV1021954	1/21/2026	3.819	5/21/2026	100.2478	100.1888366	100.1299591	100.0711653	100.0124553	99.95382871	99.89528545	99.83682531	99.77844812
ADV1021550	1/2/2026	3.588	9/24/2027	105.09493	103.6707262	102.2728977	100.9007694	99.55369339	98.2310428	96.9322114	95.65661256	94.40367848
ADV1022261	2/2/2026	3.668	2/2/2029	110.22673	107.3715412	104.6058285	101.9261976	99.32940778	96.81236509	94.37211433	92.0058316	89.71081744
ADV1021544	1/2/2026	3.719	7/2/2026	100.69937	100.5215322	100.3443176	100.1677216	99.9917408	99.8163721	99.64161226	99.46745814	99.29390658
ADV1022950	2/27/2026	3.562	2/26/2027	103.11078	102.263278	101.4297087	100.6097312	99.80301488	99.00923976	98.22809613	97.45928409	96.70251317
ADV1022407	2/10/2026	3.774	2/11/2030	114.04749	110.0860433	106.2861685	102.6403612	99.14151159	95.78288021	92.55807615	89.46103687	86.48600929
ADV1022552	2/12/2026	3.561	2/12/2027	102.97178	102.1638504	101.3686077	100.5857565	99.8150087	99.05608468	98.3087136	97.57263279	96.8475875
ADV1022368	2/5/2026	3.607	10/5/2027	105.22014	103.7647106	102.3367552	100.9355641	99.56044969	98.21074729	96.88581451	95.58503013	94.30779323
ADV1021849	1/15/2026	3.673	1/15/2027	102.73079	102.0023356	101.2842238	100.5762374	99.87816298	99.1897931	98.51092607	97.84136578	97.18092147
ADV1022434	2/9/2026	3.614	2/9/2027	102.93643	102.1376501	101.3512762	100.5770211	99.81460607	99.0637606	98.32422256	97.59573761	96.87805902
ADV1021832	1/15/2026	3.652	7/15/2027	104.53109	103.2901519	102.0787245	100.89576	99.74026256	98.61128268	97.50791405	96.42929131	95.37458773
ADV1022741	2/20/2026	3.66	2/16/2027	103.04238	102.2236826	101.4180034	100.6250375	99.84448542	99.07605688	98.31947071	97.57445436	96.84074358
ADV1022584	2/13/2026	3.52	2/16/2027	102.97839	102.1593098	101.3532692	100.5599585	99.7790773	99.01033496	98.25344967	97.5081483	96.77416611
ADV1022376	2/5/2026	3.532	2/5/2027	102.87995	102.0919101	101.3159452	100.5517809	99.79914934	99.05779064	98.32745271	97.60789093	96.8988679
ADV1022899	2/26/2026	3.832	6/26/2026	100.64461	100.4846384	100.3251726	100.1662147	100.0077623	99.84981292	99.69236421	99.53541379	99.37895928
ADV1022725	2/19/2026	3.636	2/19/2027	103.05315	102.2260435	101.4122251	100.6113759	99.82318709	99.04736005	98.28360526	97.53164223	96.79119913

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1022447	2/9/2026	3.611	6/21/2028	107.71762	105.5208399	103.3802342	101.2939719	99.26029363	97.27751129	95.34400447	93.45821721	91.61865483
ADV1022693	2/19/2026	3.579	10/8/2027	105.20375	103.7403456	102.3047112	100.8961282	99.51389798	98.15734547	96.82581822	95.51868542	94.23533701
ADV1022187	1/29/2026	3.631	7/29/2027	104.63777	103.357335	102.1082699	100.8894315	99.69973158	98.53813352	97.40364947	96.29533737	95.2122984
ADV1022402	2/6/2026	3.625	2/8/2027	102.93583	102.1398471	101.3561795	100.5845469	99.82467331	99.07629118	98.33914097	97.61297095	96.89753684
ADV1022870	2/25/2026	3.936	2/11/2033	124.17173	116.8815702	110.0821949	103.7377597	97.8152246	92.28412164	87.11634103	82.28593685	77.76894943
ADV1022016	1/23/2026	3.77	7/23/2026	100.93583	100.6987204	100.462727	100.2278376	99.99404437	99.76133955	99.52971554	99.29916477	99.06967977
ADV1021871	1/16/2026	3.698	1/7/2028	106.25199	104.5306123	102.8457013	101.1961593	99.58093678	97.99902587	96.44945824	94.93130324	93.44366596
ADV1022770	2/23/2026	3.632	2/23/2027	103.08901	102.2506435	101.4259205	100.6145094	99.81608966	99.03035082	98.25699228	97.49572289	96.74626058
ADV1021854	1/15/2026	3.804	5/13/2026	100.15902	100.1225272	100.0860793	100.0496752	100.0133148	99.9769981	99.94072498	99.90449535	99.86830914
ADV1022431	2/9/2026	3.854	5/7/2026	100.09014	100.0705459	100.050977	100.0314283	100.0118999	99.99239165	99.97290361	99.95343572	99.93398794
ADV1021772	1/13/2026	3.646	1/13/2027	102.69162	101.9688779	101.2563228	100.5537394	99.86091915	99.17765921	98.50376237	97.83903682	97.18329594
ADV1022257	2/2/2026	3.918	1/29/2031	118.04233	113.0093791	108.2252697	103.6762707	99.34949242	95.23282686	91.31489578	87.58500218	84.0330853
ADV1022088	1/26/2026	3.817	6/26/2026	100.6468	100.4863104	100.326335	100.166869	100.0079102	99.84945601	99.69150409	99.53405204	99.37709749
ADV1022230	1/30/2026	3.628	4/9/2027	103.53865	102.5730243	101.6254264	100.695356	99.7823294	98.88588087	98.00556136	97.14093795	96.2915931
ADV1022894	2/26/2026	3.7	2/26/2027	103.13402	102.2876729	101.4552183	100.6363188	99.8306449	99.03787812	98.25770991	97.48984154	96.73398364
ADV1021698	1/9/2026	3.767	5/8/2026	100.10359	100.0811362	100.058703	100.0362936	100.0139081	99.99154632	99.96920832	99.94689403	99.9246034
ADV1022956	2/27/2026	3.828	5/27/2026	100.30976	100.2342035	100.1587645	100.0834454	100.008246	99.93316599	99.85820509	99.78336302	99.70863951
ADV1022444	2/9/2026	3.602	8/18/2027	104.7822	103.4557495	102.1565192	100.8836747	99.63642002	98.41399134	97.21565548	96.04070835	94.88847348
ADV1022933	2/27/2026	3.838	5/1/2026	100.02021	100.0174179	100.014629	100.0118424	100.0090583	100.0062766	100.0034973	100.0007204	99.9979459
ADV1022395	2/6/2026	3.724	11/6/2026	102.06372	101.5233973	100.9887275	100.4596205	99.93598971	99.4177505	98.90481992	98.39711669	97.89456122
ADV1022177	2/3/2026	3.649	2/3/2028	106.43116	104.6343575	102.8768576	101.1574518	99.4749833	97.8283421	96.21646293	94.63832274	93.09293862
ADV1021721	1/12/2026	3.852	1/10/2031	117.55292	112.5838321	107.8582719	103.3629276	99.08529293	95.01361229	91.13683149	87.44455162	83.9269863
ADV1022821	2/24/2026	3.564	2/24/2028	106.48786	104.6296063	102.8130582	101.037012	99.30031006	97.60183603	95.94051301	94.31530193	92.72519994
ADV1022032	1/23/2026	3.786	4/23/2029	111.19586	108.1021231	105.1121674	102.2219325	99.4275395	96.72528293	94.11162215	91.5831729	89.13669949
ADV1021773	1/13/2026	3.626	7/13/2027	104.48031	103.2452508	102.0394313	100.8618209	99.71143719	98.58734277	97.48864296	96.41448327	95.36404722
ADV1022547	2/12/2026	3.623	2/12/2029	110.03037	107.1515845	104.3637543	101.6634554	99.04741361	96.51249908	94.05571923	91.67421156	89.36523711
ADV1022264	2/2/2026	3.856	5/1/2026	100.02397	100.0211724	100.0183759	100.0155819	100.0127902	100.010001	100.0072143	100.0044299	100.001648
ADV1021702	1/9/2026	3.638	7/9/2027	104.45677	103.2329588	102.0378634	100.8704792	99.72984972	98.61506181	97.5252436	96.45956208	95.41722093
ADV1022491	2/10/2026	3.577	8/10/2027	104.67879	103.3705912	102.0915632	100.8407281	99.61715247	98.41994436	97.24825068	96.10125519	94.97817647
ADV1021755	1/13/2026	3.651	1/13/2027	102.69521	101.9724523	101.259883	100.5572855	99.86445133	99.18117761	98.50726713	97.84252806	97.1867738
ADV1021551	1/2/2026	3.766	5/4/2026	100.06074	100.0495081	100.0382864	100.0270753	100.015875	100.0046854	99.99350635	99.98233797	99.9711802
ADV1022430	2/9/2026	3.854	5/7/2026	100.09014	100.0705459	100.050977	100.0314283	100.0118999	99.99239165	99.97290361	99.95343572	99.93398794
ADV1022022	1/23/2026	4.508	1/12/2037	140.25741	128.3237858	117.5720451	107.8767922	99.12662965	91.22252397	84.07637194	77.60973946	71.75275212

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1022930	2/27/2026	3.764	8/27/2026	101.31323	100.9774995	100.6439744	100.3126361	99.98346312	99.65643439	99.33152896	99.0087262	98.68800573
ADV1022396	2/6/2026	3.612	2/7/2028	106.40553	104.5973553	102.8289301	101.0990465	99.40654802	97.75032409	96.12930775	94.54247345	92.98883504
ADV1022592	2/13/2026	3.537	5/12/2028	107.17524	105.0949911	103.0661236	101.0870346	99.15618137	97.27208037	95.43330432	93.63847977	91.88628457
ADV1022551	2/12/2026	3.621	3/12/2027	103.25278	102.3663737	101.4952083	100.6388881	99.79703546	98.96928554	98.15528567	97.35469484	96.56718328
ADV1022445	2/9/2026	3.596	12/8/2027	105.79583	104.1597735	102.5572604	100.9873257	99.44904197	97.94151669	96.4638908	95.01533701	93.59505831
ADV1022615	2/17/2026	3.832	5/14/2026	100.16645	100.1272784	100.0881567	100.0490831	100.0100576	99.97108001	99.93215027	99.89326827	99.85443394
ADV1022018	1/23/2026	3.751	1/2/2029	109.97575	107.2131562	104.5349138	101.9379031	99.41914186	96.97577936	94.60508922	92.30446309	90.07140459
ADV1021959	1/21/2026	3.82	5/20/2026	100.23674	100.180593	100.1245227	100.0685308	100.012617	99.95678114	99.9010231	99.8453427	99.78973976
ADV1022482	2/10/2026	3.568	8/10/2027	104.6671	103.3589828	102.0800334	100.8292756	99.60577607	98.40864276	97.23702265	96.09009952	94.96709202
ADV1022723	2/19/2026	3.763	8/19/2026	101.22629	100.9130989	100.6018379	100.2924915	99.98504186	99.67947162	99.37576346	99.07390031	98.77386531
ADV1021926	1/20/2026	3.758	7/20/2026	100.90061	100.6719743	100.4443795	100.2178151	99.99227415	99.7677496	99.54423454	99.32172211	99.10020551
ADV1021790	1/14/2026	3.721	9/15/2026	101.51115	101.1195073	100.7308599	100.3451705	99.96240518	99.58253079	99.20551455	98.83132417	98.45992789
ADV1022302	2/3/2026	3.93	2/3/2031	118.1489	113.0987327	108.2988753	103.7355017	99.39562689	95.26705319	91.33831836	87.59864658	84.0379033
ADV1022616	2/17/2026	3.599	2/17/2027	103.00306	102.1817443	101.3735352	100.5781225	99.79520388	99.02448619	98.26568555	97.51852681	96.78274323
ADV1022654	2/17/2026	3.618	2/17/2027	103.01854	102.197157	101.3888794	100.593399	99.81041329	99.03962935	98.28076318	97.53353961	96.7976919
ADV1022873	2/25/2026	3.706	2/24/2031	117.26557	112.1724531	107.3349611	102.7389067	98.37096405	94.21861114	90.27007667	86.51429142	82.94084284
ADV1021804	1/14/2026	3.785	5/6/2026	100.08133	100.0644947	100.0476798	100.0308818	100.0141008	99.9973367	99.98058946	99.96385907	99.9471455
ADV1022421	2/6/2026	3.817	10/25/2030	116.67771	111.9440216	107.4338996	103.1355755	99.03796309	95.13061508	91.4036827	87.84787828	84.45444034
ADV1022299	2/3/2026	3.692	2/3/2028	106.50814	104.7106351	102.9524399	101.2323516	99.54921302	97.90191385	96.28938845	94.71061346	93.16460569
ADV1022920	2/27/2026	3.83	5/29/2026	100.33221	100.2510359	100.1699973	100.089092	100.0083197	99.92768009	99.84717287	99.76679771	99.6865543
ADV1022228	1/30/2026	3.68	12/18/2026	102.45277	101.8032318	101.1619392	100.5287386	99.9034772	99.28600603	98.67617992	98.07385728	97.47889998
ADV1022352	2/4/2026	3.84	6/3/2026	100.39226	100.2968174	100.2015572	100.106481	100.0115882	99.91687844	99.82235105	99.72800552	99.63384132
ADV1022521	2/11/2026	3.828	6/10/2026	100.46794	100.352864	100.2380606	100.1235311	100.0092747	99.89529018	99.78157665	99.66813309	99.55495849
ADV1022695	2/19/2026	3.571	5/15/2028	107.27297	105.1835295	103.1458223	101.1582277	99.21918745	97.32720348	95.4808347	93.67869459	91.91944862
ADV1022764	2/23/2026	3.78	8/24/2026	101.2861	100.9587551	100.6335177	100.3103644	99.98927494	99.67022973	99.3532092	99.03819409	98.72516536
ADV1022074	1/26/2026	3.753	10/26/2026	101.96467	101.4554001	100.9511543	100.4518548	99.9574293	99.46780663	98.9829171	98.50269233	98.02706526
ADV1022277	2/2/2026	3.833	6/2/2026	100.38073	100.2880862	100.1956117	100.103309	100.0111776	99.91921706	99.82742685	99.73580652	99.6443556
ADV1022779	2/23/2026	3.621	2/23/2027	103.07987	102.2415417	101.4168599	100.6054895	99.80710995	99.02141087	98.24809166	97.48686116	96.73743731
ADV1022953	2/27/2026	3.442	8/27/2027	104.72597	103.3788813	102.0568365	100.7591746	99.4852561	98.23446399	97.00620255	95.79989648	94.61498998
ADV1022897	2/26/2026	3.701	12/28/2026	102.56753	101.889748	101.2209216	100.5608783	99.90944573	99.26645622	98.63174624	98.00515656	97.38653195
ADV1022662	2/17/2026	3.683	12/17/2026	102.44622	101.7994307	101.1608253	100.5302446	99.90753772	99.29255755	98.68516067	98.08520717	97.49256058
ADV1021848	1/15/2026	3.67	1/15/2027	102.72862	102.0001746	101.2820715	100.5740937	99.87602771	99.18766622	98.5088075	97.83925543	97.17881927
ADV1022872	2/25/2026	3.706	2/24/2031	117.26557	112.1724531	107.3349611	102.7389067	98.37096405	94.21861114	90.27007667	86.51429142	82.94084284

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1022400	2/6/2026	3.857	5/6/2026	100.07943	100.0626402	100.0458625	100.0291017	100.0123579	99.99563087	99.97892071	99.96222737	99.9455508
ADV1022152	1/28/2026	3.684	1/28/2027	102.8678	102.1026711	101.3489278	100.6063176	99.87459509	99.15352198	98.44286687	97.74240501	97.05191811
ADV1022174	2/3/2026	3.714	2/5/2029	110.21393	107.3537254	104.5833129	101.8992971	99.29843382	96.77762446	94.33390832	91.96445538	89.66655942
ADV1022774	2/23/2026	3.78	8/24/2026	101.2861	100.9587551	100.6335177	100.3103644	99.98927494	99.67022973	99.3532092	99.03819409	98.72516536
ADV1021976	1/22/2026	3.931	1/15/2031	117.97331	112.9805504	108.2329561	103.7170958	99.42035286	95.33086972	91.43749822	87.72975265	84.19776652
ADV1022591	2/13/2026	3.534	12/13/2027	105.74049	104.091332	102.476171	100.8940195	99.34393116	97.82499552	96.33633646	94.87711057	93.44650559
ADV1022526	2/11/2026	3.837	5/11/2026	100.13407	100.1032875	100.0725355	100.0418188	100.0111374	99.98049104	99.94987981	99.91930359	99.88876232
ADV1022397	2/6/2026	3.661	2/6/2029	110.07526	107.2139732	104.442611	101.7577708	99.15620517	96.6348123	94.19062806	91.82081887	89.52267485
ADV1022346	2/4/2026	3.666	2/4/2027	102.92803	102.1431905	101.3703273	100.6091656	99.85944104	99.12089698	98.39328451	97.67636207	96.96989514
ADV1022255	2/2/2026	3.681	12/15/2027	106.00294	104.3461765	102.7236326	101.1343129	99.57726232	98.05156202	96.55632803	95.09070945	93.65388691
ADV1021845	1/15/2026	3.666	1/15/2027	102.72573	101.9972934	101.2792018	100.5712353	99.87318068	99.18483038	98.50598273	97.83644163	97.17601633
ADV1022401	2/6/2026	3.643	2/5/2027	102.91989	102.1323017	101.3567775	100.5930374	99.84081431	99.09984883	98.36988944	97.65069203	96.94201968
ADV1022479	2/10/2026	3.612	2/12/2029	109.99938	107.1210381	104.3336446	101.6337719	99.01814598	96.48363748	94.02725408	91.64613358	89.33753729
ADV1021771	1/13/2026	3.724	9/14/2026	101.50163	101.1128153	100.7269499	100.3440004	99.96393356	99.58671695	99.21231847	98.84070651	98.47184997
ADV1022226	1/30/2026	3.708	10/30/2026	101.98397	101.4635296	100.9483264	100.4382808	99.93331577	99.43335582	98.93832693	98.44815653	97.96277347
ADV1022019	1/23/2026	3.751	1/2/2029	109.97575	107.2131562	104.5349138	101.9379031	99.41914186	96.97577936	94.60508922	92.30446309	90.07140459
ADV1022697	2/18/2026	3.824	6/17/2026	100.54443	100.4097183	100.2753777	100.1414085	100.0078093	99.87457847	99.74171441	99.6092156	99.47708049
ADV1021731	1/12/2026	3.703	11/17/2026	102.155	101.5925988	101.0364056	100.486313	99.94222077	99.404031	98.87164777	98.34497729	97.82392775
ADV1021996	1/22/2026	3.819	5/27/2026	100.31435	100.2385059	100.1627831	100.0871807	100.0116985	99.9363361	99.86109326	99.78596969	99.71096513
ADV1022271	2/2/2026	3.855	5/1/2026	100.02397	100.0211663	100.0183698	100.0155758	100.0127842	100.009995	100.0072082	100.0044239	100.0016419
ADV1022724	2/19/2026	3.686	11/19/2026	102.16494	101.5969332	101.03525	100.479787	99.930441	99.38711125	98.84969908	98.31810801	97.79224366
ADV1021699	1/9/2026	3.732	7/9/2026	100.77674	100.5791515	100.3823412	100.1863036	99.99103432	99.79652868	99.60278216	99.40979026	99.21754853
ADV1021667	1/8/2026	3.673	11/9/2026	102.07146	101.5211076	100.9766087	100.437866	99.90478859	99.37728737	98.85527516	98.33866656	97.82737796
ADV1022594	2/13/2026	3.842	5/13/2026	100.15628	100.1198997	100.0835587	100.0472614	100.0110077	99.97479758	99.93863088	99.90250754	99.86642749
ADV1022231	1/30/2026	3.628	4/9/2027	103.53865	102.5730243	101.6254264	100.695356	99.7823294	98.88588087	98.00556136	97.14093795	96.2915931
ADV1022489	2/10/2026	3.554	3/12/2029	110.28994	107.3222647	104.4507252	101.6716956	98.98170446	96.3774298	93.85569177	91.41344582	89.0477761
ADV1022608	2/17/2026	3.602	2/17/2027	103.00551	102.1841779	101.375958	100.5805346	99.79760536	99.02687721	98.26806623	97.52089725	96.78510354
ADV1022370	2/5/2026	3.842	2/4/2031	117.73418	112.6908071	107.8976779	103.3409618	99.00767103	94.88560577	90.96330138	87.22997982	83.67550444
ADV1022229	1/30/2026	3.68	12/18/2026	102.45277	101.8032318	101.1619392	100.5287386	99.9034772	99.28600603	98.67617992	98.07385728	97.47889998
ADV1022106	1/27/2026	3.789	7/14/2026	100.84053	100.629065	100.4184957	100.2088131	100.0000114	99.79208516	99.58502868	99.37883647	99.17350305
ADV1021591	1/5/2026	3.556	8/5/2027	104.60863	103.3118922	102.045545	100.8085258	99.59981679	98.41844703	97.26348979	96.13406001	95.029312
ADV1022740	2/20/2026	3.861	5/15/2026	100.17843	100.1364722	100.0945637	100.0527079	100.0109047	99.96915396	99.92745566	99.88580966	99.84421585
ADV1022546	2/12/2026	3.839	5/12/2026	100.14515	100.1115686	100.0780221	100.044515	100.0110472	99.97761871	99.94422939	99.91087919	99.87756802

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1022729	2/19/2026	3.53	2/20/2029	110.0251	107.1182343	104.3039476	101.5787632	98.93935927	96.38255783	93.90531792	91.50472866	89.17800289
ADV1022915	2/27/2026	3.832	5/27/2026	100.31007	100.2345123	100.1590726	100.0837528	100.0085526	99.93347187	99.85851024	99.78366743	99.70894319
ADV1022075	1/26/2026	3.747	1/26/2029	110.2004	107.3691074	104.6259535	101.9676057	99.39088367	96.89275116	94.47030771	92.1207816	89.84152299
ADV1022778	2/23/2026	3.776	8/24/2026	101.2848	100.9574615	100.6322306	100.3090836	99.98800057	99.6689617	99.35194746	99.0369386	98.72391608
ADV1021716	1/12/2026	3.643	1/12/2028	106.20639	104.4718321	102.7742421	101.1124999	99.48553417	97.89231664	96.33185964	94.80321424	93.30546828
ADV1022191	1/29/2026	3.642	3/29/2027	103.44128	102.5066972	101.5890078	100.6877585	99.80251013	98.93283918	98.07833685	97.2386086	96.41327344
ADV1022656	2/17/2026	3.563	8/17/2027	104.72096	103.3971152	102.1007194	100.8309279	99.58692744	98.36793831	97.17321246	96.00203187	94.85370704
ADV1022898	2/26/2026	3.564	10/26/2027	105.33753	103.8244443	102.3409873	100.8863643	99.45980769	98.06057703	96.68795722	95.34125768	94.01981121
ADV1022332	2/4/2026	3.733	2/5/2029	110.26734	107.4063795	104.6352315	101.9504977	99.34893327	96.82743914	94.38305407	92.01294755	89.71441288
ADV1022448	2/9/2026	3.624	9/20/2028	108.626	106.1683103	103.7792435	101.4565	99.19787121	97.00123499	94.86455211	92.78586227	90.7632806
ADV1021715	1/12/2026	3.722	8/12/2026	101.14309	100.8487576	100.5561282	100.2651879	99.97592208	99.68831617	99.40235584	99.11802689	98.8353153
ADV1021881	1/16/2026	3.749	7/15/2026	100.84457	100.630067	100.4164819	100.2038077	99.99203869	99.78116891	99.57119258	99.36210395	99.15389734
ADV1022867	2/25/2026	3.703	2/24/2031	117.25093	112.1581628	107.3210099	102.7252822	98.35765467	94.20560562	90.25736431	86.50186198	82.92868652
ADV1022773	2/23/2026	3.859	5/26/2026	100.30153	100.228739	100.1560627	100.0834999	100.0110505	99.93871401	99.86649033	99.79437915	99.72238022
ADV1022280	2/2/2026	3.678	2/2/2028	106.47267	104.6783959	102.9233136	101.2062195	99.52595656	97.88141483	96.27152922	94.69527715	93.15167635
ADV1022408	2/13/2026	3.608	2/14/2028	106.46884	104.6397583	102.8512313	101.1020529	99.39106648	97.71715933	96.0792607	94.47633978	92.90740383
ADV1022743	2/23/2026	3.585	2/23/2028	106.51651	104.6608948	102.846868	101.0732323	99.33882999	97.64254502	95.98330099	94.3600596	92.77181893
ADV1022514	2/11/2026	3.623	8/11/2027	104.74745	103.4365882	102.1546537	100.9006916	99.67378533	98.47305868	97.29767326	96.14682656	95.01975004
ADV1022921	2/27/2026	3.617	2/27/2031	116.85891	111.7664618	106.9301481	102.3357464	97.9698924	93.82002689	89.87434338	86.12173922	82.55177017
ADV1022852	2/25/2026	3.817	7/15/2026	100.85324	100.6395567	100.4267895	100.2149298	100.0039717	99.79390936	99.5847371	99.37644914	99.16903982
ADV1021671	1/8/2026	3.583	1/10/2028	106.08437	104.3563398	102.6650517	101.0093975	99.38831501	97.80078481	96.24582756	94.72250219	93.22990401
ADV1022517	2/11/2026	3.575	2/11/2027	102.97309	102.1679313	101.3753794	100.595135	99.82691267	99.07043575	98.32543605	97.5916535	96.86883584
ADV1022190	1/29/2026	3.644	2/26/2027	103.12875	102.2818696	101.4489017	100.6295054	99.82335068	99.03011847	98.24949966	97.481195	96.72491463
ADV1022538	2/12/2026	3.839	5/12/2026	100.14515	100.1115686	100.0780221	100.044515	100.0110472	99.97761871	99.94422939	99.91087919	99.87756802
ADV1022540	2/12/2026	3.839	5/12/2026	100.14515	100.1115686	100.0780221	100.044515	100.0110472	99.97761871	99.94422939	99.91087919	99.87756802
ADV1022405	2/13/2026	3.778	2/13/2030	114.08381	110.115586	106.3094196	102.6577852	99.15355106	95.7899563	92.56058906	89.45936645	86.48051563
ADV1022636	2/17/2026	3.606	2/17/2027	103.00877	102.1874227	101.3791883	100.5837507	99.80080735	99.03006525	98.27124047	97.52405784	96.78825063
ADV1022641	2/17/2026	3.714	10/22/2026	101.89928	101.4028071	100.911121	100.4241569	99.94184722	99.46412528	98.99092584	98.52218483	98.05783942
ADV1022665	2/17/2026	3.562	8/17/2027	104.71965	103.3958064	102.0994197	100.829637	99.58564521	98.36666463	97.17194719	96.00077487	94.85245817
ADV1022511	2/11/2026	3.681	12/11/2026	102.38576	101.7558663	101.1337303	100.5192128	99.91217414	99.31247823	98.71999213	98.13458615	97.55613369
ADV1022797	2/23/2026	3.858	5/26/2026	100.30145	100.2286644	100.1559883	100.0834257	100.0109764	99.93864016	99.86641666	99.79430567	99.72230692
ADV1022699	2/18/2026	3.762	4/30/2031	118.10082	112.8051155	107.7840914	103.0220021	98.504091	94.2165193	90.1463043	86.28126195	82.60995355
ADV1022027	1/23/2026	3.626	1/24/2028	106.39679	104.6260834	102.893679	101.1983994	99.5391163	97.91474749	96.32425464	94.76664085	93.24094859

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1022111	1/27/2026	3.908	1/27/2031	117.97254	112.9466635	108.1690485	103.6260159	99.30471712	95.19308212	91.27976744	87.55410805	84.00607268
ADV1022162	1/29/2026	3.586	1/29/2027	102.84858	102.080143	101.3231937	100.5774721	99.84272952	99.11872476	98.40522357	97.70199849	97.00882855
ADV1021727	1/13/2026	3.643	7/13/2027	104.50106	103.2658709	102.0599193	100.882179	99.73166738	98.60744715	97.50862352	96.43434195	95.38378589
ADV1022279	2/2/2026	3.676	8/2/2027	104.73577	103.444758	102.1849	100.9550722	99.75420601	98.58128313	97.43533263	96.31542818	95.22068553
ADV1022934	2/27/2026	3.497	2/28/2028	106.40353	104.5344866	102.7075914	100.9216478	99.17549773	97.46802349	95.79814584	94.16482249	92.5670466
ADV1022640	2/17/2026	3.733	9/17/2026	101.53244	101.1363863	100.7434049	100.3534566	99.96650638	99.58251957	99.20146216	98.82330064	98.44800199
ADV1022304	2/3/2026	4.075	2/3/2032	122.12749	115.9460749	110.1254028	104.6423611	99.47544808	94.60464917	90.011326	85.678114	81.58882834
ADV1022684	2/18/2026	3.746	8/17/2026	101.19929	100.8917928	100.5861563	100.2823675	99.98040946	99.68026567	99.3819197	99.08535533	98.79055656
ADV1022227	1/30/2026	3.708	10/30/2026	101.98397	101.4635296	100.9483264	100.4382808	99.93331577	99.43335582	98.93832693	98.44815653	97.96277347
ADV1022890	2/26/2026	3.784	8/26/2026	101.30901	100.9760645	100.6452888	100.3166657	99.99017398	99.66579313	99.34350265	99.02328237	98.70511237
ADV1022347	2/4/2026	3.667	2/4/2027	102.92881	102.1439664	101.3710999	100.6099349	99.86020712	99.12165985	98.39404422	97.67711863	96.9706486
ADV1022652	2/17/2026	3.618	2/17/2027	103.01854	102.197157	101.3888794	100.593399	99.81041329	99.03962935	98.28076318	97.53353961	96.7976919
ADV1021952	1/21/2026	3.693	1/21/2027	102.80497	102.0595387	101.3249325	100.6009143	99.88725617	99.18373652	98.49014011	97.80625779	97.13188623
ADV1022278	2/2/2026	3.736	12/2/2026	102.3296	101.7249251	101.1273986	100.5368916	99.95328086	99.37644603	98.80626956	98.2426366	97.68543493
ADV1022490	2/10/2026	3.652	12/10/2026	102.35766	101.7306477	101.1113233	100.4995496	99.8951888	99.29810653	98.70817163	98.1252561	97.54923498
ADV1022787	2/23/2026	3.552	2/23/2028	106.45563	104.6005853	102.7871244	101.0140441	99.28018691	97.58443708	95.92571852	94.30299318	92.71525937
ADV1021794	1/14/2026	3.742	7/14/2026	100.83246	100.6207649	100.4099614	100.2000455	99.99101161	99.78285406	99.57556727	99.36914572	99.16358391
ADV1022041	1/23/2026	3.615	1/25/2027	102.83091	102.0736789	101.3276035	100.5924429	99.86795888	99.15391969	98.45010045	97.75628267	97.07225403
ADV1022219	1/30/2026	3.834	5/20/2026	100.23625	100.1801519	100.1241322	100.0681907	100.0123273	99.95654172	99.90083391	99.84520367	99.78965082
ADV1022409	2/6/2026	3.719	11/6/2026	102.06106	101.5207594	100.9861093	100.4570218	99.9334103	99.4151902	98.90227853	98.39459403	97.89205709
ADV1022902	2/26/2026	3.476	2/26/2029	109.93163	107.0079556	104.1778968	101.4379485	98.78476063	96.21512659	93.72597593	91.31436801	88.97748565
ADV1021694	1/9/2026	3.73	7/9/2026	100.77634	100.5787558	100.3819474	100.1859118	99.99064439	99.79614067	99.60239606	99.40940607	99.21716623
ADV1022330	2/4/2026	3.688	2/4/2028	106.51142	104.7109709	102.9499531	101.2271557	99.5414214	97.8916399	96.27674504	94.69571282	93.1475592
ADV1022871	2/25/2026	4.286	1/30/2037	138.0091	126.1435593	115.4609255	105.8350222	97.15382443	89.31780181	82.2384622	75.83707253	70.04353376
ADV1021735	1/12/2026	3.575	1/12/2028	106.19406	104.4577734	102.7585196	101.0951779	99.46667448	97.87197836	96.31009961	94.78008707	93.28102646
ADV1021649	1/7/2026	3.772	11/26/2030	116.77082	111.9444267	107.3496588	102.9741272	98.80617289	94.83482016	91.04973309	87.4411746	83.99996844
ADV1022298	2/3/2026	3.71	1/4/2027	102.64757	101.9500257	101.2619674	100.5832014	99.9135402	99.25280144	98.60080747	97.95738537	97.32236678
ADV1022478	2/10/2026	3.587	2/10/2027	102.92493	102.123412	101.3343918	100.5575739	99.79267636	99.03942614	98.29755833	97.56681605	96.84695012
ADV1022260	2/2/2026	3.678	2/2/2028	106.47267	104.6783959	102.9233136	101.2062195	99.52595656	97.88141483	96.27152922	94.69527715	93.15167635
ADV1022874	2/25/2026	4.224	2/4/2036	134.92602	124.1956417	114.4511372	105.5954176	97.54147649	90.21129455	83.53486625	77.44933697	71.89823705
ADV1022639	2/17/2026	3.753	8/20/2026	101.23442	100.9183316	100.6042062	100.2920293	99.98178284	99.67344885	99.36700959	99.06244757	98.75974549
ADV1022301	2/3/2026	3.851	2/4/2030	114.26821	110.3238973	106.5396525	102.9080445	99.42203238	96.07494443	92.86045579	89.77256834	86.80559153
ADV1022020	1/23/2026	3.922	12/30/2030	117.7827	112.8385505	108.1353141	103.6598946	99.39998622	95.34401715	91.48110181	87.80099605	84.29405558

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1022369	2/5/2026	3.759	8/5/2026	101.07364	100.7999	100.527635	100.2568311	99.98747651	99.71955961	99.45306885	99.18799285	98.9243203
ADV1022611	2/17/2026	3.546	2/20/2029	109.89376	106.9927684	104.1841019	101.4642944	98.83003536	96.27815775	93.80563095	91.40955388	89.08714864
ADV1021552	1/2/2026	3.593	7/2/2027	104.33684	103.1332104	101.9573759	100.808379	99.68530789	98.58729185	97.51349861	96.46313246	95.43543221
ADV1022519	2/11/2026	3.797	7/13/2026	100.82895	100.6206459	100.4132067	100.2066295	100.0009089	99.7960395	99.59201594	99.38883291	99.18648516
ADV1021720	1/12/2026	3.852	1/10/2031	117.55292	112.5838321	107.8582719	103.3629276	99.08529293	95.01361229	91.13683149	87.44455162	83.9269863
ADV1022014	1/23/2026	4.183	1/24/2033	125.70586	118.417025	111.6146439	105.263406	99.33075715	93.78666742	88.60342192	83.75543004	79.2190514
ADV1022864	2/25/2026	4.113	8/15/2034	129.80203	120.7772121	112.4738545	104.8298926	97.78892468	91.2996673	85.31546537	79.79385175	74.69615085
ADV1022108	1/27/2026	3.653	1/29/2029	110.1405	107.2980096	104.5443102	101.8760287	99.28995125	96.78300954	94.35227332	91.99494284	89.70834194
ADV1021756	1/13/2026	3.636	7/13/2027	104.49252	103.2573802	102.051483	100.8737962	99.7233373	98.59916888	97.50039623	96.42616484	95.3756582
ADV1022329	2/4/2026	3.677	2/4/2027	102.9366	102.1517253	101.3788257	100.6176281	99.86786788	99.12928858	98.40164125	97.6846843	96.97818322
ADV1022433	2/9/2026	3.544	2/9/2027	102.92839	102.1290087	101.3420485	100.5672255	99.80426008	99.05288129	98.31282634	97.58384036	96.86567609
ADV1022300	2/3/2026	3.751	2/5/2029	110.31794	107.4562624	104.6844176	101.9990035	99.39677487	96.87463199	94.4296132	92.0588875	89.75974774
ADV1022021	1/23/2026	3.922	12/30/2030	117.7827	112.8385505	108.1353141	103.6598946	99.39998622	95.34401715	91.48110181	87.80099605	84.29405558
ADV1022744	2/20/2026	3.85	6/22/2026	100.60363	100.454838	100.3064889	100.1585858	100.0111265	99.86410904	99.71753143	99.57139165	99.42568773
ADV1022013	1/23/2026	3.926	1/23/2031	118.0224	113.0063873	108.2376484	103.7025809	99.38841185	95.28314065	91.37548756	87.65484603	84.11123845
ADV1022197	1/29/2026	3.655	1/29/2027	102.85564	102.0877867	101.3313985	100.586221	99.8520062	99.12851334	98.41550873	97.7127654	97.02006289
ADV1022621	2/17/2026	3.831	5/18/2026	100.21113	100.160752	100.1104371	100.0601896	100.0100095	99.95989664	99.90985081	99.85987189	99.80995977
ADV1022875	2/25/2026	4.224	2/4/2036	134.92602	124.1956417	114.4511372	105.5954176	97.54147649	90.21129455	83.53486625	77.44933697	71.89823705
ADV1022446	2/9/2026	3.594	2/17/2028	106.47414	104.6363302	102.8394173	101.0821968	99.36351177	97.68224846	96.03733445	94.42773659	92.85245924
ADV1022548	2/12/2026	3.774	2/12/2031	117.48277	112.4209769	107.6115187	103.0404263	98.69458026	94.56165484	90.63006569	86.88892105	83.32797644
ADV1022922	2/27/2026	3.755	2/27/2032	120.44993	114.2459958	108.4087269	102.9144784	97.74124587	92.86854637	88.27730529	83.94975291	79.86932877
ADV1022213	1/30/2026	3.635	7/30/2027	104.65244	103.3691362	102.1173392	100.8958966	99.70371325	98.53974638	97.40300215	96.29253294	95.20743469
ADV1022612	2/17/2026	3.693	2/18/2031	117.14623	112.0742159	107.255981	102.6774564	98.3254283	94.18748113	90.25194501	86.50784696	82.94486557
ADV1022863	4/1/2026	3.717	3/31/2031	117.62019	112.421278	107.487919	102.8051331	98.35886312	94.13591194	90.12388565	86.31114052	82.6867339
ADV1022858	4/1/2026	3.713	3/21/2031	117.51682	112.3479253	107.441745	102.7835347	98.35945167	94.15649614	90.16245532	86.36585206	82.7558968
ADV1022031	3/2/2026	3.946	2/28/2031	118.48101	113.3465603	108.4699645	103.8369124	99.43396058	95.24847478	91.26857732	87.48309804	83.88152872
ADV1022025	3/2/2026	3.763	3/1/2029	110.61123	107.6730934	104.8291132	102.0757761	99.40971627	96.82771126	94.3266749	91.9036509	89.55580663
ADV1022017	3/2/2026	3.762	3/1/2029	110.60836	107.6702575	104.8263178	102.0730202	99.40699895	96.82503161	94.32403203	91.90104396	89.55323479
ADV1022865	4/1/2026	3.715	3/31/2031	117.61023	112.4115657	107.4784415	102.7958817	98.34982961	94.12708845	90.11526465	86.30271483	82.67849663
ADV1022029	3/2/2026	3.764	3/1/2029	110.61411	107.6759294	104.8319086	102.078532	99.41243359	96.83039091	94.32931776	91.90625783	89.55837848
ADV1022859	4/1/2026	3.584	3/30/2029	110.3631	107.3494067	104.4347586	101.6153583	98.88757967	96.24795505	93.69316751	91.2200433	88.8255449
ADV1022861	4/1/2026	3.584	3/30/2029	110.3631	107.3494067	104.4347586	101.6153583	98.88757967	96.24795505	93.69316751	91.2200433	88.8255449
ADV1022028	3/2/2026	3.764	3/1/2029	110.61411	107.6759294	104.8319086	102.078532	99.41243359	96.83039091	94.32931776	91.90625783	89.55837848

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1022023	3/2/2026	3.945	2/28/2031	118.47612	113.3417856	108.4653032	103.8323606	99.42951419	95.24413009	91.26433075	87.47894616	83.87746823
ADV1022030	3/2/2026	3.946	2/28/2031	118.48101	113.3465603	108.4699645	103.8369124	99.43396058	95.24847478	91.26857732	87.48309804	83.88152872
ADV1022406	3/18/2026	3.783	3/18/2030	114.43285	110.3628188	106.4625623	102.7241048	99.13988748	95.70274384	92.40587747	89.24284091	86.20751594
ADV1024174	4/21/2026	3.951	4/22/2030	115.44703	111.2587695	107.2490631	103.4093261	99.73143719	96.20770676	92.8308519	89.59397241	86.49052869
ADV1023322	3/17/2026	3.752	3/19/2029	110.7514	107.7619577	104.8698029	102.0712424	99.36274668	96.740939	94.20258792	91.74460016	89.36401394
ADV1023238	3/13/2026	3.802	10/13/2026	101.84079	101.3710969	100.9057086	100.4445666	99.98761291	99.5347906	99.08604369	98.64131724	98.2005573
ADV1024453	4/30/2026	3.841	5/29/2026	100.32396	100.2433203	100.1628104	100.0824329	100.0021876	99.92207407	99.84209208	99.7622413	99.6825214
ADV1023978	4/14/2026	3.844	7/14/2026	100.84062	100.6308148	100.4218936	100.2138521	100.0066847	99.80038583	99.59494994	99.39037156	99.18664525
ADV1024349	4/28/2026	3.838	6/29/2026	100.66996	100.5025905	100.3357806	100.1695234	100.0038162	99.83865622	99.67404084	99.50996736	99.34643314
ADV1023798	4/6/2026	3.835	5/6/2026	100.07037	100.0536811	100.0370087	100.0203532	100.0037145	99.98709255	99.97048733	99.95389881	99.93732697
ADV1023940	4/13/2026	3.839	5/11/2026	100.1252	100.0946068	100.0640528	100.0335339	100.00305	99.97260103	99.9421869	99.91180756	99.88146294
ADV1024406	4/29/2026	3.841	5/29/2026	100.32411	100.2434594	100.1629409	100.0825549	100.002301	99.92217902	99.84218853	99.76232926	99.68260088
ADV1023625	3/30/2026	3.855	6/30/2026	100.68834	100.5176425	100.3475153	100.177959	100.0089706	99.84054731	99.67268638	99.50538499	99.33864037
ADV1024420	4/29/2026	3.844	9/16/2026	101.55389	101.1633662	100.775851	100.391306	100.0096971	99.63099055	99.25515334	98.88215281	98.51195686
ADV1024184	4/21/2026	3.821	12/9/2026	102.45114	101.8265945	101.2096784	100.6002484	99.99816864	99.40330642	98.81553233	98.23471998	97.66074602
ADV1023227	3/13/2026	3.702	3/15/2027	103.40826	102.5120322	101.6313603	100.765842	99.91508818	99.07872287	98.25638276	97.44771672	96.65238525
ADV1024408	4/29/2026	3.847	5/6/2026	100.06721	100.0505587	100.0339271	100.0173122	100.0007141	99.98413265	99.96756794	99.9510199	99.93448849
ADV1024449	4/30/2026	3.84	6/18/2026	100.54721	100.4107033	100.2745764	100.1388328	100.0034707	99.86848855	99.73388468	99.59965747	99.4658053
ADV1023516	3/25/2026	4.073	3/21/2031	119.29516	114.0828224	109.1348029	104.4362864	99.97336111	95.73296142	91.70281238	87.87137781	84.2278122
ADV1023037	3/4/2026	3.617	3/6/2028	106.69697	104.8059871	102.9580262	101.1518596	99.38629913	97.66019804	95.97244915	94.32198329	92.7077677
ADV1023638	3/31/2026	3.876	6/5/2026	100.41008	100.3095843	100.2092943	100.1092122	100.0093373	99.90966879	99.81020615	99.71094867	99.61189571
ADV1023887	4/8/2026	3.835	5/1/2026	100.01435	100.0115751	100.008798	100.0060232	100.0032509	100.000481	99.99771344	99.99494832	99.99218561
ADV1023834	4/7/2026	3.848	1/7/2027	102.77434	102.0679593	101.371298	100.6841585	100.0063462	99.33767199	98.67795169	98.02700608	97.3846607
ADV1024461	4/30/2026	3.845	5/15/2026	100.16758	100.1259217	100.0843209	100.0427723	100.001276	99.95983176	99.91843956	99.87709928	99.8358108
ADV1023135	3/10/2026	3.835	5/5/2026	100.06317	100.0492263	100.0352938	100.021375	100.0074698	99.99357828	99.97970035	99.96583599	99.95198519
ADV1024413	4/29/2026	3.842	10/29/2026	102.02783	101.5145543	101.0064127	100.5033326	100.0052388	99.51205755	99.02371651	98.54014478	98.06127284
ADV1023826	4/7/2026	3.856	6/8/2026	100.44062	100.3318049	100.2232338	100.1149087	100.0068289	99.89899331	99.79140122	99.68405174	99.57694402
ADV1022969	3/2/2026	3.867	5/4/2026	100.05362	100.0424569	100.0313016	100.020157	100.009023	99.99789954	99.9867867	99.97568444	99.96459272
ADV1023449	3/23/2026	3.895	8/24/2026	101.31915	100.9925951	100.668139	100.3457619	100.0254438	99.70716496	99.39090596	99.07664756	98.76437077
ADV1023680	3/31/2026	3.862	6/30/2027	104.63296	103.4329969	102.2605989	101.114823	99.9947694	98.89957834	97.828428	96.78053247	95.75513977
ADV1023174	3/23/2026	3.728	3/23/2028	107.0691	105.1283276	103.232674	101.3808229	99.57150154	97.80348254	96.07558187	94.38665714	92.73560576
ADV1023943	4/13/2026	3.847	7/13/2026	100.83022	100.6232049	100.4170534	100.2117586	100.0073151	99.80371755	99.60096054	99.39903885	99.19794724
ADV1024323	4/27/2026	3.839	7/24/2026	100.94921	100.7115346	100.4749895	100.2395625	100.0052456	99.77203095	99.53991081	99.30887741	99.0789231

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023061	3/5/2026	3.85	5/5/2026	100.06414	100.0501898	100.0362496	100.0223231	100.0084102	99.99451098	99.98062535	99.9667533	99.95289482
ADV1024301	4/27/2026	3.841	5/26/2026	100.29089	100.2185857	100.1463965	100.07432	100.0023561	99.93050438	99.85876472	99.78713681	99.71562039
ADV1024221	4/22/2026	3.823	10/22/2027	105.78332	104.2760432	102.7980992	101.3487032	99.92709976	98.5325596	97.16437855	95.82187634	94.50439569
ADV1024171	4/21/2026	3.832	5/21/2026	100.23538	100.1769757	100.1186526	100.0604125	100.0022553	99.94418082	99.88618884	99.82827921	99.77045175
ADV1023611	3/30/2026	3.853	6/29/2026	100.6768	100.5089164	100.3415878	100.1748137	100.0085913	99.84291783	99.67779065	99.51320705	99.34916439
ADV1023441	3/23/2026	3.874	6/22/2026	100.60258	100.4542567	100.3063843	100.1589563	100.0119708	99.86542563	99.71931892	99.57364865	99.42841283
ADV1024468	4/30/2026	3.843	8/14/2026	101.18458	100.8877073	100.592586	100.2992008	100.0075365	99.71757773	99.42930958	99.14271717	98.85778581
ADV1024481	4/30/2026	3.846	5/7/2026	100.07822	100.0587951	100.0393922	100.0200095	100.0006468	99.98130412	99.96198148	99.94267881	99.92339608
ADV1023802	4/6/2026	3.835	5/5/2026	100.05923	100.045319	100.0314264	100.0175474	100.003682	99.98983015	99.97599189	99.96216718	99.94835598
ADV1023222	3/13/2026	3.844	6/15/2026	100.52138	100.3926107	100.2641821	100.1360954	100.0083494	99.88094253	99.7538735	99.6271409	99.50074336
ADV1023615	3/30/2026	3.848	5/29/2026	100.32911	100.2482046	100.1674283	100.0867848	100.006274	99.92589538	99.84564874	99.76553374	99.68555005
ADV1024023	4/15/2026	3.84	1/15/2027	102.85157	102.1226279	101.404035	100.6955723	99.99702623	99.30818942	98.62886003	97.95884189	97.29794417
ADV1024409	4/29/2026	3.845	5/12/2026	100.13421	100.1008886	100.0676113	100.0343732	100.001174	99.96801382	99.93489249	99.90180996	99.86876615
ADV1024487	4/30/2026	3.849	5/15/2026	100.16774	100.1260883	100.0844874	100.0429388	100.0014424	99.95999809	99.91860583	99.87726547	99.83597693
ADV1024440	4/30/2026	3.841	5/29/2026	100.32396	100.2433203	100.1628104	100.0824329	100.0021876	99.92207407	99.84209208	99.7622413	99.6825214
ADV1023741	4/2/2026	3.829	5/4/2026	100.04859	100.0374634	100.0263454	100.015238	100.0041411	99.99305488	99.98197917	99.970914	99.95985934
ADV1023383	3/19/2026	3.83	5/22/2026	100.25125	100.1898469	100.1285285	100.0672992	100.0061586	99.9451067	99.88414322	99.82326798	99.76248079
ADV1024339	4/27/2026	3.768	4/27/2027	103.92093	102.9022978	101.9036564	100.9244201	99.96402698	99.02193648	98.09762864	97.19060301	96.3003778
ADV1024412	4/29/2026	3.843	5/29/2026	100.32427	100.2436205	100.1631019	100.0827157	100.0024617	99.92233957	99.84234894	99.76248954	99.68276103
ADV1023002	3/3/2026	3.879	5/1/2026	100.01983	100.017039	100.014251	100.0114654	100.0086823	100.0059016	100.0031233	100.0003474	99.99757387
ADV1024216	4/22/2026	3.949	4/22/2030	115.43881	111.2507163	107.2411637	103.401576	99.72383195	96.20024232	92.82352423	89.58677766	86.48346313
ADV1023076	3/6/2026	3.684	3/8/2027	103.26796	102.3926307	101.5321555	100.6861588	99.85427718	99.03615902	98.23146442	97.4398646	96.66104142
ADV1024220	4/22/2026	3.89	4/24/2028	107.71575	105.6793829	103.6923978	101.7532853	99.86059353	98.01292488	96.20893335	94.44732247	92.72684299
ADV1023935	4/13/2026	3.844	7/13/2026	100.8296	100.6225875	100.4164376	100.2111444	100.0067024	99.80310637	99.60035089	99.39843071	99.19734062
ADV1023994	4/15/2026	3.84	5/15/2026	100.16957	100.1278505	100.0861832	100.0445684	100.0030059	99.96149553	99.9200373	99.87863106	99.83727672
ADV1023332	3/17/2026	3.808	7/22/2026	100.92585	100.6928378	100.4609028	100.2300413	100.0002457	99.77150868	99.54382282	99.31718087	99.0915756
ADV1024435	4/30/2026	3.806	4/30/2027	103.99079	102.9634361	101.9564	100.9690821	100.0009073	99.05132223	98.11979512	97.2058141	96.3088865
ADV1024354	4/28/2026	3.856	4/28/2027	103.95911	102.9383666	101.9376954	100.9565047	99.99422932	99.05032569	98.12427095	97.2155619	96.32371411
ADV1023164	3/11/2026	3.777	3/11/2031	118.06399	112.8992939	107.9958641	103.3390988	98.91529005	94.71156072	90.71580991	86.91666234	83.30342125
ADV1024063	4/16/2026	3.838	5/15/2026	100.16934	100.1276237	100.0859609	100.0443506	100.0027925	99.96128668	99.91983292	99.87843115	99.83708127
ADV1023915	4/10/2026	3.838	6/30/2026	100.6838	100.5133041	100.3433819	100.1740297	100.0052448	99.8370244	99.66936562	99.50226571	99.33572191
ADV1023488	3/24/2026	4.231	3/19/2032	123.43201	117.0834936	111.1121294	105.4934325	100.2046331	95.22454609	90.533453	86.11299333	81.94606447
ADV1024145	4/20/2026	3.829	5/20/2026	100.22421	100.1685884	100.1130407	100.0575705	100.0021777	99.94686221	99.89162377	99.83646223	99.78137745

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023618	3/30/2026	3.851	8/31/2026	101.38236	101.0361917	100.6923692	100.3508675	100.0116635	99.67473395	99.34005621	99.00760778	98.67736652
ADV1024055	4/16/2026	3.838	5/18/2026	100.20298	100.1529029	100.1028953	100.0529547	100.0030811	99.95327426	99.90353408	99.85386041	99.80425312
ADV1024097	4/17/2026	3.921	2/25/2031	118.32624	113.2046061	108.3398166	103.7176241	99.32464511	95.14830267	91.1767735	87.39893901	83.80433983
ADV1023229	3/13/2026	3.847	1/15/2030	107.36388	105.3823832	103.4595437	101.5931451	99.78106804	98.02128901	96.31187493	94.65097865	93.03683444
ADV1023380	3/19/2026	3.849	9/17/2026	101.5733	101.1782256	100.7862149	100.3972298	100.0112353	99.62819701	99.24808085	98.87085342	98.49648179
ADV1023814	4/6/2026	3.835	5/6/2026	100.07037	100.0536811	100.0370087	100.0203532	100.0037145	99.98709255	99.97048733	99.95389881	99.93732697
ADV1023400	3/19/2026	3.812	3/19/2029	111.10963	108.1107549	105.2095182	102.4022135	99.68529634	97.0553758	94.5092069	92.04368357	89.65583186
ADV1023463	3/23/2026	3.869	6/23/2026	100.61308	100.4619461	100.3112782	100.1610701	100.0113196	99.86202461	99.71318307	99.56479289	99.41685199
ADV1023484	3/24/2026	4.228	3/12/2032	123.3554	117.028492	111.0763793	105.4747973	100.2011789	95.23452305	90.55527825	86.14523577	81.98743075
ADV1023938	4/13/2026	3.838	5/13/2026	100.14747	100.1113141	100.0751999	100.0391291	100.0031017	99.96711749	99.9311765	99.8952786	99.85942371
ADV1024473	4/30/2026	3.839	5/29/2026	100.3238	100.2431593	100.1626495	100.0822722	100.002027	99.92191358	99.84193172	99.76208107	99.6823613
ADV1024258	4/23/2026	3.841	5/26/2026	100.29148	100.2191451	100.1469252	100.074818	100.0028235	99.93094123	99.85917104	99.78751266	99.71596581
ADV1023975	4/14/2026	3.847	1/10/2029	110.31895	107.5297763	104.8262963	102.2053147	99.66378135	97.19878183	94.80752991	92.48736099	90.23572579
ADV1023154	3/10/2026	3.836	6/10/2026	100.46488	100.3501237	100.2356434	100.1214364	100.0075015	99.89383789	99.78044446	99.66732024	99.55446422
ADV1023286	3/16/2026	3.767	3/16/2027	103.4222	102.5238655	101.641156	100.7736704	99.92101679	99.08281661	98.2587041	97.44832575	96.65133982
ADV1024211	4/22/2026	3.823	4/22/2027	103.86335	102.8598101	101.8756941	100.9104393	99.96350663	99.03437749	98.12255263	97.22755133	96.34891056
ADV1023875	4/8/2026	4.455	3/27/2036	137.59433	126.5917367	116.6102265	107.5482047	99.31472085	91.82830617	85.01593929	78.81212972	73.15810494
ADV1023233	3/13/2026	4.507	2/24/2037	140.55293	128.4820255	117.6182497	107.8323795	99.00972417	91.04842282	83.85794676	77.35778393	71.47628194
ADV1023739	4/2/2026	3.815	4/2/2027	103.70391	102.7560884	101.8256054	100.9119913	100.0147902	99.13356214	98.26788322	97.41734418	96.58155007
ADV1024298	4/27/2026	3.841	5/26/2026	100.29089	100.2185857	100.1463965	100.07432	100.0023561	99.93050438	99.85876472	99.78713681	99.71562039
ADV1024029	4/15/2026	3.877	4/16/2029	111.40112	108.3240432	105.349522	102.4735685	99.6923731	97.00229562	94.39985667	91.88172951	89.44473246
ADV1023350	3/18/2026	3.802	3/20/2028	107.18272	105.248967	103.3599986	101.5145082	99.71123716	97.94897165	96.22654056	94.54281375	92.89670033
ADV1024146	4/20/2026	3.829	5/22/2026	100.24649	100.185292	100.124181	100.0631588	100.002225	99.9413796	99.88062232	99.81995298	99.75937139
ADV1024359	4/28/2026	3.835	10/28/2026	102.01348	101.5030298	100.9976636	100.4973059	100.0018827	99.51132128	99.02555037	98.54450013	98.06810206
ADV1023914	4/10/2026	3.835	5/11/2026	100.12551	100.0949118	100.0643482	100.0338197	100.0033262	99.97286756	99.94244384	99.91205491	99.88170072
ADV1024213	4/22/2026	3.827	2/22/2027	103.24111	102.4048126	101.5820785	100.7725791	99.97599645	99.19202298	98.42036072	97.66072104	96.91282427
ADV1024119	4/20/2026	3.831	5/18/2026	100.20204	100.1519837	100.1019976	100.0520786	100.0022264	99.95244102	99.90272224	99.85306996	99.80348402
ADV1023079	3/6/2026	3.792	3/6/2031	117.77866	112.6445907	107.769382	103.1386211	98.73876713	94.55709727	90.581653	86.80119056	83.20513469
ADV1024060	4/16/2026	3.835	1/19/2027	102.88947	102.1492519	101.4197059	100.7005975	99.99170349	99.29280708	98.60369747	97.92416982	97.25402495
ADV1024360	4/28/2026	3.854	4/28/2027	103.95709	102.9363595	101.9356991	100.9545191	99.99225418	99.04836092	98.12231642	97.21361747	96.32177965
ADV1024058	4/16/2026	3.839	5/14/2026	100.15822	100.1192942	100.0804116	100.0415769	100.0027899	99.96405056	99.92535877	99.88671443	99.84811747
ADV1023846	4/7/2026	3.84	11/9/2026	102.14801	101.6019781	101.0617452	100.5272234	99.99832242	99.474954	98.95703158	98.44447044	97.93718762
ADV1023220	3/13/2026	3.842	5/13/2026	100.15217	100.1158949	100.0796615	100.0434716	100.0073253	99.9712223	99.93516265	99.89914625	99.86317299

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1024489	4/30/2026	3.843	7/6/2026	100.74867	100.5616926	100.3754218	100.1898488	100.0049696	99.82078027	99.63727693	99.45445569	99.27231272
ADV1024393	4/29/2026	3.838	7/29/2026	101.00445	100.7527328	100.5022702	100.253051	100.0050661	99.7583062	99.51276238	99.26842565	99.02528712
ADV1024315	4/27/2026	3.84	7/27/2026	100.98293	100.7367976	100.4918704	100.2481362	100.0055863	99.7642121	99.524005	99.28495657	99.04705844
ADV1024092	4/17/2026	3.833	5/18/2026	100.20258	100.1525089	100.1025068	100.0525718	100.0027037	99.95290235	99.90316767	99.85349949	99.80389768
ADV1023808	4/6/2026	3.834	5/4/2026	100.04807	100.0369445	100.0258312	100.0147285	100.0036363	99.99255471	99.98148365	99.97042313	99.95937312
ADV1024333	4/27/2026	3.84	7/27/2026	100.98293	100.7367976	100.4918704	100.2481362	100.0055863	99.7642121	99.524005	99.28495657	99.04705844
ADV1024331	4/27/2026	3.839	5/26/2026	100.29074	100.2184411	100.146252	100.0741756	100.0022118	99.93036027	99.85862072	99.78699292	99.71547662
ADV1023103	3/9/2026	3.759	12/9/2026	102.41412	101.7896833	101.1728754	100.5635531	99.96158035	99.36682458	98.77915632	98.19844923	97.62457992
ADV1024404	4/29/2026	3.993	3/9/2028	107.43137	105.5251367	103.6624176	101.8419635	100.0625681	98.32306755	96.62233816	94.95929508	93.33289056
ADV1023976	4/14/2026	3.886	10/12/2029	113.24088	109.6356003	106.1666057	102.8280054	99.61419656	96.51984787	93.53988498	90.66947655	87.90402128
ADV1023149	3/10/2026	3.802	8/10/2026	101.13584	100.8487824	100.5633578	100.2795484	99.99734065	99.7167208	99.43767542	99.16019121	98.88425499
ADV1024104	4/17/2026	3.834	5/1/2026	100.01304	100.0102607	100.0074862	100.0047141	100.0019444	99.99917713	99.99641226	99.99364979	99.99088972
ADV1023232	3/13/2026	4.448	3/14/2036	137.42494	126.4656589	116.5203916	107.4885513	99.28006218	91.81421025	85.01862489	78.8283766	73.18517625
ADV1023538	3/26/2026	3.941	2/19/2027	103.30231	102.4741202	101.6592285	100.8573175	100.0680783	99.291212	98.52642888	97.7734483	97.03199821
ADV1024422	4/29/2026	3.847	5/6/2026	100.06721	100.0505587	100.0339271	100.0173122	100.0007141	99.98413265	99.96756794	99.9510199	99.93448849
ADV1024347	4/28/2026	3.844	5/5/2026	100.05613	100.042261	100.0284008	100.0145542	100.0007212	99.98690168	99.97309573	99.95930329	99.94552434
ADV1023550	3/26/2026	3.875	9/28/2026	101.70609	101.2798009	100.8570616	100.4378241	100.0220452	99.60968219	99.20069317	98.79503691	98.39267285
ADV1023166	3/11/2026	3.677	3/11/2027	103.34473	102.4599393	101.5903194	100.7354805	99.89504753	99.06865821	98.25596215	97.4566206	96.67030591
ADV1023087	3/6/2026	3.679	4/30/2029	110.94278	107.8332024	104.8286168	101.9248903	99.11807425	96.40439803	93.78025974	91.24221763	88.78698201
ADV1024001	4/15/2026	3.838	6/15/2026	100.5157	100.3873831	100.2594038	100.1317653	100.0044662	99.8775051	99.75088065	99.62459146	99.49863614
ADV1024358	4/28/2026	3.838	7/28/2026	100.99344	100.7445211	100.4968267	100.2503505	100.0050834	99.76101666	99.51814141	99.27644896	99.0359307
ADV1023965	4/14/2026	3.848	7/14/2026	100.84146	100.6316488	100.4227255	100.214682	100.0075125	99.80121156	99.59577361	99.39119318	99.18746483
ADV1023870	4/8/2026	4.001	3/28/2031	119.00549	113.7809251	108.8223426	104.1147755	99.64417578	95.39735317	91.36191844	87.52623078	83.8793488
ADV1023616	3/30/2026	3.852	6/30/2026	100.68783	100.5171317	100.3470058	100.1774507	100.0084636	99.84004164	99.67218198	99.50488186	99.33813852
ADV1024327	4/27/2026	3.84	6/30/2026	100.6816	100.5114115	100.341794	100.1727455	100.0042633	99.83634456	99.66898646	99.50218622	99.33594108
ADV1024361	4/28/2026	3.838	7/28/2026	100.99344	100.7445211	100.4968267	100.2503505	100.0050834	99.76101666	99.51814141	99.27644896	99.0359307
ADV1024036	4/15/2026	3.837	4/15/2027	103.8041	102.8203576	101.8552877	100.9083664	99.97908463	99.06695212	98.17149671	97.29226345	96.42881379
ADV1024314	4/27/2026	3.838	5/27/2026	100.30184	100.2267449	100.1517741	100.0769225	100.0021899	99.92757585	99.8530802	99.77870264	99.70444291
ADV1024392	4/29/2026	3.838	6/29/2026	100.66981	100.502459	100.3356668	100.1694272	100.0037375	99.83859505	99.6739971	99.509941	99.3464241
ADV1024415	4/29/2026	3.843	7/29/2026	101.0057	100.7539804	100.5035146	100.2542923	100.0063043	99.75954136	99.51399446	99.26965467	99.02651309
ADV1023840	4/7/2026	3.843	5/7/2026	100.08153	100.0620609	100.0426104	100.0231801	100.00377	99.98437986	99.96500982	99.9456598	99.92632977
ADV1023831	4/7/2026	3.849	11/9/2026	102.15285	101.6067867	101.0665253	100.5319752	100.0030464	99.47965032	98.96170056	98.44911237	97.94180277
ADV1023832	4/7/2026	3.849	12/7/2026	102.44957	101.8305679	101.2190594	100.6149045	100.0179709	99.42812936	98.84525399	98.26922167	97.69991223

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023146	3/10/2026	3.669	3/12/2029	110.44347	107.4776707	104.6078496	101.8303827	99.14180754	96.53881053	94.01821978	91.57699819	89.21223698
ADV1023486	3/24/2026	3.861	5/26/2026	100.29738	100.2248113	100.1523584	100.0800188	100.0077921	99.93567807	99.86367646	99.79178701	99.72000946
ADV1023172	3/16/2026	3.73	3/16/2028	107.00542	105.0842736	103.2073939	101.3735012	99.58135762	97.82976871	96.11758204	94.44368524	92.80700436
ADV1023225	3/13/2026	3.847	7/13/2026	100.83488	100.6271849	100.4203571	100.2143888	100.0092746	99.805009	99.60158679	99.39900264	99.19725129
ADV1023936	4/13/2026	3.838	5/13/2026	100.14747	100.1113141	100.0751999	100.0391291	100.0031017	99.96711749	99.9311765	99.8952786	99.85942371
ADV1023577	3/27/2026	3.843	5/22/2026	100.25089	100.1895338	100.128266	100.0670872	100.0059971	99.94499557	99.8840824	99.8232574	99.76252038
ADV1023290	3/16/2026	3.778	12/15/2028	109.87054	107.1585976	104.5283299	101.9767589	99.50103906	97.09844803	94.76637997	92.50233985	90.3039379
ADV1023973	4/14/2026	3.846	2/14/2028	106.90198	105.0688471	103.2763383	101.5232521	99.80842962	98.13075619	96.48915915	94.88260585	93.31010179
ADV1023237	3/13/2026	3.796	3/15/2027	103.43816	102.5425344	101.6624386	100.797475	99.94725518	99.11140405	98.28955904	97.48136972	96.68649729
ADV1024436	4/30/2026	3.843	6/26/2026	100.63698	100.4780608	100.3196481	100.16174	100.0043341	99.84742783	99.69101895	99.53510506	99.37968381
ADV1023879	4/8/2026	3.889	4/9/2029	111.36648	108.3097208	105.3542029	102.4960168	99.7314248	97.05685419	94.4688889	91.96426177	89.53984718
ADV1023487	3/24/2026	4.231	3/19/2032	123.43201	117.0834936	111.1121294	105.4934325	100.2046331	95.22454609	90.533453	86.11299333	81.94606447
ADV1024179	4/21/2026	3.837	6/22/2026	100.59276	100.4449056	100.2974995	100.1505364	100.0040144	99.85793142	99.71228547	99.56707458	99.42229678
ADV1023916	4/10/2026	3.839	7/3/2026	100.71744	100.5385118	100.3602203	100.1825628	100.0055358	99.82913607	99.65336021	99.47820491	99.30366687
ADV1023602	3/30/2026	4.304	3/30/2033	127.09761	119.575092	112.5660201	106.0323968	99.93923129	94.25428547	88.94784395	83.99250443	79.36298657
ADV1023077	3/6/2026	3.681	9/7/2027	105.07002	103.69345	102.341608	101.0138859	99.70969313	98.42845773	97.16962599	95.93266151	94.71704465
ADV1023165	3/11/2026	3.677	3/11/2027	103.34473	102.4599393	101.5903194	100.7354805	99.89504753	99.06865821	98.25596215	97.4566206	96.67030591
ADV1024253	4/23/2026	3.841	5/26/2026	100.29148	100.2191451	100.1469252	100.074818	100.0028235	99.93094123	99.85917104	99.78751266	99.71596581
ADV1024173	4/21/2026	3.886	4/23/2029	111.49894	108.4006105	105.4061772	102.5115765	99.71292579	97.00651602	94.38880312	91.85639955	89.40606645
ADV1023921	4/10/2026	3.841	7/10/2026	100.79594	100.5973134	100.3994801	100.2024352	100.006174	99.81069171	99.61598362	99.42204509	99.22887149
ADV1023136	3/10/2026	3.623	3/10/2027	103.28714	102.4054141	101.5387574	100.6867865	99.84912975	99.02542831	98.21533509	97.41851444	96.63464171
ADV1023483	3/24/2026	4.22	3/12/2032	123.30797	116.9824414	111.0316466	105.4313264	100.1589165	95.19341853	90.51528373	86.1063057	81.94952188
ADV1024042	4/15/2026	3.842	8/5/2026	101.08585	100.8139754	100.5435666	100.274609	100.0070908	99.74100044	99.47632654	99.21305773	98.95118282
ADV1023650	3/31/2026	3.863	9/17/2026	101.57692	101.1823161	100.7907733	100.4022526	100.0167189	99.63413777	99.25447534	98.87769819	98.50377343
ADV1024094	4/17/2026	3.805	11/30/2028	109.7915	107.1216804	104.5313401	102.0176255	99.57780152	97.20924967	94.90946176	92.67603463	90.50666492
ADV1024407	4/29/2026	3.991	4/28/2028	107.96128	105.9111562	103.9109949	101.9592662	100.0544936	98.19525599	96.38018519	94.60796353	92.87732164
ADV1024061	4/16/2026	3.838	5/15/2026	100.16934	100.1276237	100.0859609	100.0443506	100.0027925	99.96128668	99.91983292	99.87843115	99.83708127
ADV1023704	4/1/2026	3.845	11/2/2026	102.07701	101.550728	101.0298277	100.5142282	100.003849	99.49861135	98.9984378	98.50325264	98.01298159
ADV1023279	3/16/2026	3.697	3/16/2027	103.41358	102.5145379	101.6311481	100.763005	99.90971588	99.07090134	98.24619482	97.43524208	96.63770066
ADV1024214	4/22/2026	3.87	10/22/2027	105.76258	104.2569641	102.7806285	101.332788	99.91268894	98.51960399	97.15283068	95.81169041	94.49552746
ADV1023289	3/16/2026	3.768	9/15/2028	108.92338	106.4760809	104.0967342	101.7830728	99.53292098	97.34418797	95.21486409	93.14301706	91.12678855
ADV1024455	4/30/2026	3.841	5/29/2026	100.32396	100.2433203	100.1628104	100.0824329	100.0021876	99.92207407	99.84209208	99.7622413	99.6825214
ADV1023792	4/7/2026	3.848	6/30/2026	100.68595	100.5153978	100.3454178	100.176008	100.0071657	99.83888802	99.6711722	99.50401544	99.33741497

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1024356	4/28/2026	3.839	7/28/2026	100.99369	100.7447679	100.4970729	100.250596	100.0053284	99.76126098	99.51838512	99.27669207	99.0361732
ADV1024030	4/15/2026	3.943	4/15/2030	115.34449	111.1781799	107.1886752	103.3675235	99.70671799	96.19867558	92.83621208	89.61251911	86.52114238
ADV1023084	3/6/2026	3.615	3/8/2027	103.26037	102.3843555	101.5232171	100.6765791	99.84407713	99.02535882	98.22008355	97.42792182	96.64855483
ADV1024021	4/15/2026	3.877	4/18/2029	111.42155	108.3385212	105.3584305	102.4772649	99.69119414	96.99655859	94.38986054	91.86775602	89.42704718
ADV1024137	4/20/2026	3.831	5/18/2026	100.20204	100.1519837	100.1019976	100.0520786	100.0022264	99.95244102	99.90272224	99.85306996	99.80348402
ADV1023597	3/30/2026	3.854	6/29/2026	100.67697	100.5090839	100.3417549	100.1749804	100.0087575	99.84308367	99.67795607	99.51337206	99.34932898
ADV1024180	4/21/2026	3.834	5/19/2026	100.21319	100.1603603	100.107599	100.0549099	100.0022929	99.94974779	99.89727447	99.84487276	99.79254251
ADV1023723	4/1/2026	3.851	6/29/2026	100.67617	100.5083175	100.3410252	100.1742873	100.0081009	99.8424634	99.67737203	99.51282413	99.34881704
ADV1023264	3/16/2026	3.811	6/12/2026	100.48325	100.3629633	100.2429736	100.1232841	100.0038935	99.88480068	99.76600447	99.64750374	99.52929734
ADV1024478	4/30/2026	3.997	5/2/2029	111.92776	108.7976295	105.7732004	102.8503033	100.0249599	97.29337128	94.65190888	92.09710569	89.62564806
ADV1023586	3/27/2026	3.861	10/27/2026	102.02051	101.5111529	101.0068404	100.5075005	100.0130601	99.52344735	99.03859178	98.55842437	98.08287742
ADV1024307	4/27/2026	3.841	5/27/2026	100.30206	100.2269701	100.1519991	100.0771474	100.0024145	99.92780029	99.85330446	99.77892671	99.70466679
ADV1023753	4/2/2026	3.836	7/2/2026	100.70695	100.5306856	100.355037	100.1800015	100.0055757	99.83175667	99.65854111	99.4859259	99.31390793
ADV1023657	3/31/2026	3.878	6/30/2026	100.69212	100.5214261	100.3513071	100.181759	100.0127788	99.8443637	99.67651091	99.50921763	99.3424811
ADV1023746	4/2/2026	3.828	5/4/2026	100.04858	100.0374512	100.0263332	100.0152258	100.004129	99.99304275	99.98196705	99.97090189	99.95984724
ADV1023588	3/27/2026	3.858	3/29/2027	103.6974	102.7607417	101.8410246	100.9377887	100.0505934	99.1790141	98.32264069	97.48107751	96.65394248
ADV1024398	4/29/2026	3.847	4/29/2027	104.02175	102.9970044	101.9924699	101.0075532	100.0416833	99.09431132	98.16490915	97.25296871	96.35800088
ADV1023881	4/8/2026	4.454	2/15/2036	137.25932	126.3867791	116.5132876	107.5403707	99.37978925	91.95242472	85.18729148	79.02066108	73.39528471
ADV1023443	3/23/2026	3.884	7/23/2026	100.95389	100.7181291	100.4834772	100.2499231	100.0174588	99.7860768	99.55576947	99.32652927	99.09834878
ADV1024471	4/30/2026	3.839	5/29/2026	100.3238	100.2431593	100.1626495	100.0822722	100.002027	99.92191358	99.84193172	99.76208107	99.6823613
ADV1023288	3/16/2026	3.769	6/15/2028	107.99841	105.8153819	103.6878551	101.6140298	99.59217911	97.62064517	95.69783632	93.82222363	91.99233791
ADV1024456	4/30/2026	3.841	5/29/2026	100.32396	100.2433203	100.1628104	100.0824329	100.0021876	99.92207407	99.84209208	99.7622413	99.6825214
ADV1023873	4/8/2026	4.123	3/26/2032	122.84922	116.4984536	110.5263643	104.9082887	99.62129436	94.64405027	89.95670668	85.54078522	81.37907739
ADV1024033	4/15/2026	4.217	4/15/2033	126.6272	119.0756042	112.0428341	105.4902534	99.38229885	93.68622251	88.37185521	83.41139086	78.77918983
ADV1023900	4/9/2026	3.841	5/11/2026	100.12585	100.095243	100.064676	100.0341441	100.0036472	99.97318521	99.94275809	99.91236577	99.8820082
ADV1024351	4/28/2026	3.835	10/28/2026	102.01348	101.5030298	100.9976636	100.4973059	100.0018827	99.51132128	99.02555037	98.54450013	98.06810206
ADV1024209	4/22/2026	3.837	5/22/2026	100.24669	100.1855023	100.1244038	100.0633941	100.0024728	99.94163991	99.88089511	99.82023823	99.75966908
ADV1024218	4/22/2026	3.842	9/22/2026	101.62111	101.2132083	100.8085791	100.407179	100.0089694	99.61391224	99.22197021	98.83310652	98.44728494
ADV1024140	4/20/2026	3.81	10/20/2027	105.65403	104.1546774	102.684381	101.2423679	99.82789268	98.44023555	97.0787014	95.74261866	94.4313383
ADV1023110	3/9/2026	3.705	3/9/2029	110.51956	107.5608575	104.697639	101.9263173	99.24345607	96.64576648	94.13009978	91.69344073	89.33290114
ADV1024193	4/21/2026	3.84	7/21/2026	100.91686	100.6874964	100.4591841	100.231917	100.0056879	99.78048971	99.5563153	99.33315764	99.11100977
ADV1023035	3/4/2026	3.743	3/4/2031	117.52154	112.3991897	107.534933	102.9144082	98.52412564	94.35140962	90.38434533	86.61172942	83.02302404
ADV1024181	4/21/2026	3.835	5/19/2026	100.21325	100.1604133	100.107652	100.0549629	100.0023458	99.94980071	99.89732735	99.8449256	99.79259531

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023917	4/10/2026	3.83	5/1/2026	100.01405	100.0112661	100.0084895	100.0057154	100.0029436	100.0001743	99.99740737	99.99464285	99.99188073
ADV1024438	4/30/2026	3.841	6/18/2026	100.54735	100.4108392	100.2747122	100.1389684	100.0036061	99.86862378	99.73401972	99.59979233	99.46593998
ADV1024475	4/30/2026	3.846	1/29/2027	103.00096	102.2325022	101.4755168	100.7297485	99.99494902	99.27087767	98.55730059	97.8539907	97.16072746
ADV1023752	4/2/2026	3.829	5/4/2026	100.04859	100.0374634	100.0263454	100.015238	100.0041411	99.99305488	99.98197917	99.970914	99.95985934
ADV1023888	4/8/2026	3.855	6/26/2026	100.64217	100.4828801	100.3240935	100.1658127	100.0080352	99.85075857	99.69398049	99.53769857	99.38191045
ADV1024446	4/30/2026	3.843	8/31/2026	101.37488	101.0298503	100.6871586	100.3467803	100.008692	99.6728707	99.33929381	99.0079389	98.67878389
ADV1024395	4/29/2026	3.846	5/13/2026	100.14541	100.1093171	100.0732642	100.0372546	100.0012884	99.96536526	99.92948526	99.89364829	99.85785425
ADV1024032	4/15/2026	4.111	4/15/2032	122.94088	116.5310069	110.5066405	104.8424541	99.51491315	94.50214092	89.78379354	85.34094491	81.15598088
ADV1023420	3/20/2026	3.843	5/20/2026	100.22956	100.1737538	100.1180222	100.0623684	100.0067923	99.95129362	99.89587232	99.84052818	99.78526104
ADV1024319	4/27/2026	3.84	5/27/2026	100.30199	100.2268951	100.1519241	100.0770724	100.0023396	99.92772548	99.8532297	99.77885202	99.70459217
ADV1024474	4/30/2026	3.859	4/30/2027	103.98315	102.9567277	101.9505902	100.9641401	99.99680341	99.04802819	98.11728361	97.20405892	96.30786251
ADV1024259	4/23/2026	3.841	5/21/2026	100.23562	100.1772213	100.1189101	100.060682	100.0025368	99.94447419	99.88649411	99.82859637	99.77078077
ADV1023829	4/7/2026	3.857	9/8/2026	101.47274	101.1040944	100.7381186	100.374786	100.0140679	99.65593619	99.30036296	98.94732082	98.59678274
ADV1023481	3/24/2026	3.868	6/24/2026	100.62402	100.4700893	100.3166404	100.1636667	100.0111659	99.8591359	99.70757443	99.55647935	99.40584848
ADV1023130	3/10/2026	3.766	10/13/2026	101.82456	101.3548231	100.8893893	100.4282023	99.97120403	99.51833751	99.06954679	98.62477692	98.18397395
ADV1024281	4/24/2026	3.836	6/12/2026	100.4805	100.3607002	100.2411973	100.1219933	100.0030871	99.88447736	99.76616309	99.64814309	99.53041622
ADV1023738	4/2/2026	3.829	5/4/2026	100.04859	100.0374634	100.0263454	100.015238	100.0041411	99.99305488	99.98197917	99.970914	99.95985934
ADV1024472	4/30/2026	3.843	7/31/2026	101.02789	100.770555	100.5145263	100.2597923	100.0063431	99.7541692	99.50326093	99.25360886	99.00520361
ADV1024350	4/28/2026	3.838	8/28/2026	101.33993	101.0033471	100.6689933	100.3368482	100.0068899	99.67909686	99.3534479	99.02992201	98.70849848
ADV1023251	3/13/2026	3.823	9/14/2026	101.53075	101.1440542	100.7602944	100.3794345	100.0014416	99.62628334	99.25392786	98.88434369	98.51749991
ADV1023367	3/18/2026	3.832	7/13/2026	100.83102	100.6234433	100.4167345	100.2108848	100.0058886	99.8017406	99.59843547	99.39596791	99.19433269
ADV1024437	4/30/2026	3.847	5/7/2026	100.07824	100.0588146	100.0394117	100.0200289	100.0006662	99.98132355	99.9620009	99.94269823	99.92341549
ADV1024210	4/22/2026	3.824	3/22/2027	103.53623	102.620634	101.7212549	100.8376648	99.96944992	99.11621109	98.27756275	97.45313249	96.64256051
ADV1023155	3/10/2026	3.683	3/10/2028	106.85873	104.9553027	103.0954033	101.2777805	99.50122637	97.76457489	96.06670072	94.40651732	92.78297541
ADV1024297	4/27/2026	3.841	5/26/2026	100.29089	100.2185857	100.1463965	100.07432	100.0023561	99.93050438	99.85876472	99.78713681	99.71562039
ADV1024457	4/30/2026	3.843	6/30/2026	100.68166	100.5115252	100.3419607	100.1729651	100.0045356	99.83666938	99.66936362	99.50261555	99.33642242
ADV1024219	4/22/2026	3.89	4/24/2028	107.71575	105.6793829	103.6923978	101.7532853	99.86059353	98.01292488	96.20893335	94.44732247	92.72684299
ADV1024067	4/16/2026	3.84	8/12/2026	101.16345	100.8718042	100.5818469	100.2935634	100.006939	99.72195942	99.43861037	99.15687781	98.87674784
ADV1024190	4/21/2026	3.842	8/19/2026	101.24161	100.9302927	100.6208991	100.3134085	100.0078034	99.70406639	99.40218029	99.10212812	98.80389314
ADV1023036	3/4/2026	3.69	3/4/2030	113.93958	109.9176248	106.0620425	102.3650821	98.81939684	95.41801774	92.15433253	89.02206542	86.01525824
ADV1023478	3/24/2026	3.87	6/24/2026	100.62432	100.470397	100.3169473	100.1639729	100.0114713	99.85944054	99.70787831	99.55678246	99.40615082
ADV1024439	4/30/2026	3.841	5/29/2026	100.32396	100.2433203	100.1628104	100.0824329	100.0021876	99.92207407	99.84209208	99.7622413	99.6825214
ADV1023016	3/3/2026	3.822	8/3/2026	101.06464	100.79724	100.5312433	100.2666418	100.0034244	99.74158026	99.48109864	99.22196893	98.96418061

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023139	3/10/2026	3.833	6/8/2026	100.44225	100.3331161	100.2242277	100.115586	100.0071903	99.89903965	99.79113316	99.68346998	99.57604927
ADV1024329	4/27/2026	3.839	5/27/2026	100.30191	100.22682	100.1518491	100.0769975	100.0022648	99.92765066	99.85315495	99.77877733	99.70451754
ADV1024091	4/17/2026	3.833	5/18/2026	100.20258	100.1525089	100.1025068	100.0525718	100.0027037	99.95290235	99.90316767	99.85349949	99.80389768
ADV1023671	3/31/2026	3.874	5/4/2026	100.04944	100.0383038	100.027183	100.0160727	100.0049731	99.99388402	99.9828055	99.97173751	99.96068004
ADV1024057	4/16/2026	3.838	5/18/2026	100.20298	100.1529029	100.1028953	100.0529547	100.0030811	99.95327426	99.90353408	99.85386041	99.80425312
ADV1023845	4/7/2026	3.841	5/7/2026	100.08149	100.0620203	100.0425699	100.0231396	100.0037294	99.98433937	99.96496937	99.94561938	99.92628939
ADV1024280	4/24/2026	3.842	5/15/2026	100.16833	100.126652	100.0850246	100.0434495	100.0019267	99.96045608	99.91903747	99.8776708	99.83635598
ADV1023640	3/31/2026	3.918	3/30/2029	111.34688	108.318557	105.389634	102.55631	99.81494719	97.16206712	94.59434224	92.1085887	89.70175925
ADV1024228	4/22/2026	3.838	8/26/2026	101.31848	100.9873615	100.658401	100.3315812	100.0068813	99.68428051	99.36375867	99.04529566	98.72887168
ADV1023793	4/6/2026	3.848	7/3/2026	100.71965	100.5406391	100.3622683	100.1845318	100.0074261	99.83094793	99.65509393	99.47986076	99.30524513
ADV1024355	4/28/2026	3.84	5/28/2026	100.31301	100.235137	100.1573922	100.0797732	100.0022796	99.92491123	99.84766772	99.7705488	99.69355416
ADV1024434	4/30/2026	3.838	6/5/2026	100.4018	100.3016271	100.2016626	100.1019053	100.0023544	99.90300935	99.80386946	99.70493407	99.60620253
ADV1023083	3/6/2026	3.572	3/6/2028	106.72699	104.8336097	102.9833425	101.1749547	99.4072551	97.67909361	95.98936005	94.33698236	92.72092505
ADV1023551	3/26/2026	3.961	3/26/2027	103.70392	102.7763633	101.8654249	100.9706604	100.0916414	99.22795459	98.37920083	97.5449949	96.72496468
ADV1023018	3/3/2026	3.597	3/3/2028	106.63107	104.7488461	102.9092849	101.111168	99.35332188	97.63461382	95.95394988	94.31027353	92.70256412
ADV1024316	4/27/2026	3.839	5/27/2026	100.30191	100.22682	100.1518491	100.0769975	100.0022648	99.92765066	99.85315495	99.77877733	99.70451754
ADV1023877	4/8/2026	4.458	4/15/2036	137.7719	126.7081908	116.6759887	107.5721746	99.30448605	91.79032475	84.95569778	78.73427918	73.06657842
ADV1023167	3/11/2026	3.835	6/10/2026	100.46461	100.3498721	100.2354042	100.1212095	100.0072869	99.8936356	99.78025442	99.66714241	99.55429858
ADV1022988	3/6/2026	3.866	5/6/2026	100.07549	100.0587405	100.0420124	100.0253012	100.0086068	99.99192925	99.9752685	99.9586245	99.94199724
ADV1023033	3/4/2026	3.55	3/5/2029	110.21433	107.2669227	104.4144278	101.6532875	98.98009442	96.39158673	93.88464133	91.45626714	89.10359877
ADV1023825	4/7/2026	3.842	5/7/2026	100.08151	100.0620406	100.0425902	100.0231599	100.0037497	99.98435962	99.96498959	99.94563959	99.92630958
ADV1023918	4/10/2026	3.834	5/11/2026	100.12548	100.0948805	100.0643169	100.0337884	100.0032949	99.97283637	99.94241267	99.91202377	99.88166961
ADV1024444	4/30/2026	3.84	5/12/2026	100.13389	100.1005786	100.0673049	100.0340704	100.0008748	99.9677182	99.93460046	99.90152152	99.86848129
ADV1024308	4/27/2026	3.841	5/27/2026	100.30206	100.2269701	100.1519991	100.0771474	100.0024145	99.92780029	99.85330446	99.77892671	99.70466679
ADV1023810	4/6/2026	3.835	5/6/2026	100.07037	100.0536811	100.0370087	100.0203532	100.0037145	99.98709255	99.97048733	99.95389881	99.93732697
ADV1023234	3/13/2026	4.024	8/29/2031	120.50619	114.8116462	109.4279522	104.3364707	99.51977512	94.96156587	90.64659156	86.56057654	82.69015368
ADV1023946	4/13/2026	3.84	5/13/2026	100.14755	100.1113875	100.0752733	100.0392025	100.003175	99.96719072	99.93124967	99.8953517	99.85949675
ADV1024397	4/29/2026	3.847	5/6/2026	100.06721	100.0505587	100.0339271	100.0173122	100.0007141	99.98413265	99.96756794	99.9510199	99.93448849
ADV1024283	4/24/2026	3.832	8/24/2026	101.29388	100.9685073	100.6452242	100.3240126	100.0048526	99.68772453	99.37260897	99.05948676	98.748339
ADV1023837	4/7/2026	3.837	3/8/2027	103.40064	102.5246717	101.6635699	100.8169542	99.98446081	99.16573817	98.36044617	97.56825588	96.78884904
ADV1024100	4/17/2026	3.793	1/19/2027	102.85863	102.11854	101.3891185	100.6701333	99.96136124	99.26258556	98.5735955	97.8941862	97.22415853
ADV1023051	3/5/2026	3.849	6/5/2026	100.41121	100.3104379	100.2098761	100.1095227	100.0093769	99.90943826	99.80970597	99.7101794	99.6108579
ADV1024286	4/24/2026	3.847	5/8/2026	100.0903	100.0680815	100.045891	100.0237241	100.0015808	99.97946108	99.9573648	99.93529197	99.91324255

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1024208	4/22/2026	3.837	5/22/2026	100.24669	100.1855023	100.1244038	100.0633941	100.0024728	99.94163991	99.88089511	99.82023823	99.75966908
ADV1023998	4/15/2026	3.84	5/15/2026	100.16957	100.1278505	100.0861832	100.0445684	100.0030059	99.96149553	99.9200373	99.87863106	99.83727672
ADV1024302	4/27/2026	3.841	5/26/2026	100.29089	100.2185857	100.1463965	100.07432	100.0023561	99.93050438	99.85876472	99.78713681	99.71562039
ADV1023515	3/25/2026	4.073	3/21/2031	119.29516	114.0828224	109.1348029	104.4362864	99.97336111	95.73296142	91.70281238	87.87137781	84.2278122
ADV1024166	4/21/2026	3.839	7/21/2026	100.91663	100.6872688	100.458957	100.2316905	100.005462	99.78026434	99.55609048	99.33293338	99.11078607
ADV1024256	4/23/2026	3.841	5/26/2026	100.29148	100.2191451	100.1469252	100.074818	100.0028235	99.93094123	99.85917104	99.78751266	99.71596581
ADV1024131	4/20/2026	3.834	6/22/2026	100.59246	100.4445966	100.2971756	100.1501978	100.003661	99.85756332	99.71190271	99.5666772	99.42188482
ADV1024124	4/20/2026	3.832	5/14/2026	100.15736	100.1184487	100.0795829	100.0407649	100.0019946	99.96327187	99.92459671	99.885969	99.84738863
ADV1024299	4/27/2026	3.841	5/26/2026	100.29089	100.2185857	100.1463965	100.07432	100.0023561	99.93050438	99.85876472	99.78713681	99.71562039
ADV1023311	3/17/2026	3.803	5/12/2026	100.13905	100.1055856	100.0721579	100.0387694	100.0054202	99.97211006	99.93883899	99.9056069	99.8724137
ADV1024230	4/22/2026	3.838	9/2/2026	101.39667	101.0456786	100.6971074	100.3509313	100.0071259	99.66566682	99.32653011	98.98969218	98.65512972
ADV1023867	4/8/2026	3.845	5/7/2026	100.08143	100.0619569	100.0425085	100.0230802	100.0036721	99.98428401	99.964916	99.94556801	99.92624001
ADV1024465	4/30/2026	3.844	7/29/2026	101.0058	100.7541055	100.5036656	100.2544691	100.0065066	99.75976916	99.51424762	99.26993305	99.02681658
ADV1024028	4/15/2026	3.866	4/17/2028	107.59537	105.5798894	103.6128359	101.6927422	99.81819715	97.98784199	96.2003677	94.45451293	92.74906184
ADV1023883	4/8/2026	4.514	1/30/2037	140.44295	128.451626	117.6523712	107.9182246	99.13645605	91.20689541	84.04047024	77.55792033	71.6886675
ADV1024476	4/30/2026	3.84	8/31/2026	101.37385	101.0288281	100.6861399	100.3457651	100.0076802	99.6718623	99.33828878	99.00693722	98.67778554
ADV1023614	3/30/2026	3.854	9/30/2026	101.719	101.287217	100.859068	100.434508	100.0134921	99.59597597	99.18191637	98.77127055	98.36399653
ADV1024353	4/28/2026	3.833	2/26/2027	103.28755	102.4399333	101.6062378	100.7861223	99.97925682	99.18532189	98.40400833	97.63501674	96.87805711
ADV1024373	4/28/2026	3.846	5/12/2026	100.13439	100.1010654	100.0677846	100.0345428	100.0013401	99.96817637	99.9350515	99.90196543	99.86891809
ADV1023789	4/6/2026	3.847	6/18/2026	100.55174	100.4148826	100.2784071	100.1423159	100.0066072	99.87127934	99.73633078	99.60175984	99.4675649
ADV1024318	4/27/2026	3.84	7/27/2026	100.98293	100.7367976	100.4918704	100.2481362	100.0055863	99.7642121	99.524005	99.28495657	99.04705844
ADV1023566	3/26/2026	3.901	3/26/2027	103.70427	102.775939	101.8642474	100.9687545	100.089031	99.22466261	98.37524939	97.54040528	96.71975738
ADV1023323	3/17/2026	3.817	3/18/2030	114.56662	110.4939771	106.5911913	102.8502815	99.26368585	95.82423502	92.52512989	89.35992044	86.32248597
ADV1024031	4/15/2026	3.987	4/15/2031	119.10096	113.8230055	108.8162959	104.0654198	99.55592246	95.27424089	91.20764373	87.34417618	83.67260866
ADV1024450	4/30/2026	3.84	6/18/2026	100.54721	100.4107033	100.2745764	100.1388328	100.0034707	99.86848855	99.73388468	99.59965747	99.4658053
ADV1024448	4/30/2026	3.84	6/18/2026	100.54721	100.4107033	100.2745764	100.1388328	100.0034707	99.86848855	99.73388468	99.59965747	99.4658053
ADV1024405	4/29/2026	3.991	2/10/2028	107.11858	105.2951028	103.511832	101.7675624	100.0611342	98.39143281	96.75738677	95.15796543	93.59217708
ADV1024175	4/21/2026	3.995	4/21/2031	119.19586	113.8984687	108.8741565	104.1073586	99.58347998	95.28882828	91.21055381	87.33659309	83.65561681
ADV1024183	4/21/2026	3.836	5/5/2026	100.05705	100.0431626	100.0292921	100.0154351	100.0015918	99.98776206	99.97394584	99.96014314	99.94635394
ADV1023081	3/6/2026	3.682	3/8/2027	103.26622	102.3909027	101.5304356	100.6844469	99.8525732	99.03446287	98.22977601	97.43818383	96.65936821
ADV1024142	4/20/2026	3.835	7/20/2026	100.90472	100.6781552	100.4526155	100.228097	100.0045926	99.78209543	99.56059866	99.34009546	99.12057909
ADV1024460	4/30/2026	3.841	5/12/2026	100.13392	100.1006119	100.0673383	100.0341037	100.0009081	99.96775148	99.93463373	99.90155477	99.86851454
ADV1024025	4/15/2026	3.845	4/15/2027	103.81189	102.8281038	101.8629936	100.9160325	99.98671133	99.07454	98.17904628	97.29977519	96.43628818

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023005	3/3/2026	3.803	9/3/2026	101.40311	101.0474783	100.6943235	100.3436164	99.99533176	99.64944445	99.30592982	98.96476351	98.62592151
ADV1023967	4/14/2026	3.843	5/14/2026	100.15868	100.1197374	100.0808465	100.0420033	100.003208	99.96446026	99.92576011	99.88710744	99.84850213
ADV1023827	4/7/2026	3.86	7/7/2026	100.76651	100.5762551	100.3867297	100.1979259	100.0098394	99.82246628	99.63580228	99.44984338	99.26458552
ADV1023418	3/20/2026	3.858	6/22/2026	100.60064	100.4522846	100.304371	100.156902	100.0098755	99.86328959	99.71714222	99.5714314	99.42615516
ADV1024414	4/29/2026	3.925	4/29/2027	104.03942	103.0154635	102.0116886	101.0275026	100.0623359	99.11564053	98.18688964	97.27557611	96.38121182
ADV1023523	3/25/2026	3.852	6/25/2026	100.63259	100.475878	100.3196543	100.1639213	100.0086767	99.85391815	99.69964344	99.54585025	99.39253632
ADV1023287	3/16/2026	3.772	9/16/2027	105.27899	103.8757338	102.4980923	101.1454272	99.81711693	98.5125603	97.2311754	95.97239888	94.73568527
ADV1024352	4/28/2026	3.821	12/28/2026	102.64798	101.969884	101.3007552	100.6404124	99.98868331	99.34540008	98.71039921	98.08352138	97.46461135
ADV1023790	4/6/2026	3.836	5/6/2026	100.07039	100.0536986	100.0370263	100.0203708	100.003732	99.98711007	99.97050483	99.95391629	99.93734444
ADV1024451	4/30/2026	3.841	5/29/2026	100.32396	100.2433203	100.1628104	100.0824329	100.0021876	99.92207407	99.84209208	99.7622413	99.6825214
ADV1023355	3/18/2026	3.816	6/18/2026	100.5503	100.4131764	100.2764367	100.140082	100.0041106	99.86852074	99.73331091	99.59847943	99.46402469
ADV1024320	4/27/2026	4.026	12/16/2030	118.13921	113.2256127	108.549712	104.0986836	99.86046412	95.82370462	91.97772418	88.31246668	84.81846074
ADV1024141	4/20/2026	3.835	4/20/2029	111.31459	108.2275103	105.2436992	102.3591259	99.56994092	96.87246651	94.26318794	91.7387453	89.29592577
ADV1023082	3/6/2026	3.667	9/7/2027	105.05075	103.6743154	102.3226101	100.9950224	99.69096179	98.40985633	97.15115237	95.91431359	94.6988204
ADV1023396	3/19/2026	3.826	5/18/2026	100.20647	100.1562516	100.1060962	100.0560081	100.0059871	99.95603309	99.90614592	99.85632547	99.80657158
ADV1023727	4/1/2026	3.832	5/7/2026	100.08219	100.0627022	100.0432396	100.0237971	100.0043747	99.98497243	99.96559023	99.94622808	99.92688592
ADV1024459	4/30/2026	3.843	6/30/2026	100.68166	100.5115252	100.3419607	100.1729651	100.0045356	99.83666938	99.66936362	99.50261555	99.33642242
ADV1024059	4/16/2026	3.84	5/8/2026	100.09131	100.0690778	100.0468684	100.0246827	100.0025206	99.98038207	99.95826703	99.93617546	99.91410731
ADV1024447	4/30/2026	3.841	6/18/2026	100.54735	100.4108392	100.2747122	100.1389684	100.0036061	99.86862378	99.73401972	99.59979233	99.46593998
ADV1023004	3/3/2026	3.69	3/3/2027	103.22208	102.360867	101.5140366	100.6812266	99.86209093	99.05629445	98.26351306	97.48343307	96.71575079
ADV1023520	3/25/2026	3.974	3/27/2028	107.58472	105.6279632	103.7169118	101.8502208	100.026595	98.24478532	96.50358724	94.80183875	93.13841859
ADV1023131	3/10/2026	3.833	6/8/2026	100.44225	100.3331161	100.2242277	100.115586	100.0071903	99.89903965	99.79113316	99.68346998	99.57604927
ADV1023419	3/20/2026	3.866	7/20/2026	100.91641	100.689074	100.4627732	100.237497	100.0132384	99.78999034	99.56774608	99.34649875	99.12624159
ADV1023828	4/7/2026	3.861	8/7/2026	101.11468	100.8369039	100.5606521	100.2859157	100.0126822	99.74093914	99.4706744	99.20187583	98.93453147
ADV1024093	4/17/2026	3.797	6/30/2028	108.21497	105.9873202	103.817084	101.702367	99.6413546	97.63230692	95.67355449	93.76349503	91.90059008
ADV1024411	4/29/2026	3.841	7/29/2026	101.0052	100.7534813	100.5030168	100.2537958	100.005809	99.7590473	99.51350163	99.26916306	99.0260227
ADV1024088	4/17/2026	3.834	6/18/2026	100.54833	100.4116299	100.2753166	100.1393872	100.0038397	99.86867277	99.73388461	99.59947361	99.46543818
ADV1023742	4/2/2026	3.835	6/12/2026	100.48364	100.3635617	100.2437804	100.1242987	100.0051153	99.88622928	99.76763932	99.64934432	99.53134314
ADV1023902	4/9/2026	3.843	5/11/2026	100.12591	100.0953057	100.0647387	100.0342067	100.0037097	99.97324765	99.94282048	99.91242811	99.88207048
ADV1024191	4/21/2026	3.893	4/21/2027	103.87237	102.872281	101.8914833	100.9294218	99.98556277	99.05939255	98.15041666	97.25815888	96.38216048
ADV1024062	4/16/2026	3.838	5/18/2026	100.20298	100.1529029	100.1028953	100.0529547	100.0030811	99.95327426	99.90353408	99.85386041	99.80425312
ADV1024207	4/22/2026	3.837	5/22/2026	100.24669	100.1855023	100.1244038	100.0633941	100.0024728	99.94163991	99.88089511	99.82023823	99.75966908
ADV1024138	4/20/2026	3.829	5/20/2026	100.22421	100.1685884	100.1130407	100.0575705	100.0021777	99.94686221	99.89162377	99.83646223	99.78137745

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1024454	4/30/2026	3.841	5/29/2026	100.32396	100.2433203	100.1628104	100.0824329	100.0021876	99.92207407	99.84209208	99.7622413	99.6825214
ADV1023995	4/15/2026	3.84	5/15/2026	100.16957	100.1278505	100.0861832	100.0445684	100.0030059	99.96149553	99.9200373	99.87863106	99.83727672
ADV1023059	3/5/2026	3.723	3/5/2027	103.27086	102.4038535	101.5514184	100.7131885	99.88881044	99.07794277	98.28025498	97.49542731	96.7231503
ADV1023950	4/13/2026	3.84	5/12/2026	100.13639	100.103013	100.069679	100.0363843	100.0031286	99.96991195	99.93673423	99.90359538	99.87049532
ADV1023039	3/4/2026	3.623	3/5/2029	110.24559	107.3018015	104.4527275	101.6948133	99.02466157	96.43902001	93.93477453	91.50894257	89.15866679
ADV1023272	3/16/2026	3.811	6/15/2026	100.51666	100.3879409	100.2595636	100.1315282	100.0038332	99.87647729	99.74945905	99.62277711	99.49643009
ADV1023052	3/5/2026	3.751	3/5/2030	114.18651	110.1570328	106.2942945	102.5905238	99.03835435	95.6307988	92.36122763	89.22334885	86.21118912
ADV1024401	4/29/2026	3.847	4/29/2027	104.02175	102.9970044	101.9924699	101.0075532	100.0416833	99.09431132	98.16490915	97.25296871	96.35800088
ADV1023728	4/1/2026	3.842	2/1/2027	103.03378	102.2568442	101.4916301	100.7378737	99.9953188	99.26371702	98.5428272	97.83241524	97.1322538
ADV1024144	4/20/2026	3.823	4/20/2029	111.27841	108.191872	105.2085935	102.3245396	99.53586112	96.83888082	94.23008434	91.70611216	89.26375183
ADV1024483	4/30/2026	3.847	5/8/2026	100.08941	100.0672149	100.0450386	100.0228859	100.0007568	99.97865121	99.95656908	99.93451038	99.91247508
ADV1023880	4/8/2026	5.156	3/15/2046	180.94189	156.9529985	136.8571597	119.9734868	105.7454593	93.71748358	83.51598425	74.83413293	67.41949791
ADV1023970	4/14/2026	3.845	7/15/2026	100.85201	100.6393812	100.4276659	100.2168537	100.0069387	99.79791502	99.58977699	99.38251888	99.17613507
ADV1024477	4/30/2026	3.84	5/28/2026	100.31271	100.2348583	100.15713	100.0795275	100.0020505	99.92469853	99.84747145	99.77036893	99.69339066
ADV1024056	4/16/2026	3.837	6/2/2026	100.37033	100.2783904	100.1866251	100.0950303	100.0036055	99.91235016	99.82126391	99.73034624	99.63959668
ADV1024090	4/17/2026	3.834	7/3/2026	100.7155	100.5367082	100.3585504	100.1810262	100.0041321	99.82786473	99.65222078	99.47719692	99.30278987
ADV1023454	3/23/2026	3.871	6/23/2026	100.61338	100.4622484	100.3115797	100.1613708	100.0116196	99.86232384	99.71348155	99.56509061	99.41714897
ADV1024399	4/29/2026	3.848	5/20/2026	100.22395	100.1683764	100.112881	100.0574632	100.0021227	99.94685931	99.89167297	99.83656346	99.78153062
ADV1023747	4/2/2026	3.847	10/2/2026	101.73755	101.3001998	100.8665833	100.4366529	100.0103617	99.58766382	99.16851394	98.75286759	98.340681
ADV1023444	3/23/2026	3.902	9/23/2026	101.66132	101.2491509	100.8403088	100.4347504	100.0324362	99.63332737	99.23738566	98.84457345	98.45485371
ADV1023565	3/26/2026	3.892	3/26/2027	103.69602	102.7677213	101.8560703	100.9606175	100.0809336	99.21660432	98.36722976	97.53242384	96.71181367
ADV1024232	4/22/2026	3.836	6/22/2026	100.59246	100.4446251	100.2972349	100.1502876	100.0037814	99.85771408	99.7120838	99.56688852	99.42212629
ADV1023974	4/14/2026	3.849	2/14/2029	110.69187	107.7976258	104.9949156	102.2802988	99.65048454	97.10232686	94.63281688	92.23907597	89.91834921
ADV1024229	4/22/2026	3.895	12/22/2028	110.25412	107.5178315	104.8643564	102.2906602	99.79384155	97.37112574	95.01985764	92.7374958	90.52160668
ADV1024222	4/22/2026	3.836	5/29/2026	100.32474	100.2440294	100.1634513	100.0830059	100.0026927	99.92251141	99.84246178	99.76254346	99.68275613
ADV1023721	4/1/2026	4.045	4/1/2031	119.2624	114.0204234	109.0457761	104.3233912	99.83912451	95.57969687	91.53263736	87.68622985	84.02946351
ADV1023953	4/13/2026	3.839	5/4/2026	100.0471	100.0359889	100.0248838	100.0137892	100.0027053	99.99163191	99.98056905	99.96951672	99.95847488
ADV1023111	3/9/2026	3.693	3/9/2028	106.86793	104.9671251	103.109737	101.2945136	99.52025157	97.7857895	96.09000638	94.43181984	92.81018449
ADV1023899	4/9/2026	3.769	4/9/2027	103.73381	102.766319	101.8168962	100.8850417	99.9702708	99.07211613	98.19012745	97.32387063	96.47292697
ADV1024065	4/16/2026	3.836	6/26/2026	100.63796	100.478804	100.3201583	100.1620178	100.0043801	99.84724297	99.69060389	99.53446053	99.37881054
ADV1023913	4/10/2026	3.96	4/10/2031	119.24418	113.96672	108.9600031	104.2086745	99.69833173	95.41545898	91.34736758	87.48214134	83.80858556
ADV1022989	3/9/2026	3.869	5/11/2026	100.13131	100.1006006	100.0699314	100.0392973	100.0086984	99.97813446	99.94760556	99.91711158	99.88665246
ADV1024254	4/23/2026	3.849	5/1/2026	100.01221	100.0094325	100.0066597	100.0038894	100.0011215	99.99835594	99.99559282	99.99283211	99.99007379

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023078	3/6/2026	3.664	3/6/2029	110.37315	107.4247728	104.5713232	101.8092378	99.13510902	96.54567468	94.03781147	91.60852809	89.25495894
ADV1023920	4/10/2026	3.833	9/10/2026	101.48578	101.1115896	100.7401562	100.3714474	100.0054333	99.64208419	99.28137107	98.92326522	98.56773836
ADV1023518	3/25/2026	3.844	5/27/2026	100.30716	100.2318061	100.1565716	100.0814567	100.0064612	99.9315847	99.85682702	99.78218784	99.70766691
ADV1024095	4/17/2026	3.893	6/28/2030	115.88098	111.4955092	107.3039161	103.2965326	99.46422732	95.79837505	92.29082546	88.93387405	85.72023501
ADV1023885	4/8/2026	3.838	5/1/2026	100.01437	100.011586	100.0088088	100.0060341	100.0032617	100.0004918	99.99772425	99.99495913	99.99219641
ADV1023740	4/2/2026	3.829	5/4/2026	100.04859	100.0374634	100.0263454	100.015238	100.0041411	99.99305488	99.98197917	99.970914	99.95985934
ADV1023966	4/14/2026	3.845	5/14/2026	100.15876	100.1198163	100.0809253	100.0420822	100.0032867	99.96453895	99.92583873	99.88718599	99.84858063
ADV1024000	4/15/2026	3.836	5/6/2026	100.06907	100.0523981	100.0357417	100.0191021	100.0024792	99.98587315	99.96928379	99.95271111	99.9361551
ADV1024469	4/30/2026	3.842	5/29/2026	100.32404	100.2434008	100.1628908	100.0825133	100.0022679	99.92215431	99.84217226	99.76232142	99.68260146
ADV1024365	4/28/2026	3.791	4/28/2027	103.95458	102.9329794	101.9314814	100.9494935	99.98644929	99.04180413	98.11503401	97.20563468	96.31312072
ADV1024310	4/27/2026	3.841	5/27/2026	100.30206	100.2269701	100.1519991	100.0771474	100.0024145	99.92780029	99.85330446	99.77892671	99.70466679
ADV1023838	4/7/2026	3.855	4/7/2027	103.73764	102.7765157	101.8332236	100.9072737	99.9981905	99.10551572	98.22880748	97.36763972	96.52160138
ADV1023865	4/8/2026	3.813	12/18/2026	102.54158	101.8917106	101.2500879	100.6165601	99.99097446	99.37318195	98.76303733	98.16039898	97.56512871
ADV1023682	3/31/2026	3.993	3/29/2030	115.36823	111.2495822	107.303742	103.5225383	99.89823076	96.42348353	93.09134215	89.89521164	86.82883603
ADV1023230	3/13/2026	4.38	1/12/2035	133.29331	123.7093142	114.9216708	106.8591573	99.4573058	92.65772563	86.40749911	80.65864128	75.36761533
ADV1024305	4/27/2026	3.841	5/27/2026	100.30206	100.2269701	100.1519991	100.0771474	100.0024145	99.92780029	99.85330446	99.77892671	99.70466679
ADV1023546	3/26/2026	3.892	3/26/2027	103.69602	102.7677213	101.8560703	100.9606175	100.0809336	99.21660432	98.36722976	97.53242384	96.71181367
ADV1023104	3/9/2026	3.838	6/8/2026	100.44295	100.3338029	100.2249017	100.1162472	100.0078387	99.89967529	99.79175606	99.68408018	99.57664679
ADV1023977	4/14/2026	3.842	5/14/2026	100.15864	100.1196979	100.080807	100.0419639	100.0031686	99.96442092	99.9257208	99.88706816	99.84846289
ADV1023582	3/27/2026	3.867	3/29/2027	103.70573	102.7690335	101.8492751	100.9459984	100.0587629	99.18714381	98.33073112	97.48912913	96.66195576
ADV1024348	4/28/2026	3.844	5/5/2026	100.05613	100.042261	100.0284008	100.0145542	100.0007212	99.98690168	99.97309573	99.95930329	99.94552434
ADV1024231	4/22/2026	3.839	9/9/2026	101.47502	101.1041373	100.7359639	100.3704704	100.0076277	99.64740676	99.28977928	98.93471722	98.58219297
ADV1024403	4/29/2026	3.849	4/29/2027	104.02377	102.9990176	101.9944722	101.0095448	100.0436643	99.0962819	98.16686944	97.25491884	96.35994098
ADV1023939	4/13/2026	3.838	5/13/2026	100.14747	100.1113141	100.0751999	100.0391291	100.0031017	99.96711749	99.9311765	99.8952786	99.85942371
ADV1024263	4/23/2026	3.842	7/23/2026	100.93935	100.7043962	100.4705436	100.2377849	100.0061124	99.77551841	99.54599547	99.31753605	99.09013271
ADV1023969	4/14/2026	3.843	5/14/2026	100.15868	100.1197374	100.0808465	100.0420033	100.003208	99.96446026	99.92576011	99.88710744	99.84850213
ADV1023830	4/7/2026	3.85	10/7/2026	101.79311	101.3416882	100.89425	100.4507447	100.0111206	99.57532668	99.14331316	98.71503091	98.29043168
ADV1023029	3/4/2026	3.863	5/4/2026	100.05327	100.0421115	100.0309587	100.0198165	100.0086849	99.99756396	99.98645357	99.97535375	99.96426447
ADV1023701	4/1/2026	3.827	5/1/2026	100.01535	100.0125639	100.0097847	100.0070079	100.0042335	100.0014615	99.99869198	99.99592483	99.99316008
ADV1023416	3/20/2026	3.846	5/29/2026	100.33043	100.2494344	100.1685726	100.0878438	100.0072478	99.92678414	99.84645258	99.7662528	99.68618447
ADV1023890	4/9/2026	3.848	5/11/2026	100.12606	100.0954624	100.0648952	100.0343631	100.003866	99.97340377	99.94297647	99.91258396	99.8822262
ADV1023886	4/8/2026	3.838	5/1/2026	100.01437	100.011586	100.0088088	100.0060341	100.0032617	100.0004918	99.99772425	99.99495913	99.99219641
ADV1024313	4/27/2026	3.838	5/27/2026	100.30184	100.2267449	100.1517741	100.0769225	100.0021899	99.92757585	99.8530802	99.77870264	99.70444291

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023835	4/7/2026	3.839	2/8/2027	103.10481	102.3080795	101.5236787	100.751321	99.99073016	99.24163856	98.50378651	97.77692211	97.06080098
ADV1024479	4/30/2026	4.022	11/2/2029	113.93096	110.2556509	106.7212855	103.3216776	100.050949	96.90351138	93.87404997	90.95750859	88.14907562
ADV1023937	4/13/2026	3.838	5/12/2026	100.13632	100.102945	100.0696112	100.0363165	100.0030609	99.96984425	99.93666658	99.90352778	99.87042778
ADV1023145	3/10/2026	3.665	3/10/2028	106.82471	104.9216121	103.0620359	101.2447304	99.46848749	97.73214151	96.03456725	94.37467833	92.7514256
ADV1023710	4/1/2026	3.826	5/1/2026	100.01534	100.01256	100.0097808	100.007004	100.0042296	100.0014577	99.99868811	99.99592096	99.99315621
ADV1023171	3/11/2026	3.682	3/11/2027	103.34911	102.4643009	101.5946603	100.7398009	99.89934783	99.07293855	98.26022277	97.46086172	96.67452776
ADV1023578	3/27/2026	3.844	5/29/2026	100.32923	100.2482958	100.1674943	100.0868257	100.0062898	99.92588613	99.84561448	99.76547451	99.68546589
160928A00041	9/28/2016	3.26	9/29/2036	99.996377	99.99368662	99.8793499	97.9293418	94.39148598	90.34468039	86.35946331	82.61241453	79.11066548
160928A00042	9/28/2016	3.05	9/29/2036	99.995809	99.99312202	99.65523798	97.25370019	93.50937702	89.42033444	85.45693928	81.74160364	78.27033311
160928A00044	9/28/2016	2.89	9/29/2036	99.995377	99.99269185	99.41547964	96.69393732	92.82098124	88.71286742	84.76912575	81.07812746	77.63007987
181211A00042	12/11/2018	3.7	12/11/2028	99.997685	99.99501216	99.99234062	99.94573227	98.87146965	96.85859706	94.65789063	92.49683919	90.39745422
130416A00025	4/16/2013	2.27	4/18/2028	100.20168	100.121089	100.0108599	99.33864634	98.36949426	97.39098049	96.4302938	95.48767479	94.56263201
151223A00007	12/23/2015	3.76	12/23/2030	100.29532	100.2360476	100.1555427	99.85659388	97.99093965	94.91816783	91.44876776	88.03367332	84.7722161
161012A00020	10/11/2016	2.96	10/14/2031	100.25726	100.176617	99.92886106	98.06156375	94.67988856	90.75900732	86.85199481	83.13399816	79.61256033
170515A00052	5/15/2017	3.78	5/15/2042	100.00305	100.000351	99.88295372	97.76906337	93.26013404	87.76515723	82.23210849	77.09873094	72.4349111
170519A00006	5/19/2017	3	5/19/2032	100.26048	100.1798423	100.0724481	99.11200093	96.90204143	94.28106435	91.65706544	89.13444825	86.71742478
170705A00037	7/5/2017	2.85	7/6/2032	103.24278	102.0373885	100.6232636	98.67937701	96.10931938	93.27370478	90.47645866	87.79767809	85.237098
170802A00074	8/2/2017	2.92	8/2/2027	99.99561	99.99295718	99.99030518	99.77059795	98.7771383	97.61979155	96.47312219	95.34579499	94.23738356
170809A00042	8/9/2017	2.35	8/9/2027	100.20814	100.1275405	100.0401058	99.64565722	98.98388891	98.31367909	97.65451321	97.00638067	96.36897709
171004A00022	10/4/2017	2.74	10/4/2027	100.23954	100.1589107	100.0781225	99.6256974	98.47788411	97.21273694	95.96476462	94.74027184	93.53866449
171005A00047	10/5/2017	3.29	10/5/2032	100.28385	100.2031851	100.0743047	98.80657971	95.82368546	92.10543061	88.31294036	84.69626451	81.28098384
180105A00005	1/5/2018	3.07	1/5/2028	100.26614	100.1854957	100.1049818	99.96127967	99.29226997	98.43556792	97.5810505	96.74147697	95.91654146
180105A00006	1/5/2018	3.07	1/5/2028	100.26614	100.1854957	100.1049818	99.96127967	99.29226997	98.43556792	97.5810505	96.74147697	95.91654146
180130A00087	1/30/2018	2.92	1/31/2028	100.25406	100.1734189	100.092915	99.87995442	99.11891815	98.22019438	97.32980385	96.45531546	95.59635106
180302A00003	3/2/2018	3.89	3/2/2033	100.33219	100.2514866	100.170918	99.63216052	97.15294598	93.28661106	88.95639254	84.72685336	80.74861107
180315A00030	3/15/2018	3.76	3/15/2033	100.003	100.0002956	99.99759717	99.25162161	96.26653924	92.05453032	87.5261379	83.16452976	79.06945697
180504A00024	5/4/2018	3.62	5/4/2028	100.31112	100.227728	100.1444716	100.0272751	99.15177752	97.53373851	95.78877067	94.07648575	92.40541439
180627A00005	6/27/2018	3.63	6/30/2033	100.31124	100.2305589	100.1500078	99.80110259	97.96635767	95.17434437	92.15190197	89.21620324	86.41948202
180703A00033	7/3/2018	3.4	7/3/2028	100.28771	100.2070953	100.1266142	100.0180489	99.34838053	98.29388973	97.21342427	96.15322929	95.11408913
190111A00040	1/11/2019	3.74	1/11/2034	100.00289	100.0001762	99.99746068	99.18267274	96.15972334	92.02132872	87.62278603	83.40222327	79.4477972
190204A00054	2/4/2019	3.98	2/6/2034	100.33138	100.253758	100.1732385	99.45880496	96.65880723	92.43721461	87.75889062	83.2102385	78.95753706
190222A00023	2/22/2019	3.66	2/22/2034	100.00269	99.99998479	99.9443348	98.49220131	94.74071103	89.87338672	84.78996926	79.95334551	75.45184581
190301A00015	3/1/2019	3.86	3/1/2034	100.2358	100.2329688	100.1400031	99.08359123	95.78190605	91.18953117	86.22872931	81.45333971	77.00340038

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
190409A00016	4/9/2019	2.91	4/9/2029	100.25323	100.1725951	100.0804432	99.33230826	97.47708696	95.2848772	93.0918596	90.96389972	88.90180467
190409A00017	4/9/2019	3.01	4/9/2029	100.26129	100.1806434	100.0940344	99.40674891	97.48259687	95.12832454	92.75089678	90.44424539	88.21112719
190430A00020	4/30/2019	3.41	4/28/2034	100.29416	100.2109336	99.90479778	97.73099966	93.66614584	88.81177948	83.91405506	79.3045819	75.02443378
190520A00018	5/20/2019	3.7	5/20/2044	100.31211	100.2302236	99.60631906	96.5195651	91.38485153	85.49169005	79.72338763	74.43623187	69.67339226
190530A00044	5/30/2019	2.85	5/30/2034	100.2484	100.1677647	99.87883645	97.98972053	94.91267101	91.51188835	88.18830062	85.0357168	82.0516494
190807A00041	8/7/2019	2.27	8/7/2034	100.20167	100.0814879	98.91000358	96.09407013	92.64653338	89.17927432	85.87453632	82.75031438	79.79603112
190807A00044	8/7/2019	2.27	8/7/2034	100.20167	100.0814879	98.91000358	96.09407013	92.64653338	89.17927432	85.87453632	82.75031438	79.79603112
190827A00044	8/27/2019	1.9	8/27/2029	100.17186	100.0912934	99.60028815	98.22981787	96.65878206	95.09958302	93.58016085	92.10057043	90.65945955
190930A00079	9/30/2019	2.04	10/1/2029	100.18314	100.1025634	99.71080387	98.36605351	96.73755858	95.10645949	93.51714512	91.97097358	90.46645732
190930A00083	9/30/2019	2.04	10/1/2029	100.18314	100.1025634	99.71080387	98.36605351	96.73755858	95.10645949	93.51714513	91.97097358	90.46645732
191007A00012	10/7/2019	2	10/5/2029	100.1749	100.0943834	99.61320221	98.20701431	96.57094635	94.9428352	93.35727534	91.81475245	90.31377155
191007A00013	10/7/2019	2	10/5/2029	100.1749	100.0943834	99.61320221	98.20701431	96.57094635	94.9428352	93.35727534	91.81475244	90.31377155
191028A00015	10/28/2019	2.49	10/27/2034	100.21939	100.1303574	99.32081073	96.72308186	93.30539596	89.77417501	86.38999301	83.19215039	80.17116578
191031A00036	10/31/2019	2.9	10/31/2039	100.2474	100.1081973	98.70571588	95.00778403	90.14201112	85.10525395	80.35086376	75.97444073	71.95313298
191031A00037	10/31/2019	2.59	10/30/2034	100.22243	100.1368463	99.37695871	96.81977865	93.39805176	89.8436894	86.43333808	83.21158376	80.16923016
191220A00029	12/20/2019	2.57	12/19/2031	100.22082	100.1402609	99.86235792	98.28008235	95.92144516	93.41701094	90.97595016	88.63055899	86.37776762
200108A00009	1/8/2020	2.4	1/8/2035	99.999196	99.97318031	98.84337317	95.77798402	91.96500688	88.10884935	84.44010407	80.98702343	77.73674025
200108A00040	1/8/2020	2.52	1/8/2030	100.21678	100.1362285	99.77135533	97.9490745	95.26207615	92.39849579	89.6027311	86.91218442	84.3236999
200110A00012	1/10/2020	2.57	1/10/2035	100.22081	100.1307442	99.30276601	96.65533721	93.16549101	89.55571754	86.09802068	82.83486987	79.75637021
200115A00023	1/15/2020	2.16	1/15/2030	100.18779	100.1072621	99.72617524	98.34345905	96.61947589	94.88301934	93.1921691	91.54966282	89.95378407
200306A00021	3/6/2020	1.16	3/6/2030	100.10722	99.70411063	98.21433647	96.38946174	94.56352292	92.78882836	91.06703105	89.396191	87.77438907
200309A00013	3/9/2020	1.1	3/8/2030	100.10239	99.64179351	98.10566121	96.27379119	94.44913815	92.67645033	90.95662514	89.28770524	87.66777313
200316A00030	3/16/2020	1.35	3/15/2030	100.12755	99.9151315	98.6469896	96.86142278	95.02973159	93.24431308	91.51200043	89.83101861	88.19943301
200316A00032	3/16/2020	1.35	3/15/2030	100.12755	99.9151315	98.6469896	96.86142278	95.02973159	93.24431308	91.51200043	89.83101861	88.19943301
200318A00015	3/18/2020	1.69	3/18/2030	99.997259	99.97442985	99.09220842	97.27314428	95.29766826	93.35589694	91.47282736	89.64753049	87.87779339
200326A00035	3/26/2020	1.68	3/26/2030	100.14912	100.0336504	99.08674205	97.37928486	95.5511844	93.75777031	92.01707588	90.32793873	88.68841924
200423A00008	4/23/2020	1.59	4/23/2030	99.996992	99.79166688	97.83972135	94.77990446	91.48189778	88.26280336	85.17479551	82.21515016	79.3778395
200423A00009	4/23/2020	1.59	4/23/2030	99.996992	99.79166688	97.83972135	94.77990446	91.48189778	88.26280336	85.17479551	82.21515016	79.3778395
200423A00010	4/23/2020	1.59	4/23/2030	99.996992	99.79166688	97.83972135	94.77990446	91.48189778	88.26280336	85.17479551	82.21515016	79.3778395
200430A00021	4/30/2020	1.2	4/30/2030	100.11045	99.71482799	98.20366869	96.31514703	94.41860815	92.57616123	90.790423	89.05928511	87.38063413
200505A00010	5/5/2020	0.89	5/6/2030	100.08659	99.4173873	97.7248915	95.80822359	93.91648066	92.08179407	90.3037126	88.58005201	86.90870411
200512A00023	5/12/2020	1.78	5/11/2035	100.11244	98.92581575	95.50783832	90.89244984	86.06388277	81.46910539	77.20000928	73.24409614	69.57569629
200609A00003	6/9/2020	1.66	6/8/2035	100.02527	98.14221285	94.00311582	88.7092935	83.29303088	78.18661556	73.47080303	69.12500445	65.11731353

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
200612A00001	6/12/2020	0.75	6/12/2030	100.06042	99.19537156	97.39622443	95.43643312	93.5145215	91.65234206	89.84856132	88.1008805	86.40709611
201022A00008	10/22/2020	1.02	10/22/2035	99.859231	97.74528773	94.13458372	90.1234597	86.2331584	82.57330731	79.14045465	75.91848655	72.89195582
201029A00008	10/29/2020	0.92	10/29/2030	100.07609	99.27345753	97.41097837	95.31776521	93.25585533	91.26103396	89.3326878	87.46808007	85.66457196
201030A00025	10/30/2020	2.02	10/28/2050	99.436733	95.96091047	89.77544812	82.32089225	74.8896804	68.14234156	62.23086033	57.08706254	52.59860172
201116A00019	11/16/2020	1.32	11/15/2030	100.11	99.27324266	96.69092151	93.36674341	89.96929979	86.69866219	83.57561548	80.59375363	77.74582183
201118A00015	11/18/2020	1.66	11/18/2036	100.86401	97.24041724	92.06137795	85.93210668	79.77541786	74.04637971	68.82390691	64.07371301	59.74925322
201118A00017	11/18/2020	1.66	11/18/2036	100.86401	97.24041724	92.06137795	85.93210668	79.77541786	74.04637971	68.82390691	64.07371301	59.74925322
201118A00018	11/18/2020	1.85	11/18/2036	101.26166	97.83195974	92.87266615	86.85053419	80.69665286	74.93126552	69.66761123	64.8785521	60.51779556
201202A00016	12/2/2020	1.32	12/3/2035	100.02991	98.39042279	94.99475566	90.9835639	87.01606203	83.2726029	79.76338944	76.47264853	73.38418106
201202A00017	12/2/2020	1.32	12/3/2035	100.02991	98.39042279	94.99475566	90.9835639	87.01606203	83.2726029	79.76338944	76.47264853	73.38418106
201229A00003	12/29/2020	1.28	12/30/2030	100.09905	99.14766157	96.45276166	93.04483782	89.58228122	86.25515114	83.08146042	80.05419229	77.16566699
201230A00018	12/30/2020	1.52	12/28/2035	100.80444	97.17626603	92.09359683	86.17094912	80.26957998	74.77192022	69.73422607	65.12449184	60.90305961
210108A00007	1/8/2021	1.65	1/8/2036	99.931695	97.82208681	93.41054029	87.88689772	82.27351253	77.00566509	72.16134868	67.71588063	63.6331356
210405A00013	4/5/2021	1.82	4/7/2036	100.15566	99.42765523	96.69507311	92.8115665	88.71525074	84.79108483	81.11165102	77.66761596	74.44132314
210622A00004	6/22/2021	2.42	6/20/2036	100.56123	99.58494494	96.57523943	91.65799768	86.00896841	80.45182205	75.28992899	70.55969757	66.22677732
210623A00024	6/23/2021	1.56	6/23/2026	99.991895	99.98925504	99.95934625	99.81253519	99.6639862	99.51588905	99.36824146	99.22104143	99.07428695
210910A00009	9/10/2021	1.77	9/10/2036	100.78028	99.40376233	96.47934816	92.45378653	88.21778251	84.16783069	80.37938183	76.84197578	73.53615544
210924A00016	9/24/2021	1.91	9/24/2036	100.89646	99.67833873	96.9963359	93.07700758	88.84846557	84.77482596	80.95906092	77.39590391	74.06603835
211019A00005	10/19/2021	2.49	10/20/2036	101.29793	99.92667696	96.8993266	92.03120011	86.30765889	80.62561503	75.33937374	70.50399888	66.08511336
211110A00017	11/10/2021	2.01	11/10/2036	101.2299	99.9000696	97.26227221	93.37678169	89.10777796	84.97059718	81.09419204	77.47752061	74.10075306
211116A00012	11/16/2021	2.22	12/18/2034	101.44382	100.4546221	98.5635986	95.48667158	91.89767131	88.33257186	84.94832004	81.7553799	78.74171519
211124A00008	11/24/2021	2.62	11/22/2041	101.57505	100.1433921	97.15105497	92.35993634	86.74229606	81.20234969	76.08853209	71.44158035	67.21942809
211215A00020	12/15/2021	1.85	12/15/2031	101.34717	100.3985846	98.83031031	96.54004496	94.01112734	91.52293745	89.13019394	86.83274198	84.6259894
211227A00012	12/27/2021	2.39	12/29/2036	104.66314	100.9050366	96.19597517	90.4879021	84.30528301	78.28006612	72.71791467	67.65584928	63.05138275
220217A00024	2/17/2022	2.43	2/17/2027	99.99425	99.9915976	99.98342875	99.54501974	98.72383126	97.8898629	97.06950604	96.26274415	95.46924164
220831A00108	8/31/2022	4.07	8/31/2027	99.998568	99.99586436	99.99316209	99.99046078	99.82062328	98.8291313	97.61352464	96.40969098	95.22682814
221212A00004	12/12/2022	4.36	12/10/2032	106.89211	105.2810062	103.6655159	101.9685077	100.0305039	97.68803052	94.95432151	92.13631306	89.4260328
221222A00137	12/22/2022	5.4	12/22/2037	108.9737	107.1794678	105.3529536	103.3724162	100.9930181	97.88189424	93.88591606	89.37155922	84.96744476
230613A00015	6/13/2023	4.73	6/13/2033	109.01389	107.0236192	105.0481104	103.0386609	100.8927482	98.49170029	95.78051376	92.9314563	90.17275436
ADV1007114	6/17/2024	4.74	6/18/2029	105.20016	104.1026814	103.0227352	101.9337863	100.7350127	99.21075584	97.2144176	94.99928683	92.82218917
240403A00012	4/3/2024	4.82	4/3/2029	105.39433	104.2581489	103.1408176	102.0165992	100.7786791	99.18121291	97.059137	94.71086212	92.4074444
ADV1007645	7/5/2024	4.781	7/5/2029	105.41318	104.2678182	103.1407206	102.0026975	100.7501862	99.17294124	97.12480241	94.84633121	92.60477124
ADV1007841	7/12/2024	0	7/12/2029	99.057241	96.50740852	93.55306105	90.64600878	87.84026516	85.13369285	82.52223674	80.00202495	77.56936295

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1007842	7/12/2024	0	7/12/2029	99.057241	96.50740852	93.55306105	90.64600878	87.84026516	85.13369285	82.52223674	80.00202495	77.56936295
ADV1007970	7/17/2024	0	7/17/2029	99.056664	96.49163525	93.52452461	90.60623837	87.7901015	85.07384861	82.45337885	79.9247791	77.4843163
ADV1008036	7/19/2024	0	7/19/2029	99.056415	96.48531797	93.51311166	90.59033604	87.77004508	85.04992368	82.42585265	79.89390239	77.45032444
ADV1008090	7/23/2024	0	7/23/2029	99.055896	96.47266932	93.49028847	90.55854137	87.72994777	85.00209566	82.37082932	79.83218605	77.38238664
ADV1008152	7/24/2024	0	7/24/2029	99.055761	96.46950414	93.48458321	90.55059478	87.71992667	84.99014321	82.35707953	79.81676468	77.36541175
ADV1008200	7/25/2024	0	7/25/2029	99.055625	96.46633773	93.47887816	90.54264903	87.70990686	84.97819258	82.34333217	79.80134639	77.34844068
ADV1008212	7/26/2024	0	7/26/2029	99.055487	96.46317007	93.47317332	90.53470412	87.69988835	84.96624377	82.32958722	79.78593119	77.33147343
ADV1008308	7/31/2024	0	7/31/2029	99.054127	96.44717541	93.4446418	90.49499207	87.64981513	84.90652699	82.26089877	79.70890145	77.24669447
ADV1008367	8/1/2024	0	8/1/2029	99.014802	96.43575597	93.43829204	90.48703371	87.63980217	84.89460598	82.24722029	79.69360983	77.2299278
ADV1008427	8/2/2024	0	8/2/2029	99.014711	96.4326169	93.43259102	90.47908688	87.62979053	84.88268679	82.23354421	79.67832126	77.21316486
ADV1008515	8/6/2024	0	8/6/2029	99.014331	96.42005271	93.40979015	90.44730797	87.58975688	84.83502819	82.17886388	79.61719736	77.14615047
ADV1008530	8/7/2024	0	8/7/2029	99.014232	96.4169097	93.40409072	90.43936534	87.5797517	84.82311807	82.1651998	79.60192398	77.1294062
ADV1008591	8/9/2024	0	8/9/2029	99.014028	96.41062125	93.39269277	90.42348262	87.55974523	84.79930329	82.13787882	79.57138632	77.09592886
ADV1008654	8/13/2024	0	8/13/2029	99.013601	96.39803441	93.36990046	90.39172726	87.51974782	84.75169548	82.08326561	79.51034742	77.02901893
ADV1008769	8/19/2024	0	8/20/2029	99.012785	96.3759742	93.33002492	90.33618775	87.44980211	84.66845161	81.98778467	79.40364607	76.91206996
ADV1008780	8/19/2024	0	8/20/2029	99.012785	96.3759742	93.33002492	90.33618775	87.44980211	84.66845161	81.98778467	79.40364607	76.91206996
ADV1008881	8/22/2024	0	8/22/2029	99.012535	96.36966362	93.31863436	90.32032687	87.42982924	84.64468394	81.96052593	79.37318723	76.87868946
ADV1008893	8/23/2024	0	8/23/2029	99.012407	96.36650735	93.31293951	90.31239769	87.41984475	84.63280282	81.94690015	79.35796235	76.86200479
ADV1008894	8/23/2024	0	8/23/2029	99.012407	96.36650735	93.31293951	90.31239769	87.41984475	84.63280282	81.94690015	79.35796235	76.86200479
ADV1009099	8/27/2024	0	8/27/2029	99.011879	96.35387564	93.29016329	90.2806894	87.37991968	84.58529645	81.89242091	79.29709309	76.79530328
ADV1009133	8/28/2024	0	8/28/2029	99.011742	96.35071603	93.28447003	90.27276444	87.36994164	84.57342437	81.87880708	79.28188334	76.77863719
ADV1009166	8/29/2024	0	8/29/2029	99.011541	96.34754481	93.27877588	90.26484031	87.35996489	84.56155411	81.86519563	79.26667661	76.76197481
ADV1009167	8/29/2024	0	8/29/2029	99.011541	96.34754481	93.27877588	90.26484031	87.35996489	84.56155411	81.86519563	79.26667661	76.76197481
ADV1009212	8/30/2024	0	8/30/2029	99.011306	96.34436271	93.27308178	90.25691703	87.34998943	84.54968565	81.85158657	79.2514729	76.74531614
ADV1009568	9/17/2024	0	9/17/2029	98.970891	96.28137722	93.1716338	90.11503204	87.17030699	84.33507167	81.60473514	78.9749101	76.44141009
ADV1009810	9/24/2024	0	9/24/2029	98.970654	96.26023379	93.13251925	90.05994643	87.10053594	84.2517409	81.50889698	78.86755009	76.32345133
ADV1009878	9/26/2024	0	9/26/2029	98.970571	96.25418941	93.1213471	90.04421522	87.080613	84.22794852	81.48153645	78.83690358	76.28978316
ADV1010064	10/2/2024	0	10/2/2029	98.930799	96.22697999	93.08674752	89.99684757	87.02087309	84.15678516	81.39984988	78.74553622	76.18952324
ADV1010067	10/2/2024	0	10/2/2029	98.930799	96.22697999	93.08674752	89.99684757	87.02087309	84.15678516	81.39984988	78.74553622	76.18952324
ADV1010068	10/2/2024	0	10/2/2029	98.930799	96.22697999	93.08674752	89.99684757	87.02087309	84.15678516	81.39984988	78.74553622	76.18952324
ADV1010126	10/4/2024	4.138	10/4/2029	105.59633	104.2405726	102.884979	101.4636524	99.82116696	97.79491147	95.43494182	93.02555402	90.69228224
ADV1010140	10/7/2024	0	10/9/2029	98.929709	96.20448478	93.04649105	89.9412261	86.95123073	84.07424026	81.3054435	78.64024059	76.07424598
ADV1010158	10/7/2024	0	10/9/2029	98.929709	96.20448478	93.04649105	89.9412261	86.95123073	84.07424026	81.3054435	78.64024059	76.07424598

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1010203	10/9/2024	0	10/9/2029	98.929709	96.20448478	93.04649105	89.9412261	86.95123073	84.07424026	81.3054435	78.64024059	76.07424598
ADV1010205	10/9/2024	0	10/9/2029	98.929709	96.20448478	93.04649105	89.9412261	86.95123073	84.07424026	81.3054435	78.64024059	76.07424598
ADV1010208	10/9/2024	0	10/9/2029	98.929709	96.20448478	93.04649105	89.9412261	86.95123073	84.07424026	81.3054435	78.64024059	76.07424598
ADV1010209	10/9/2024	0	10/9/2029	98.929709	96.20448478	93.04649105	89.9412261	86.95123073	84.07424026	81.3054435	78.64024059	76.07424598
ADV1010210	10/9/2024	0	10/9/2029	98.929709	96.20448478	93.04649105	89.9412261	86.95123074	84.07424026	81.3054435	78.64024059	76.07424598
ADV1010261	10/11/2024	0	10/11/2029	98.929376	96.19804728	93.0349906	89.92534187	86.93134459	84.05067221	81.27849152	78.61018297	76.04134256
ADV1010356	10/16/2024	0	10/16/2029	98.928502	96.18193392	93.0062435	89.88564607	86.88165189	83.99178359	81.21115292	78.53509108	75.95914799
ADV1010407	10/18/2024	0	10/18/2029	98.928135	96.17548063	92.99474624	89.86977366	86.86178388	83.96824073	81.184234	78.50507517	75.92629574
ADV1010414	10/18/2024	0	10/18/2029	98.928135	96.17548063	92.99474624	89.86977366	86.86178388	83.96824073	81.184234	78.50507517	75.92629574
ADV1010416	10/18/2024	0	10/18/2029	98.928135	96.17548063	92.99474624	89.86977366	86.86178388	83.96824073	81.184234	78.50507517	75.92629574
ADV1010510	10/24/2024	0	10/24/2029	98.926996	96.1560921	92.96025951	89.82217668	86.80221091	83.89765529	81.10353386	78.41509885	75.82782658
ADV1010633	10/31/2024	5.44	10/29/2049	117.66909	113.8882716	109.9407561	105.6681104	100.8315738	95.248871	88.96229077	82.40097829	76.21105235
ADV1012378	1/15/2025	0	1/15/2030	98.798252	95.87354473	92.49179887	89.17023588	85.97950053	82.91691739	79.97668316	77.15326435	74.4414047
ADV1012454	1/17/2025	0	1/17/2030	98.797894	95.86715276	92.4803768	89.15444503	85.95972048	82.89346532	79.94985349	77.12333132	74.40862378
ADV1012574	1/22/2025	0	1/22/2030	98.796979	95.8511536	92.45182567	89.11498292	85.91029326	82.834867	79.88282118	77.04855165	74.32673658
ADV1012601	1/23/2025	0	1/23/2030	98.796793	95.84795037	92.4461161	89.10709307	85.90041175	82.8231528	79.86942189	77.03360478	74.31037029
ADV1012603	1/23/2025	0	1/23/2030	98.796793	95.84795037	92.4461161	89.10709307	85.90041175	82.8231528	79.86942189	77.03360478	74.31037029
ADV1012608	1/23/2025	0	1/23/2030	98.796793	95.84795037	92.4461161	89.10709307	85.90041175	82.8231528	79.86942189	77.03360478	74.31037029
ADV1012631	1/24/2025	0	1/24/2030	98.796605	95.84474599	92.44040674	89.09920409	85.89053154	82.81144041	79.85602499	77.01866093	74.29400771
ADV1012660	1/27/2025	0	1/28/2030	98.795841	95.83191923	92.417572	89.06765682	85.85102379	82.76460905	79.80246129	76.95891573	74.22859453
ADV1012688	1/27/2025	4.945	1/15/2030	103.64093	102.905252	102.1764754	101.427824	100.5050659	98.96474066	96.45317405	93.42941127	90.42551167
ADV1013119	2/13/2025	0	2/13/2030	98.756715	95.77828726	92.33068281	88.94362763	85.69224194	82.57402893	79.58289716	76.71302886	73.95889944
ADV1013181	2/14/2025	0	2/14/2030	98.756936	95.77563885	92.32538831	88.93591383	85.68231547	82.5620825	79.56911359	76.6975815	73.9419525
ADV1013281	2/20/2025	4.459	3/15/2028	107.2759	105.601235	103.9591163	102.3417135	100.7278428	99.08157851	97.38778579	95.69897788	94.04618149
ADV1013282	2/20/2025	5	1/7/2030	103.53918	102.8319318	102.1312256	101.4134976	100.5391813	99.07737937	96.63896845	93.64393575	90.65190776
ADV1013283	2/20/2025	0	2/20/2030	98.758232	95.75974025	92.29363025	88.88964879	85.6227845	82.49044358	79.48646512	76.60496513	73.84035465
ADV1013471	2/25/2025	4.715	3/2/2032	117.70461	113.5693005	109.5134742	105.4869491	101.4049669	97.20039095	92.83732702	88.43080057	84.21119315
ADV1013551	2/28/2025	0	2/28/2030	98.763144	95.73928676	92.25138394	88.82801122	85.543484	82.39503069	79.37640834	76.4816571	73.70511414
ADV1013643	3/4/2025	0	3/4/2030	98.720874	95.71605451	92.22709708	88.79615474	85.50386407	82.34829292	79.32318051	76.42252249	73.6406142
ADV1014406	4/4/2025	0	4/4/2030	98.672124	95.60508724	92.04691958	88.54998136	85.19729684	81.98663996	78.91136829	75.96512669	73.14188431
ADV1014512	4/10/2025	0	4/10/2030	98.671262	95.58613898	92.01261375	88.50242795	85.13780306	81.91629024	78.83116332	75.8759936	73.04468187
ADV1014034	3/21/2025	0	3/21/2030	98.71736	95.66079048	92.12873663	88.6610749	85.33571719	82.14998337	79.09738642	76.171732	73.36713846
ADV1014513	4/10/2025	0	4/10/2030	98.671262	95.58613898	92.01261375	88.50242795	85.13780306	81.91629024	78.83116332	75.8759936	73.04468187

	Parallel-Shift Sensitivity Analysis											
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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	98.720706	95.71284535	92.22131969	88.78820255	85.49396246	82.33661304	79.3098795	76.40774629	73.62449832
ADV1013623	3/4/2025	0	3/4/2030	98.720874	95.71605451	92.22709708	88.79615474	85.50386407	82.34829292	79.32318051	76.42252249	73.6406142
ADV1017194	7/10/2025	0	7/10/2030	98.528024	95.26311181	91.48665133	87.78033	84.23534063	80.84898554	77.61342927	74.52119491	71.56521099
ADV1015175	5/2/2025	5.176	5/2/2045	118.41152	114.2110392	109.8627899	105.2591676	100.2576964	94.79368692	88.96052219	83.08780893	77.60507265
ADV1015172	5/2/2025	5.176	5/2/2045	118.41152	114.2110392	109.8627899	105.2591676	100.2576964	94.79368692	88.96052219	83.08780893	77.60507265
ADV1015129	5/1/2025	0	5/1/2030	98.626624	95.50926741	91.89147533	88.33616897	84.92991471	81.67053019	78.55103068	75.56473171	72.70529665
ADV1016790	6/26/2025	0	6/26/2030	98.573511	95.32005762	91.56964533	87.8923926	84.37454076	81.01293033	77.79988619	74.72809854	71.790651
ADV1015176	5/2/2025	5.173	5/2/2045	118.39869	114.1979571	109.8491367	105.2442028	100.2409904	94.7751823	88.94071844	83.06817347	77.58645669
ADV1015173	5/2/2025	5.176	5/2/2045	118.41152	114.2110392	109.8627899	105.2591676	100.2576964	94.79368692	88.96052219	83.08780893	77.60507265
ADV1017548	7/24/2025	0	7/24/2030	98.523071	95.21547722	91.40394033	87.66790435	84.09620919	80.68557714	77.42797589	74.31575993	71.34170222
ADV1017985	8/8/2025	4.86	8/8/2035	119.54344	114.8344561	110.0696503	105.1405291	99.93527452	94.39220761	88.52026877	82.58259868	76.98724899
ADV1019078	9/22/2025	4.184	10/1/2030	105.9841	104.5147368	103.0160315	101.3456359	99.20233	96.32175797	92.86279708	89.32243679	85.92511313
ADV1020474	11/19/2025	4.181	11/15/2030	106.97222	105.2370158	103.4748419	101.5504235	99.20008535	96.1924209	92.65062755	89.03342699	85.56558582
ADV1020543	11/21/2025	3.804	11/21/2028	105.96146	104.3560841	102.7575388	101.1011896	99.26044464	97.15491799	94.90539637	92.68534183	90.52805014
ADV1020473	11/19/2025	4.176	11/1/2030	106.96434	105.2295637	103.4686953	101.5480215	99.20658241	96.21536276	92.69711253	89.10559753	85.66164266
ADV1020545	11/21/2025	3.969	11/21/2030	110.04706	107.3578634	104.6674325	101.8721783	98.82123586	95.42502603	91.77815396	88.15966814	84.69973398
ADV1022588	2/13/2026	4.351	2/13/2031	103.59253	102.7624986	101.9130055	100.8957663	99.25508018	96.51780364	92.92495721	89.15025025	85.52431439
ADV1023025	3/4/2026	0	3/4/2031	98.09263	94.33794736	90.0414231	85.84077754	81.84711179	78.0567034	74.45842679	71.04166879	67.7964432
ADV1023663	3/31/2026	0	3/31/2031	98.06809	94.22956497	89.86605	85.61106373	81.56987024	77.73725069	74.10158015	70.65183181	67.3776403
ADV1023113	3/9/2026	0	3/7/2031	98.090621	94.32603227	90.02194906	85.81521683	81.81625095	78.02113487	74.41868475	70.99824133	67.74977585
ADV1023053	3/5/2026	0	3/5/2031	98.091791	94.33397785	90.03493225	85.83225631	81.83682328	78.04484517	74.44517687	71.02718985	67.7808837
ADV1023544	3/26/2026	4.233	3/26/2031	118.20175	113.4886675	108.965841	104.6071824	100.3822451	96.26975327	92.26415968	88.40375629	84.72609931
ADV1023250	3/13/2026	0	3/13/2031	98.085416	94.30209753	89.98298854	85.76412215	81.75457148	77.95005322	74.33927007	70.91147071	67.65654158
ADV1023587	3/27/2026	0	3/27/2031	98.072852	94.24587096	89.89204501	85.6450468	81.61087129	77.78448286	74.1543284	70.70944224	67.43951463
ADV1023844	4/7/2026	0	4/7/2031	98.024352	94.19033389	89.81924938	85.55109788	81.49733179	77.65353912	74.00800613	70.54958992	67.26781794
ADV1023346	3/18/2026	0	3/18/2031	98.080459	94.28205415	89.95050873	85.72157095	81.70321486	77.89087488	74.27316179	70.83924762	67.57894851
ADV1023144	3/10/2026	0	3/10/2031	98.087517	94.31407682	90.00247079	85.78966504	81.78540418	77.98558481	74.37896585	70.95484198	67.70314199
ADV1024165	4/21/2026	0	4/21/2031	98.012446	94.13465733	89.7283619	85.43142779	81.35248977	77.48642389	73.82124417	70.34557547	67.04873246
ADV1023245	3/13/2026	0	3/13/2031	98.085416	94.30209753	89.98298854	85.76412215	81.75457148	77.95005322	74.33927007	70.91147071	67.65654158
ADV1023707	4/1/2026	0	4/1/2031	98.029343	94.2141624	89.85822969	85.60245218	81.55950257	77.7252856	74.08820454	70.63721623	67.36193996
ADV1023010	3/3/2026	3.889	3/3/2031	113.66046	109.8579395	106.132213	102.4231417	98.6589317	94.80727188	90.91451986	87.12463427	83.51298607
ADV1023318	3/17/2026	0	3/17/2031	98.081351	94.28606875	89.95700568	85.73007905	81.71348306	77.90270645	74.28637831	70.85368601	67.5944597
ADV1023054	3/5/2026	0	3/5/2031	98.091791	94.33397785	90.03493225	85.83225631	81.83682328	78.04484517	74.44517687	71.02718985	67.7808837

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023446	3/23/2026	0	3/24/2031	98.074797	94.25793494	89.91152919	85.67054514	81.64163844	77.81992846	74.19391647	70.7526827	67.48595924
ADV1023168	3/11/2026	0	3/11/2031	98.086647	94.31008585	89.99597716	85.78114975	81.77512505	77.9737389	74.36573136	70.94038177	67.6876048
ADV1024076	4/16/2026	0	4/16/2031	98.016734	94.15455265	89.7608097	85.474142	81.40418323	77.54606083	73.88788585	70.41836603	67.1268918
ADV1023479	3/24/2026	0	3/24/2031	98.07506	94.257937	89.91152919	85.67054514	81.64163844	77.81992846	74.19391647	70.7526827	67.48595924
ADV1023050	3/5/2026	0	3/5/2031	98.091791	94.33397785	90.03493225	85.83225631	81.83682328	78.04484517	74.44517687	71.02718985	67.7808837
ADV1023316	3/17/2026	0	3/17/2031	98.081351	94.28606875	89.95700568	85.73007905	81.71348306	77.90270645	74.28637831	70.85368601	67.5944597
ADV1023201	3/12/2026	0	3/12/2031	98.085772	94.30609126	89.98948308	85.77263545	81.76484748	77.96189503	74.35249943	70.92592468	67.67207133
ADV1023653	3/31/2026	0	3/28/2031	98.072195	94.24184785	89.88555107	85.63654951	81.60061869	77.77267175	74.1411375	70.69503497	67.42404049
ADV1023652	3/31/2026	0	3/28/2031	98.072195	94.24184785	89.88555107	85.63654951	81.60061869	77.77267175	74.1411375	70.69503497	67.42404049
ADV1023424	3/20/2026	0	3/20/2031	98.079188	94.27402248	89.93751401	85.70455802	81.68268315	77.86721788	74.24673643	70.81038019	67.54793725
211124A00006	11/26/2021	4.05	11/25/2026	100.09899	100.0962831	100.0922574	100.086955	100.0804128	100.072667	100.0637523	100.0537027	100.0425507
220608A00012	6/8/2022	4.38	6/8/2029	100.90118	100.9321274	100.9397539	100.9257543	100.8917156	100.8391194	100.7693495	100.6836983	100.5833734
220929A00039	9/29/2022	4.42	9/28/2029	101.06912	101.1021541	101.1107954	101.0969142	101.0622523	101.0084293	100.9369511	100.8492184	100.7465343
221115A00039	11/15/2022	4.2	11/16/2026	100.18111	100.1781239	100.173867	100.168371	100.1616702	100.1537976	100.1447854	100.1346647	100.123466
221216A00018	12/16/2022	4.2	12/16/2026	100.19629	100.1931072	100.1885022	100.1825211	100.1752079	100.1666049	100.156753	100.1456918	100.1334595
230307A00025	3/7/2023	4.2	3/7/2028	100.3353	100.3575212	100.3662434	100.3622511	100.3462882	100.3190574	100.2812223	100.2334104	100.1762144
230313A00124	3/13/2023	4.35	5/13/2026	100.02752	100.0244876	100.0214639	100.0184477	100.0154389	100.0124375	100.0094434	100.0064566	100.0034772
230410A00022	4/10/2023	4.31	4/10/2028	100.559	100.5808062	100.587928	100.5812738	100.5616964	100.529999	100.4869382	100.4332271	100.3695378
230511A00058	5/11/2023	4.27	5/11/2028	100.49111	100.5146752	100.5227918	100.5164092	100.4964257	100.4636872	100.4189901	100.3630849	100.2966789
230816A00019	8/16/2023	4.25	8/16/2028	100.45307	100.4832255	100.4970116	100.4954035	100.4793242	100.4496445	100.4071865	100.352726	100.286996
230914A00009	9/14/2023	4.17	9/14/2028	100.26227	100.2960608	100.3131786	100.3146701	100.3015232	100.2746672	100.2349762	100.1832726	100.1203307
230922A00036	9/22/2023	4.14	9/22/2028	100.18925	100.2240731	100.2421307	100.2444855	100.2321329	100.2060091	100.1669946	100.1159177	100.053558
231025A00027	10/25/2023	4.17	10/25/2028	100.25325	100.2930296	100.319517	100.3335641	100.3359696	100.3274846	100.3088151	100.2806253	100.24354
231106A00009	11/6/2023	4.14	10/15/2026	100.13141	100.1286541	100.1249561	100.1203396	100.1148245	100.1084302	100.1011759	100.09308	100.0841609
231115A00005	11/15/2023	4.13	11/16/2026	100.1422	100.1394214	100.1353455	100.1300087	100.1234454	100.115689	100.1067721	100.0967261	100.0855816
231215A00007	12/15/2023	4.12	12/1/2026	100.14156	100.1386017	100.1344042	100.1290007	100.1224263	100.1147148	100.105899	100.0960108	100.085081
240112A00017	1/12/2024	4.19	1/12/2029	100.30211	100.3421092	100.3623448	100.36407	100.3484628	100.3166328	100.2696253	100.2084253	100.133961
240116A00030	1/16/2024	4.07	1/15/2027	100.11765	100.1152647	100.1111793	100.105451	100.0981356	100.0892869	100.0789566	100.0671945	100.0540485
240215A00011	2/15/2024	4.05	2/16/2027	100.10955	100.1073558	100.10323	100.0972436	100.0894674	100.0799692	100.068814	100.0560641	100.0417793
240314A00006	3/14/2024	4.15	3/14/2029	100.2036	100.2418587	100.2584962	100.255059	100.232993	100.1936486	100.1382877	100.0680892	99.98415487
240315A00011	3/15/2024	4.03	3/15/2027	100.10062	100.0983411	100.0940727	100.0878947	100.0798866	100.0701239	100.058679	100.0456209	100.0310156
240327A00032	3/27/2024	4.01	3/26/2027	100.08585	100.0837238	100.0794973	100.0732599	100.0650978	100.055093	100.0433238	100.0298649	100.0147873
240328A00053	3/28/2024	4.14	3/28/2029	100.16939	100.2093798	100.2272091	100.2244875	100.2027182	100.1633034	100.1075518	100.0366849	99.95184289

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
240415A00006	4/15/2024	4	4/15/2027	100.07992	100.078122	100.0740077	100.0676814	100.0592418	100.0487822	100.0363916	100.0221545	100.0061513
240417A00013	4/17/2024	4.33	4/17/2031	100.85533	100.9045252	100.9155472	100.8922231	100.83803	100.7561312	100.6494045	100.520468	100.3717035
240515A00015	5/15/2024	3.99	5/17/2027	100.0808	100.0793627	100.0763478	100.0717784	100.0657163	100.0582206	100.0493477	100.0391512	100.0276824
ADV1006428	5/28/2024	4.002	5/28/2027	100.09101	100.0896329	100.0871857	100.0837031	100.0792184	100.0737635	100.067369	100.0600644	100.0518783
ADV1006699	6/3/2024	4.021	6/3/2027	100.11052	100.1090743	100.1068531	100.1038695	100.1001402	100.0956813	100.0905089	100.0846386	100.0780859
ADV1006870	6/10/2024	4.037	6/10/2027	100.12682	100.1254057	100.1235473	100.1212388	100.1184757	100.1152547	100.1115735	100.1074306	100.1028252
ADV1007038	6/14/2024	4.044	6/14/2027	100.13397	100.1326053	100.1309872	100.1290996	100.1269254	100.1244495	100.1216585	100.1185406	100.1150853
ADV1007043	6/14/2024	4.104	6/14/2029	100.03028	100.0757129	100.0974101	100.0970839	100.0763352	100.0366595	99.97945367	99.90602297	99.81758703
ADV1007203	6/20/2024	4.043	6/21/2027	100.14677	100.1453845	100.1440723	100.1427924	100.1415062	100.1401786	100.1387773	100.1372731	100.1356393
ADV1007514	7/1/2024	4.055	7/1/2027	100.1592	100.1580436	100.1574008	100.1571963	100.157361	100.1578311	100.1585478	100.1594568	100.1605084
ADV1007965	7/17/2024	4.052	7/19/2027	100.16451	100.1639459	100.164677	100.1665597	100.1694644	100.1732709	100.1778686	100.1831549	100.1890352
ADV1008702	8/15/2024	4.083	8/16/2027	100.18477	100.1940486	100.1997386	100.2019725	100.2008749	100.1965659	100.1891606	100.1787699	100.1655004
ADV1008824	8/21/2024	4.083	8/23/2027	100.17839	100.1918533	100.199396	100.2012874	100.197785	100.1891338	100.175567	100.1573068	100.1345646
ADV1009264	9/4/2024	4.1	9/7/2027	100.18927	100.2073503	100.2168087	100.2180755	100.2115612	100.1976554	100.1767278	100.1491296	100.1151946
ADV1010016	10/1/2024	4.078	10/1/2026	100.09608	100.0931226	100.0892467	100.0844687	100.0788084	100.0722852	100.0649179	100.0567251	100.0477247
ADV1010293	10/15/2024	4.117	10/15/2027	100.18515	100.206845	100.2218172	100.2304239	100.2330054	100.2298839	100.2213649	100.2077382	100.1892786
ADV1010616	10/30/2024	4.088	10/30/2026	100.11439	100.1124154	100.1100145	100.1072001	100.1039816	100.1003682	100.0963688	100.0919919	100.0872462
ADV1010836	11/12/2024	4.128	11/12/2027	100.18914	100.2123614	100.2284151	100.2376653	100.2404587	100.2371249	100.2279769	100.2133122	100.1934138
ADV1010941	11/15/2024	4.133	11/15/2027	100.1971	100.2202519	100.2361462	100.2451534	100.2476222	100.2438841	100.234254	100.2190314	100.1985012
ADV1011500	12/12/2024	4.106	12/13/2027	100.1516	100.176245	100.1927715	100.2015715	100.2030165	100.1974609	100.1852425	100.1666833	100.1420908
ADV1012110	1/6/2025	4.101	1/6/2028	100.13805	100.1649402	100.1829317	100.1924425	100.1938702	100.1875941	100.1739769	100.1533652	100.1260902
ADV1013208	2/18/2025	4.05	2/18/2028	100.05068	100.0787614	100.0966343	100.1048693	100.104007	100.0945589	100.0770096	100.0518182	100.0194197
ADV1013888	3/14/2025	4.057	3/14/2028	100.06453	100.0901675	100.1020042	100.1008517	100.0874779	100.0626074	100.0269245	99.98107533	99.92567052
ADV1014315	4/2/2025	3.919	6/2/2026	100.01947	100.0111609	100.0084844	100.005741	100.0029313	100.0000555	99.99711416	99.9941075	99.99103591
ADV1014403	4/4/2025	3.978	8/4/2026	100.03675	100.0339785	100.0314863	100.0287793	100.0258603	100.022732	100.0193972	100.0158584	100.0121183
ADV1014613	4/15/2025	4.147	4/17/2028	100.23881	100.266635	100.2825227	100.2872338	100.2814824	100.2659401	100.2412393	100.2079753	100.1667087
ADV1014146	3/27/2025	4.086	3/27/2028	100.11703	100.1432539	100.1552096	100.1537584	100.1397101	100.1138287	100.0768343	100.0294067	99.97218725
ADV1015395	5/12/2025	4.103	5/12/2028	100.14663	100.1741875	100.186205	100.1836389	100.1673877	100.1382978	100.0971664	100.0447448	99.98174077
ADV1016466	6/16/2025	3.911	6/16/2026	100.02284	100.0108437	100.0075095	100.0040143	100.0003594	99.99654593	99.99257496	99.98844767	99.98416515
ADV1019700	10/15/2025	4.089	10/16/2028	100.05411	100.0954813	100.1235781	100.1392544	100.1433093	100.1364937	100.1195134	100.0930322	100.0576742
ADV1018855	9/15/2025	4.115	9/15/2028	100.12957	100.1681926	100.1937124	100.2069812	100.208798	100.1999126	100.1810292	100.1528092	100.115874
ADV1019841	10/21/2025	3.96	10/21/2026	100.0516	100.0457205	100.0421533	100.0374855	100.0317427	100.02495	100.0171318	100.0083117	99.9985128
ADV1018298	8/21/2025	4.13	8/21/2028	100.1716	100.2085975	100.2326423	100.2445402	100.2450503	100.2348875	100.2147248	100.1851963	100.1468993

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1018807	9/11/2025	3.8	9/11/2026	100.09879	100.0330446	100.0289725	100.0241531	100.0186015	100.0123325	100.0053605	99.9976998	99.98936428
ADV1018164	8/15/2025	4.123	8/15/2028	100.15774	100.1915714	100.2089399	100.2108245	100.1981509	100.1717929	100.1325751	100.0812761	100.0186311
ADV1021036	12/15/2025	4.031	10/16/2028	99.920837	99.9495598	99.9728772	99.98029977	99.97282011	99.95137264	99.91683715	99.87004226	99.81176853
ADV1020147	11/3/2025	4.075	11/3/2028	100.00957	100.0530762	100.0830835	100.100453	100.1059905	100.1004542	100.0845569	100.0589697	100.0243239
ADV1020713	12/1/2025	3.846	12/1/2026	100.12934	100.0627818	100.0581651	100.0522612	100.0451085	100.0367446	100.0272055	100.0165264	100.0047412
ADV1021335	12/26/2025	3.956	9/25/2026	100.04791	100.0348492	100.0249895	100.0135698	100.0006224	99.98617885	99.97027008	99.9529263	99.93417712
ADV1022583	2/13/2026	4.04	2/13/2029	99.89312	99.93386709	99.96552469	99.98168335	99.9833941	99.97164317	99.94735615	99.91140185	99.86459589
ADV1021969	1/22/2026	3.871	6/22/2026	100.02424	100.0045446	100.0002808	99.99581483	99.99114835	99.9862829	99.98122007	99.97596141	99.97050845
ADV1021874	1/16/2026	4.207	1/18/2033	99.375931	99.50865616	99.59669596	99.64512354	99.65849101	99.64088214	99.59595992	99.52700917	99.43697483
ADV1021763	1/13/2026	3.845	5/13/2026	100.01412	100.0061835	100.003085	99.99999402	99.99691047	99.99383441	99.99076579	99.98770454	99.98465074
ADV1022475	2/10/2026	3.916	5/8/2026	100.01299	100.0085894	100.0056847	100.0027907	99.99990729	99.99703454	99.99417238	99.99132077	99.98847974
ADV1022544	2/12/2026	3.9	6/12/2026	100.02189	100.0089254	100.0052445	100.00143	99.99748266	99.99340348	99.98919332	99.98485306	99.98038356
ADV1021819	1/15/2026	4.02	1/16/2029	99.85231	99.8807199	99.90783438	99.91613172	99.90680568	99.88098085	99.83971681	99.784012	99.71480742
ADV1021788	1/14/2026	3.847	5/14/2026	100.01439	100.0061163	100.0029943	99.99987827	99.99676814	99.99366394	99.99056561	99.98747311	99.98438651
ADV1022063	1/26/2026	3.887	6/29/2026	100.02596	100.0067853	100.0023418	99.99763839	99.99267746	99.98746119	99.98199177	99.97627136	99.97030212
ADV1022414	2/6/2026	4.092	2/6/2031	99.700857	99.78163887	99.82508867	99.83463953	99.81344007	99.76437789	99.6901012	99.59303862	99.4754173
ADV1022061	1/26/2026	3.887	6/26/2026	100.02524	100.0068559	100.0025134	99.99793664	99.99312739	99.98808763	99.98281926	99.97732418	99.97160427
ADV1021967	1/22/2026	3.879	5/22/2026	100.01658	100.007033	100.0037263	100.0004019	99.99706005	99.99370071	99.99032399	99.98692994	99.98351865
ADV1024115	4/20/2026	4.129	4/18/2031	99.846395	99.92138214	99.95719577	99.95770922	99.92644717	99.86661734	99.78113919	99.67266988	99.54362786
ADV1023381	3/19/2026	4.056	3/19/2029	99.927761	99.97343864	100.0023346	100.0149987	100.0126331	99.99635898	99.96722162	99.92619596	99.87419142
ADV1023962	4/14/2026	3.887	10/14/2026	100.04908	100.0100658	100.0046346	99.99717222	99.98772538	99.97633982	99.96306018	99.94793003	99.93099194
ADV1023941	4/13/2026	4.069	4/13/2029	99.954764	99.99850198	100.0194262	100.0192215	99.99945754	99.96159691	99.90700277	99.83694583	99.75261085
ADV1023801	4/6/2026	4.008	4/26/2028	99.960311	99.98867053	100.0018185	100.0006957	99.98618846	99.95913135	99.92031039	99.87046623	99.81029681
ADV1023737	4/2/2026	3.91	9/30/2026	100.0484	100.0204269	100.014852	100.0075725	99.99862441	99.98804283	99.97586216	99.96211606	99.94683744
ADV1023603	3/30/2026	4.314	3/30/2033	100.04604	100.1543361	100.2174492	100.2408635	100.229458	100.1875722	100.1190655	100.0273694	99.91553472
ADV1023743	4/2/2026	4.159	4/2/2031	100.00598	100.0767715	100.1090332	100.1065424	100.0727384	100.010755	99.92344786	99.8134192	99.68304031
ADV1023795	4/6/2026	3.912	8/6/2026	100.0353	100.0158202	100.0119567	100.0073886	100.0021256	99.9961773	99.98955307	99.98226219	99.97431381
ADV1023639	3/31/2026	3.918	9/28/2026	100.04799	100.0235263	100.0179136	100.0106412	100.0017436	99.99125457	99.97920738	99.9656344	99.95056735
ADV1023862	4/8/2026	3.898	8/10/2026	100.03631	100.0124097	100.0085317	100.0038903	99.9984966	99.99236124	99.98549487	99.97790794	99.96961076
ADV1009630	9/18/2024	4.245	9/18/2029	100.01216	100.0093767	100.0065931	100.003812	100.0010333	99.99825694	99.99548301	99.99271149	99.98994236
ADV1010025	10/1/2024	4.256	10/1/2029	100.01219	100.0094112	100.0066322	100.0038556	100.0010814	99.9983096	99.99554021	99.99277322	99.99000861
ADV1010137	10/7/2024	4.249	10/9/2029	100.01217	100.0093934	100.0066164	100.0038418	100.0010696	99.99829983	99.99553243	99.99276741	99.99000478
ADV1010509	10/24/2024	4.266	10/24/2029	100.01222	100.0094455	100.006674	100.003905	100.0011383	99.99837406	99.99561218	99.9928527	99.99009559

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1010723	11/5/2024	4.326	11/5/2029	100.01239	100.0095895	100.0067919	100.0039968	100.0012041	99.99841377	99.99562587	99.99284039	99.99005731
ADV1010727	11/5/2024	4.135	8/5/2026	100.01186	100.00906	100.0062637	100.0034698	100.0006783	99.99788928	99.99510264	99.99231839	99.98953656
ADV1010729	11/5/2024	4.125	5/5/2026	100.01183	100.0090323	100.0062361	100.0034422	100.0006508	99.99786182	99.99507524	99.99229107	99.98950929
ADV1010935	11/15/2024	4.279	5/15/2029	100.01226	100.0094621	100.0066681	100.0038766	100.0010875	99.99830077	99.99551648	99.99273459	99.98995511
ADV1010936	11/15/2024	4.205	2/15/2028	100.01205	100.0092569	100.0064634	100.0036723	100.0008836	99.99809729	99.99531343	99.99253196	99.9897529
ADV1010937	11/15/2024	4.185	11/15/2027	100.012	100.0092014	100.006408	100.003617	100.0008285	99.9980423	99.99525855	99.9924772	99.98969825
ADV1010971	11/18/2024	4.151	2/16/2027	100.0119	100.0091074	100.0063145	100.0035241	100.000736	99.99795037	99.99516714	99.9923863	99.98960787
ADV1011039	11/20/2024	4.286	11/20/2029	100.01228	100.0094829	100.0066906	100.0039007	100.0011132	99.99832814	99.99554547	99.99276521	99.98998734
ADV1011270	11/29/2024	4.266	11/20/2029	100.01222	100.0094275	100.0066353	100.0038455	100.0010581	99.99827311	99.99549055	99.99271039	99.98993263
ADV1011569	12/16/2024	4.271	12/14/2029	100.01224	100.0094477	100.0066627	100.0038802	100.0011	99.99832229	99.99554696	99.99277403	99.99000349
ADV1011573	12/16/2024	4.259	9/14/2029	100.0122	100.0094144	100.0066295	100.003847	100.0010669	99.99828918	99.99551389	99.992741	99.98997051
ADV1011770	12/23/2024	4.241	6/21/2029	100.01215	100.0093664	100.0065839	100.0038037	100.001026	99.99825064	99.9954777	99.99270716	99.98993902
ADV1012634	1/24/2025	4.244	1/24/2030	100.01216	100.0093844	100.0066129	100.0038439	100.0010773	99.998313	99.99555114	99.99279167	99.99003457
ADV1012173	1/8/2025	4.262	11/21/2029	100.01221	100.0094167	100.0066248	100.0038354	100.0010483	99.99826371	99.9954815	99.99270169	99.98992428
ADV1012341	1/15/2025	4.17	4/17/2028	100.01195	100.0091763	100.006402	100.0036301	100.0008606	99.99809352	99.99532881	99.99256648	99.98980654
ADV1012552	1/22/2025	4.207	1/22/2029	100.01206	100.0092805	100.0065078	100.0037375	100.0009695	99.99820402	99.99544088	99.99268014	99.98992177
ADV1012360	1/15/2025	4.078	1/15/2027	100.0117	100.0089209	100.0061467	100.0033749	100.0006055	99.99783852	99.99507392	99.9923117	99.98955187
ADV1012593	1/23/2025	4.242	1/23/2030	100.01215	100.0093785	100.0066068	100.0038374	100.0010704	99.99830586	99.99554367	99.99278387	99.99002645
ADV1012408	1/16/2025	4.039	10/16/2026	100.01159	100.0088129	100.006039	100.0032676	100.0004986	99.99773196	99.99496772	99.99220587	99.98944641
ADV1012355	1/15/2025	4.033	7/15/2026	100.01157	100.0087959	100.0060218	100.0032501	100.0004807	99.99771379	99.99494924	99.99218708	99.98942731
ADV1012406	1/16/2025	4.173	7/17/2028	100.01196	100.009185	100.006411	100.0036394	100.0008702	99.99810343	99.99533904	99.99257704	99.98981742
ADV1012485	1/21/2025	4.153	1/20/2028	100.01191	100.0091305	100.0063579	100.0035876	100.0008197	99.99805424	99.99529115	99.99253045	99.98977213
ADV1012475	1/21/2025	4.1	4/20/2027	100.01176	100.0089834	100.0062107	100.0034405	100.0006727	99.99790724	99.99514419	99.99238354	99.98962526
ADV1012363	1/15/2025	4.209	4/16/2029	100.01206	100.0092846	100.0065103	100.0037383	100.0009688	99.99820162	99.99543686	99.99267448	99.98991449
ADV1012367	1/15/2025	4.102	4/15/2027	100.01176	100.0089875	100.0062133	100.0034415	100.0006721	99.99790504	99.99514041	99.99237816	99.98961831
ADV1012218	1/10/2025	4.251	7/10/2029	100.01218	100.0093998	100.0066238	100.0038502	100.0010789	99.9983101	99.99554366	99.99277961	99.99001794
ADV1012473	1/21/2025	4.231	10/22/2029	100.01212	100.0093471	100.0065744	100.0038041	100.0010361	99.99827059	99.99550743	99.99274666	99.98998828
ADV1012476	1/21/2025	4.231	10/22/2029	100.01212	100.0093471	100.0065744	100.0038041	100.0010361	99.99827059	99.99550743	99.99274666	99.98998828
ADV1012357	1/15/2025	4.052	10/15/2026	100.01163	100.0088487	100.0060745	100.0033028	100.0005334	99.99776645	99.99500188	99.9922397	99.9894799
ADV1012557	1/22/2025	4.194	10/20/2028	100.01202	100.0092444	100.0064717	100.0037014	100.0009335	99.99816796	99.99540484	99.9926441	99.98988575
ADV1012370	1/15/2025	4.17	4/17/2028	100.01195	100.0091763	100.006402	100.0036301	100.0008606	99.99809352	99.99532881	99.99256648	99.98980654
ADV1012491	1/21/2025	4.023	7/20/2026	100.01154	100.0087695	100.005997	100.0032268	100.000459	99.99769366	99.99493068	99.99217009	99.98941188
ADV1012558	1/22/2025	4.194	10/20/2028	100.01202	100.0092444	100.0064717	100.0037014	100.0009335	99.99816796	99.99540484	99.9926441	99.98988575

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1012479	1/21/2025	4.137	10/20/2027	100.01186	100.0090861	100.0063134	100.0035432	100.0007753	99.99800986	99.99524679	99.9924861	99.98972779
ADV1012342	1/15/2025	4.182	7/17/2028	100.01199	100.0092097	100.0064353	100.0036634	100.0008939	99.99812679	99.99536205	99.99259971	99.98983976
ADV1012553	1/22/2025	4.194	10/20/2028	100.01202	100.0092444	100.0064717	100.0037014	100.0009335	99.99816796	99.99540484	99.9926441	99.98988575
ADV1013162	2/14/2025	4.183	2/14/2030	100.01199	100.0091956	100.0064019	100.0036106	100.0008217	99.99803523	99.99525116	99.9924695	99.98969024
ADV1013251	2/19/2025	4.188	2/19/2030	100.01201	100.0092109	100.0064188	100.0036291	100.0008418	99.99805691	99.99527444	99.99249437	99.98971671
ADV1014597	4/15/2025	4.29	4/15/2030	100.01229	100.0095095	100.0067351	100.003963	100.0011934	99.99842614	99.99566128	99.9928988	99.99013871
ADV1014611	4/15/2025	4.29	4/15/2030	100.01229	100.0095095	100.0067351	100.003963	100.0011934	99.99842614	99.99566128	99.9928988	99.99013871
ADV1014466	4/8/2025	4.221	8/15/2028	100.0121	100.0093013	100.0065076	100.0037164	100.0009277	99.99814129	99.99535733	99.99257577	99.98979662
ADV1013687	3/6/2025	4.099	2/15/2028	100.01176	100.008963	100.0061701	100.0033796	100.0005915	99.99780582	99.99502256	99.99224171	99.98946326
ADV1014720	4/21/2025	4.286	7/20/2029	100.01228	100.0094999	100.0067271	100.0039567	100.0011887	99.99842314	99.99565994	99.99289912	99.99014069
ADV1014710	4/21/2025	4.219	4/20/2028	100.01209	100.0093138	100.0065411	100.0037708	100.0010028	99.9982373	99.99547416	99.9927134	99.98995503
ADV1014612	4/15/2025	4.29	4/15/2030	100.01229	100.0095095	100.0067351	100.003963	100.0011934	99.99842614	99.99566128	99.9928988	99.99013871
ADV1014869	4/24/2025	4.131	5/7/2027	100.01185	100.0090495	100.0062538	100.0034606	100.0006698	99.9978814	99.99509541	99.99231183	99.98953066
ADV1014607	4/15/2025	4.271	10/15/2029	100.01223	100.0094568	100.0066824	100.0039103	100.0011407	99.99837347	99.99560863	99.99284618	99.99008612
ADV1014721	4/21/2025	4.286	7/20/2029	100.01228	100.0094999	100.0067271	100.0039567	100.0011887	99.99842314	99.99565994	99.99289912	99.99014069
ADV1013887	3/14/2025	4.173	10/15/2029	100.01196	100.0091847	100.0064104	100.0036385	100.000869	99.99810184	99.99533712	99.99257479	99.98981484
ADV1014598	4/15/2025	4.29	4/15/2030	100.01229	100.0095095	100.0067351	100.003963	100.0011934	99.99842614	99.99566128	99.9928988	99.99013871
ADV1014707	4/21/2025	4.312	1/22/2030	100.01235	100.0095721	100.0067993	100.0040289	100.0012609	99.99849525	99.99573203	99.99297119	99.99021274
ADV1013957	3/18/2025	4.138	10/17/2028	100.01186	100.009088	100.0063144	100.0035432	100.0007744	99.99800797	99.99524394	99.99248229	99.98972303
ADV1014601	4/15/2025	4.29	4/15/2030	100.01229	100.0095095	100.0067351	100.003963	100.0011934	99.99842614	99.99566128	99.9928988	99.99013871
ADV1014599	4/15/2025	4.29	4/15/2030	100.01229	100.0095095	100.0067351	100.003963	100.0011934	99.99842614	99.99566128	99.9928988	99.99013871
ADV1014602	4/15/2025	4.29	4/15/2030	100.01229	100.0095095	100.0067351	100.003963	100.0011934	99.99842614	99.99566128	99.9928988	99.99013871
ADV1014604	4/15/2025	4.184	1/18/2028	100.01199	100.0092152	100.0064409	100.003669	100.0008995	99.99813233	99.9953676	99.99260525	99.98984529
ADV1014032	3/21/2025	4.169	4/20/2029	100.01195	100.009175	100.0064023	100.003632	100.0008641	99.99809862	99.99533552	99.9925748	99.98981647
ADV1014716	4/21/2025	4.271	4/20/2029	100.01223	100.0094582	100.0066855	100.0039151	100.0011471	99.99838153	99.99561834	99.99285754	99.99009913
ADV1016975	7/1/2025	4.177	7/3/2028	100.01197	100.0091919	100.0064131	100.0036367	100.0008627	99.99809105	99.99532184	99.99255502	99.98979059
ADV1017601	7/28/2025	4.17	7/28/2028	100.01195	100.00918	100.0064099	100.0036422	100.0008768	99.99811393	99.99535339	99.99259524	99.98983947
ADV1015945	5/28/2025	4.28	5/24/2030	100.01226	100.0094664	100.0066767	100.0038896	100.0011048	99.9983224	99.99554243	99.99276486	99.98998969
ADV1016174	6/4/2025	4.161	7/3/2028	100.01193	100.0091475	100.0063687	100.0035923	100.0008183	99.99804678	99.99527761	99.99251083	99.98974644
ADV1016465	6/16/2025	4.152	7/3/2028	100.0119	100.0091225	100.0063437	100.0035674	100.0007934	99.99802188	99.99525273	99.99248597	99.9897216
ADV1015924	5/28/2025	4.28	5/28/2030	100.01226	100.0094626	100.0066687	100.0038772	100.0010881	99.99830137	99.99551709	99.99273522	99.98995575
ADV1016977	7/1/2025	4.177	7/3/2028	100.01197	100.0091919	100.0064131	100.0036367	100.0008627	99.99809105	99.99532184	99.99255502	99.98979059
ADV1017448	7/21/2025	4.194	8/1/2028	100.01202	100.0092225	100.0064246	100.0036291	100.000836	99.99804528	99.99525701	99.99247116	99.98968771

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1016172	6/4/2025	4.161	7/3/2028	100.01193	100.0091475	100.0063687	100.0035923	100.0008183	99.99804678	99.99527761	99.99251083	99.98974644
ADV1015174	5/2/2025	4.203	6/1/2028	100.01205	100.0092553	100.0064664	100.0036798	100.0008957	99.99811404	99.99533474	99.99255784	99.98978334
ADV1016976	7/1/2025	4.177	7/3/2028	100.01197	100.0091919	100.0064131	100.0036367	100.0008627	99.99809105	99.99532184	99.99255502	99.98979059
ADV1017518	7/23/2025	4.177	8/1/2028	100.01198	100.0091754	100.0063776	100.0035822	100.0007892	99.99799863	99.99521047	99.99242473	99.9896414
ADV1017170	7/10/2025	4.196	8/1/2028	100.01203	100.009228	100.0064301	100.0036346	100.0008415	99.99805077	99.99526249	99.99247662	99.98969315
ADV1016175	6/4/2025	4.161	7/3/2028	100.01193	100.0091475	100.0063687	100.0035923	100.0008183	99.99804678	99.99527761	99.99251083	99.98974644
ADV1015757	5/22/2025	4.182	6/1/2028	100.01199	100.0091971	100.0064082	100.0036218	100.0008378	99.99805618	99.99527698	99.99250018	99.98972578
ADV1018841	9/12/2025	4.24	9/12/2029	100.03921	100.0359439	100.0327012	100.0294218	100.0261059	100.0227535	100.0193651	100.0159409	100.0124806
ADV1018961	9/17/2025	4.255	9/17/2030	100.01218	100.009393	100.0066092	100.0038278	100.0010488	99.99827223	99.99549806	99.99272628	99.98995689
ADV1019843	10/21/2025	4.01	10/21/2026	100.01151	100.0087334	100.0059609	100.0031907	100.000423	99.99765761	99.99489464	99.99213406	99.98937586
ADV1019581	10/8/2025	4.144	10/10/2028	100.01188	100.0091022	100.0063257	100.0035516	100.0007799	99.99801066	99.99524376	99.99247925	99.98971713
ADV1019863	10/22/2025	4.155	11/1/2028	100.01191	100.0091144	100.0063167	100.0035215	100.0007287	99.99793825	99.99515025	99.99236465	99.98958147
ADV1019545	10/7/2025	4.246	10/7/2030	100.01215	100.009374	100.0065971	100.0038226	100.0010505	99.99828083	99.99551354	99.99274864	99.98998612
ADV1018879	9/15/2025	4.166	9/15/2028	100.01194	100.0091566	100.0063724	100.0035905	100.0008111	99.99803408	99.99525945	99.99248723	99.9897174
ADV1019698	10/15/2025	4.218	10/15/2030	100.01207	100.0092963	100.006522	100.0037502	100.0009808	99.99821375	99.99544911	99.99268685	99.98992698
ADV1019352	9/30/2025	4.238	9/30/2030	100.01213	100.009354	100.0065797	100.0038079	100.0010384	99.99827132	99.99550663	99.99274433	99.98998441
ADV1018981	9/18/2025	4.167	10/2/2028	100.01195	100.0091641	100.0063853	100.0036089	100.000835	99.99806338	99.9952942	99.9925274	99.989763
ADV1019448	10/1/2025	4.216	10/1/2029	100.01208	100.0093001	100.0065212	100.0037447	100.0009706	99.99819894	99.99542964	99.99266274	99.98989822
ADV1019936	10/27/2025	4.139	10/26/2028	100.01187	100.0090936	100.0063232	100.0035552	100.0007895	99.99802629	99.99526544	99.99250698	99.9897509
ADV1018629	9/4/2025	4.268	9/4/2030	100.01222	100.0094275	100.0066394	100.0038536	100.0010703	99.99828938	99.99551086	99.99273475	99.98996102
ADV1018241	8/19/2025	4.244	8/19/2030	100.01215	100.0093741	100.0066011	100.0038305	100.0010623	99.99829651	99.9955331	99.99277208	99.99001345
ADV1019627	10/10/2025	4.241	10/10/2030	100.01214	100.0093609	100.006585	100.0038115	100.0010404	99.99827171	99.99550539	99.99274147	99.98997992
ADV1018006	8/11/2025	4.184	9/1/2028	100.01199	100.0092026	100.0064138	100.0036273	100.0008433	99.99806169	99.99528248	99.99250567	99.98973126
ADV1019349	9/30/2025	4.238	9/30/2030	100.01213	100.009354	100.0065797	100.0038079	100.0010384	99.99827132	99.99550663	99.99274433	99.98998441
ADV1019746	10/16/2025	4.102	10/18/2027	100.01176	100.0089878	100.0062139	100.0034424	100.0006733	99.99790661	99.9951423	99.99238038	99.98962084
ADV1019262	9/26/2025	4.24	9/26/2030	100.01214	100.0093636	100.0065939	100.0038266	100.0010617	99.99829922	99.9955391	99.99278137	99.99002602
ADV1018580	9/2/2025	4.262	8/30/2030	100.06408	100.0601842	100.0566725	100.0529911	100.0491414	100.0451246	100.0409422	100.0365954	100.032085
ADV1018607	9/3/2025	4.26	7/18/2030	100.0122	100.0094073	100.0066188	100.0038327	100.0010491	99.99826786	99.99548902	99.99271259	99.98993855
ADV1019747	10/16/2025	4.152	10/16/2028	100.0119	100.0091266	100.0063527	100.0035811	100.000812	99.99804522	99.99528085	99.99251887	99.98975927
ADV1019472	10/2/2025	4.212	10/2/2029	100.01207	100.0092893	100.0065107	100.0037346	100.0009608	99.99818946	99.99542049	99.99265392	99.98988974
ADV1019449	10/1/2025	4.216	10/1/2029	100.01208	100.0093001	100.0065212	100.0037447	100.0009706	99.99819894	99.99542964	99.99266274	99.98989822
ADV1019770	10/17/2025	4.233	10/17/2030	100.01211	100.0093385	100.0065649	100.0037937	100.0010249	99.99825854	99.99549454	99.99273293	99.98997369
ADV1021255	12/23/2025	4.145	12/23/2030	100.05652	100.0506394	100.047116	100.0433523	100.0393505	100.0351128	100.0306414	100.0259381	100.0210045

	Parallel-Shift Sensitivity Analysis											
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REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1021142	12/18/2025	4.118	12/18/2029	100.07569	100.0657836	100.0622573	100.0582249	100.0536927	100.0486674	100.0431534	100.0371569	100.0306827
ADV1021162	12/19/2025	4.117	12/19/2029	100.07649	100.0663577	100.0628335	100.0588009	100.0542662	100.0492363	100.0437156	100.0377104	100.0312254
ADV1020778	12/3/2025	4.118	1/2/2029	100.06246	100.0546795	100.0511263	100.0472249	100.0429791	100.0383924	100.0334683	100.0282099	100.0226199
ADV1020399	11/17/2025	4.196	11/15/2030	100.02505	100.0219931	100.0189365	100.0158839	100.0128354	100.009791	100.0067507	100.0037144	100.0006821
ADV1021287	12/24/2025	4.077	1/2/2029	100.0571	100.0476339	100.0440984	100.0402147	100.0359865	100.0314173	100.0265108	100.0212698	100.0156972
ADV1020651	11/26/2025	4.142	11/26/2029	100.03241	100.0288813	100.025656	100.022394	100.0190954	100.0157604	100.0123894	100.0089824	100.0055393
ADV1020393	11/17/2025	4.195	10/30/2030	100.0279	100.0247915	100.0216846	100.0185743	100.0154606	100.0123436	100.0092233	100.0060997	100.0029728
ADV1021080	12/16/2025	3.943	12/16/2026	100.03446	100.0202107	100.0167914	100.013193	100.0094169	100.0054647	100.0013378	99.9970374	99.99256454
ADV1020906	12/10/2025	4.109	1/2/2029	100.06125	100.0531329	100.0495836	100.0456861	100.0414441	100.0368613	100.0319411	100.0266865	100.0211003
ADV1021147	12/18/2025	4.042	12/17/2027	100.04581	100.0370343	100.0342848	100.0313978	100.0283748	100.0252169	100.0219261	100.0185033	100.0149493
ADV1020296	11/12/2025	4.132	12/1/2028	100.03703	100.032889	100.0295529	100.0261429	100.0226596	100.0191031	100.0154741	100.011773	100.0079998
ADV1021020	12/15/2025	4.156	12/13/2030	100.05129	100.0462541	100.042781	100.0391381	100.0353267	100.0313482	100.0272039	100.0228951	100.0184225
ADV1021340	12/26/2025	4.018	9/27/2027	100.04648	100.0355185	100.0327756	100.029861	100.0267766	100.023524	100.0201057	100.016523	100.0127767
ADV1021032	12/15/2025	4.156	12/13/2030	100.05129	100.0462541	100.042781	100.0391381	100.0353267	100.0313482	100.0272039	100.0228951	100.0184225
ADV1020442	11/18/2025	3.979	11/18/2026	100.01887	100.0142566	100.0111738	100.0080876	100.0049981	100.0019051	99.99880892	99.99570938	99.99260653
ADV1022629	2/17/2026	4.081	11/15/2028	100.10165	100.0810267	100.0772598	100.0726933	100.0673417	100.0612218	100.0543402	100.0467135	100.0383522
ADV1021900	1/20/2026	4.136	7/22/2030	100.0831	100.0732766	100.0697662	100.0656792	100.0610231	100.0558061	100.0500333	100.0437124	100.0368491
ADV1021949	1/21/2026	4.125	1/22/2030	100.08272	100.0721761	100.0686708	100.0645739	100.0598932	100.0546374	100.0488115	100.0424236	100.0354797
ADV1022722	2/19/2026	4.139	2/19/2030	100.20616	100.1655327	100.1608718	100.1546575	100.1469362	100.1377588	100.1271427	100.115135	100.101765
ADV1021908	1/20/2026	4.143	10/21/2030	100.08379	100.0743003	100.0707916	100.0667061	100.0620515	100.056836	100.0510646	100.044745	100.0378831
ADV1022619	2/17/2026	4.086	2/15/2029	100.10267	100.0825368	100.0787656	100.0741947	100.0688389	100.0627146	100.0558288	100.0481978	100.0398323
ADV1022620	2/17/2026	4.125	11/15/2029	100.111	100.0943155	100.0905103	100.0859058	100.0805164	100.0743588	100.0674398	100.0597758	100.0513775
ADV1022648	2/17/2026	3.965	2/17/2027	100.10722	100.0568287	100.0526896	100.0475591	100.0414603	100.0344195	100.0264456	100.0175639	100.0077905
ADV1021920	1/20/2026	4.143	10/21/2030	100.08379	100.0743003	100.0707916	100.0667061	100.0620515	100.056836	100.0510646	100.044745	100.0378831
ADV1021903	1/20/2026	4.121	1/22/2030	100.08104	100.0704568	100.0669494	100.0628653	100.0582121	100.0529981	100.0472284	100.0409105	100.0340502
ADV1021835	1/15/2026	4.045	4/14/2028	100.06482	100.0504063	100.0469187	100.0429248	100.0384309	100.0334438	100.0279678	100.0220091	100.0155726
ADV1021829	1/15/2026	4.12	7/15/2030	100.0755	100.0656902	100.0621681	100.0581398	100.0536116	100.0485903	100.0430802	100.0370876	100.0306172
ADV1022069	1/26/2026	4.129	10/25/2030	100.08827	100.0769063	100.0734422	100.0692904	100.0644604	100.0589628	100.052804	100.0459938	100.0385398
ADV1021915	1/20/2026	4.121	1/22/2030	100.08104	100.0704568	100.0669494	100.0628653	100.0582121	100.0529981	100.0472284	100.0409105	100.0340502
ADV1021978	1/22/2026	4.111	4/22/2030	100.08128	100.0697774	100.0662848	100.0621853	100.057487	100.0521988	100.0463261	100.0398771	100.032858
ADV1022630	2/17/2026	4.14	5/15/2030	100.11413	100.0986009	100.0947853	100.0901703	100.0847705	100.0786026	100.0716733	100.063999	100.0555904
ADV1022851	2/25/2026	4.161	2/24/2031	100.15009	100.1286332	100.1242747	100.118926	100.1126102	100.1053534	100.0971647	100.0880692	100.0780832
ADV1021824	1/15/2026	4.099	10/15/2029	100.07268	100.0617812	100.0582651	100.0542427	100.0497204	100.0447051	100.039201	100.0332143	100.0267499

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1021830	1/15/2026	4.063	10/13/2028	100.06731	100.0541979	100.0507008	100.0466974	100.0421941	100.0371975	100.0317122	100.0257442	100.0192984
ADV1022060	1/26/2026	4.13	10/24/2030	100.08545	100.0746736	100.0711917	100.0670714	100.0623213	100.0569511	100.0509663	100.0443761	100.037187
ADV1021971	1/22/2026	4.002	10/22/2027	100.06494	100.0447019	100.0412724	100.0372356	100.0325998	100.0273738	100.0215629	100.0151755	100.0082177
ADV1022625	2/17/2026	4.1	5/15/2029	100.10558	100.0867651	100.0829816	100.0783987	100.0730308	100.0668946	100.0599968	100.052354	100.0439767
ADV1021906	1/20/2026	4.143	10/21/2030	100.08379	100.0743003	100.0707916	100.0667061	100.0620515	100.056836	100.0510646	100.044745	100.0378831
ADV1022485	2/10/2026	4.153	2/7/2031	100.10739	100.0943254	100.0906061	100.0861661	100.081018	100.0751761	100.0686466	100.0614434	100.0535757
ADV1021947	1/21/2026	4.16	1/21/2031	100.08734	100.0784675	100.074959	100.0708589	100.0661749	100.0609156	100.0550862	100.0486947	100.041747
ADV1022068	1/26/2026	4.049	4/25/2028	100.07573	100.0585818	100.0551548	100.0510398	100.0462465	100.0407857	100.0346634	100.0278897	100.0204721
ADV1021922	1/20/2026	4.129	4/22/2030	100.08243	100.0722529	100.0687409	100.0646523	100.0599947	100.0547762	100.049002	100.0426797	100.0358151
ADV1021901	1/20/2026	4.121	1/22/2030	100.08104	100.0704568	100.0669494	100.0628653	100.0582121	100.0529981	100.0472284	100.0409105	100.0340502
ADV1021838	1/15/2026	4.132	1/15/2031	100.07643	100.0671886	100.0636706	100.0596463	100.055122	100.0501045	100.0445981	100.0386091	100.0321422
ADV1021827	1/15/2026	4.132	1/15/2031	100.07643	100.0671886	100.0636706	100.0596463	100.055122	100.0501045	100.0445981	100.0386091	100.0321422
ADV1021579	1/5/2026	4.09	2/1/2029	100.08751	100.0710728	100.0676154	100.0633863	100.0583969	100.0526597	100.046182	100.0389755	100.0310489
ADV1021917	1/20/2026	4.121	1/22/2030	100.08104	100.0704568	100.0669494	100.0628653	100.0582121	100.0529981	100.0472284	100.0409105	100.0340502
ADV1021822	1/15/2026	4.09	7/13/2029	100.0713	100.0598854	100.056374	100.0523564	100.0478388	100.0428282	100.0373288	100.0313468	100.024887
ADV1022066	1/26/2026	4.104	1/24/2030	100.082	100.0696967	100.0662186	100.062102	100.0573558	100.0519895	100.0460088	100.0394226	100.0322376
ADV1021839	1/15/2026	4.114	4/15/2030	100.07505	100.064941	100.0614168	100.0573866	100.0528564	100.0478332	100.0423213	100.0363269	100.0298547
ADV1021902	1/20/2026	4.136	7/22/2030	100.0831	100.0732766	100.0697662	100.0656792	100.0610231	100.0558061	100.0500333	100.0437124	100.0368491
ADV1022559	2/12/2026	4.105	2/12/2029	100.17496	100.1357799	100.131356	100.125548	100.1183928	100.1099317	100.1001791	100.0891726	100.076937
ADV1022344	2/4/2026	4.157	2/3/2031	100.11607	100.1017676	100.0979482	100.0933293	100.0879254	100.0817532	100.0748194	100.0671406	100.0587272
ADV1022364	2/5/2026	4.156	1/21/2031	100.10252	100.0908363	100.087244	100.0828799	100.0777561	100.0718863	100.0652772	100.0579419	100.0498898
ADV1021898	1/20/2026	4.143	10/21/2030	100.08379	100.0743003	100.0707916	100.0667061	100.0620515	100.056836	100.0510646	100.044745	100.0378831
ADV1021904	1/20/2026	4.136	7/22/2030	100.0831	100.0732766	100.0697662	100.0656792	100.0610231	100.0558061	100.0500333	100.0437124	100.0368491
ADV1021826	1/15/2026	4.055	7/14/2028	100.06619	100.0525127	100.0490199	100.0450207	100.0405215	100.0355292	100.030048	100.0240841	100.0176425
ADV1022428	2/9/2026	4.05	1/20/2028	100.15853	100.1100236	100.107012	100.1033401	100.0990208	100.0940726	100.0885115	100.082352	100.0755974
ADV1021841	1/15/2026	4.132	1/15/2031	100.07643	100.0671886	100.0636706	100.0596463	100.055122	100.0501045	100.0445981	100.0386091	100.0321422
ADV1022626	2/17/2026	4.061	2/15/2028	100.09769	100.0749864	100.0712369	100.0666876	100.0613533	100.0552504	100.0483858	100.040776	100.0324316
ADV1022631	2/17/2026	4.144	8/15/2030	100.1143	100.0990743	100.095263	100.0906522	100.0852565	100.0790926	100.0721672	100.0644969	100.0560921
ADV1021907	1/20/2026	4.143	10/21/2030	100.08379	100.0743003	100.0707916	100.0667061	100.0620515	100.056836	100.0510646	100.044745	100.0378831
ADV1021833	1/15/2026	4.107	1/15/2030	100.07394	100.0634664	100.059946	100.0559194	100.051393	100.0463734	100.0408651	100.0348743	100.0284058
ADV1021972	1/22/2026	4.102	1/22/2030	100.07975	100.0677069	100.0642195	100.0601252	100.0554321	100.0501491	100.0442814	100.0378375	100.0308235
ADV1021821	1/15/2026	4.08	4/13/2029	100.06979	100.0577789	100.0542728	100.0502605	100.0457482	100.0407428	100.0352485	100.0292717	100.0228172
ADV1022587	2/13/2026	4.156	2/13/2031	100.11113	100.0976472	100.0938741	100.0893132	100.0839784	100.0778856	100.0710414	100.0634614	100.055156

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1021836	1/15/2026	4.132	1/15/2031	100.07643	100.0671886	100.0636706	100.0596463	100.055122	100.0501045	100.0445981	100.0386091	100.0321422
ADV1022826	2/24/2026	4.143	2/25/2030	100.18625	100.1531848	100.1487163	100.14288	100.1357119	100.1272526	100.1175166	100.1065404	100.0943484
ADV1021909	1/20/2026	4.121	1/22/2030	100.08104	100.0704568	100.0669494	100.0628653	100.0582121	100.0529981	100.0472284	100.0409105	100.0340502
ADV1021913	1/20/2026	4.121	1/22/2030	100.08104	100.0704568	100.0669494	100.0628653	100.0582121	100.0529981	100.0472284	100.0409105	100.0340502
ADV1022618	2/17/2026	4.117	8/15/2029	100.10924	100.0918994	100.0881011	100.0835035	100.078121	100.0719702	100.065058	100.0574008	100.0490092
ADV1022623	2/17/2026	4.069	5/15/2028	100.09925	100.0774025	100.073646	100.0690899	100.0637487	100.0576389	100.0507676	100.043151	100.0347998
ADV1021834	1/15/2026	4.12	7/15/2030	100.0755	100.0656902	100.0621681	100.0581398	100.0536116	100.0485903	100.0430802	100.0370876	100.0306172
ADV1021837	1/15/2026	4.12	7/15/2030	100.0755	100.0656902	100.0621681	100.0581398	100.0536116	100.0485903	100.0430802	100.0370876	100.0306172
ADV1021820	1/15/2026	4.121	7/15/2030	100.07566	100.0659008	100.0623782	100.0583494	100.0538207	100.0487988	100.0432882	100.0372951	100.0308242
ADV1021921	1/20/2026	4.143	10/21/2030	100.08379	100.0743003	100.0707916	100.0667061	100.0620515	100.056836	100.0510646	100.044745	100.0378831
ADV1021975	1/22/2026	3.937	1/22/2027	100.05816	100.0297487	100.0263567	100.0223574	100.0177588	100.0125698	100.0067958	100.0004451	99.99352394
ADV1021910	1/20/2026	4.136	7/22/2030	100.0831	100.0732766	100.0697662	100.0656792	100.0610231	100.0558061	100.0500333	100.0437124	100.0368491
ADV1021977	1/22/2026	4.102	1/22/2030	100.07975	100.0677069	100.0642195	100.0601252	100.0554321	100.0501491	100.0442814	100.0378375	100.0308235
ADV1021912	1/20/2026	4.055	4/17/2028	100.0679	100.0537616	100.0502775	100.0462598	100.0417152	100.0366512	100.0310723	100.0249853	100.0183954
ADV1022622	2/17/2026	4.076	8/15/2028	100.10064	100.0795166	100.0757541	100.0711919	100.0658446	100.0597289	100.0528516	100.0452291	100.036872
ADV1022624	2/17/2026	4.136	2/15/2030	100.11347	100.0976377	100.093823	100.0892089	100.08381	100.077643	100.0707147	100.0630414	100.0546338
ADV1021831	1/15/2026	4.126	10/15/2030	100.07596	100.0664394	100.0629193	100.0588931	100.0543668	100.0493474	100.0438392	100.0378483	100.0313797
ADV1021897	1/20/2026	4.15	1/17/2031	100.08146	100.0727159	100.0691962	100.0651429	100.0605629	100.0554634	100.0498491	100.0437267	100.0371014
ADV1022073	1/26/2026	3.986	7/26/2027	100.06696	100.0432156	100.0398272	100.0357506	100.0309956	100.0255728	100.0194884	100.0127524	100.0053723
ADV1021905	1/20/2026	4.136	7/22/2030	100.0831	100.0732766	100.0697662	100.0656792	100.0610231	100.0558061	100.0500333	100.0437124	100.0368491
ADV1021840	1/15/2026	4.114	4/15/2030	100.07505	100.064941	100.0614168	100.0573866	100.0528564	100.0478332	100.0423213	100.0363269	100.0298547
ADV1022676	2/18/2026	4.157	2/18/2031	100.11696	100.1023767	100.0984951	100.0938059	100.0883241	100.0820672	100.0750419	100.0672655	100.0587492
ADV1022632	2/17/2026	4.153	2/14/2031	100.11489	100.1003232	100.0965195	100.0919162	100.0865279	100.0803712	100.0734529	100.0657895	100.0573915
ADV1023277	3/16/2026	4.166	3/15/2030	100.15467	100.1336639	100.1292797	100.1239057	100.1175651	100.110284	100.1020713	100.0929524	100.0829433
ADV1024015	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1024306	4/27/2026	4.2	4/25/2031	100.2961	100.2415049	100.2360263	100.2284024	100.2186409	100.2068314	100.1930041	100.177254	100.1596195
ADV1024009	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1024017	4/15/2026	4.098	1/12/2029	100.1676	100.1289959	100.1245725	100.1188335	100.1118134	100.1035509	100.0940597	100.0833747	100.0715194
ADV1024135	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1024120	4/20/2026	4.179	10/21/2030	100.19749	100.1688895	100.1643606	100.1584483	100.1511894	100.1426252	100.1327702	100.1216619	100.1093251
ADV1024118	4/20/2026	4.179	10/21/2030	100.19749	100.1688895	100.1643606	100.1584483	100.1511894	100.1426252	100.1327702	100.1216619	100.1093251
ADV1023992	4/15/2026	4.192	1/15/2031	100.1951	100.169317	100.1647715	100.1589112	100.1517703	100.1433877	100.1337772	100.1229733	100.1109999
ADV1024309	4/27/2026	4.2	4/21/2031	100.29092	100.2381956	100.2328402	100.2253937	100.2158793	100.2043843	100.1909375	100.1756298	100.1584995

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1024133	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1023246	3/13/2026	4.103	3/13/2029	100.17433	100.1348219	100.1304016	100.1245971	100.1174454	100.1089877	100.0992386	100.0882355	100.0760033
ADV1023266	3/16/2026	4.105	3/15/2029	100.1379	100.1103495	100.1060439	100.1007481	100.0944851	100.0872811	100.0791452	100.0701025	100.0601691
ADV1024303	4/27/2026	4.1	1/29/2029	100.18083	100.1383692	100.1339773	100.128093	100.1207569	100.1120141	100.1018809	100.0903988	100.0775945
ADV1023457	3/23/2026	4.052	3/23/2028	100.15429	100.1076024	100.1032535	100.0975924	100.0906496	100.0824637	100.0730487	100.0624392	100.0506588
ADV1023259	3/16/2026	4.19	3/17/2031	100.15945	100.1403875	100.1359836	100.1305809	100.1242027	100.1168758	100.1086091	100.0994282	100.0893494
ADV1024010	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1023325	3/17/2026	4.184	3/17/2031	100.1973	100.1693383	100.1648225	100.158923	100.1516767	100.1431248	100.1332819	100.1221855	100.1098603
ADV1023088	3/6/2026	4.187	3/6/2031	100.28033	100.2264887	100.2209714	100.2134233	100.2038706	100.1923974	100.1790321	100.1638606	100.1469209
ADV1024130	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1024125	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1024129	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1024002	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1023027	3/4/2026	4.169	1/21/2031	100.19278	100.1629321	100.1584341	100.1525524	100.1453238	100.1367895	100.1269642	100.1158851	100.1035773
ADV1023269	3/16/2026	4.053	3/15/2028	100.1251	100.0904749	100.0862364	100.0810072	100.0748104	100.0676722	100.0596016	100.0506238	100.040755
ADV1023648	3/31/2026	4.13	4/2/2029	100.16292	100.1334901	100.1290117	100.1233713	100.1165977	100.1087235	100.0997618	100.0897411	100.0786822
ADV1024250	4/23/2026	4.056	4/24/2028	100.1632	100.1140641	100.1097335	100.1039776	100.0968306	100.0883355	100.0785075	100.0673856	100.0549956
ADV1024019	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1024126	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1023271	3/16/2026	4.083	9/15/2028	100.1323	100.101941	100.0976638	100.0923962	100.0861612	100.0789851	100.0708768	100.0618615	100.0519555
ADV1024003	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1023755	4/2/2026	4.202	10/2/2030	100.20018	100.1754814	100.1709019	100.1650078	100.1578337	100.1494181	100.139775	100.128939	100.1169337
ADV1024024	4/15/2026	4.194	4/15/2031	100.19466	100.1691127	100.1645766	100.1587254	100.1515935	100.1432198	100.133618	100.1228227	100.1108577
ADV1024012	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1023997	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1024117	4/20/2026	4.179	10/21/2030	100.19749	100.1688895	100.1643606	100.1584483	100.1511894	100.1426252	100.1327702	100.1216619	100.1093251
ADV1024006	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1024016	4/15/2026	4.186	10/15/2030	100.19415	100.1676607	100.1631127	100.15725	100.1501068	100.141722	100.1321093	100.1213035	100.1093282
ADV1024132	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1024121	4/20/2026	4.179	10/21/2030	100.19749	100.1688895	100.1643606	100.1584483	100.1511894	100.1426252	100.1327702	100.1216619	100.1093251
ADV1023274	3/16/2026	4.19	3/14/2031	100.15855	100.1397298	100.1353487	100.1299776	100.1236395	100.1163607	100.1081501	100.099033	100.0890255
ADV1024085	4/17/2026	4.187	1/17/2031	100.198	100.1706122	100.1660751	100.1601913	100.1529964	100.1445303	100.1348075	100.1238638	100.1117233
ADV1024134	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799

	Parallel-Shift Sensitivity Analysis											
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023804	4/6/2026	4.196	4/5/2030	100.29605	100.242246	100.2366298	100.228928	100.2191605	100.2074145	100.1937189	100.1781645	100.1607897
ADV1024027	4/15/2026	3.937	4/15/2027	100.12736	100.0541346	100.0499562	100.0444897	100.03774	100.0297458	100.020521	100.0101003	99.99850738
ADV1024123	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1023267	3/16/2026	4.095	12/15/2028	100.13532	100.1065274	100.1022348	100.0969518	100.0907015	100.0835102	100.0753868	100.0663566	100.0564357
ADV1024247	4/23/2026	3.959	7/23/2027	100.13846	100.0668261	100.0626434	100.0570622	100.0500886	100.0417655	100.0321081	100.0211555	100.0089335
ADV1023664	3/31/2026	4.135	4/2/2029	100.26026	100.1949835	100.1895346	100.1820958	100.1726518	100.1612866	100.1480285	100.1329636	100.1161299
ADV1023273	3/16/2026	4.07	6/15/2028	100.12912	100.0969723	100.0927119	100.087461	100.0812425	100.0740828	100.0659909	100.0569918	100.0471102
ADV1024005	4/15/2026	4.192	1/15/2031	100.1951	100.169317	100.1647715	100.1589112	100.1517703	100.1433877	100.1337772	100.1229733	100.1109999
ADV1022985	3/2/2026	4.167	2/27/2031	100.13679	100.119182	100.1149764	100.1098672	100.1038739	100.0970185	100.0893091	100.0807682	100.0714093
ADV1023268	3/16/2026	4.139	9/14/2029	100.14703	100.1233444	100.118995	100.1136556	100.1073493	100.1001024	100.0919237	100.0828385	100.072863
ADV1023276	3/16/2026	4.172	6/14/2030	100.15577	100.1353357	100.1309506	100.1255757	100.119234	100.1119518	100.1037381	100.094618	100.0846078
ADV1023012	3/3/2026	4.146	3/4/2030	100.13526	100.1155727	100.1113467	100.1062126	100.10019	100.0933012	100.0855544	100.0769722	100.0675683
ADV1023278	3/16/2026	4.153	12/14/2029	100.15095	100.1286952	100.1243278	100.1189705	100.1126464	100.1053817	100.0971854	100.0880827	100.0780898
ADV1024249	4/23/2026	3.98	10/25/2027	100.14318	100.0770523	100.0728382	100.0672192	100.060208	100.0518476	100.0421533	100.0311641	100.0189057
ADV1023993	4/15/2026	4.192	1/15/2031	100.1951	100.169317	100.1647715	100.1589112	100.1517703	100.1433877	100.1337772	100.1229733	100.1109999
ADV1024008	4/15/2026	4.192	1/15/2031	100.1951	100.169317	100.1647715	100.1589112	100.1517703	100.1433877	100.1337772	100.1229733	100.1109999
ADV1024014	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1023270	3/16/2026	4.167	3/18/2030	100.15615	100.1349764	100.1305648	100.1251547	100.1187695	100.1114358	100.1031627	100.0939756	100.083891
ADV1024018	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1023999	4/15/2026	4.192	1/15/2031	100.1951	100.169317	100.1647715	100.1589112	100.1517703	100.1433877	100.1337772	100.1229733	100.1109999
ADV1023756	4/2/2026	4.124	4/2/2029	100.17568	100.1410901	100.1366223	100.1308393	100.1237756	100.1154697	100.1059355	100.0952078	100.0833102
ADV1024127	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1023859	4/8/2026	4.196	1/15/2031	100.19652	100.1711776	100.1666253	100.1607582	100.1536106	100.1452213	100.1356042	100.1247938	100.1128139
ADV1024087	4/17/2026	4.192	4/17/2031	100.19861	100.1718321	100.1672994	100.1614198	100.1542289	100.1457667	100.1360478	100.1251079	100.1129709
ADV1024153	4/20/2026	4.112	4/20/2029	100.17718	100.1391328	100.1346965	100.1288762	100.1217088	100.1132354	100.1034709	100.0924524	100.080205
ADV1023265	3/16/2026	4.123	6/15/2029	100.14266	100.1172291	100.1129004	100.1075815	100.1012956	100.0940689	100.0859103	100.0768451	100.0668894
ADV1023754	4/2/2026	4.193	4/2/2030	100.1989	100.1731862	100.1686007	100.162701	100.1555213	100.1471004	100.1374521	100.1266111	100.1146011
ADV1024248	4/23/2026	4.056	4/24/2028	100.1632	100.1140641	100.1097335	100.1039776	100.0968306	100.0883355	100.0785075	100.0673856	100.0549956
ADV1024300	4/27/2026	4.182	10/28/2030	100.20687	100.1768054	100.1722875	100.1662781	100.1588177	100.1499515	100.1396957	100.1280918	100.1151665
ADV1024013	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1023348	3/18/2026	4.19	3/18/2031	100.16188	100.142358	100.1379321	100.132489	100.1260526	100.1186504	100.1102918	100.1010026	100.0907999
ADV1024128	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1022987	3/2/2026	4.164	3/3/2031	100.13599	100.1181433	100.113941	100.1088351	100.1028451	100.095993	100.0882868	100.0797492	100.0703935

Parallel-Shift Sensitivity Analysis												
4/30/2026				Price								
REFERENCE	SETTLEMENT	Rate	MATURITY	-400	-300	-200	-100	Base	100	200	300	400
ADV1023275	3/16/2026	4.178	9/13/2030	100.15658	100.1366968	100.1323142	100.1269417	100.1206023	100.1133223	100.1051107	100.0959927	100.0859844
ADV1024122	4/20/2026	4.179	10/21/2030	100.19749	100.1688895	100.1643606	100.1584483	100.1511894	100.1426252	100.1327702	100.1216619	100.1093251
ADV1024026	4/15/2026	3.977	10/15/2027	100.13557	100.0727304	100.0684944	100.0629602	100.0561433	100.0480825	100.0387915	100.0283051	100.016647
ADV1024114	4/20/2026	4.189	4/17/2031	100.1987	100.1713439	100.1668236	100.1609197	100.1536689	100.1451125	100.1352652	100.1241643	100.1118347
ADV1024321	4/27/2026	4.197	4/25/2031	100.28431	100.232764	100.227528	100.2202531	100.2109724	100.1997701	100.1866746	100.1717719	100.1550998
ADV1024136	4/20/2026	4.184	1/21/2031	100.19809	100.1701167	100.1655921	100.159684	100.1524292	100.1438689	100.1340177	100.1229131	100.1105799
ADV1023557	3/26/2026	4.203	3/26/2030	100.20851	100.1827205	100.1781227	100.1721422	100.1648158	100.1561847	100.1462637	100.1350899	100.1226884
ADV1024011	4/15/2026	4.197	4/15/2031	100.19572	100.1705081	100.1659669	100.1601106	100.1529738	100.144595	100.1349882	100.124188	100.1122182
ADV1023456	3/23/2026	4.187	3/22/2030	100.19679	100.1703952	100.16582	100.1599304	100.1527608	100.1443499	100.1347116	100.1238804	100.1118801